Web API Reference

AWS Glue



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AWS Glue: Web API Reference

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Welcome to the AWS Glue Web API Reference

AWS Glue is a fully managed ETL (extract, transform, and load) service that makes it simple and cost-effective to categorize your data, clean it, enrich it, and move it reliably between various data stores. AWS Glue consists of a central metadata repository known as the AWS Glue Data Catalog, an ETL engine that automatically generates Python code, and a flexible scheduler that handles dependency resolution, job monitoring, and retries. AWS Glue is serverless, so there's no infrastructure to set up or manage.

Actions

The following actions are supported:

- BatchCreatePartition
- BatchDeleteConnection
- BatchDeletePartition
- BatchDeleteTable
- BatchDeleteTableVersion
- BatchGetBlueprints
- BatchGetCrawlers
- BatchGetCustomEntityTypes
- BatchGetDataQualityResult
- BatchGetDevEndpoints
- BatchGetJobs
- BatchGetPartition
- BatchGetTableOptimizer
- BatchGetTriggers
- BatchGetWorkflows
- BatchPutDataQualityStatisticAnnotation
- BatchStopJobRun
- BatchUpdatePartition
- CancelDataQualityRuleRecommendationRun
- CancelDataQualityRulesetEvaluationRun
- CancelMLTaskRun
- CancelStatement
- CheckSchemaVersionValidity
- CreateBlueprint
- CreateCatalog
- CreateClassifier
- CreateColumnStatisticsTaskSettings

- CreateConnection
- CreateCrawler
- CreateCustomEntityType
- CreateDatabase
- CreateDataQualityRuleset
- CreateDevEndpoint
- CreateGlueIdentityCenterConfiguration
- CreateIntegration
- CreateIntegrationResourceProperty
- CreateIntegrationTableProperties
- CreateJob
- CreateMLTransform
- CreatePartition
- CreatePartitionIndex
- CreateRegistry
- CreateSchema
- CreateScript
- CreateSecurityConfiguration
- CreateSession
- CreateTable
- CreateTableOptimizer
- CreateTrigger
- CreateUsageProfile
- CreateUserDefinedFunction
- CreateWorkflow
- DeleteBlueprint
- DeleteCatalog
- DeleteClassifier
- DeleteColumnStatisticsForPartition
- DeleteColumnStatisticsForTable

- DeleteColumnStatisticsTaskSettings
- DeleteConnection
- DeleteConnectionType
- DeleteCrawler
- DeleteCustomEntityType
- DeleteDatabase
- DeleteDataQualityRuleset
- DeleteDevEndpoint
- DeleteGlueIdentityCenterConfiguration
- DeleteIntegration
- DeleteIntegrationResourceProperty
- DeleteIntegrationTableProperties
- DeleteJob
- DeleteMLTransform
- DeletePartition
- DeletePartitionIndex
- DeleteRegistry
- DeleteResourcePolicy
- DeleteSchema
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- StartJobRun
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- StartMLLabelingSetGenerationTaskRun
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- StopColumnStatisticsTaskRunSchedule
- StopCrawler
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- StopMaterializedViewRefreshTaskRun
- StopSession
- StopTrigger
- StopWorkflowRun
- TagResource
- TestConnection
- UntagResource

- UpdateBlueprint
- UpdateCatalog
- UpdateClassifier
- UpdateColumnStatisticsForPartition
- UpdateColumnStatisticsForTable
- UpdateColumnStatisticsTaskSettings
- UpdateConnection
- UpdateCrawler
- UpdateCrawlerSchedule
- UpdateDatabase
- UpdateDataQualityRuleset
- UpdateDevEndpoint
- UpdateGlueIdentityCenterConfiguration
- UpdateIntegrationResourceProperty
- UpdateIntegrationTableProperties
- UpdateJob
- UpdateJobFromSourceControl
- UpdateMLTransform
- UpdatePartition
- UpdateRegistry
- UpdateSchema
- UpdateSourceControlFromJob
- UpdateTable
- UpdateTableOptimizer
- UpdateTrigger
- UpdateUsageProfile
- UpdateUserDefinedFunction
- UpdateWorkflow

BatchCreatePartition

Creates one or more partitions in a batch operation.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "PartitionInputList": [
      {
         "LastAccessTime": number,
         "LastAnalyzedTime": number,
         "Parameters": {
            "string" : "string"
         },
         "StorageDescriptor": {
            "AdditionalLocations": [ "string" ],
            "BucketColumns": [ "string" ],
            "Columns": [
               {
                  "Comment": "string",
                  "Name": "string",
                  "Parameters": {
                     "string" : "string"
                  },
                  "Type": "string"
               }
            ],
            "Compressed": boolean,
            "InputFormat": "string",
            "Location": "string",
            "NumberOfBuckets": number,
            "OutputFormat": "string",
            "Parameters": {
               "string" : "string"
            },
            "SchemaReference": {
               "SchemaId": {
                  "RegistryName": "string",
                  "SchemaArn": "string",
                  "SchemaName": "string"
               },
```

```
            "SchemaVersionId": "string",
            "SchemaVersionNumber": number
         },
         "SerdeInfo": {
            "Name": "string",
            "Parameters": {
               "string" : "string"
            },
            "SerializationLibrary": "string"
         },
         "SkewedInfo": {
            "SkewedColumnNames": [ "string" ],
            "SkewedColumnValueLocationMaps": {
               "string" : "string"
            },
            "SkewedColumnValues": [ "string" ]
         },
         "SortColumns": [
            {
               "Column": "string",
               "SortOrder": number
            }
         ],
         "StoredAsSubDirectories": boolean
      },
      "Values": [ "string" ]
   }
],
"TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the catalog in which the partition is to be created. Currently, this should be the AWS account ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the metadata database in which the partition is to be created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

PartitionInputList

A list of `PartitionInput` structures that define the partitions to be created.

Type: Array of PartitionInput objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: Yes

TableName

The name of the metadata table in which the partition is to be created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Errors": [
```

```
      {
         "ErrorDetail": {
            "ErrorCode": "string",
            "ErrorMessage": "string"
         },
         "PartitionValues": [ "string" ]
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Errors

The errors encountered when trying to create the requested partitions.

Type: Array of PartitionError objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchDeleteConnection

Deletes a list of connection definitions from the Data Catalog.

Request Syntax

```
{
   "CatalogId": "string",
   "ConnectionNameList": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog in which the connections reside. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ConnectionNameList

A list of names of the connections to delete.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Errors": {
      "string" : {
         "ErrorCode": "string",
         "ErrorMessage": "string"
      }
   },
   "Succeeded": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Errors

A map of the names of connections that were not successfully deleted to error details.

Type: String to ErrorDetail object map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Succeeded

A list of names of the connection definitions that were successfully deleted.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchDeletePartition

Deletes one or more partitions in a batch operation.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "PartitionsToDelete": [
      {
         "Values": [ "string" ]
      }
   ],
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the partition to be deleted resides. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the catalog database in which the table in question resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

PartitionsToDelete

A list of `PartitionInput` structures that define the partitions to be deleted.

Type: Array of PartitionValueList objects

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Required: Yes

TableName

The name of the table that contains the partitions to be deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Errors": [
      {
         "ErrorDetail": {
            "ErrorCode": "string",
            "ErrorMessage": "string"
         },
         "PartitionValues": [ "string" ]
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Errors

The errors encountered when trying to delete the requested partitions.

Type: Array of PartitionError objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchDeleteTable

Deletes multiple tables at once.

> **Note**
>
> After completing this operation, you no longer have access to the table versions and partitions that belong to the deleted table. AWS Glue deletes these "orphaned" resources asynchronously in a timely manner, at the discretion of the service.
> To ensure the immediate deletion of all related resources, before calling `BatchDeleteTable`, use `DeleteTableVersion` or `BatchDeleteTableVersion`, and `DeletePartition` or `BatchDeletePartition`, to delete any resources that belong to the table.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "TablesToDelete": [ "string" ],
   "TransactionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the table resides. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the catalog database in which the tables to delete reside. For Hive compatibility, this name is entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TablesToDelete

A list of the table to delete.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TransactionId

The transaction ID at which to delete the table contents.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}\p{N}\p{P}]*`

Required: No

Response Syntax

```
{
```

```
   "Errors": [
      {
         "ErrorDetail": {
            "ErrorCode": "string",
            "ErrorMessage": "string"
         },
         "TableName": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Errors

A list of errors encountered in attempting to delete the specified tables.

Type: Array of TableError objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNotReadyException

A resource was not ready for a transaction.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchDeleteTableVersion

Deletes a specified batch of versions of a table.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "TableName": "string",
   "VersionIds": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the tables reside. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The database in the catalog in which the table resides. For Hive compatibility, this name is entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the table. For Hive compatibility, this name is entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

VersionIds

A list of the IDs of versions to be deleted. A `VersionId` is a string representation of an integer. Each version is incremented by 1.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Errors": [
      {
         "ErrorDetail": {
            "ErrorCode": "string",
            "ErrorMessage": "string"
         },
         "TableName": "string",
         "VersionId": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Errors

A list of errors encountered while trying to delete the specified table versions.

Type: Array of TableVersionError objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchGetBlueprints

Retrieves information about a list of blueprints.

Request Syntax

```
{
   "IncludeBlueprint": boolean,
   "IncludeParameterSpec": boolean,
   "Names": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

IncludeBlueprint

Specifies whether or not to include the blueprint in the response.

Type: Boolean

Required: No

IncludeParameterSpec

Specifies whether or not to include the parameters, as a JSON string, for the blueprint in the response.

Type: Boolean

Required: No

Names

A list of blueprint names.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: Yes

Response Syntax

```
{
   "Blueprints": [
      {
         "BlueprintLocation": "string",
         "BlueprintServiceLocation": "string",
         "CreatedOn": number,
         "Description": "string",
         "ErrorMessage": "string",
         "LastActiveDefinition": {
            "BlueprintLocation": "string",
            "BlueprintServiceLocation": "string",
            "Description": "string",
            "LastModifiedOn": number,
            "ParameterSpec": "string"
         },
         "LastModifiedOn": number,
         "Name": "string",
         "ParameterSpec": "string",
         "Status": "string"
      }
   ],
   "MissingBlueprints": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Blueprints

Returns a list of blueprint as a `Blueprints` object.

Type: Array of Blueprint objects

MissingBlueprints

Returns a list of `BlueprintNames` that were not found.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchGetCrawlers

Returns a list of resource metadata for a given list of crawler names. After calling the `ListCrawlers` operation, you can call this operation to access the data to which you have been granted permissions. This operation supports all IAM permissions, including permission conditions that uses tags.

Request Syntax

```
{
   "CrawlerNames": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CrawlerNames

A list of crawler names, which might be the names returned from the `ListCrawlers` operation.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Crawlers": [
      {
         "Classifiers": [ "string" ],
         "Configuration": "string",
```

```
        "CrawlElapsedTime": number,
        "CrawlerSecurityConfiguration": "string",
        "CreationTime": number,
        "DatabaseName": "string",
        "Description": "string",
        "LakeFormationConfiguration": {
           "AccountId": "string",
           "UseLakeFormationCredentials": boolean
        },
        "LastCrawl": {
           "ErrorMessage": "string",
           "LogGroup": "string",
           "LogStream": "string",
           "MessagePrefix": "string",
           "StartTime": number,
           "Status": "string"
        },
        "LastUpdated": number,
        "LineageConfiguration": {
           "CrawlerLineageSettings": "string"
        },
        "Name": "string",
        "RecrawlPolicy": {
           "RecrawlBehavior": "string"
        },
        "Role": "string",
        "Schedule": {
           "ScheduleExpression": "string",
           "State": "string"
        },
        "SchemaChangePolicy": {
           "DeleteBehavior": "string",
           "UpdateBehavior": "string"
        },
        "State": "string",
        "TablePrefix": "string",
        "Targets": {
           "CatalogTargets": [
              {
                 "ConnectionName": "string",
                 "DatabaseName": "string",
                 "DlqEventQueueArn": "string",
                 "EventQueueArn": "string",
                 "Tables": [ "string" ]
```

```
            }
         ],
         "DeltaTargets": [
            {
               "ConnectionName": "string",
               "CreateNativeDeltaTable": boolean,
               "DeltaTables": [ "string" ],
               "WriteManifest": boolean
            }
         ],
         "DynamoDBTargets": [
            {
               "Path": "string",
               "scanAll": boolean,
               "scanRate": number
            }
         ],
         "HudiTargets": [
            {
               "ConnectionName": "string",
               "Exclusions": [ "string" ],
               "MaximumTraversalDepth": number,
               "Paths": [ "string" ]
            }
         ],
         "IcebergTargets": [
            {
               "ConnectionName": "string",
               "Exclusions": [ "string" ],
               "MaximumTraversalDepth": number,
               "Paths": [ "string" ]
            }
         ],
         "JdbcTargets": [
            {
               "ConnectionName": "string",
               "EnableAdditionalMetadata": [ "string" ],
               "Exclusions": [ "string" ],
               "Path": "string"
            }
         ],
         "MongoDBTargets": [
            {
               "ConnectionName": "string",
```

```
                "Path": "string",
                "ScanAll": boolean
            }
         ],
         "S3Targets": [
            {
               "ConnectionName": "string",
               "DlqEventQueueArn": "string",
               "EventQueueArn": "string",
               "Exclusions": [ "string" ],
               "Path": "string",
               "SampleSize": number
            }
         ]
      },
      "Version": number
   }
],
"CrawlersNotFound": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Crawlers

A list of crawler definitions.

Type: Array of Crawler objects

CrawlersNotFound

A list of names of crawlers that were not found.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

BatchGetCustomEntityTypes

Retrieves the details for the custom patterns specified by a list of names.

Request Syntax

```
{
   "Names": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Names

A list of names of the custom patterns that you want to retrieve.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "CustomEntityTypes": [
      {
         "ContextWords": [ "string" ],
         "Name": "string",
         "RegexString": "string"
      }
   ],
```

```
    "CustomEntityTypesNotFound": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CustomEntityTypes

A list of `CustomEntityType` objects representing the custom patterns that have been created.

Type: Array of CustomEntityType objects

CustomEntityTypesNotFound

A list of the names of custom patterns that were not found.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchGetDataQualityResult

Retrieves a list of data quality results for the specified result IDs.

Request Syntax

```
{
   "ResultIds": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ResultIds

A list of unique result IDs for the data quality results.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Results": [
      {
         "AggregatedMetrics": {
            "TotalRowsFailed": number,
            "TotalRowsPassed": number,
            "TotalRowsProcessed": number,
            "TotalRulesFailed": number,
            "TotalRulesPassed": number,
            "TotalRulesProcessed": number
```

```
        },
        "AnalyzerResults": [
           {
              "Description": "string",
              "EvaluatedMetrics": {
                 "string" : number
              },
              "EvaluationMessage": "string",
              "Name": "string"
           }
        ],
        "CompletedOn": number,
        "DataSource": {
           "DataQualityGlueTable": {
              "AdditionalOptions": {
                 "string" : "string"
              },
              "CatalogId": "string",
              "ConnectionName": "string",
              "DatabaseName": "string",
              "PreProcessingQuery": "string",
              "TableName": "string"
           },
           "GlueTable": {
              "AdditionalOptions": {
                 "string" : "string"
              },
              "CatalogId": "string",
              "ConnectionName": "string",
              "DatabaseName": "string",
              "TableName": "string"
           }
        },
        "EvaluationContext": "string",
        "JobName": "string",
        "JobRunId": "string",
        "Observations": [
           {
              "Description": "string",
              "MetricBasedObservation": {
                 "MetricName": "string",
                 "MetricValues": {
                    "ActualValue": number,
                    "ExpectedValue": number,
```

```
                        "LowerLimit": number,
                        "UpperLimit": number
                     },
                     "NewRules": [ "string" ],
                     "StatisticId": "string"
                  }
               }
            ],
            "ProfileId": "string",
            "ResultId": "string",
            "RuleResults": [
               {
                  "Description": "string",
                  "EvaluatedMetrics": {
                     "string" : number
                  },
                  "EvaluatedRule": "string",
                  "EvaluationMessage": "string",
                  "Labels": {
                     "string" : "string"
                  },
                  "Name": "string",
                  "Result": "string",
                  "RuleMetrics": {
                     "string" : number
                  }
               }
            ],
            "RulesetEvaluationRunId": "string",
            "RulesetName": "string",
            "Score": number,
            "StartedOn": number
         }
      ],
      "ResultsNotFound": [ "string" ]
   }
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Results

A list of `DataQualityResult` objects representing the data quality results.

Type: Array of DataQualityResult objects

ResultsNotFound

A list of result IDs for which results were not found.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchGetDevEndpoints

Returns a list of resource metadata for a given list of development endpoint names. After calling the `ListDevEndpoints` operation, you can call this operation to access the data to which you have been granted permissions. This operation supports all IAM permissions, including permission conditions that uses tags.

Request Syntax

```
{
   "DevEndpointNames": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

DevEndpointNames

The list of `DevEndpoint` names, which might be the names returned from the `ListDevEndpoint` operation.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Required: Yes

Response Syntax

```
{
   "DevEndpoints": [
      {
         "Arguments": {
            "string" : "string"
         },
         "AvailabilityZone": "string",
         "CreatedTimestamp": number,
```

```
            "EndpointName": "string",
            "ExtraJarsS3Path": "string",
            "ExtraPythonLibsS3Path": "string",
            "FailureReason": "string",
            "GlueVersion": "string",
            "LastModifiedTimestamp": number,
            "LastUpdateStatus": "string",
            "NumberOfNodes": number,
            "NumberOfWorkers": number,
            "PrivateAddress": "string",
            "PublicAddress": "string",
            "PublicKey": "string",
            "PublicKeys": [ "string" ],
            "RoleArn": "string",
            "SecurityConfiguration": "string",
            "SecurityGroupIds": [ "string" ],
            "Status": "string",
            "SubnetId": "string",
            "VpcId": "string",
            "WorkerType": "string",
            "YarnEndpointAddress": "string",
            "ZeppelinRemoteSparkInterpreterPort": number
        }
    ],
    "DevEndpointsNotFound": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

DevEndpoints

A list of `DevEndpoint` definitions.

Type: Array of DevEndpoint objects

DevEndpointsNotFound

A list of `DevEndpoints` not found.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchGetJobs

Returns a list of resource metadata for a given list of job names. After calling the `ListJobs` operation, you can call this operation to access the data to which you have been granted permissions. This operation supports all IAM permissions, including permission conditions that uses tags.

Request Syntax

```
{
   "JobNames": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

JobNames

A list of job names, which might be the names returned from the `ListJobs` operation.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Jobs": [
      {
         "AllocatedCapacity": number,
         "CodeGenConfigurationNodes": {
            "string" : {
               "Aggregate": {
                  "Aggs": [
```

```
                        {
                           "AggFunc": "string",
                           "Column": [ "string" ]
                        }
                     ],
                     "Groups": [
                        [ "string" ]
                     ],
                     "Inputs": [ "string" ],
                     "Name": "string"
                  },
                  "AmazonRedshiftSource": {
                     "Data": {
                        "AccessType": "string",
                        "Action": "string",
                        "AdvancedOptions": [
                           {
                              "Key": "string",
                              "Value": "string"
                           }
                        ],
                        "CatalogDatabase": {
                           "Description": "string",
                           "Label": "string",
                           "Value": "string"
                        },
                        "CatalogRedshiftSchema": "string",
                        "CatalogRedshiftTable": "string",
                        "CatalogTable": {
                           "Description": "string",
                           "Label": "string",
                           "Value": "string"
                        },
                        "Connection": {
                           "Description": "string",
                           "Label": "string",
                           "Value": "string"
                        },
                        "CrawlerConnection": "string",
                        "IamRole": {
                           "Description": "string",
                           "Label": "string",
                           "Value": "string"
                        },
```

```
                "MergeAction": "string",
                "MergeClause": "string",
                "MergeWhenMatched": "string",
                "MergeWhenNotMatched": "string",
                "PostAction": "string",
                "PreAction": "string",
                "SampleQuery": "string",
                "Schema": {
                   "Description": "string",
                   "Label": "string",
                   "Value": "string"
                },
                "SelectedColumns": [
                   {
                      "Description": "string",
                      "Label": "string",
                      "Value": "string"
                   }
                ],
                "SourceType": "string",
                "StagingTable": "string",
                "Table": {
                   "Description": "string",
                   "Label": "string",
                   "Value": "string"
                },
                "TablePrefix": "string",
                "TableSchema": [
                   {
                      "Description": "string",
                      "Label": "string",
                      "Value": "string"
                   }
                ],
                "TempDir": "string",
                "Upsert": boolean
             },
             "Name": "string"
          },
          "AmazonRedshiftTarget": {
             "Data": {
                "AccessType": "string",
                "Action": "string",
                "AdvancedOptions": [
```

```
            {
               "Key": "string",
               "Value": "string"
            }
         ],
         "CatalogDatabase": {
            "Description": "string",
            "Label": "string",
            "Value": "string"
         },
         "CatalogRedshiftSchema": "string",
         "CatalogRedshiftTable": "string",
         "CatalogTable": {
            "Description": "string",
            "Label": "string",
            "Value": "string"
         },
         "Connection": {
            "Description": "string",
            "Label": "string",
            "Value": "string"
         },
         "CrawlerConnection": "string",
         "IamRole": {
            "Description": "string",
            "Label": "string",
            "Value": "string"
         },
         "MergeAction": "string",
         "MergeClause": "string",
         "MergeWhenMatched": "string",
         "MergeWhenNotMatched": "string",
         "PostAction": "string",
         "PreAction": "string",
         "SampleQuery": "string",
         "Schema": {
            "Description": "string",
            "Label": "string",
            "Value": "string"
         },
         "SelectedColumns": [
            {
               "Description": "string",
               "Label": "string",
```

```
                        "Value": "string"
                     }
                  ],
                  "SourceType": "string",
                  "StagingTable": "string",
                  "Table": {
                     "Description": "string",
                     "Label": "string",
                     "Value": "string"
                  },
                  "TablePrefix": "string",
                  "TableSchema": [
                     {
                        "Description": "string",
                        "Label": "string",
                        "Value": "string"
                     }
                  ],
                  "TempDir": "string",
                  "Upsert": boolean
               },
               "Inputs": [ "string" ],
               "Name": "string"
            },
            "ApplyMapping": {
               "Inputs": [ "string" ],
               "Mapping": [
                  {
                     "Children": [
                        "Mapping"
                     ],
                     "Dropped": boolean,
                     "FromPath": [ "string" ],
                     "FromType": "string",
                     "ToKey": "string",
                     "ToType": "string"
                  }
               ],
               "Name": "string"
            },
            "AthenaConnectorSource": {
               "ConnectionName": "string",
               "ConnectionTable": "string",
               "ConnectionType": "string",
```

```
            "ConnectorName": "string",
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "SchemaName": "string"
         },
         "CatalogDeltaSource": {
            "AdditionalDeltaOptions": {
               "string" : "string"
            },
            "Database": "string",
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "Table": "string"
         },
         "CatalogHudiSource": {
            "AdditionalHudiOptions": {
               "string" : "string"
            },
            "Database": "string",
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
```

```
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "Table": "string"
         },
         "CatalogIcebergSource": {
            "AdditionalIcebergOptions": {
               "string" : "string"
            },
            "Database": "string",
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "Table": "string"
         },
         "CatalogKafkaSource": {
            "Database": "string",
            "DataPreviewOptions": {
               "PollingTime": number,
               "RecordPollingLimit": number
            },
            "DetectSchema": boolean,
            "Name": "string",
            "StreamingOptions": {
               "AddRecordTimestamp": "string",
               "Assign": "string",
               "BootstrapServers": "string",
               "Classification": "string",
               "ConnectionName": "string",
               "Delimiter": "string",
               "EmitConsumerLagMetrics": "string",
```

```
            "EndingOffsets": "string",
            "IncludeHeaders": boolean,
            "MaxOffsetsPerTrigger": number,
            "MinPartitions": number,
            "NumRetries": number,
            "PollTimeoutMs": number,
            "RetryIntervalMs": number,
            "SecurityProtocol": "string",
            "StartingOffsets": "string",
            "StartingTimestamp": "string",
            "SubscribePattern": "string",
            "TopicName": "string"
         },
         "Table": "string",
         "WindowSize": number
      },
      "CatalogKinesisSource": {
         "Database": "string",
         "DataPreviewOptions": {
            "PollingTime": number,
            "RecordPollingLimit": number
         },
         "DetectSchema": boolean,
         "Name": "string",
         "StreamingOptions": {
            "AddIdleTimeBetweenReads": boolean,
            "AddRecordTimestamp": "string",
            "AvoidEmptyBatches": boolean,
            "Classification": "string",
            "Delimiter": "string",
            "DescribeShardInterval": number,
            "EmitConsumerLagMetrics": "string",
            "EndpointUrl": "string",
            "FanoutConsumerARN": "string",
            "IdleTimeBetweenReadsInMs": number,
            "MaxFetchRecordsPerShard": number,
            "MaxFetchTimeInMs": number,
            "MaxRecordPerRead": number,
            "MaxRetryIntervalMs": number,
            "NumRetries": number,
            "RetryIntervalMs": number,
            "RoleArn": "string",
            "RoleSessionName": "string",
            "StartingPosition": "string",
```

```
            "StartingTimestamp": "string",
            "StreamArn": "string",
            "StreamName": "string"
         },
         "Table": "string",
         "WindowSize": number
      },
      "CatalogSource": {
         "Database": "string",
         "Name": "string",
         "OutputSchemas": [
            {
               "Columns": [
                  {
                     "GlueStudioType": "string",
                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ],
         "PartitionPredicate": "string",
         "Table": "string"
      },
      "CatalogTarget": {
         "Database": "string",
         "Inputs": [ "string" ],
         "Name": "string",
         "PartitionKeys": [
            [ "string" ]
         ],
         "Table": "string"
      },
      "ConnectorDataSource": {
         "ConnectionType": "string",
         "Data": {
            "string" : "string"
         },
         "Name": "string",
         "OutputSchemas": [
            {
               "Columns": [
                  {
                     "GlueStudioType": "string",
```

```
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ]
         },
         "ConnectorDataTarget": {
            "ConnectionType": "string",
            "Data": {
               "string" : "string"
            },
            "Inputs": [ "string" ],
            "Name": "string"
         },
         "CustomCode": {
            "ClassName": "string",
            "Code": "string",
            "Inputs": [ "string" ],
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ]
         },
         "DirectJDBCSource": {
            "ConnectionName": "string",
            "ConnectionType": "string",
            "Database": "string",
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
```

```
                        }
                    ]
                }
            ],
            "RedshiftTmpDir": "string",
            "Table": "string"
        },
        "DirectKafkaSource": {
            "DataPreviewOptions": {
                "PollingTime": number,
                "RecordPollingLimit": number
            },
            "DetectSchema": boolean,
            "Name": "string",
            "StreamingOptions": {
                "AddRecordTimestamp": "string",
                "Assign": "string",
                "BootstrapServers": "string",
                "Classification": "string",
                "ConnectionName": "string",
                "Delimiter": "string",
                "EmitConsumerLagMetrics": "string",
                "EndingOffsets": "string",
                "IncludeHeaders": boolean,
                "MaxOffsetsPerTrigger": number,
                "MinPartitions": number,
                "NumRetries": number,
                "PollTimeoutMs": number,
                "RetryIntervalMs": number,
                "SecurityProtocol": "string",
                "StartingOffsets": "string",
                "StartingTimestamp": "string",
                "SubscribePattern": "string",
                "TopicName": "string"
            },
            "WindowSize": number
        },
        "DirectKinesisSource": {
            "DataPreviewOptions": {
                "PollingTime": number,
                "RecordPollingLimit": number
            },
            "DetectSchema": boolean,
            "Name": "string",
```

```
            "StreamingOptions": {
               "AddIdleTimeBetweenReads": boolean,
               "AddRecordTimestamp": "string",
               "AvoidEmptyBatches": boolean,
               "Classification": "string",
               "Delimiter": "string",
               "DescribeShardInterval": number,
               "EmitConsumerLagMetrics": "string",
               "EndpointUrl": "string",
               "FanoutConsumerARN": "string",
               "IdleTimeBetweenReadsInMs": number,
               "MaxFetchRecordsPerShard": number,
               "MaxFetchTimeInMs": number,
               "MaxRecordPerRead": number,
               "MaxRetryIntervalMs": number,
               "NumRetries": number,
               "RetryIntervalMs": number,
               "RoleArn": "string",
               "RoleSessionName": "string",
               "StartingPosition": "string",
               "StartingTimestamp": "string",
               "StreamArn": "string",
               "StreamName": "string"
            },
            "WindowSize": number
         },
         "DropDuplicates": {
            "Columns": [
               [ "string" ]
            ],
            "Inputs": [ "string" ],
            "Name": "string"
         },
         "DropFields": {
            "Inputs": [ "string" ],
            "Name": "string",
            "Paths": [
               [ "string" ]
            ]
         },
         "DropNullFields": {
            "Inputs": [ "string" ],
            "Name": "string",
            "NullCheckBoxList": {
```

```
            "IsEmpty": boolean,
            "IsNegOne": boolean,
            "IsNullString": boolean
         },
         "NullTextList": [
            {
               "Datatype": {
                  "Id": "string",
                  "Label": "string"
               },
               "Value": "string"
            }
         ]
      },
      "DynamicTransform": {
         "FunctionName": "string",
         "Inputs": [ "string" ],
         "Name": "string",
         "OutputSchemas": [
            {
               "Columns": [
                  {
                     "GlueStudioType": "string",
                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ],
         "Parameters": [
            {
               "IsOptional": boolean,
               "ListType": "string",
               "Name": "string",
               "Type": "string",
               "ValidationMessage": "string",
               "ValidationRule": "string",
               "Value": [ "string" ]
            }
         ],
         "Path": "string",
         "TransformName": "string",
         "Version": "string"
      },
```

```
            "DynamoDBCatalogSource": {
               "AdditionalOptions": {
                  "DynamodbExport": "string",
                  "DynamodbUnnestDDBJson": boolean
               },
               "Database": "string",
               "Name": "string",
               "PitrEnabled": boolean,
               "Table": "string"
            },
            "DynamoDBELTConnectorSource": {
               "ConnectionOptions": {
                  "DynamodbExport": "string",
                  "DynamodbS3Bucket": "string",
                  "DynamodbS3BucketOwner": "string",
                  "DynamodbS3Prefix": "string",
                  "DynamodbStsRoleArn": "string",
                  "DynamodbTableArn": "string",
                  "DynamodbUnnestDDBJson": boolean
               },
               "Name": "string",
               "OutputSchemas": [
                  {
                     "Columns": [
                        {
                           "GlueStudioType": "string",
                           "Name": "string",
                           "Type": "string"
                        }
                     ]
                  }
               ]
            },
            "EvaluateDataQuality": {
               "Inputs": [ "string" ],
               "Name": "string",
               "Output": "string",
               "PublishingOptions": {
                  "CloudWatchMetricsEnabled": boolean,
                  "EvaluationContext": "string",
                  "ResultsPublishingEnabled": boolean,
                  "ResultsS3Prefix": "string"
               },
               "Ruleset": "string",
```

```
            "StopJobOnFailureOptions": {
               "StopJobOnFailureTiming": "string"
            }
         },
         "EvaluateDataQualityMultiFrame": {
            "AdditionalDataSources": {
               "string" : "string"
            },
            "AdditionalOptions": {
               "string" : "string"
            },
            "Inputs": [ "string" ],
            "Name": "string",
            "PublishingOptions": {
               "CloudWatchMetricsEnabled": boolean,
               "EvaluationContext": "string",
               "ResultsPublishingEnabled": boolean,
               "ResultsS3Prefix": "string"
            },
            "Ruleset": "string",
            "StopJobOnFailureOptions": {
               "StopJobOnFailureTiming": "string"
            }
         },
         "FillMissingValues": {
            "FilledPath": "string",
            "ImputedPath": "string",
            "Inputs": [ "string" ],
            "Name": "string"
         },
         "Filter": {
            "Filters": [
               {
                  "Negated": boolean,
                  "Operation": "string",
                  "Values": [
                     {
                        "Type": "string",
                        "Value": [ "string" ]
                     }
                  ]
               }
            ],
            "Inputs": [ "string" ],
```

```
            "LogicalOperator": "string",
            "Name": "string"
         },
         "GovernedCatalogSource": {
            "AdditionalOptions": {
               "BoundedFiles": number,
               "BoundedSize": number
            },
            "Database": "string",
            "Name": "string",
            "PartitionPredicate": "string",
            "Table": "string"
         },
         "GovernedCatalogTarget": {
            "Database": "string",
            "Inputs": [ "string" ],
            "Name": "string",
            "PartitionKeys": [
               [ "string" ]
            ],
            "SchemaChangePolicy": {
               "EnableUpdateCatalog": boolean,
               "UpdateBehavior": "string"
            },
            "Table": "string"
         },
         "JDBCConnectorSource": {
            "AdditionalOptions": {
               "DataTypeMapping": {
                  "string" : "string"
               },
               "FilterPredicate": "string",
               "JobBookmarkKeys": [ "string" ],
               "JobBookmarkKeysSortOrder": "string",
               "LowerBound": number,
               "NumPartitions": number,
               "PartitionColumn": "string",
               "UpperBound": number
            },
            "ConnectionName": "string",
            "ConnectionTable": "string",
            "ConnectionType": "string",
            "ConnectorName": "string",
            "Name": "string",
```

```
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "Query": "string"
         },
         "JDBCConnectorTarget": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "ConnectionName": "string",
            "ConnectionTable": "string",
            "ConnectionType": "string",
            "ConnectorName": "string",
            "Inputs": [ "string" ],
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ]
         },
         "Join": {
            "Columns": [
               {
                  "From": "string",
                  "Keys": [
                     [ "string" ]
                  ]
               }
            ],
```

```
            "Inputs": [ "string" ],
            "JoinType": "string",
            "Name": "string"
         },
         "Merge": {
            "Inputs": [ "string" ],
            "Name": "string",
            "PrimaryKeys": [
               [ "string" ]
            ],
            "Source": "string"
         },
         "MicrosoftSQLServerCatalogSource": {
            "Database": "string",
            "Name": "string",
            "Table": "string"
         },
         "MicrosoftSQLServerCatalogTarget": {
            "Database": "string",
            "Inputs": [ "string" ],
            "Name": "string",
            "Table": "string"
         },
         "MySQLCatalogSource": {
            "Database": "string",
            "Name": "string",
            "Table": "string"
         },
         "MySQLCatalogTarget": {
            "Database": "string",
            "Inputs": [ "string" ],
            "Name": "string",
            "Table": "string"
         },
         "OracleSQLCatalogSource": {
            "Database": "string",
            "Name": "string",
            "Table": "string"
         },
         "OracleSQLCatalogTarget": {
            "Database": "string",
            "Inputs": [ "string" ],
            "Name": "string",
            "Table": "string"
```

```
            },
            "PIIDetection": {
               "DetectionParameters": "string",
               "DetectionSensitivity": "string",
               "EntityTypesToDetect": [ "string" ],
               "Inputs": [ "string" ],
               "MaskValue": "string",
               "MatchPattern": "string",
               "Name": "string",
               "NumLeftCharsToExclude": number,
               "NumRightCharsToExclude": number,
               "OutputColumnName": "string",
               "PiiType": "string",
               "RedactChar": "string",
               "RedactText": "string",
               "SampleFraction": number,
               "ThresholdFraction": number
            },
            "PostgreSQLCatalogSource": {
               "Database": "string",
               "Name": "string",
               "Table": "string"
            },
            "PostgreSQLCatalogTarget": {
               "Database": "string",
               "Inputs": [ "string" ],
               "Name": "string",
               "Table": "string"
            },
            "Recipe": {
               "Inputs": [ "string" ],
               "Name": "string",
               "RecipeReference": {
                  "RecipeArn": "string",
                  "RecipeVersion": "string"
               },
               "RecipeSteps": [
                  {
                     "Action": {
                        "Operation": "string",
                        "Parameters": {
                           "string" : "string"
                        }
                     },
```

```
                "ConditionExpressions": [
                   {
                      "Condition": "string",
                      "TargetColumn": "string",
                      "Value": "string"
                   }
                ]
             }
          ]
       },
       "RedshiftSource": {
          "Database": "string",
          "Name": "string",
          "RedshiftTmpDir": "string",
          "Table": "string",
          "TmpDirIAMRole": "string"
       },
       "RedshiftTarget": {
          "Database": "string",
          "Inputs": [ "string" ],
          "Name": "string",
          "RedshiftTmpDir": "string",
          "Table": "string",
          "TmpDirIAMRole": "string",
          "UpsertRedshiftOptions": {
             "ConnectionName": "string",
             "TableLocation": "string",
             "UpsertKeys": [ "string" ]
          }
       },
       "RelationalCatalogSource": {
          "Database": "string",
          "Name": "string",
          "Table": "string"
       },
       "RenameField": {
          "Inputs": [ "string" ],
          "Name": "string",
          "SourcePath": [ "string" ],
          "TargetPath": [ "string" ]
       },
       "Route": {
          "GroupFiltersList": [
             {
```

```
                    "Filters": [
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                          "Negated": boolean,
                          "Operation": "string",
                          "Values": [
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                                "Type": "string",
                                "Value": [ "string" ]
                             }
                          ]
                       }
                    ],
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              ],
              "Inputs": [ "string" ],
              "Name": "string"
           },
           "S3CatalogDeltaSource": {
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              },
              "Database": "string",
              "Name": "string",
              "OutputSchemas": [
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                          "GlueStudioType": "string",
                          "Name": "string",
                          "Type": "string"
                       }
                    ]
                 }
              ],
              "Table": "string"
           },
           "S3CatalogHudiSource": {
              "AdditionalHudiOptions": {
                 "string" : "string"
              },
              "Database": "string",
              "Name": "string",
```

```
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                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "Table": "string"
         },
         "S3CatalogIcebergSource": {
            "AdditionalIcebergOptions": {
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            },
            "Database": "string",
            "Name": "string",
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               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "Table": "string"
         },
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            "PartitionPredicate": "string",
            "Table": "string"
         },
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            "AutoDataQuality": {
```

```
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            "IsEnabled": boolean
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         "Database": "string",
         "Inputs": [ "string" ],
         "Name": "string",
         "PartitionKeys": [
            [ "string" ]
         ],
         "SchemaChangePolicy": {
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            "UpdateBehavior": "string"
         },
         "Table": "string"
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            "SamplePath": "string"
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         "Escaper": "string",
         "Exclusions": [ "string" ],
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         "GroupSize": "string",
         "MaxBand": number,
         "MaxFilesInBand": number,
         "Multiline": boolean,
         "Name": "string",
         "OptimizePerformance": boolean,
         "OutputSchemas": [
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                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ],
         "Paths": [ "string" ],
```

```
            "QuoteChar": "string",
            "Recurse": boolean,
            "Separator": "string",
            "SkipFirst": boolean,
            "WithHeader": boolean,
            "WriteHeader": boolean
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            },
            "AutoDataQuality": {
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               "IsEnabled": boolean
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            "Inputs": [ "string" ],
            "Name": "string",
            "OutputSchemas": [
               {
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                     {
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                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "PartitionKeys": [
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            ],
            "SchemaChangePolicy": {
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               "UpdateBehavior": "string"
            },
            "Table": "string"
         },
         "S3DeltaDirectTarget": {
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            },
            "AutoDataQuality": {
               "EvaluationContext": "string",
```

```
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         "Compression": "string",
         "Format": "string",
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         "NumberTargetPartitions": "string",
         "PartitionKeys": [
            [ "string" ]
         ],
         "Path": "string",
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            "EnableUpdateCatalog": boolean,
            "Table": "string",
            "UpdateBehavior": "string"
         }
      },
      "S3DeltaSource": {
         "AdditionalDeltaOptions": {
            "string" : "string"
         },
         "AdditionalOptions": {
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            "BoundedSize": number,
            "EnableSamplePath": boolean,
            "SamplePath": "string"
         },
         "Name": "string",
         "OutputSchemas": [
            {
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                     "Type": "string"
                  }
               ]
            }
         ],
         "Paths": [ "string" ]
      },
      "S3DirectTarget": {
         "AutoDataQuality": {
```

```
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         "Compression": "string",
         "Format": "string",
         "Inputs": [ "string" ],
         "Name": "string",
         "NumberTargetPartitions": "string",
         "OutputSchemas": [
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                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ],
         "PartitionKeys": [
            [ "string" ]
         ],
         "Path": "string",
         "SchemaChangePolicy": {
            "Database": "string",
            "EnableUpdateCatalog": boolean,
            "Table": "string",
            "UpdateBehavior": "string"
         }
      },
      "S3ExcelSource": {
         "AdditionalOptions": {
            "BoundedFiles": number,
            "BoundedSize": number,
            "EnableSamplePath": boolean,
            "SamplePath": "string"
         },
         "CompressionType": "string",
         "Exclusions": [ "string" ],
         "GroupFiles": "string",
         "GroupSize": "string",
         "MaxBand": number,
         "MaxFilesInBand": number,
         "Name": "string",
```

```
            "NumberRows": number,
            "OutputSchemas": [
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                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "Paths": [ "string" ],
            "Recurse": boolean,
            "SkipFooter": number
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         "S3GlueParquetTarget": {
            "AutoDataQuality": {
               "EvaluationContext": "string",
               "IsEnabled": boolean
            },
            "Compression": "string",
            "Inputs": [ "string" ],
            "Name": "string",
            "NumberTargetPartitions": "string",
            "PartitionKeys": [
               [ "string" ]
            ],
            "Path": "string",
            "SchemaChangePolicy": {
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               "EnableUpdateCatalog": boolean,
               "Table": "string",
               "UpdateBehavior": "string"
            }
         },
         "S3HudiCatalogTarget": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "AutoDataQuality": {
               "EvaluationContext": "string",
               "IsEnabled": boolean
            },
```

```
            "Database": "string",
            "Inputs": [ "string" ],
            "Name": "string",
            "OutputSchemas": [
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                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "PartitionKeys": [
               [ "string" ]
            ],
            "SchemaChangePolicy": {
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               "UpdateBehavior": "string"
            },
            "Table": "string"
         },
         "S3HudiDirectTarget": {
            "AdditionalOptions": {
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            },
            "AutoDataQuality": {
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               "IsEnabled": boolean
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            "Format": "string",
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```

```
            "UpdateBehavior": "string"
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      },
      "S3HudiSource": {
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            "string" : "string"
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            "SamplePath": "string"
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                     "Type": "string"
                  }
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            }
         ],
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         "Format": "string",
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         "Name": "string",
         "OutputSchemas": [
            {
               "Columns": [
                  {
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                     "Name": "string",
                     "Type": "string"
                  }
```

```
                        ]
                    }
                ],
                "PartitionKeys": [
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                ],
                "Path": "string",
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                    "EnableUpdateCatalog": boolean,
                    "Table": "string",
                    "UpdateBehavior": "string"
                }
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                "AdditionalOptions": {
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                },
                "AutoDataQuality": {
                    "EvaluationContext": "string",
                    "IsEnabled": boolean
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                "Database": "string",
                "Inputs": [ "string" ],
                "Name": "string",
                "PartitionKeys": [
                    [ "string" ]
                ],
                "SchemaChangePolicy": {
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                    "UpdateBehavior": "string"
                },
                "Table": "string"
            },
            "S3IcebergDirectTarget": {
                "AdditionalOptions": {
                    "string" : "string"
                },
                "AutoDataQuality": {
                    "EvaluationContext": "string",
                    "IsEnabled": boolean
                },
                "Compression": "string",
                "Format": "string",
```

```
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            "NumberTargetPartitions": "string",
            "OutputSchemas": [
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                  "Columns": [
                     {
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                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "PartitionKeys": [
               [ "string" ]
            ],
            "Path": "string",
            "SchemaChangePolicy": {
               "Database": "string",
               "EnableUpdateCatalog": boolean,
               "Table": "string",
               "UpdateBehavior": "string"
            }
         },
         "S3JsonSource": {
            "AdditionalOptions": {
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               "BoundedSize": number,
               "EnableSamplePath": boolean,
               "SamplePath": "string"
            },
            "CompressionType": "string",
            "Exclusions": [ "string" ],
            "GroupFiles": "string",
            "GroupSize": "string",
            "JsonPath": "string",
            "MaxBand": number,
            "MaxFilesInBand": number,
            "Multiline": boolean,
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
```

```
                        {
                           "GlueStudioType": "string",
                           "Name": "string",
                           "Type": "string"
                        }
                     ]
                  }
               ],
               "Paths": [ "string" ],
               "Recurse": boolean
            },
            "S3ParquetSource": {
               "AdditionalOptions": {
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                  "BoundedSize": number,
                  "EnableSamplePath": boolean,
                  "SamplePath": "string"
               },
               "CompressionType": "string",
               "Exclusions": [ "string" ],
               "GroupFiles": "string",
               "GroupSize": "string",
               "MaxBand": number,
               "MaxFilesInBand": number,
               "Name": "string",
               "OutputSchemas": [
                  {
                     "Columns": [
                        {
                           "GlueStudioType": "string",
                           "Name": "string",
                           "Type": "string"
                        }
                     ]
                  }
               ],
               "Paths": [ "string" ],
               "Recurse": boolean
            },
            "SelectFields": {
               "Inputs": [ "string" ],
               "Name": "string",
               "Paths": [
                  [ "string" ]
```

```
            ]
         },
         "SelectFromCollection": {
            "Index": number,
            "Inputs": [ "string" ],
            "Name": "string"
         },
         "SnowflakeSource": {
            "Data": {
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               "AdditionalOptions": {
                  "string" : "string"
               },
               "AutoPushdown": boolean,
               "Connection": {
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                  "Label": "string",
                  "Value": "string"
               },
               "Database": "string",
               "IamRole": {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               },
               "MergeAction": "string",
               "MergeClause": "string",
               "MergeWhenMatched": "string",
               "MergeWhenNotMatched": "string",
               "PostAction": "string",
               "PreAction": "string",
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               "Schema": "string",
               "SelectedColumns": [
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                     "Description": "string",
                     "Label": "string",
                     "Value": "string"
                  }
               ],
               "SourceType": "string",
               "StagingTable": "string",
               "Table": "string",
               "TableSchema": [
```

```
                        {
                           "Description": "string",
                           "Label": "string",
                           "Value": "string"
                        }
                     ],
                     "TempDir": "string",
                     "Upsert": boolean
                  },
                  "Name": "string",
                  "OutputSchemas": [
                     {
                        "Columns": [
                           {
                              "GlueStudioType": "string",
                              "Name": "string",
                              "Type": "string"
                           }
                        ]
                     }
                  ]
               },
               "SnowflakeTarget": {
                  "Data": {
                     "Action": "string",
                     "AdditionalOptions": {
                        "string" : "string"
                     },
                     "AutoPushdown": boolean,
                     "Connection": {
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                        "Label": "string",
                        "Value": "string"
                     },
                     "Database": "string",
                     "IamRole": {
                        "Description": "string",
                        "Label": "string",
                        "Value": "string"
                     },
                     "MergeAction": "string",
                     "MergeClause": "string",
                     "MergeWhenMatched": "string",
                     "MergeWhenNotMatched": "string",
```

```
                "PostAction": "string",
                "PreAction": "string",
                "SampleQuery": "string",
                "Schema": "string",
                "SelectedColumns": [
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                      "Label": "string",
                      "Value": "string"
                   }
                ],
                "SourceType": "string",
                "StagingTable": "string",
                "Table": "string",
                "TableSchema": [
                   {
                      "Description": "string",
                      "Label": "string",
                      "Value": "string"
                   }
                ],
                "TempDir": "string",
                "Upsert": boolean
             },
             "Inputs": [ "string" ],
             "Name": "string"
          },
          "SparkConnectorSource": {
             "AdditionalOptions": {
                "string" : "string"
             },
             "ConnectionName": "string",
             "ConnectionType": "string",
             "ConnectorName": "string",
             "Name": "string",
             "OutputSchemas": [
                {
                   "Columns": [
                      {
                         "GlueStudioType": "string",
                         "Name": "string",
                         "Type": "string"
                      }
                   ]
```

```
            }
         ]
      },
      "SparkConnectorTarget": {
         "AdditionalOptions": {
            "string" : "string"
         },
         "ConnectionName": "string",
         "ConnectionType": "string",
         "ConnectorName": "string",
         "Inputs": [ "string" ],
         "Name": "string",
         "OutputSchemas": [
            {
               "Columns": [
                  {
                     "GlueStudioType": "string",
                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ]
      },
      "SparkSQL": {
         "Inputs": [ "string" ],
         "Name": "string",
         "OutputSchemas": [
            {
               "Columns": [
                  {
                     "GlueStudioType": "string",
                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ],
         "SqlAliases": [
            {
               "Alias": "string",
               "From": "string"
            }
         ],
```

```
                "SqlQuery": "string"
            },
            "Spigot": {
                "Inputs": [ "string" ],
                "Name": "string",
                "Path": "string",
                "Prob": number,
                "Topk": number
            },
            "SplitFields": {
                "Inputs": [ "string" ],
                "Name": "string",
                "Paths": [
                    [ "string" ]
                ]
            },
            "Union": {
                "Inputs": [ "string" ],
                "Name": "string",
                "UnionType": "string"
            }
        }
    },
    "Command": {
        "Name": "string",
        "PythonVersion": "string",
        "Runtime": "string",
        "ScriptLocation": "string"
    },
    "Connections": {
        "Connections": [ "string" ]
    },
    "CreatedOn": number,
    "DefaultArguments": {
        "string" : "string"
    },
    "Description": "string",
    "ExecutionClass": "string",
    "ExecutionProperty": {
        "MaxConcurrentRuns": number
    },
    "GlueVersion": "string",
    "JobMode": "string",
    "JobRunQueuingEnabled": boolean,
```

```
            "LastModifiedOn": number,
            "LogUri": "string",
            "MaintenanceWindow": "string",
            "MaxCapacity": number,
            "MaxRetries": number,
            "Name": "string",
            "NonOverridableArguments": {
               "string" : "string"
            },
            "NotificationProperty": {
               "NotifyDelayAfter": number
            },
            "NumberOfWorkers": number,
            "ProfileName": "string",
            "Role": "string",
            "SecurityConfiguration": "string",
            "SourceControlDetails": {
               "AuthStrategy": "string",
               "AuthToken": "string",
               "Branch": "string",
               "Folder": "string",
               "LastCommitId": "string",
               "Owner": "string",
               "Provider": "string",
               "Repository": "string"
            },
            "Timeout": number,
            "WorkerType": "string"
         }
      ],
      "JobsNotFound": [ "string" ]
   }
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Jobs

A list of job definitions.

Type: Array of Job objects

JobsNotFound

A list of names of jobs not found.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchGetPartition

Retrieves partitions in a batch request.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "PartitionsToGet": [
      {
         "Values": [ "string" ]
      }
   ],
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the partitions in question reside. If none is supplied, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the catalog database where the partitions reside.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

PartitionsToGet

A list of partition values identifying the partitions to retrieve.

Type: Array of PartitionValueList objects

Array Members: Minimum number of 0 items. Maximum number of 1000 items.

Required: Yes

TableName

The name of the partitions' table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Partitions": [
      {
         "CatalogId": "string",
         "CreationTime": number,
         "DatabaseName": "string",
         "LastAccessTime": number,
         "LastAnalyzedTime": number,
         "Parameters": {
            "string" : "string"
         },
         "StorageDescriptor": {
            "AdditionalLocations": [ "string" ],
            "BucketColumns": [ "string" ],
            "Columns": [
               {
                  "Comment": "string",
```

```
            "Name": "string",
            "Parameters": {
               "string" : "string"
            },
            "Type": "string"
         }
      ],
      "Compressed": boolean,
      "InputFormat": "string",
      "Location": "string",
      "NumberOfBuckets": number,
      "OutputFormat": "string",
      "Parameters": {
         "string" : "string"
      },
      "SchemaReference": {
         "SchemaId": {
            "RegistryName": "string",
            "SchemaArn": "string",
            "SchemaName": "string"
         },
         "SchemaVersionId": "string",
         "SchemaVersionNumber": number
      },
      "SerdeInfo": {
         "Name": "string",
         "Parameters": {
            "string" : "string"
         },
         "SerializationLibrary": "string"
      },
      "SkewedInfo": {
         "SkewedColumnNames": [ "string" ],
         "SkewedColumnValueLocationMaps": {
            "string" : "string"
         },
         "SkewedColumnValues": [ "string" ]
      },
      "SortColumns": [
         {
            "Column": "string",
            "SortOrder": number
         }
      ],
```

```
            "StoredAsSubDirectories": boolean
         },
         "TableName": "string",
         "Values": [ "string" ]
      }
   ],
   "UnprocessedKeys": [
      {
         "Values": [ "string" ]
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Partitions

A list of the requested partitions.

Type: Array of Partition objects

UnprocessedKeys

A list of the partition values in the request for which partitions were not returned.

Type: Array of PartitionValueList objects

Array Members: Minimum number of 0 items. Maximum number of 1000 items.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidStateException

An error that indicates your data is in an invalid state.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchGetTableOptimizer

Returns the configuration for the specified table optimizers.

Request Syntax

```
{
   "Entries": [
      {
         "catalogId": "string",
         "databaseName": "string",
         "tableName": "string",
         "type": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Entries

A list of `BatchGetTableOptimizerEntry` objects specifying the table optimizers to retrieve.

Type: Array of BatchGetTableOptimizerEntry objects

Required: Yes

Response Syntax

```
{
   "Failures": [
      {
         "catalogId": "string",
         "databaseName": "string",
         "error": {
            "ErrorCode": "string",
            "ErrorMessage": "string"
         },
```

```
            "tableName": "string",
            "type": "string"
         }
      ],
      "TableOptimizers": [
         {
            "catalogId": "string",
            "databaseName": "string",
            "tableName": "string",
            "tableOptimizer": {
               "configuration": {
                  "compactionConfiguration": {
                     "icebergConfiguration": {
                        "deleteFileThreshold": number,
                        "minInputFiles": number,
                        "strategy": "string"
                     }
                  },
                  "enabled": boolean,
                  "orphanFileDeletionConfiguration": {
                     "icebergConfiguration": {
                        "location": "string",
                        "orphanFileRetentionPeriodInDays": number,
                        "runRateInHours": number
                     }
                  },
                  "retentionConfiguration": {
                     "icebergConfiguration": {
                        "cleanExpiredFiles": boolean,
                        "numberOfSnapshotsToRetain": number,
                        "runRateInHours": number,
                        "snapshotRetentionPeriodInDays": number
                     }
                  },
                  "roleArn": "string",
                  "vpcConfiguration": { ... }
               },
               "configurationSource": "string",
               "lastRun": {
                  "compactionMetrics": {
                     "IcebergMetrics": {
                        "DpuHours": number,
                        "JobDurationInHour": number,
                        "NumberOfBytesCompacted": number,
```

```
                    "NumberOfDpus": number,
                    "NumberOfFilesCompacted": number
                }
            },
            "compactionStrategy": "string",
            "endTimestamp": number,
            "error": "string",
            "eventType": "string",
            "metrics": {
                "JobDurationInHour": "string",
                "NumberOfBytesCompacted": "string",
                "NumberOfDpus": "string",
                "NumberOfFilesCompacted": "string"
            },
            "orphanFileDeletionMetrics": {
                "IcebergMetrics": {
                    "DpuHours": number,
                    "JobDurationInHour": number,
                    "NumberOfDpus": number,
                    "NumberOfOrphanFilesDeleted": number
                }
            },
            "retentionMetrics": {
                "IcebergMetrics": {
                    "DpuHours": number,
                    "JobDurationInHour": number,
                    "NumberOfDataFilesDeleted": number,
                    "NumberOfDpus": number,
                    "NumberOfManifestFilesDeleted": number,
                    "NumberOfManifestListsDeleted": number
                }
            },
            "startTimestamp": number
        },
        "type": "string"
    }
  }
 ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Failures

A list of errors from the operation.

Type: Array of BatchGetTableOptimizerError objects

TableOptimizers

A list of `BatchTableOptimizer` objects.

Type: Array of BatchTableOptimizer objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ThrottlingException

The throttling threshhold was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchGetTriggers

Returns a list of resource metadata for a given list of trigger names. After calling the `ListTriggers` operation, you can call this operation to access the data to which you have been granted permissions. This operation supports all IAM permissions, including permission conditions that uses tags.

Request Syntax

```
{
   "TriggerNames": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

TriggerNames

A list of trigger names, which may be the names returned from the `ListTriggers` operation.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Triggers": [
      {
         "Actions": [
            {
               "Arguments": {
                  "string" : "string"
```

```
            },
            "CrawlerName": "string",
            "JobName": "string",
            "NotificationProperty": {
               "NotifyDelayAfter": number
            },
            "SecurityConfiguration": "string",
            "Timeout": number
         }
      ],
      "Description": "string",
      "EventBatchingCondition": {
         "BatchSize": number,
         "BatchWindow": number
      },
      "Id": "string",
      "Name": "string",
      "Predicate": {
         "Conditions": [
            {
               "CrawlerName": "string",
               "CrawlState": "string",
               "JobName": "string",
               "LogicalOperator": "string",
               "State": "string"
            }
         ],
         "Logical": "string"
      },
      "Schedule": "string",
      "State": "string",
      "Type": "string",
      "WorkflowName": "string"
   }
],
"TriggersNotFound": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Triggers

A list of trigger definitions.

Type: Array of Trigger objects

TriggersNotFound

A list of names of triggers not found.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchGetWorkflows

Returns a list of resource metadata for a given list of workflow names. After calling the `ListWorkflows` operation, you can call this operation to access the data to which you have been granted permissions. This operation supports all IAM permissions, including permission conditions that uses tags.

Request Syntax

```
{
   "IncludeGraph": boolean,
   "Names": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

IncludeGraph

Specifies whether to include a graph when returning the workflow resource metadata.

Type: Boolean

Required: No

Names

A list of workflow names, which may be the names returned from the `ListWorkflows` operation.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "MissingWorkflows": [ "string" ],
   "Workflows": [
      {
         "BlueprintDetails": {
            "BlueprintName": "string",
            "RunId": "string"
         },
         "CreatedOn": number,
         "DefaultRunProperties": {
            "string" : "string"
         },
         "Description": "string",
         "Graph": {
            "Edges": [
               {
                  "DestinationId": "string",
                  "SourceId": "string"
               }
            ],
            "Nodes": [
               {
                  "CrawlerDetails": {
                     "Crawls": [
                        {
                           "CompletedOn": number,
                           "ErrorMessage": "string",
                           "LogGroup": "string",
                           "LogStream": "string",
                           "StartedOn": number,
                           "State": "string"
                        }
                     ]
                  },
                  "JobDetails": {
                     "JobRuns": [
                        {
                           "AllocatedCapacity": number,
                           "Arguments": {
                              "string" : "string"
                           },
```

```
                        "Attempt": number,
                        "CompletedOn": number,
                        "DPUSeconds": number,
                        "ErrorMessage": "string",
                        "ExecutionClass": "string",
                        "ExecutionRoleSessionPolicy": "string",
                        "ExecutionTime": number,
                        "GlueVersion": "string",
                        "Id": "string",
                        "JobMode": "string",
                        "JobName": "string",
                        "JobRunQueuingEnabled": boolean,
                        "JobRunState": "string",
                        "LastModifiedOn": number,
                        "LogGroupName": "string",
                        "MaintenanceWindow": "string",
                        "MaxCapacity": number,
                        "NotificationProperty": {
                           "NotifyDelayAfter": number
                        },
                        "NumberOfWorkers": number,
                        "PredecessorRuns": [
                           {
                              "JobName": "string",
                              "RunId": "string"
                           }
                        ],
                        "PreviousRunId": "string",
                        "ProfileName": "string",
                        "SecurityConfiguration": "string",
                        "StartedOn": number,
                        "StateDetail": "string",
                        "Timeout": number,
                        "TriggerName": "string",
                        "WorkerType": "string"
                     }
                  ]
               },
               "Name": "string",
               "TriggerDetails": {
                  "Trigger": {
                     "Actions": [
                        {
                           "Arguments": {
```

```
                        "string" : "string"
                     },
                     "CrawlerName": "string",
                     "JobName": "string",
                     "NotificationProperty": {
                        "NotifyDelayAfter": number
                     },
                     "SecurityConfiguration": "string",
                     "Timeout": number
                  }
               ],
               "Description": "string",
               "EventBatchingCondition": {
                  "BatchSize": number,
                  "BatchWindow": number
               },
               "Id": "string",
               "Name": "string",
               "Predicate": {
                  "Conditions": [
                     {
                        "CrawlerName": "string",
                        "CrawlState": "string",
                        "JobName": "string",
                        "LogicalOperator": "string",
                        "State": "string"
                     }
                  ],
                  "Logical": "string"
               },
               "Schedule": "string",
               "State": "string",
               "Type": "string",
               "WorkflowName": "string"
            }
         },
         "Type": "string",
         "UniqueId": "string"
      }
   ]
},
"LastModifiedOn": number,
"LastRun": {
   "CompletedOn": number,
```

```
            "ErrorMessage": "string",
            "Graph": {
               "Edges": [
                  {
                     "DestinationId": "string",
                     "SourceId": "string"
                  }
               ],
               "Nodes": [
                  {
                     "CrawlerDetails": {
                        "Crawls": [
                           {
                              "CompletedOn": number,
                              "ErrorMessage": "string",
                              "LogGroup": "string",
                              "LogStream": "string",
                              "StartedOn": number,
                              "State": "string"
                           }
                        ]
                     },
                     "JobDetails": {
                        "JobRuns": [
                           {
                              "AllocatedCapacity": number,
                              "Arguments": {
                                 "string" : "string"
                              },
                              "Attempt": number,
                              "CompletedOn": number,
                              "DPUSeconds": number,
                              "ErrorMessage": "string",
                              "ExecutionClass": "string",
                              "ExecutionRoleSessionPolicy": "string",
                              "ExecutionTime": number,
                              "GlueVersion": "string",
                              "Id": "string",
                              "JobMode": "string",
                              "JobName": "string",
                              "JobRunQueuingEnabled": boolean,
                              "JobRunState": "string",
                              "LastModifiedOn": number,
                              "LogGroupName": "string",
```

```
                  "MaintenanceWindow": "string",
                  "MaxCapacity": number,
                  "NotificationProperty": {
                     "NotifyDelayAfter": number
                  },
                  "NumberOfWorkers": number,
                  "PredecessorRuns": [
                     {
                        "JobName": "string",
                        "RunId": "string"
                     }
                  ],
                  "PreviousRunId": "string",
                  "ProfileName": "string",
                  "SecurityConfiguration": "string",
                  "StartedOn": number,
                  "StateDetail": "string",
                  "Timeout": number,
                  "TriggerName": "string",
                  "WorkerType": "string"
               }
            ]
         },
         "Name": "string",
         "TriggerDetails": {
            "Trigger": {
               "Actions": [
                  {
                     "Arguments": {
                        "string" : "string"
                     },
                     "CrawlerName": "string",
                     "JobName": "string",
                     "NotificationProperty": {
                        "NotifyDelayAfter": number
                     },
                     "SecurityConfiguration": "string",
                     "Timeout": number
                  }
               ],
               "Description": "string",
               "EventBatchingCondition": {
                  "BatchSize": number,
                  "BatchWindow": number
```

```
                        },
                        "Id": "string",
                        "Name": "string",
                        "Predicate": {
                           "Conditions": [
                              {
                                 "CrawlerName": "string",
                                 "CrawlState": "string",
                                 "JobName": "string",
                                 "LogicalOperator": "string",
                                 "State": "string"
                              }
                           ],
                           "Logical": "string"
                        },
                        "Schedule": "string",
                        "State": "string",
                        "Type": "string",
                        "WorkflowName": "string"
                     }
                  },
                  "Type": "string",
                  "UniqueId": "string"
               }
            ]
         },
         "Name": "string",
         "PreviousRunId": "string",
         "StartedOn": number,
         "StartingEventBatchCondition": {
            "BatchSize": number,
            "BatchWindow": number
         },
         "Statistics": {
            "ErroredActions": number,
            "FailedActions": number,
            "RunningActions": number,
            "StoppedActions": number,
            "SucceededActions": number,
            "TimeoutActions": number,
            "TotalActions": number,
            "WaitingActions": number
         },
         "Status": "string",
```

```
            "WorkflowRunId": "string",
            "WorkflowRunProperties": {
               "string" : "string"
            }
         },
         "MaxConcurrentRuns": number,
         "Name": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

MissingWorkflows

A list of names of workflows not found.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Workflows

A list of workflow resource metadata.

Type: Array of Workflow objects

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchPutDataQualityStatisticAnnotation

Annotate datapoints over time for a specific data quality statistic. The API requires both profileID and statisticID as part of the InclusionAnnotation input. The API only works for a single statisticId across multiple profiles.

Request Syntax

```
{
   "ClientToken": "string",
   "InclusionAnnotations": [
      {
         "InclusionAnnotation": "string",
         "ProfileId": "string",
         "StatisticId": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ClientToken

Client Token.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

InclusionAnnotations

A list of `DatapointInclusionAnnotation`'s. The InclusionAnnotations must contain a profileId and statisticId. If there are multiple InclusionAnnotations, the list must refer to a single statisticId across multiple profileIds.

Type: Array of DatapointInclusionAnnotation objects

Required: Yes

Response Syntax

```
{
   "FailedInclusionAnnotations": [
      {
         "FailureReason": "string",
         "ProfileId": "string",
         "StatisticId": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

FailedInclusionAnnotations

A list of `AnnotationError`'s.

Type: Array of AnnotationError objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchStopJobRun

Stops one or more job runs for a specified job definition.

Request Syntax

```
{
   "JobName": "string",
   "JobRunIds": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

JobName

The name of the job definition for which to stop job runs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

JobRunIds

A list of the `JobRunIds` that should be stopped for that job definition.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Errors": [
      {
         "ErrorDetail": {
            "ErrorCode": "string",
            "ErrorMessage": "string"
         },
         "JobName": "string",
         "JobRunId": "string"
      }
   ],
   "SuccessfulSubmissions": [
      {
         "JobName": "string",
         "JobRunId": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Errors

A list of the errors that were encountered in trying to stop `JobRuns`, including the `JobRunId` for which each error was encountered and details about the error.

Type: Array of BatchStopJobRunError objects

SuccessfulSubmissions

A list of the JobRuns that were successfully submitted for stopping.

Type: Array of BatchStopJobRunSuccessfulSubmission objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchUpdatePartition

Updates one or more partitions in a batch operation.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "Entries": [
      {
         "PartitionInput": {
            "LastAccessTime": number,
            "LastAnalyzedTime": number,
            "Parameters": {
               "string" : "string"
            },
            "StorageDescriptor": {
               "AdditionalLocations": [ "string" ],
               "BucketColumns": [ "string" ],
               "Columns": [
                  {
                     "Comment": "string",
                     "Name": "string",
                     "Parameters": {
                        "string" : "string"
                     },
                     "Type": "string"
                  }
               ],
               "Compressed": boolean,
               "InputFormat": "string",
               "Location": "string",
               "NumberOfBuckets": number,
               "OutputFormat": "string",
               "Parameters": {
                  "string" : "string"
               },
               "SchemaReference": {
                  "SchemaId": {
                     "RegistryName": "string",
                     "SchemaArn": "string",
                     "SchemaName": "string"
```

```
                    },
                    "SchemaVersionId": "string",
                    "SchemaVersionNumber": number
                },
                "SerdeInfo": {
                    "Name": "string",
                    "Parameters": {
                        "string" : "string"
                    },
                    "SerializationLibrary": "string"
                },
                "SkewedInfo": {
                    "SkewedColumnNames": [ "string" ],
                    "SkewedColumnValueLocationMaps": {
                        "string" : "string"
                    },
                    "SkewedColumnValues": [ "string" ]
                },
                "SortColumns": [
                    {
                        "Column": "string",
                        "SortOrder": number
                    }
                ],
                "StoredAsSubDirectories": boolean
            },
            "Values": [ "string" ]
        },
        "PartitionValueList": [ "string" ]
    }
  ],
  "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the catalog in which the partition is to be updated. Currently, this should be the AWS account ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the metadata database in which the partition is to be updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Entries

A list of up to 100 `BatchUpdatePartitionRequestEntry` objects to update.

Type: Array of BatchUpdatePartitionRequestEntry objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: Yes

TableName

The name of the metadata table in which the partition is to be updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Errors": [
      {
         "ErrorDetail": {
            "ErrorCode": "string",
            "ErrorMessage": "string"
         },
         "PartitionValueList": [ "string" ]
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Errors

The errors encountered when trying to update the requested partitions. A list of `BatchUpdatePartitionFailureEntry` objects.

Type: Array of BatchUpdatePartitionFailureEntry objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CancelDataQualityRuleRecommendationRun

Cancels the specified recommendation run that was being used to generate rules.

Request Syntax

```
{
   "RunId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

RunId

The unique run identifier associated with this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CancelDataQualityRulesetEvaluationRun

Cancels a run where a ruleset is being evaluated against a data source.

Request Syntax

```
{
   "RunId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

RunId

The unique run identifier associated with this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CancelMLTaskRun

Cancels (stops) a task run. Machine learning task runs are asynchronous tasks that AWS Glue runs on your behalf as part of various machine learning workflows. You can cancel a machine learning task run at any time by calling `CancelMLTaskRun` with a task run's parent transform's `TransformID` and the task run's `TaskRunId`.

Request Syntax

```
{
   "TaskRunId": "string",
   "TransformId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

TaskRunId

A unique identifier for the task run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TransformId

The unique identifier of the machine learning transform.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Status": "string",
   "TaskRunId": "string",
   "TransformId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Status

The status for this run.

Type: String

Valid Values: `STARTING | RUNNING | STOPPING | STOPPED | SUCCEEDED | FAILED | TIMEOUT`

TaskRunId

The unique identifier for the task run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

TransformId

The unique identifier of the machine learning transform.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CancelStatement

Cancels the statement.

Request Syntax

```
{
   "Id": number,
   "RequestOrigin": "string",
   "SessionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Id

The ID of the statement to be cancelled.

Type: Integer

Required: Yes

RequestOrigin

The origin of the request to cancel the statement.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: No

SessionId

The Session ID of the statement to be cancelled.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

IllegalSessionStateException

The session is in an invalid state to perform a requested operation.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CheckSchemaVersionValidity

Validates the supplied schema. This call has no side effects, it simply validates using the supplied schema using `DataFormat` as the format. Since it does not take a schema set name, no compatibility checks are performed.

Request Syntax

```
{
   "DataFormat": "string",
   "SchemaDefinition": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

DataFormat

The data format of the schema definition. Currently `AVRO`, `JSON` and `PROTOBUF` are supported.

Type: String

Valid Values: `AVRO | JSON | PROTOBUF`

Required: Yes

SchemaDefinition

The definition of the schema that has to be validated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 170000.

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
{
   "Error": "string",
   "Valid": boolean
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Error

A validation failure error message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 5000.

Valid

Return true, if the schema is valid and false otherwise.

Type: Boolean

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateBlueprint

Registers a blueprint with AWS Glue.

Request Syntax

```
{
   "BlueprintLocation": "string",
   "Description": "string",
   "Name": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

BlueprintLocation

Specifies a path in Amazon S3 where the blueprint is published.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8192.

Pattern: `^s3://([^/]+)/([^/]+/)*([^/]+)$`

Required: Yes

Description

A description of the blueprint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

Name

The name of the blueprint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: Yes

Tags

The tags to be applied to this blueprint.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
   "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Name

Returns the name of the blueprint that was registered.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateCatalog

Creates a new catalog in the AWS Glue Data Catalog.

Request Syntax

```
{
   "CatalogInput": {
      "AllowFullTableExternalDataAccess": "string",
      "CatalogProperties": {
         "CustomProperties": {
            "string" : "string"
         },
         "DataLakeAccessProperties": {
            "CatalogType": "string",
            "DataLakeAccess": boolean,
            "DataTransferRole": "string",
            "KmsKey": "string"
         },
         "IcebergOptimizationProperties": {
            "Compaction": {
               "string" : "string"
            },
            "OrphanFileDeletion": {
               "string" : "string"
            },
            "Retention": {
               "string" : "string"
            },
            "RoleArn": "string"
         }
      },
      "CreateDatabaseDefaultPermissions": [
         {
            "Permissions": [ "string" ],
            "Principal": {
               "DataLakePrincipalIdentifier": "string"
            }
         }
      ],
      "CreateTableDefaultPermissions": [
         {
            "Permissions": [ "string" ],
```

```
            "Principal": {
               "DataLakePrincipalIdentifier": "string"
            }
         }
      ],
      "Description": "string",
      "FederatedCatalog": {
         "ConnectionName": "string",
         "ConnectionType": "string",
         "Identifier": "string"
      },
      "Parameters": {
         "string" : "string"
      },
      "TargetRedshiftCatalog": {
         "CatalogArn": "string"
      }
   },
   "Name": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogInput

A `CatalogInput` object that defines the metadata for the catalog.

Type: CatalogInput object

Required: Yes

Name

The name of the catalog to create.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `^(?!(.*[.\/\\]|aws:)).*$`

Required: Yes

Tags

A map array of key-value pairs, not more than 50 pairs. Each key is a UTF-8 string, not less than 1 or more than 128 bytes long. Each value is a UTF-8 string, not more than 256 bytes long. The tags you assign to the catalog.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederatedResourceAlreadyExistsException

A federated resource already exists.

AssociatedGlueResource

The associated Glue resource already exists.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateClassifier

Creates a classifier in the user's account. This can be a `GrokClassifier`, an `XMLClassifier`, a `JsonClassifier`, or a `CsvClassifier`, depending on which field of the request is present.

Request Syntax

```
{
   "CsvClassifier": {
      "AllowSingleColumn": boolean,
      "ContainsHeader": "string",
      "CustomDatatypeConfigured": boolean,
      "CustomDatatypes": [ "string" ],
      "Delimiter": "string",
      "DisableValueTrimming": boolean,
      "Header": [ "string" ],
      "Name": "string",
      "QuoteSymbol": "string",
      "Serde": "string"
   },
   "GrokClassifier": {
      "Classification": "string",
      "CustomPatterns": "string",
      "GrokPattern": "string",
      "Name": "string"
   },
   "JsonClassifier": {
      "JsonPath": "string",
      "Name": "string"
   },
   "XMLClassifier": {
      "Classification": "string",
      "Name": "string",
      "RowTag": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CsvClassifier

A `CsvClassifier` object specifying the classifier to create.

Type: CreateCsvClassifierRequest object

Required: No

GrokClassifier

A `GrokClassifier` object specifying the classifier to create.

Type: CreateGrokClassifierRequest object

Required: No

JsonClassifier

A `JsonClassifier` object specifying the classifier to create.

Type: CreateJsonClassifierRequest object

Required: No

XMLClassifier

An `XMLClassifier` object specifying the classifier to create.

Type: CreateXMLClassifierRequest object

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateColumnStatisticsTaskSettings

Creates settings for a column statistics task.

Request Syntax

```
{
   "CatalogID": "string",
   "ColumnNameList": [ "string" ],
   "DatabaseName": "string",
   "Role": "string",
   "SampleSize": number,
   "Schedule": "string",
   "SecurityConfiguration": "string",
   "TableName": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogID

The ID of the Data Catalog in which the database resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ColumnNameList

A list of column names for which to run statistics.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the database where the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Role

The role used for running the column statistics.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

SampleSize

The percentage of data to sample.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

Schedule

A schedule for running the column statistics, specified in CRON syntax.

Type: String

Required: No

SecurityConfiguration

Name of the security configuration that is used to encrypt CloudWatch logs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

TableName

The name of the table for which to generate column statistics.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Tags

A map of tags.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

ColumnStatisticsTaskRunningException

An exception thrown when you try to start another job while running a column stats generation job.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateConnection

Creates a connection definition in the Data Catalog.

Connections used for creating federated resources require the IAM `glue:PassConnection` permission.

Request Syntax

```
{
   "CatalogId": "string",
   "ConnectionInput": {
      "AthenaProperties": {
         "string" : "string"
      },
      "AuthenticationConfiguration": {
         "AuthenticationType": "string",
         "BasicAuthenticationCredentials": {
            "Password": "string",
            "Username": "string"
         },
         "CustomAuthenticationCredentials": {
            "string" : "string"
         },
         "KmsKeyArn": "string",
         "OAuth2Properties": {
            "AuthorizationCodeProperties": {
               "AuthorizationCode": "string",
               "RedirectUri": "string"
            },
            "OAuth2ClientApplication": {
               "AWSManagedClientApplicationReference": "string",
               "UserManagedClientApplicationClientId": "string"
            },
            "OAuth2Credentials": {
               "AccessToken": "string",
               "JwtToken": "string",
               "RefreshToken": "string",
               "UserManagedClientApplicationClientSecret": "string"
            },
            "OAuth2GrantType": "string",
            "TokenUrl": "string",
            "TokenUrlParametersMap": {
```

```
                "string" : "string"
            }
         },
         "SecretArn": "string"
      },
      "ConnectionProperties": {
         "string" : "string"
      },
      "ConnectionType": "string",
      "Description": "string",
      "MatchCriteria": [ "string" ],
      "Name": "string",
      "PhysicalConnectionRequirements": {
         "AvailabilityZone": "string",
         "SecurityGroupIdList": [ "string" ],
         "SubnetId": "string"
      },
      "PythonProperties": {
         "string" : "string"
      },
      "SparkProperties": {
         "string" : "string"
      },
      "ValidateCredentials": boolean,
      "ValidateForComputeEnvironments": [ "string" ]
   },
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog in which to create the connection. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ConnectionInput

A `ConnectionInput` object defining the connection to create.

Type: ConnectionInput object

Required: Yes

Tags

The tags you assign to the connection.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
   "CreateConnectionStatus": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CreateConnectionStatus

The status of the connection creation request. The request can take some time for certain authentication types, for example when creating an OAuth connection with token exchange over VPC.

Type: String

Valid Values: `READY | IN_PROGRESS | FAILED`

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateCrawler

Creates a new crawler with specified targets, role, configuration, and optional schedule. At least one crawl target must be specified, in the `s3Targets` field, the `jdbcTargets` field, or the `DynamoDBTargets` field.

Request Syntax

```
{
   "Classifiers": [ "string" ],
   "Configuration": "string",
   "CrawlerSecurityConfiguration": "string",
   "DatabaseName": "string",
   "Description": "string",
   "LakeFormationConfiguration": {
      "AccountId": "string",
      "UseLakeFormationCredentials": boolean
   },
   "LineageConfiguration": {
      "CrawlerLineageSettings": "string"
   },
   "Name": "string",
   "RecrawlPolicy": {
      "RecrawlBehavior": "string"
   },
   "Role": "string",
   "Schedule": "string",
   "SchemaChangePolicy": {
      "DeleteBehavior": "string",
      "UpdateBehavior": "string"
   },
   "TablePrefix": "string",
   "Tags": {
      "string" : "string"
   },
   "Targets": {
      "CatalogTargets": [
         {
            "ConnectionName": "string",
            "DatabaseName": "string",
            "DlqEventQueueArn": "string",
            "EventQueueArn": "string",
```

```
            "Tables": [ "string" ]
         }
      ],
      "DeltaTargets": [
         {
            "ConnectionName": "string",
            "CreateNativeDeltaTable": boolean,
            "DeltaTables": [ "string" ],
            "WriteManifest": boolean
         }
      ],
      "DynamoDBTargets": [
         {
            "Path": "string",
            "scanAll": boolean,
            "scanRate": number
         }
      ],
      "HudiTargets": [
         {
            "ConnectionName": "string",
            "Exclusions": [ "string" ],
            "MaximumTraversalDepth": number,
            "Paths": [ "string" ]
         }
      ],
      "IcebergTargets": [
         {
            "ConnectionName": "string",
            "Exclusions": [ "string" ],
            "MaximumTraversalDepth": number,
            "Paths": [ "string" ]
         }
      ],
      "JdbcTargets": [
         {
            "ConnectionName": "string",
            "EnableAdditionalMetadata": [ "string" ],
            "Exclusions": [ "string" ],
            "Path": "string"
         }
      ],
      "MongoDBTargets": [
         {
```

```
            "ConnectionName": "string",
            "Path": "string",
            "ScanAll": boolean
         }
      ],
      "S3Targets": [
         {
            "ConnectionName": "string",
            "DlqEventQueueArn": "string",
            "EventQueueArn": "string",
            "Exclusions": [ "string" ],
            "Path": "string",
            "SampleSize": number
         }
      ]
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Classifiers

A list of custom classifiers that the user has registered. By default, all built-in classifiers are included in a crawl, but these custom classifiers always override the default classifiers for a given classification.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Configuration

Crawler configuration information. This versioned JSON string allows users to specify aspects of a crawler's behavior. For more information, see Setting crawler configuration options.

Type: String

Required: No

CrawlerSecurityConfiguration

The name of the `SecurityConfiguration` structure to be used by this crawler.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: No

DatabaseName

The AWS Glue database where results are written, such as: `arn:aws:daylight:us-east-1::database/sometable/*`.

Type: String

Required: No

Description

A description of the new crawler.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

LakeFormationConfiguration

Specifies AWS Lake Formation configuration settings for the crawler.

Type: LakeFormationConfiguration object

Required: No

LineageConfiguration

Specifies data lineage configuration settings for the crawler.

Type: LineageConfiguration object

Required: No

Name

Name of the new crawler.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

RecrawlPolicy

A policy that specifies whether to crawl the entire dataset again, or to crawl only folders that were added since the last crawler run.

Type: RecrawlPolicy object

Required: No

Role

The IAM role or Amazon Resource Name (ARN) of an IAM role used by the new crawler to access customer resources.

Type: String

Required: Yes

Schedule

A `cron` expression used to specify the schedule (see Time-Based Schedules for Jobs and Crawlers. For example, to run something every day at 12:15 UTC, you would specify: `cron(15 12 * * ? *)`.

Type: String

Required: No

SchemaChangePolicy

The policy for the crawler's update and deletion behavior.

Type: SchemaChangePolicy object

Required: No

TablePrefix

The table prefix used for catalog tables that are created.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: No

Tags

The tags to use with this crawler request. You may use tags to limit access to the crawler. For more information about tags in AWS Glue, see AWS Tags in AWS Glue in the developer guide.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Targets

A list of collection of targets to crawl.

Type: CrawlerTargets object

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateCustomEntityType

Creates a custom pattern that is used to detect sensitive data across the columns and rows of your structured data.

Each custom pattern you create specifies a regular expression and an optional list of context words. If no context words are passed only a regular expression is checked.

Request Syntax

```
{
   "ContextWords": [ "string" ],
   "Name": "string",
   "RegexString": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ContextWords

A list of context words. If none of these context words are found within the vicinity of the regular expression the data will not be detected as sensitive data.

If no context words are passed only a regular expression is checked.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Name

A name for the custom pattern that allows it to be retrieved or deleted later. This name must be unique per AWS account.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

RegexString

A regular expression string that is used for detecting sensitive data in a custom pattern.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Tags

A list of tags applied to the custom entity type.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
   "Name": "string"
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Name

The name of the custom pattern you created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

IdempotentParameterMismatchException

The same unique identifier was associated with two different records.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateDatabase

Creates a new database in a Data Catalog.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseInput": {
      "CreateTableDefaultPermissions": [
         {
            "Permissions": [ "string" ],
            "Principal": {
               "DataLakePrincipalIdentifier": "string"
            }
         }
      ],
      "Description": "string",
      "FederatedDatabase": {
         "ConnectionName": "string",
         "ConnectionType": "string",
         "Identifier": "string"
      },
      "LocationUri": "string",
      "Name": "string",
      "Parameters": {
         "string" : "string"
      },
      "TargetDatabase": {
         "CatalogId": "string",
         "DatabaseName": "string",
         "Region": "string"
      }
   },
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog in which to create the database. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseInput

The metadata for the database.

Type: DatabaseInput object

Required: Yes

Tags

The tags you assign to the database.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

FederatedResourceAlreadyExistsException

A federated resource already exists.

AssociatedGlueResource

The associated Glue resource already exists.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateDataQualityRuleset

Creates a data quality ruleset with DQDL rules applied to a specified AWS Glue table.

You create the ruleset using the Data Quality Definition Language (DQDL). For more information, see the AWS Glue developer guide.

Request Syntax

```
{
   "ClientToken": "string",
   "DataQualitySecurityConfiguration": "string",
   "Description": "string",
   "Name": "string",
   "Ruleset": "string",
   "Tags": {
      "string" : "string"
   },
   "TargetTable": {
      "CatalogId": "string",
      "DatabaseName": "string",
      "TableName": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ClientToken

Used for idempotency and is recommended to be set to a random ID (such as a UUID) to avoid creating or starting multiple instances of the same resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DataQualitySecurityConfiguration

The name of the security configuration created with the data quality encryption option.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Description

A description of the data quality ruleset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

Name

A unique name for the data quality ruleset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Ruleset

A Data Quality Definition Language (DQDL) ruleset. For more information, see the AWS Glue developer guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Required: Yes

Tags

A list of tags applied to the data quality ruleset.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

TargetTable

A target table associated with the data quality ruleset.

Type: DataQualityTargetTable object

Required: No

Response Syntax

```
{
   "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Name

A unique name for the data quality ruleset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateDevEndpoint

Creates a new development endpoint.

Request Syntax

```
{
   "Arguments": {
      "string" : "string"
   },
   "EndpointName": "string",
   "ExtraJarsS3Path": "string",
   "ExtraPythonLibsS3Path": "string",
   "GlueVersion": "string",
   "NumberOfNodes": number,
   "NumberOfWorkers": number,
   "PublicKey": "string",
   "PublicKeys": [ "string" ],
   "RoleArn": "string",
   "SecurityConfiguration": "string",
   "SecurityGroupIds": [ "string" ],
   "SubnetId": "string",
   "Tags": {
      "string" : "string"
   },
   "WorkerType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Arguments

A map of arguments used to configure the `DevEndpoint`.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 100 items.

Required: No

EndpointName

The name to be assigned to the new `DevEndpoint`.

Type: String

Required: Yes

ExtraJarsS3Path

The path to one or more Java `.jar` files in an S3 bucket that should be loaded in your `DevEndpoint`.

Type: String

Required: No

ExtraPythonLibsS3Path

The paths to one or more Python libraries in an Amazon S3 bucket that should be loaded in your `DevEndpoint`. Multiple values must be complete paths separated by a comma.

> **Note**
>
> You can only use pure Python libraries with a `DevEndpoint`. Libraries that rely on C extensions, such as the pandas Python data analysis library, are not yet supported.

Type: String

Required: No

GlueVersion

Glue version determines the versions of Apache Spark and Python that AWS Glue supports. The Python version indicates the version supported for running your ETL scripts on development endpoints.

For more information about the available AWS Glue versions and corresponding Spark and Python versions, see Glue version in the developer guide.

Development endpoints that are created without specifying a Glue version default to Glue 0.9.

You can specify a version of Python support for development endpoints by using the `Arguments` parameter in the `CreateDevEndpoint` or `UpdateDevEndpoint` APIs. If no arguments are provided, the version defaults to Python 2.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `^(\w+\.)+\w+$`

Required: No

NumberOfNodes

The number of AWS Glue Data Processing Units (DPUs) to allocate to this `DevEndpoint`.

Type: Integer

Required: No

NumberOfWorkers

The number of workers of a defined `workerType` that are allocated to the development endpoint.

The maximum number of workers you can define are 299 for `G.1X`, and 149 for `G.2X`.

Type: Integer

Required: No

PublicKey

The public key to be used by this `DevEndpoint` for authentication. This attribute is provided for backward compatibility because the recommended attribute to use is public keys.

Type: String

Required: No

PublicKeys

A list of public keys to be used by the development endpoints for authentication. The use of this attribute is preferred over a single public key because the public keys allow you to have a different private key per client.

> **Note**
>
> If you previously created an endpoint with a public key, you must remove that key to be able to set a list of public keys. Call the `UpdateDevEndpoint` API with the public key content in the `deletePublicKeys` attribute, and the list of new keys in the `addPublicKeys` attribute.

Type: Array of strings

Array Members: Maximum number of 5 items.

Required: No

RoleArn

The IAM role for the `DevEndpoint`.

Type: String

Pattern: `arn:aws:iam::\d{12}:role/.*`

Required: Yes

SecurityConfiguration

The name of the `SecurityConfiguration` structure to be used with this `DevEndpoint`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

SecurityGroupIds

Security group IDs for the security groups to be used by the new `DevEndpoint`.

Type: Array of strings

Required: No

SubnetId

The subnet ID for the new `DevEndpoint` to use.

Type: String

Required: No

Tags

The tags to use with this DevEndpoint. You may use tags to limit access to the DevEndpoint. For more information about tags in AWS Glue, see AWS Tags in AWS Glue in the developer guide.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

WorkerType

The type of predefined worker that is allocated to the development endpoint. Accepts a value of Standard, G.1X, or G.2X.

- For the `Standard` worker type, each worker provides 4 vCPU, 16 GB of memory and a 50GB disk, and 2 executors per worker.
- For the `G.1X` worker type, each worker maps to 1 DPU (4 vCPU, 16 GB of memory, 64 GB disk), and provides 1 executor per worker. We recommend this worker type for memory-intensive jobs.
- For the `G.2X` worker type, each worker maps to 2 DPU (8 vCPU, 32 GB of memory, 128 GB disk), and provides 1 executor per worker. We recommend this worker type for memory-intensive jobs.

Known issue: when a development endpoint is created with the `G.2X` `WorkerType` configuration, the Spark drivers for the development endpoint will run on 4 vCPU, 16 GB of memory, and a 64 GB disk.

Type: String

Valid Values: `Standard | G.1X | G.2X | G.025X | G.4X | G.8X | Z.2X`

Required: No

Response Syntax

```
{
   "Arguments": {
      "string" : "string"
   },
   "AvailabilityZone": "string",
   "CreatedTimestamp": number,
   "EndpointName": "string",
   "ExtraJarsS3Path": "string",
   "ExtraPythonLibsS3Path": "string",
   "FailureReason": "string",
   "GlueVersion": "string",
   "NumberOfNodes": number,
   "NumberOfWorkers": number,
   "RoleArn": "string",
   "SecurityConfiguration": "string",
   "SecurityGroupIds": [ "string" ],
   "Status": "string",
   "SubnetId": "string",
   "VpcId": "string",
   "WorkerType": "string",
   "YarnEndpointAddress": "string",
   "ZeppelinRemoteSparkInterpreterPort": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Arguments

The map of arguments used to configure this `DevEndpoint`.

Valid arguments are:

- `"--enable-glue-datacatalog": ""`

  You can specify a version of Python support for development endpoints by using the `Arguments` parameter in the `CreateDevEndpoint` or `UpdateDevEndpoint` APIs. If no arguments are provided, the version defaults to Python 2.

  Type: String to string map

  Map Entries: Minimum number of 0 items. Maximum number of 100 items.

AvailabilityZone

The AWS Availability Zone where this `DevEndpoint` is located.

Type: String

CreatedTimestamp

The point in time at which this `DevEndpoint` was created.

Type: Timestamp

EndpointName

The name assigned to the new `DevEndpoint`.

Type: String

ExtraJarsS3Path

Path to one or more Java `.jar` files in an S3 bucket that will be loaded in your `DevEndpoint`.

Type: String

ExtraPythonLibsS3Path

The paths to one or more Python libraries in an S3 bucket that will be loaded in your `DevEndpoint`.

Type: String

FailureReason

The reason for a current failure in this `DevEndpoint`.

Type: String

GlueVersion

Glue version determines the versions of Apache Spark and Python that AWS Glue supports. The Python version indicates the version supported for running your ETL scripts on development endpoints.

For more information about the available AWS Glue versions and corresponding Spark and Python versions, see Glue version in the developer guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `^(\w+\.)+\w+$`

NumberOfNodes

The number of AWS Glue Data Processing Units (DPUs) allocated to this DevEndpoint.

Type: Integer

NumberOfWorkers

The number of workers of a defined `workerType` that are allocated to the development endpoint.

Type: Integer

RoleArn

The Amazon Resource Name (ARN) of the role assigned to the new `DevEndpoint`.

Type: String

Pattern: `arn:aws:iam::\d{12}:role/.*`

SecurityConfiguration

The name of the `SecurityConfiguration` structure being used with this `DevEndpoint`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

SecurityGroupIds

The security groups assigned to the new `DevEndpoint`.

Type: Array of strings

Status

The current status of the new `DevEndpoint`.

Type: String

SubnetId

The subnet ID assigned to the new `DevEndpoint`.

Type: String

VpcId

The ID of the virtual private cloud (VPC) used by this `DevEndpoint`.

Type: String

WorkerType

The type of predefined worker that is allocated to the development endpoint. May be a value of Standard, G.1X, or G.2X.

Type: String

Valid Values: `Standard | G.1X | G.2X | G.025X | G.4X | G.8X | Z.2X`

YarnEndpointAddress

The address of the YARN endpoint used by this `DevEndpoint`.

Type: String

ZeppelinRemoteSparkInterpreterPort

The Apache Zeppelin port for the remote Apache Spark interpreter.

Type: Integer

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

IdempotentParameterMismatchException

The same unique identifier was associated with two different records.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateGlueIdentityCenterConfiguration

Creates a new AWS Glue Identity Center configuration to enable integration between AWS Glue and AWS IAM Identity Center for authentication and authorization.

Request Syntax

```
{
   "InstanceArn": "string",
   "Scopes": [ "string" ],
   "UserBackgroundSessionsEnabled": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

InstanceArn

The Amazon Resource Name (ARN) of the Identity Center instance to be associated with the AWS Glue configuration.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 1224.

Required: Yes

Scopes

A list of Identity Center scopes that define the permissions and access levels for the AWS Glue configuration.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Length Constraints: Maximum length of 50.

Required: No

UserBackgroundSessionsEnabled

Specifies whether users can run background sessions when using Identity Center authentication with AWS Glue services.

Type: Boolean

Required: No

Response Syntax

```
{
   "ApplicationArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ApplicationArn

The Amazon Resource Name (ARN) of the Identity Center application that was created for the AWS Glue configuration.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 1224.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateIntegration

Creates a Zero-ETL integration in the caller's account between two resources with Amazon Resource Names (ARNs): the `SourceArn` and `TargetArn`.

Request Syntax

```
{
   "AdditionalEncryptionContext": {
      "string" : "string"
   },
   "DataFilter": "string",
   "Description": "string",
   "IntegrationConfig": {
      "ContinuousSync": boolean,
      "RefreshInterval": "string",
      "SourceProperties": {
         "string" : "string"
      }
   },
   "IntegrationName": "string",
   "KmsKeyId": "string",
   "SourceArn": "string",
   "Tags": [
      {
         "key": "string",
         "value": "string"
      }
   ],
   "TargetArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

AdditionalEncryptionContext

An optional set of non-secret key–value pairs that contains additional contextual information for encryption. This can only be provided if `KMSKeyId` is provided.

Type: String to string map

Required: No

DataFilter

Selects source tables for the integration using Maxwell filter syntax.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

Description

A description of the integration.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\S\s]*`

Required: No

IntegrationConfig

The configuration settings.

Type: IntegrationConfig object

Required: No

IntegrationName

A unique name for an integration in AWS Glue.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

KmsKeyId

The ARN of a KMS key used for encrypting the channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

SourceArn

The ARN of the source resource for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

Tags

Metadata assigned to the resource consisting of a list of key-value pairs.

Type: Array of Tag objects

Required: No

TargetArn

The ARN of the target resource for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

Response Syntax

```
{
   "AdditionalEncryptionContext": {
      "string" : "string"
   },
   "CreateTime": number,
   "DataFilter": "string",
   "Description": "string",
   "Errors": [
```

```
      {
         "ErrorCode": "string",
         "ErrorMessage": "string"
      }
   ],
   "IntegrationArn": "string",
   "IntegrationConfig": {
      "ContinuousSync": boolean,
      "RefreshInterval": "string",
      "SourceProperties": {
         "string" : "string"
      }
   },
   "IntegrationName": "string",
   "KmsKeyId": "string",
   "SourceArn": "string",
   "Status": "string",
   "Tags": [
      {
         "key": "string",
         "value": "string"
      }
   ],
   "TargetArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AdditionalEncryptionContext

An optional set of non-secret key–value pairs that contains additional contextual information for encryption.

Type: String to string map

CreateTime

The time when the integration was created, in UTC.

Type: Timestamp

DataFilter

Selects source tables for the integration using Maxwell filter syntax.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Description

A description of the integration.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\S\s]*`

Errors

A list of errors associated with the integration creation.

Type: Array of IntegrationError objects

IntegrationArn

The Amazon Resource Name (ARN) for the created integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

IntegrationConfig

The configuration settings.

Type: IntegrationConfig object

IntegrationName

A unique name for an integration in AWS Glue.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

KmsKeyId

The ARN of a KMS key used for encrypting the channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

SourceArn

The ARN of the source resource for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Status

The status of the integration being created.

The possible statuses are:

- CREATING: The integration is being created.
- ACTIVE: The integration creation succeeds.
- MODIFYING: The integration is being modified.
- FAILED: The integration creation fails.
- DELETING: The integration is deleted.
- SYNCING: The integration is synchronizing.
- NEEDS_ATTENTION: The integration needs attention, such as synchronization.

Type: String

Valid Values: `CREATING | ACTIVE | MODIFYING | FAILED | DELETING | SYNCING | NEEDS_ATTENTION`

Tags

Metadata assigned to the resource consisting of a list of key-value pairs.

Type: Array of Tag objects

TargetArn

The ARN of the target resource for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConflictException

The `CreatePartitions` API was called on a table that has indexes enabled.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

IntegrationConflictOperationFault

The requested operation conflicts with another operation.

Message

A message describing the problem.

HTTP Status Code: 400

IntegrationQuotaExceededFault

The data processed through your integration exceeded your quota.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServerException

An internal server error occurred.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

KMSKeyNotAccessibleFault

The KMS key specified is not accessible.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateIntegrationResourceProperty

This API can be used for setting up the `ResourceProperty` of the AWS Glue connection (for the source) or AWS Glue database ARN (for the target). These properties can include the role to access the connection or database. To set both source and target properties the same API needs to be invoked with the AWS Glue connection ARN as `ResourceArn` with `SourceProcessingProperties` and the AWS Glue database ARN as `ResourceArn` with `TargetProcessingProperties` respectively.

Request Syntax

```
{
   "ResourceArn": "string",
   "SourceProcessingProperties": {
      "RoleArn": "string"
   },
   "Tags": [
      {
         "key": "string",
         "value": "string"
      }
   ],
   "TargetProcessingProperties": {
      "ConnectionName": "string",
      "EventBusArn": "string",
      "KmsArn": "string",
      "RoleArn": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ResourceArn

The connection ARN of the source, or the database ARN of the target.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

SourceProcessingProperties

The resource properties associated with the integration source.

Type: SourceProcessingProperties object

Required: No

Tags

Metadata assigned to the resource consisting of a list of key-value pairs.

Type: Array of Tag objects

Required: No

TargetProcessingProperties

The resource properties associated with the integration target.

Type: TargetProcessingProperties object

Required: No

Response Syntax

```
{
   "ResourceArn": "string",
   "ResourcePropertyArn": "string",
   "SourceProcessingProperties": {
      "RoleArn": "string"
   },
   "TargetProcessingProperties": {
      "ConnectionName": "string",
      "EventBusArn": "string",
      "KmsArn": "string",
      "RoleArn": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResourceArn

The connection ARN of the source, or the database ARN of the target.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

ResourcePropertyArn

The resource ARN created through this create API. The format is something like arn:aws:glue:<region>:<account_id>:integrationresourceproperty/*

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

SourceProcessingProperties

The resource properties associated with the integration source.

Type: SourceProcessingProperties object

TargetProcessingProperties

The resource properties associated with the integration target.

Type: TargetProcessingProperties object

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConflictException

The `CreatePartitions` API was called on a table that has indexes enabled.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServerException

An internal server error occurred.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateIntegrationTableProperties

This API is used to provide optional override properties for the the tables that need to be replicated. These properties can include properties for filtering and partitioning for the source and target tables. To set both source and target properties the same API need to be invoked with the AWS Glue connection ARN as `ResourceArn` with `SourceTableConfig`, and the AWS Glue database ARN as `ResourceArn` with `TargetTableConfig` respectively.

Request Syntax

```
{
   "ResourceArn": "string",
   "SourceTableConfig": {
      "Fields": [ "string" ],
      "FilterPredicate": "string",
      "PrimaryKey": [ "string" ],
      "RecordUpdateField": "string"
   },
   "TableName": "string",
   "TargetTableConfig": {
      "PartitionSpec": [
         {
            "ConversionSpec": "string",
            "FieldName": "string",
            "FunctionSpec": "string"
         }
      ],
      "TargetTableName": "string",
      "UnnestSpec": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ResourceArn

The Amazon Resource Name (ARN) of the target table for which to create integration table properties. Currently, this API only supports creating integration table properties for target

tables, and the provided ARN should be the ARN of the target table in the AWS Glue Data Catalog. Support for creating integration table properties for source connections (using the connection ARN) is not yet implemented and will be added in a future release.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

SourceTableConfig

A structure for the source table configuration. See the `SourceTableConfig` structure to see list of supported source properties.

Type: SourceTableConfig object

Required: No

TableName

The name of the table to be replicated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

TargetTableConfig

A structure for the target table configuration.

Type: TargetTableConfig object

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServerException

An internal server error occurred.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateJob

Creates a new job definition.

Request Syntax

```
{
   "AllocatedCapacity": number,
   "CodeGenConfigurationNodes": {
      "string" : {
         "Aggregate": {
            "Aggs": [
               {
                  "AggFunc": "string",
                  "Column": [ "string" ]
               }
            ],
            "Groups": [
               [ "string" ]
            ],
            "Inputs": [ "string" ],
            "Name": "string"
         },
         "AmazonRedshiftSource": {
            "Data": {
               "AccessType": "string",
               "Action": "string",
               "AdvancedOptions": [
                  {
                     "Key": "string",
                     "Value": "string"
                  }
               ],
               "CatalogDatabase": {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               },
               "CatalogRedshiftSchema": "string",
               "CatalogRedshiftTable": "string",
               "CatalogTable": {
                  "Description": "string",
                  "Label": "string",
```

```
            "Value": "string"
         },
         "Connection": {
            "Description": "string",
            "Label": "string",
            "Value": "string"
         },
         "CrawlerConnection": "string",
         "IamRole": {
            "Description": "string",
            "Label": "string",
            "Value": "string"
         },
         "MergeAction": "string",
         "MergeClause": "string",
         "MergeWhenMatched": "string",
         "MergeWhenNotMatched": "string",
         "PostAction": "string",
         "PreAction": "string",
         "SampleQuery": "string",
         "Schema": {
            "Description": "string",
            "Label": "string",
            "Value": "string"
         },
         "SelectedColumns": [
            {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            }
         ],
         "SourceType": "string",
         "StagingTable": "string",
         "Table": {
            "Description": "string",
            "Label": "string",
            "Value": "string"
         },
         "TablePrefix": "string",
         "TableSchema": [
            {
               "Description": "string",
               "Label": "string",
```

```
                    "Value": "string"
                }
            ],
            "TempDir": "string",
            "Upsert": boolean
        },
        "Name": "string"
    },
    "AmazonRedshiftTarget": {
        "Data": {
            "AccessType": "string",
            "Action": "string",
            "AdvancedOptions": [
                {
                    "Key": "string",
                    "Value": "string"
                }
            ],
            "CatalogDatabase": {
                "Description": "string",
                "Label": "string",
                "Value": "string"
            },
            "CatalogRedshiftSchema": "string",
            "CatalogRedshiftTable": "string",
            "CatalogTable": {
                "Description": "string",
                "Label": "string",
                "Value": "string"
            },
            "Connection": {
                "Description": "string",
                "Label": "string",
                "Value": "string"
            },
            "CrawlerConnection": "string",
            "IamRole": {
                "Description": "string",
                "Label": "string",
                "Value": "string"
            },
            "MergeAction": "string",
            "MergeClause": "string",
            "MergeWhenMatched": "string",
```

```
            "MergeWhenNotMatched": "string",
            "PostAction": "string",
            "PreAction": "string",
            "SampleQuery": "string",
            "Schema": {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            },
            "SelectedColumns": [
               {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               }
            ],
            "SourceType": "string",
            "StagingTable": "string",
            "Table": {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            },
            "TablePrefix": "string",
            "TableSchema": [
               {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               }
            ],
            "TempDir": "string",
            "Upsert": boolean
         },
         "Inputs": [ "string" ],
         "Name": "string"
      },
      "ApplyMapping": {
         "Inputs": [ "string" ],
         "Mapping": [
            {
               "Children": [
                  "Mapping"
               ],
```

```
                "Dropped": boolean,
                "FromPath": [ "string" ],
                "FromType": "string",
                "ToKey": "string",
                "ToType": "string"
             }
          ],
          "Name": "string"
       },
       "AthenaConnectorSource": {
          "ConnectionName": "string",
          "ConnectionTable": "string",
          "ConnectionType": "string",
          "ConnectorName": "string",
          "Name": "string",
          "OutputSchemas": [
             {
                "Columns": [
                   {
                      "GlueStudioType": "string",
                      "Name": "string",
                      "Type": "string"
                   }
                ]
             }
          ],
          "SchemaName": "string"
       },
       "CatalogDeltaSource": {
          "AdditionalDeltaOptions": {
             "string" : "string"
          },
          "Database": "string",
          "Name": "string",
          "OutputSchemas": [
             {
                "Columns": [
                   {
                      "GlueStudioType": "string",
                      "Name": "string",
                      "Type": "string"
                   }
                ]
             }
```

```
            ],
            "Table": "string"
         },
         "CatalogHudiSource": {
            "AdditionalHudiOptions": {
               "string" : "string"
            },
            "Database": "string",
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
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               "BoundedFiles": number,
               "BoundedSize": number,
               "EnableSamplePath": boolean,
               "SamplePath": "string"
            },
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "Paths": [ "string" ]
         },
         "S3HyperDirectTarget": {
            "AutoDataQuality": {
               "EvaluationContext": "string",
               "IsEnabled": boolean
```

```
            },
            "Compression": "string",
            "Format": "string",
            "Inputs": [ "string" ],
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "PartitionKeys": [
               [ "string" ]
            ],
            "Path": "string",
            "SchemaChangePolicy": {
               "Database": "string",
               "EnableUpdateCatalog": boolean,
               "Table": "string",
               "UpdateBehavior": "string"
            }
         },
         "S3IcebergCatalogTarget": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "AutoDataQuality": {
               "EvaluationContext": "string",
               "IsEnabled": boolean
            },
            "Database": "string",
            "Inputs": [ "string" ],
            "Name": "string",
            "PartitionKeys": [
               [ "string" ]
            ],
            "SchemaChangePolicy": {
               "EnableUpdateCatalog": boolean,
               "UpdateBehavior": "string"
```

```
            },
            "Table": "string"
         },
         "S3IcebergDirectTarget": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "AutoDataQuality": {
               "EvaluationContext": "string",
               "IsEnabled": boolean
            },
            "Compression": "string",
            "Format": "string",
            "Inputs": [ "string" ],
            "Name": "string",
            "NumberTargetPartitions": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "PartitionKeys": [
               [ "string" ]
            ],
            "Path": "string",
            "SchemaChangePolicy": {
               "Database": "string",
               "EnableUpdateCatalog": boolean,
               "Table": "string",
               "UpdateBehavior": "string"
            }
         },
         "S3JsonSource": {
            "AdditionalOptions": {
               "BoundedFiles": number,
               "BoundedSize": number,
               "EnableSamplePath": boolean,
               "SamplePath": "string"
```

```
            },
            "CompressionType": "string",
            "Exclusions": [ "string" ],
            "GroupFiles": "string",
            "GroupSize": "string",
            "JsonPath": "string",
            "MaxBand": number,
            "MaxFilesInBand": number,
            "Multiline": boolean,
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "Paths": [ "string" ],
            "Recurse": boolean
         },
         "S3ParquetSource": {
            "AdditionalOptions": {
               "BoundedFiles": number,
               "BoundedSize": number,
               "EnableSamplePath": boolean,
               "SamplePath": "string"
            },
            "CompressionType": "string",
            "Exclusions": [ "string" ],
            "GroupFiles": "string",
            "GroupSize": "string",
            "MaxBand": number,
            "MaxFilesInBand": number,
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
```

```
                        "Type": "string"
                    }
                ]
            }
        ],
        "Paths": [ "string" ],
        "Recurse": boolean
    },
    "SelectFields": {
        "Inputs": [ "string" ],
        "Name": "string",
        "Paths": [
            [ "string" ]
        ]
    },
    "SelectFromCollection": {
        "Index": number,
        "Inputs": [ "string" ],
        "Name": "string"
    },
    "SnowflakeSource": {
        "Data": {
            "Action": "string",
            "AdditionalOptions": {
                "string" : "string"
            },
            "AutoPushdown": boolean,
            "Connection": {
                "Description": "string",
                "Label": "string",
                "Value": "string"
            },
            "Database": "string",
            "IamRole": {
                "Description": "string",
                "Label": "string",
                "Value": "string"
            },
            "MergeAction": "string",
            "MergeClause": "string",
            "MergeWhenMatched": "string",
            "MergeWhenNotMatched": "string",
            "PostAction": "string",
            "PreAction": "string",
```

```
            "SampleQuery": "string",
            "Schema": "string",
            "SelectedColumns": [
               {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               }
            ],
            "SourceType": "string",
            "StagingTable": "string",
            "Table": "string",
            "TableSchema": [
               {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               }
            ],
            "TempDir": "string",
            "Upsert": boolean
         },
         "Name": "string",
         "OutputSchemas": [
            {
               "Columns": [
                  {
                     "GlueStudioType": "string",
                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ]
      },
      "SnowflakeTarget": {
         "Data": {
            "Action": "string",
            "AdditionalOptions": {
               "string" : "string"
            },
            "AutoPushdown": boolean,
            "Connection": {
               "Description": "string",
```

```
                "Label": "string",
                "Value": "string"
            },
            "Database": "string",
            "IamRole": {
                "Description": "string",
                "Label": "string",
                "Value": "string"
            },
            "MergeAction": "string",
            "MergeClause": "string",
            "MergeWhenMatched": "string",
            "MergeWhenNotMatched": "string",
            "PostAction": "string",
            "PreAction": "string",
            "SampleQuery": "string",
            "Schema": "string",
            "SelectedColumns": [
                {
                    "Description": "string",
                    "Label": "string",
                    "Value": "string"
                }
            ],
            "SourceType": "string",
            "StagingTable": "string",
            "Table": "string",
            "TableSchema": [
                {
                    "Description": "string",
                    "Label": "string",
                    "Value": "string"
                }
            ],
            "TempDir": "string",
            "Upsert": boolean
        },
        "Inputs": [ "string" ],
        "Name": "string"
    },
    "SparkConnectorSource": {
        "AdditionalOptions": {
            "string" : "string"
        },
```

```
            "ConnectionName": "string",
            "ConnectionType": "string",
            "ConnectorName": "string",
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ]
         },
         "SparkConnectorTarget": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "ConnectionName": "string",
            "ConnectionType": "string",
            "ConnectorName": "string",
            "Inputs": [ "string" ],
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ]
         },
         "SparkSQL": {
            "Inputs": [ "string" ],
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
```

```
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "SqlAliases": [
               {
                  "Alias": "string",
                  "From": "string"
               }
            ],
            "SqlQuery": "string"
         },
         "Spigot": {
            "Inputs": [ "string" ],
            "Name": "string",
            "Path": "string",
            "Prob": number,
            "Topk": number
         },
         "SplitFields": {
            "Inputs": [ "string" ],
            "Name": "string",
            "Paths": [
               [ "string" ]
            ]
         },
         "Union": {
            "Inputs": [ "string" ],
            "Name": "string",
            "UnionType": "string"
         }
      }
   },
   "Command": {
      "Name": "string",
      "PythonVersion": "string",
      "Runtime": "string",
      "ScriptLocation": "string"
   },
   "Connections": {
      "Connections": [ "string" ]
```

```
    },
    "DefaultArguments": {
       "string" : "string"
    },
    "Description": "string",
    "ExecutionClass": "string",
    "ExecutionProperty": {
       "MaxConcurrentRuns": number
    },
    "GlueVersion": "string",
    "JobMode": "string",
    "JobRunQueuingEnabled": boolean,
    "LogUri": "string",
    "MaintenanceWindow": "string",
    "MaxCapacity": number,
    "MaxRetries": number,
    "Name": "string",
    "NonOverridableArguments": {
       "string" : "string"
    },
    "NotificationProperty": {
       "NotifyDelayAfter": number
    },
    "NumberOfWorkers": number,
    "Role": "string",
    "SecurityConfiguration": "string",
    "SourceControlDetails": {
       "AuthStrategy": "string",
       "AuthToken": "string",
       "Branch": "string",
       "Folder": "string",
       "LastCommitId": "string",
       "Owner": "string",
       "Provider": "string",
       "Repository": "string"
    },
    "Tags": {
       "string" : "string"
    },
    "Timeout": number,
    "WorkerType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

AllocatedCapacity

This parameter is deprecated. Use `MaxCapacity` instead.

The number of AWS Glue data processing units (DPUs) to allocate to this Job. You can allocate a minimum of 2 DPUs; the default is 10. A DPU is a relative measure of processing power that consists of 4 vCPUs of compute capacity and 16 GB of memory. For more information, see the AWS Glue pricing page.

Type: Integer

Required: No

CodeGenConfigurationNodes

The representation of a directed acyclic graph on which both the Glue Studio visual component and Glue Studio code generation is based.

Type: String to CodeGenConfigurationNode object map

Key Pattern: `[A-Za-z0-9_-]*`

Required: No

Command

The `JobCommand` that runs this job.

Type: JobCommand object

Required: Yes

Connections

The connections used for this job.

Type: ConnectionsList object

Required: No

DefaultArguments

The default arguments for every run of this job, specified as name-value pairs.

You can specify arguments here that your own job-execution script consumes, as well as arguments that AWS Glue itself consumes.

Job arguments may be logged. Do not pass plaintext secrets as arguments. Retrieve secrets from a AWS Glue Connection, AWS Secrets Manager or other secret management mechanism if you intend to keep them within the Job.

For information about how to specify and consume your own Job arguments, see the Calling AWS Glue APIs in Python topic in the developer guide.

For information about the arguments you can provide to this field when configuring Spark jobs, see the Special Parameters Used by AWS Glue topic in the developer guide.

For information about the arguments you can provide to this field when configuring Ray jobs, see Using job parameters in Ray jobs in the developer guide.

Type: String to string map

Required: No

Description

Description of the job being defined.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

ExecutionClass

Indicates whether the job is run with a standard or flexible execution class. The standard execution-class is ideal for time-sensitive workloads that require fast job startup and dedicated resources.

The flexible execution class is appropriate for time-insensitive jobs whose start and completion times may vary.

Only jobs with AWS Glue version 3.0 and above and command type `glueetl` will be allowed to set `ExecutionClass` to `FLEX`. The flexible execution class is available for Spark jobs.

Type: String

Length Constraints: Maximum length of 16.

Valid Values: `FLEX | STANDARD`

Required: No

ExecutionProperty

An `ExecutionProperty` specifying the maximum number of concurrent runs allowed for this job.

Type: ExecutionProperty object

Required: No

GlueVersion

In Spark jobs, `GlueVersion` determines the versions of Apache Spark and Python that AWS Glue available in a job. The Python version indicates the version supported for jobs of type Spark.

Ray jobs should set `GlueVersion` to `4.0` or greater. However, the versions of Ray, Python and additional libraries available in your Ray job are determined by the `Runtime` parameter of the Job command.

For more information about the available AWS Glue versions and corresponding Spark and Python versions, see Glue version in the developer guide.

Jobs that are created without specifying a Glue version default to Glue 0.9.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `^(\w+\.)+\w+$`

Required: No

JobMode

A mode that describes how a job was created. Valid values are:

- `SCRIPT` - The job was created using the AWS Glue Studio script editor.
- `VISUAL` - The job was created using the AWS Glue Studio visual editor.
- `NOTEBOOK` - The job was created using an interactive sessions notebook.

When the `JobMode` field is missing or null, `SCRIPT` is assigned as the default value.

Type: String

Valid Values: `SCRIPT | VISUAL | NOTEBOOK`

Required: No

JobRunQueuingEnabled

Specifies whether job run queuing is enabled for the job runs for this job.

A value of true means job run queuing is enabled for the job runs. If false or not populated, the job runs will not be considered for queueing.

If this field does not match the value set in the job run, then the value from the job run field will be used.

Type: Boolean

Required: No

LogUri

This field is reserved for future use.

Type: String

Required: No

MaintenanceWindow

This field specifies a day of the week and hour for a maintenance window for streaming jobs. AWS Glue periodically performs maintenance activities. During these maintenance windows, AWS Glue will need to restart your streaming jobs.

AWS Glue will restart the job within 3 hours of the specified maintenance window. For instance, if you set up the maintenance window for Monday at 10:00AM GMT, your jobs will be restarted between 10:00AM GMT to 1:00PM GMT.

Type: String

Pattern: `^(Sun|Mon|Tue|Wed|Thu|Fri|Sat):([01]?[0-9]|2[0-3])$`

Required: No

MaxCapacity

For Glue version 1.0 or earlier jobs, using the standard worker type, the number of AWS Glue data processing units (DPUs) that can be allocated when this job runs. A DPU is a relative measure of processing power that consists of 4 vCPUs of compute capacity and 16 GB of memory. For more information, see the AWS Glue pricing page.

For Glue version 2.0+ jobs, you cannot specify a `Maximum capacity`. Instead, you should specify a `Worker type` and the `Number of workers`.

Do not set `MaxCapacity` if using `WorkerType` and `NumberOfWorkers`.

The value that can be allocated for `MaxCapacity` depends on whether you are running a Python shell job, an Apache Spark ETL job, or an Apache Spark streaming ETL job:

- When you specify a Python shell job (`JobCommand.Name="pythonshell"`), you can allocate either 0.0625 or 1 DPU. The default is 0.0625 DPU.
- When you specify an Apache Spark ETL job (`JobCommand.Name="glueetl"`) or Apache Spark streaming ETL job (`JobCommand.Name="gluestreaming"`), you can allocate from 2 to 100 DPUs. The default is 10 DPUs. This job type cannot have a fractional DPU allocation.

Type: Double

Required: No

MaxRetries

The maximum number of times to retry this job if it fails.

Type: Integer

Required: No

Name

The name you assign to this job definition. It must be unique in your account.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

NonOverridableArguments

Arguments for this job that are not overridden when providing job arguments in a job run, specified as name-value pairs.

Type: String to string map

Required: No

NotificationProperty

Specifies configuration properties of a job notification.

Type: NotificationProperty object

Required: No

NumberOfWorkers

The number of workers of a defined `workerType` that are allocated when a job runs.

Type: Integer

Required: No

Role

The name or Amazon Resource Name (ARN) of the IAM role associated with this job.

Type: String

Required: Yes

SecurityConfiguration

The name of the `SecurityConfiguration` structure to be used with this job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

SourceControlDetails

The details for a source control configuration for a job, allowing synchronization of job artifacts to or from a remote repository.

Type: SourceControlDetails object

Required: No

Tags

The tags to use with this job. You may use tags to limit access to the job. For more information about tags in AWS Glue, see AWS Tags in AWS Glue in the developer guide.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Timeout

The job timeout in minutes. This is the maximum time that a job run can consume resources before it is terminated and enters `TIMEOUT` status.

Jobs must have timeout values less than 7 days or 10080 minutes. Otherwise, the jobs will throw an exception.

When the value is left blank, the timeout is defaulted to 2880 minutes.

Any existing AWS Glue jobs that had a timeout value greater than 7 days will be defaulted to 7 days. For instance if you have specified a timeout of 20 days for a batch job, it will be stopped on the 7th day.

For streaming jobs, if you have set up a maintenance window, it will be restarted during the maintenance window after 7 days.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

WorkerType

The type of predefined worker that is allocated when a job runs. Accepts a value of G.1X, G.2X, G.4X, G.8X or G.025X for Spark jobs. Accepts the value Z.2X for Ray jobs.

- For the `G.1X` worker type, each worker maps to 1 DPU (4 vCPUs, 16 GB of memory) with 94GB disk, and provides 1 executor per worker. We recommend this worker type for workloads such as data transforms, joins, and queries, to offers a scalable and cost effective way to run most jobs.
- For the `G.2X` worker type, each worker maps to 2 DPU (8 vCPUs, 32 GB of memory) with 138GB disk, and provides 1 executor per worker. We recommend this worker type for workloads such as data transforms, joins, and queries, to offers a scalable and cost effective way to run most jobs.
- For the `G.4X` worker type, each worker maps to 4 DPU (16 vCPUs, 64 GB of memory) with 256GB disk, and provides 1 executor per worker. We recommend this worker type for jobs whose workloads contain your most demanding transforms, aggregations, joins, and queries. This worker type is available only for AWS Glue version 3.0 or later Spark ETL jobs in the following AWS Regions: US East (Ohio), US East (N. Virginia), US West (N. California), US West (Oregon), Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Spain), Europe (Stockholm), and South America (São Paulo).
- For the `G.8X` worker type, each worker maps to 8 DPU (32 vCPUs, 128 GB of memory) with 512GB disk, and provides 1 executor per worker. We recommend this worker type for jobs whose workloads contain your most demanding transforms, aggregations, joins, and queries. This worker type is available only for AWS Glue version 3.0 or later Spark ETL jobs, in the same AWS Regions as supported for the `G.4X` worker type.
- For the `G.025X` worker type, each worker maps to 0.25 DPU (2 vCPUs, 4 GB of memory) with 84GB disk, and provides 1 executor per worker. We recommend this worker type for low volume streaming jobs. This worker type is only available for AWS Glue version 3.0 or later streaming jobs.

- For the Z.2X worker type, each worker maps to 2 M-DPU (8vCPUs, 64 GB of memory) with 128 GB disk, and provides up to 8 Ray workers based on the autoscaler.

Type: String

Valid Values: `Standard | G.1X | G.2X | G.025X | G.4X | G.8X | Z.2X`

Required: No

Response Syntax

```
{
   "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Name

The unique name that was provided for this job definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

IdempotentParameterMismatchException

The same unique identifier was associated with two different records.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateMLTransform

Creates an AWS Glue machine learning transform. This operation creates the transform and all the necessary parameters to train it.

Call this operation as the first step in the process of using a machine learning transform (such as the `FindMatches` transform) for deduplicating data. You can provide an optional `Description`, in addition to the parameters that you want to use for your algorithm.

You must also specify certain parameters for the tasks that AWS Glue runs on your behalf as part of learning from your data and creating a high-quality machine learning transform. These parameters include `Role`, and optionally, `AllocatedCapacity`, `Timeout`, and `MaxRetries`. For more information, see Jobs.

Request Syntax

```
{
   "Description": "string",
   "GlueVersion": "string",
   "InputRecordTables": [
      {
         "AdditionalOptions": {
            "string" : "string"
         },
         "CatalogId": "string",
         "ConnectionName": "string",
         "DatabaseName": "string",
         "TableName": "string"
      }
   ],
   "MaxCapacity": number,
   "MaxRetries": number,
   "Name": "string",
   "NumberOfWorkers": number,
   "Parameters": {
      "FindMatchesParameters": {
         "AccuracyCostTradeoff": number,
         "EnforceProvidedLabels": boolean,
         "PrecisionRecallTradeoff": number,
         "PrimaryKeyColumnName": "string"
      },
      "TransformType": "string"
```

```
   },
   "Role": "string",
   "Tags": {
      "string" : "string"
   },
   "Timeout": number,
   "TransformEncryption": {
      "MlUserDataEncryption": {
         "KmsKeyId": "string",
         "MlUserDataEncryptionMode": "string"
      },
      "TaskRunSecurityConfigurationName": "string"
   },
   "WorkerType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Description

A description of the machine learning transform that is being defined. The default is an empty string.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

GlueVersion

This value determines which version of AWS Glue this machine learning transform is compatible with. Glue 1.0 is recommended for most customers. If the value is not set, the Glue compatibility defaults to Glue 0.9. For more information, see AWS Glue Versions in the developer guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `^(\w+\.)+\w+$`

Required: No

InputRecordTables

A list of AWS Glue table definitions used by the transform.

Type: Array of GlueTable objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: Yes

MaxCapacity

The number of AWS Glue data processing units (DPUs) that are allocated to task runs for this transform. You can allocate from 2 to 100 DPUs; the default is 10. A DPU is a relative measure of processing power that consists of 4 vCPUs of compute capacity and 16 GB of memory. For more information, see the AWS Glue pricing page.

`MaxCapacity` is a mutually exclusive option with `NumberOfWorkers` and `WorkerType`.

- If either `NumberOfWorkers` or `WorkerType` is set, then `MaxCapacity` cannot be set.
- If `MaxCapacity` is set then neither `NumberOfWorkers` or `WorkerType` can be set.
- If `WorkerType` is set, then `NumberOfWorkers` is required (and vice versa).
- `MaxCapacity` and `NumberOfWorkers` must both be at least 1.

When the `WorkerType` field is set to a value other than `Standard`, the `MaxCapacity` field is set automatically and becomes read-only.

When the `WorkerType` field is set to a value other than `Standard`, the `MaxCapacity` field is set automatically and becomes read-only.

Type: Double

Required: No

MaxRetries

The maximum number of times to retry a task for this transform after a task run fails.

Type: Integer

Required: No

Name

The unique name that you give the transform when you create it.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

NumberOfWorkers

The number of workers of a defined `workerType` that are allocated when this task runs.

If `WorkerType` is set, then `NumberOfWorkers` is required (and vice versa).

Type: Integer

Required: No

Parameters

The algorithmic parameters that are specific to the transform type used. Conditionally dependent on the transform type.

Type: TransformParameters object

Required: Yes

Role

The name or Amazon Resource Name (ARN) of the IAM role with the required permissions. The required permissions include both AWS Glue service role permissions to AWS Glue resources, and Amazon S3 permissions required by the transform.

- This role needs AWS Glue service role permissions to allow access to resources in AWS Glue. See Attach a Policy to IAM Users That Access AWS Glue.
- This role needs permission to your Amazon Simple Storage Service (Amazon S3) sources, targets, temporary directory, scripts, and any libraries used by the task run for this transform.

Type: String

Required: Yes

Tags

The tags to use with this machine learning transform. You may use tags to limit access to the machine learning transform. For more information about tags in AWS Glue, see AWS Tags in AWS Glue in the developer guide.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Timeout

The timeout of the task run for this transform in minutes. This is the maximum time that a task run for this transform can consume resources before it is terminated and enters `TIMEOUT` status. The default is 2,880 minutes (48 hours).

Type: Integer

Valid Range: Minimum value of 1.

Required: No

TransformEncryption

The encryption-at-rest settings of the transform that apply to accessing user data. Machine learning transforms can access user data encrypted in Amazon S3 using KMS.

Type: TransformEncryption object

Required: No

WorkerType

The type of predefined worker that is allocated when this task runs. Accepts a value of Standard, G.1X, or G.2X.

- For the `Standard` worker type, each worker provides 4 vCPU, 16 GB of memory and a 50GB disk, and 2 executors per worker.

- For the G.1X worker type, each worker provides 4 vCPU, 16 GB of memory and a 64GB disk, and 1 executor per worker.
- For the G.2X worker type, each worker provides 8 vCPU, 32 GB of memory and a 128GB disk, and 1 executor per worker.

MaxCapacity is a mutually exclusive option with NumberOfWorkers and WorkerType.

- If either NumberOfWorkers or WorkerType is set, then MaxCapacity cannot be set.
- If MaxCapacity is set then neither NumberOfWorkers or WorkerType can be set.
- If WorkerType is set, then NumberOfWorkers is required (and vice versa).
- MaxCapacity and NumberOfWorkers must both be at least 1.

Type: String

Valid Values: Standard | G.1X | G.2X | G.025X | G.4X | G.8X | Z.2X

Required: No

Response Syntax

```
{
   "TransformId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

TransformId

A unique identifier that is generated for the transform.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

IdempotentParameterMismatchException

The same unique identifier was associated with two different records.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreatePartition

Creates a new partition.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "PartitionInput": {
      "LastAccessTime": number,
      "LastAnalyzedTime": number,
      "Parameters": {
         "string" : "string"
      },
      "StorageDescriptor": {
         "AdditionalLocations": [ "string" ],
         "BucketColumns": [ "string" ],
         "Columns": [
            {
               "Comment": "string",
               "Name": "string",
               "Parameters": {
                  "string" : "string"
               },
               "Type": "string"
            }
         ],
         "Compressed": boolean,
         "InputFormat": "string",
         "Location": "string",
         "NumberOfBuckets": number,
         "OutputFormat": "string",
         "Parameters": {
            "string" : "string"
         },
         "SchemaReference": {
            "SchemaId": {
               "RegistryName": "string",
               "SchemaArn": "string",
               "SchemaName": "string"
            },
            "SchemaVersionId": "string",
```

```
            "SchemaVersionNumber": number
         },
         "SerdeInfo": {
            "Name": "string",
            "Parameters": {
               "string" : "string"
            },
            "SerializationLibrary": "string"
         },
         "SkewedInfo": {
            "SkewedColumnNames": [ "string" ],
            "SkewedColumnValueLocationMaps": {
               "string" : "string"
            },
            "SkewedColumnValues": [ "string" ]
         },
         "SortColumns": [
            {
               "Column": "string",
               "SortOrder": number
            }
         ],
         "StoredAsSubDirectories": boolean
      },
      "Values": [ "string" ]
   },
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The AWS account ID of the catalog in which the partition is to be created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the metadata database in which the partition is to be created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

PartitionInput

A `PartitionInput` structure defining the partition to be created.

Type: PartitionInput object

Required: Yes

TableName

The name of the metadata table in which the partition is to be created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreatePartitionIndex

Creates a specified partition index in an existing table.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "PartitionIndex": {
      "IndexName": "string",
      "Keys": [ "string" ]
   },
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The catalog ID where the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: No

DatabaseName

Specifies the name of a database in which you want to create a partition index.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: Yes

PartitionIndex

Specifies a `PartitionIndex` structure to create a partition index in an existing table.

Type: PartitionIndex object

Required: Yes

TableName

Specifies the name of a table in which you want to create a partition index.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateRegistry

Creates a new registry which may be used to hold a collection of schemas.

Request Syntax

```
{
   "Description": "string",
   "RegistryName": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Description

A description of the registry. If description is not provided, there will not be any default value for this.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

RegistryName

Name of the registry to be created of max length of 255, and may only contain letters, numbers, hyphen, underscore, dollar sign, or hash mark. No whitespace.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

Required: Yes

Tags

AWS tags that contain a key value pair and may be searched by console, command line, or API.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
   "Description": "string",
   "RegistryArn": "string",
   "RegistryName": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Description

A description of the registry.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

RegistryArn

The Amazon Resource Name (ARN) of the newly created registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

RegistryName

The name of the registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

Tags

The tags for the registry.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateSchema

Creates a new schema set and registers the schema definition. Returns an error if the schema set already exists without actually registering the version.

When the schema set is created, a version checkpoint will be set to the first version. Compatibility mode "DISABLED" restricts any additional schema versions from being added after the first schema version. For all other compatibility modes, validation of compatibility settings will be applied only from the second version onwards when the `RegisterSchemaVersion` API is used.

When this API is called without a `RegistryId`, this will create an entry for a "default-registry" in the registry database tables, if it is not already present.

Request Syntax

```
{
   "Compatibility": "string",
   "DataFormat": "string",
   "Description": "string",
   "RegistryId": {
      "RegistryArn": "string",
      "RegistryName": "string"
   },
   "SchemaDefinition": "string",
   "SchemaName": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Compatibility

The compatibility mode of the schema. The possible values are:

- *NONE*: No compatibility mode applies. You can use this choice in development scenarios or if you do not know the compatibility mode that you want to apply to schemas. Any new version added will be accepted without undergoing a compatibility check.
- *DISABLED*: This compatibility choice prevents versioning for a particular schema. You can use this choice to prevent future versioning of a schema.
- *BACKWARD*: This compatibility choice is recommended as it allows data receivers to read both the current and one previous schema version. This means that for instance, a new schema version cannot drop data fields or change the type of these fields, so they can't be read by readers using the previous version.
- *BACKWARD_ALL*: This compatibility choice allows data receivers to read both the current and all previous schema versions. You can use this choice when you need to delete fields or add optional fields, and check compatibility against all previous schema versions.
- *FORWARD*: This compatibility choice allows data receivers to read both the current and one next schema version, but not necessarily later versions. You can use this choice when you need to add fields or delete optional fields, but only check compatibility against the last schema version.
- *FORWARD_ALL*: This compatibility choice allows data receivers to read written by producers of any new registered schema. You can use this choice when you need to add fields or delete optional fields, and check compatibility against all previous schema versions.
- *FULL*: This compatibility choice allows data receivers to read data written by producers using the previous or next version of the schema, but not necessarily earlier or later versions. You can use this choice when you need to add or remove optional fields, but only check compatibility against the last schema version.
- *FULL_ALL*: This compatibility choice allows data receivers to read data written by producers using all previous schema versions. You can use this choice when you need to add or remove optional fields, and check compatibility against all previous schema versions.

Type: String

Valid Values: `NONE | DISABLED | BACKWARD | BACKWARD_ALL | FORWARD | FORWARD_ALL | FULL | FULL_ALL`

Required: No

DataFormat

The data format of the schema definition. Currently `AVRO`, `JSON` and `PROTOBUF` are supported.

Type: String

Valid Values: `AVRO | JSON | PROTOBUF`

Required: Yes

Description

An optional description of the schema. If description is not provided, there will not be any automatic default value for this.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

RegistryId

This is a wrapper shape to contain the registry identity fields. If this is not provided, the default registry will be used. The ARN format for the same will be: `arn:aws:glue:us-east-2:<customer id>:registry/default-registry:random-5-letter-id`.

Type: RegistryId object

Required: No

SchemaDefinition

The schema definition using the `DataFormat` setting for `SchemaName`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 170000.

Pattern: `.*\S.*`

Required: No

SchemaName

Name of the schema to be created of max length of 255, and may only contain letters, numbers, hyphen, underscore, dollar sign, or hash mark. No whitespace.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

Required: Yes

Tags

AWS tags that contain a key value pair and may be searched by console, command line, or API. If specified, follows the AWS tags-on-create pattern.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
   "Compatibility": "string",
   "DataFormat": "string",
   "Description": "string",
   "LatestSchemaVersion": number,
   "NextSchemaVersion": number,
   "RegistryArn": "string",
   "RegistryName": "string",
   "SchemaArn": "string",
   "SchemaCheckpoint": number,
   "SchemaName": "string",
   "SchemaStatus": "string",
   "SchemaVersionId": "string",
   "SchemaVersionStatus": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Compatibility

The schema compatibility mode.

Type: String

Valid Values: `NONE | DISABLED | BACKWARD | BACKWARD_ALL | FORWARD | FORWARD_ALL | FULL | FULL_ALL`

DataFormat

The data format of the schema definition. Currently `AVRO`, `JSON` and `PROTOBUF` are supported.

Type: String

Valid Values: `AVRO | JSON | PROTOBUF`

Description

A description of the schema if specified when created.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

LatestSchemaVersion

The latest version of the schema associated with the returned schema definition.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 100000.

NextSchemaVersion

The next version of the schema associated with the returned schema definition.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 100000.

RegistryArn

The Amazon Resource Name (ARN) of the registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

RegistryName

The name of the registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

SchemaArn

The Amazon Resource Name (ARN) of the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

SchemaCheckpoint

The version number of the checkpoint (the last time the compatibility mode was changed).

Type: Long

Valid Range: Minimum value of 1. Maximum value of 100000.

SchemaName

The name of the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

SchemaStatus

The status of the schema.

Type: String

Valid Values: `AVAILABLE | PENDING | DELETING`

SchemaVersionId

The unique identifier of the first schema version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

SchemaVersionStatus

The status of the first schema version created.

Type: String

Valid Values: `AVAILABLE | PENDING | FAILURE | DELETING`

Tags

The tags for the schema.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateScript

Transforms a directed acyclic graph (DAG) into code.

Request Syntax

```
{
   "DagEdges": [
      {
         "Source": "string",
         "Target": "string",
         "TargetParameter": "string"
      }
   ],
   "DagNodes": [
      {
         "Args": [
            {
               "Name": "string",
               "Param": boolean,
               "Value": "string"
            }
         ],
         "Id": "string",
         "LineNumber": number,
         "NodeType": "string"
      }
   ],
   "Language": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

DagEdges

A list of the edges in the DAG.

Type: Array of CodeGenEdge objects

Required: No

DagNodes

A list of the nodes in the DAG.

Type: Array of CodeGenNode objects

Required: No

Language

The programming language of the resulting code from the DAG.

Type: String

Valid Values: PYTHON | SCALA

Required: No

Response Syntax

```
{
   "PythonScript": "string",
   "ScalaCode": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

PythonScript

The Python script generated from the DAG.

Type: String

ScalaCode

The Scala code generated from the DAG.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateSecurityConfiguration

Creates a new security configuration. A security configuration is a set of security properties that can be used by AWS Glue. You can use a security configuration to encrypt data at rest. For information about using security configurations in AWS Glue, see Encrypting Data Written by Crawlers, Jobs, and Development Endpoints.

Request Syntax

```
{
   "EncryptionConfiguration": {
      "CloudWatchEncryption": {
         "CloudWatchEncryptionMode": "string",
         "KmsKeyArn": "string"
      },
      "DataQualityEncryption": {
         "DataQualityEncryptionMode": "string",
         "KmsKeyArn": "string"
      },
      "JobBookmarksEncryption": {
         "JobBookmarksEncryptionMode": "string",
         "KmsKeyArn": "string"
      },
      "S3Encryption": [
         {
            "KmsKeyArn": "string",
            "S3EncryptionMode": "string"
         }
      ]
   },
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

EncryptionConfiguration

The encryption configuration for the new security configuration.

Type: EncryptionConfiguration object

Required: Yes

Name

The name for the new security configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "CreatedTimestamp": number,
   "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CreatedTimestamp

The time at which the new security configuration was created.

Type: Timestamp

Name

The name assigned to the new security configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateSession

Creates a new session.

Request Syntax

```
{
   "Command": {
      "Name": "string",
      "PythonVersion": "string"
   },
   "Connections": {
      "Connections": [ "string" ]
   },
   "DefaultArguments": {
      "string" : "string"
   },
   "Description": "string",
   "GlueVersion": "string",
   "Id": "string",
   "IdleTimeout": number,
   "MaxCapacity": number,
   "NumberOfWorkers": number,
   "RequestOrigin": "string",
   "Role": "string",
   "SecurityConfiguration": "string",
   "Tags": {
      "string" : "string"
   },
   "Timeout": number,
   "WorkerType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Command

The `SessionCommand` that runs the job.

Type: SessionCommand object

Required: Yes

Connections

The number of connections to use for the session.

Type: ConnectionsList object

Required: No

DefaultArguments

A map array of key-value pairs. Max is 75 pairs.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 75 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[\.\-_A-Za-z0-9]+`

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Value Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

Description

The description of the session.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

GlueVersion

The AWS Glue version determines the versions of Apache Spark and Python that AWS Glue supports. The GlueVersion must be greater than 2.0.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `^(\w+\.)+\w+$`

Required: No

Id

The ID of the session request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

IdleTimeout

The number of minutes when idle before session times out. Default for Spark ETL jobs is value of Timeout. Consult the documentation for other job types.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

MaxCapacity

The number of AWS Glue data processing units (DPUs) that can be allocated when the job runs. A DPU is a relative measure of processing power that consists of 4 vCPUs of compute capacity and 16 GB memory.

Type: Double

Required: No

NumberOfWorkers

The number of workers of a defined `WorkerType` to use for the session.

Type: Integer

Required: No

RequestOrigin

The origin of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: No

Role

The IAM Role ARN

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[^:]*:iam::[0-9]*:role/.+`

Required: Yes

SecurityConfiguration

The name of the SecurityConfiguration structure to be used with the session

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Tags

The map of key value pairs (tags) belonging to the session.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Timeout

The number of minutes before session times out. Default for Spark ETL jobs is 48 hours (2880 minutes). Consult the documentation for other job types.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

WorkerType

The type of predefined worker that is allocated when a job runs. Accepts a value of G.1X, G.2X, G.4X, or G.8X for Spark jobs. Accepts the value Z.2X for Ray notebooks.

- For the `G.1X` worker type, each worker maps to 1 DPU (4 vCPUs, 16 GB of memory) with 94GB disk, and provides 1 executor per worker. We recommend this worker type for workloads such as data transforms, joins, and queries, to offers a scalable and cost effective way to run most jobs.
- For the `G.2X` worker type, each worker maps to 2 DPU (8 vCPUs, 32 GB of memory) with 138GB disk, and provides 1 executor per worker. We recommend this worker type for workloads such as data transforms, joins, and queries, to offers a scalable and cost effective way to run most jobs.
- For the `G.4X` worker type, each worker maps to 4 DPU (16 vCPUs, 64 GB of memory) with 256GB disk, and provides 1 executor per worker. We recommend this worker type for jobs whose workloads contain your most demanding transforms, aggregations, joins, and queries. This worker type is available only for AWS Glue version 3.0 or later Spark ETL jobs in the following AWS Regions: US East (Ohio), US East (N. Virginia), US West (Oregon), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Europe (Frankfurt), Europe (Ireland), and Europe (Stockholm).
- For the `G.8X` worker type, each worker maps to 8 DPU (32 vCPUs, 128 GB of memory) with 512GB disk, and provides 1 executor per worker. We recommend this worker type for jobs whose workloads contain your most demanding transforms, aggregations, joins, and queries. This worker type is available only for AWS Glue version 3.0 or later Spark ETL jobs, in the same AWS Regions as supported for the `G.4X` worker type.

- For the `Z.2X` worker type, each worker maps to 2 M-DPU (8vCPUs, 64 GB of memory) with 128 GB disk, and provides up to 8 Ray workers based on the autoscaler.

Type: String

Valid Values: `Standard | G.1X | G.2X | G.025X | G.4X | G.8X | Z.2X`

Required: No

Response Syntax

```
{
   "Session": {
      "Command": {
         "Name": "string",
         "PythonVersion": "string"
      },
      "CompletedOn": number,
      "Connections": {
         "Connections": [ "string" ]
      },
      "CreatedOn": number,
      "DefaultArguments": {
         "string" : "string"
      },
      "Description": "string",
      "DPUSeconds": number,
      "ErrorMessage": "string",
      "ExecutionTime": number,
      "GlueVersion": "string",
      "Id": "string",
      "IdleTimeout": number,
      "MaxCapacity": number,
      "NumberOfWorkers": number,
      "ProfileName": "string",
      "Progress": number,
      "Role": "string",
      "SecurityConfiguration": "string",
      "Status": "string",
      "WorkerType": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Session

Returns the session object in the response.

Type: Session object

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

IdempotentParameterMismatchException

The same unique identifier was associated with two different records.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateTable

Creates a new table definition in the Data Catalog.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "Name": "string",
   "OpenTableFormatInput": {
      "IcebergInput": {
         "CreateIcebergTableInput": {
            "Location": "string",
            "PartitionSpec": {
               "Fields": [
                  {
                     "FieldId": number,
                     "Name": "string",
                     "SourceId": number,
                     "Transform": "string"
                  }
               ],
               "SpecId": number
            },
            "Properties": {
               "string" : "string"
            },
            "Schema": {
               "Fields": [
                  {
                     "Doc": "string",
                     "Id": number,
                     "InitialDefault": JSON value,
                     "Name": "string",
                     "Required": boolean,
                     "Type": JSON value,
                     "WriteDefault": JSON value
                  }
               ],
               "IdentifierFieldIds": [ number ],
               "SchemaId": number,
               "Type": "string"
```

```
            },
            "WriteOrder": {
               "Fields": [
                  {
                     "Direction": "string",
                     "NullOrder": "string",
                     "SourceId": number,
                     "Transform": "string"
                  }
               ],
               "OrderId": number
            }
         },
         "MetadataOperation": "string",
         "Version": "string"
      }
   },
   "PartitionIndexes": [
      {
         "IndexName": "string",
         "Keys": [ "string" ]
      }
   ],
   "TableInput": {
      "Description": "string",
      "LastAccessTime": number,
      "LastAnalyzedTime": number,
      "Name": "string",
      "Owner": "string",
      "Parameters": {
         "string" : "string"
      },
      "PartitionKeys": [
         {
            "Comment": "string",
            "Name": "string",
            "Parameters": {
               "string" : "string"
            },
            "Type": "string"
         }
      ],
      "Retention": number,
      "StorageDescriptor": {
```

```
        "AdditionalLocations": [ "string" ],
        "BucketColumns": [ "string" ],
        "Columns": [
           {
              "Comment": "string",
              "Name": "string",
              "Parameters": {
                 "string" : "string"
              },
              "Type": "string"
           }
        ],
        "Compressed": boolean,
        "InputFormat": "string",
        "Location": "string",
        "NumberOfBuckets": number,
        "OutputFormat": "string",
        "Parameters": {
           "string" : "string"
        },
        "SchemaReference": {
           "SchemaId": {
              "RegistryName": "string",
              "SchemaArn": "string",
              "SchemaName": "string"
           },
           "SchemaVersionId": "string",
           "SchemaVersionNumber": number
        },
        "SerdeInfo": {
           "Name": "string",
           "Parameters": {
              "string" : "string"
           },
           "SerializationLibrary": "string"
        },
        "SkewedInfo": {
           "SkewedColumnNames": [ "string" ],
           "SkewedColumnValueLocationMaps": {
              "string" : "string"
           },
           "SkewedColumnValues": [ "string" ]
        },
        "SortColumns": [
```

```
            {
               "Column": "string",
               "SortOrder": number
            }
         ],
         "StoredAsSubDirectories": boolean
      },
      "TableType": "string",
      "TargetTable": {
         "CatalogId": "string",
         "DatabaseName": "string",
         "Name": "string",
         "Region": "string"
      },
      "ViewDefinition": {
         "Definer": "string",
         "IsProtected": boolean,
         "LastRefreshType": "string",
         "RefreshSeconds": number,
         "Representations": [
            {
               "Dialect": "string",
               "DialectVersion": "string",
               "ValidationConnection": "string",
               "ViewExpandedText": "string",
               "ViewOriginalText": "string"
            }
         ],
         "SubObjects": [ "string" ],
         "SubObjectVersionIds": [ number ],
         "ViewVersionId": number,
         "ViewVersionToken": "string"
      },
      "ViewExpandedText": "string",
      "ViewOriginalText": "string"
   },
   "TransactionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog in which to create the `Table`. If none is supplied, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The catalog database in which to create the new table. For Hive compatibility, this name is entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Name

The unique identifier for the table within the specified database that will be created in the AWS Glue Data Catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

OpenTableFormatInput

Specifies an `OpenTableFormatInput` structure when creating an open format table.

Type: OpenTableFormatInput object

Required: No

PartitionIndexes

A list of partition indexes, `PartitionIndex` structures, to create in the table.

Type: Array of PartitionIndex objects

Array Members: Maximum number of 3 items.

Required: No

TableInput

The `TableInput` object that defines the metadata table to create in the catalog.

Type: TableInput object

Required: No

TransactionId

The ID of the transaction.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}\p{N}\p{P}]*`

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNotReadyException

A resource was not ready for a transaction.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateTableOptimizer

Creates a new table optimizer for a specific function.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "TableName": "string",
   "TableOptimizerConfiguration": {
      "compactionConfiguration": {
         "icebergConfiguration": {
            "deleteFileThreshold": number,
            "minInputFiles": number,
            "strategy": "string"
         }
      },
      "enabled": boolean,
      "orphanFileDeletionConfiguration": {
         "icebergConfiguration": {
            "location": "string",
            "orphanFileRetentionPeriodInDays": number,
            "runRateInHours": number
         }
      },
      "retentionConfiguration": {
         "icebergConfiguration": {
            "cleanExpiredFiles": boolean,
            "numberOfSnapshotsToRetain": number,
            "runRateInHours": number,
            "snapshotRetentionPeriodInDays": number
         }
      },
      "roleArn": "string",
      "vpcConfiguration": { ... }
   },
   "Type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The Catalog ID of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

DatabaseName

The name of the database in the catalog in which the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableOptimizerConfiguration

A `TableOptimizerConfiguration` object representing the configuration of a table optimizer.

Type: TableOptimizerConfiguration object

Required: Yes

Type

The type of table optimizer.

Type: String

Valid Values: `compaction | retention | orphan_file_deletion`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ThrottlingException

The throttling threshhold was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateTrigger

Creates a new trigger.

Job arguments may be logged. Do not pass plaintext secrets as arguments. Retrieve secrets from a AWS Glue Connection, AWS Secrets Manager or other secret management mechanism if you intend to keep them within the Job.

Request Syntax

```
{
   "Actions": [
      {
         "Arguments": {
            "string" : "string"
         },
         "CrawlerName": "string",
         "JobName": "string",
         "NotificationProperty": {
            "NotifyDelayAfter": number
         },
         "SecurityConfiguration": "string",
         "Timeout": number
      }
   ],
   "Description": "string",
   "EventBatchingCondition": {
      "BatchSize": number,
      "BatchWindow": number
   },
   "Name": "string",
   "Predicate": {
      "Conditions": [
         {
            "CrawlerName": "string",
            "CrawlState": "string",
            "JobName": "string",
            "LogicalOperator": "string",
            "State": "string"
         }
      ],
      "Logical": "string"
   },
```

```
    "Schedule": "string",
    "StartOnCreation": boolean,
    "Tags": {
       "string" : "string"
    },
    "Type": "string",
    "WorkflowName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Actions

The actions initiated by this trigger when it fires.

Type: Array of Action objects

Required: Yes

Description

A description of the new trigger.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

EventBatchingCondition

Batch condition that must be met (specified number of events received or batch time window expired) before EventBridge event trigger fires.

Type: EventBatchingCondition object

Required: No

Name

The name of the trigger.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Predicate

A predicate to specify when the new trigger should fire.

This field is required when the trigger type is `CONDITIONAL`.

Type: Predicate object

Required: No

Schedule

A `cron` expression used to specify the schedule (see Time-Based Schedules for Jobs and Crawlers. For example, to run something every day at 12:15 UTC, you would specify: `cron(15 12 * * ? *)`.

This field is required when the trigger type is SCHEDULED.

Type: String

Required: No

StartOnCreation

Set to `true` to start `SCHEDULED` and `CONDITIONAL` triggers when created. True is not supported for `ON_DEMAND` triggers.

Type: Boolean

Required: No

Tags

The tags to use with this trigger. You may use tags to limit access to the trigger. For more information about tags in AWS Glue, see AWS Tags in AWS Glue in the developer guide.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Type

The type of the new trigger.

Type: String

Valid Values: `SCHEDULED | CONDITIONAL | ON_DEMAND | EVENT`

Required: Yes

WorkflowName

The name of the workflow associated with the trigger.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Response Syntax

```
{
   "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Name

The name of the trigger.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

IdempotentParameterMismatchException

The same unique identifier was associated with two different records.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateUsageProfile

Creates an AWS Glue usage profile.

Request Syntax

```
{
   "Configuration": {
      "JobConfiguration": {
         "string" : {
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "MaxValue": "string",
            "MinValue": "string"
         }
      },
      "SessionConfiguration": {
         "string" : {
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "MaxValue": "string",
            "MinValue": "string"
         }
      }
   },
   "Description": "string",
   "Name": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Configuration

A `ProfileConfiguration` object specifying the job and session values for the profile.

Type: ProfileConfiguration object

Required: Yes

Description

A description of the usage profile.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

Name

The name of the usage profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Tags

A list of tags applied to the usage profile.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
   "Name": "string"
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Name

The name of the usage profile that was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationNotSupportedException

The operation is not available in the region.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateUserDefinedFunction

Creates a new function definition in the Data Catalog.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "FunctionInput": {
      "ClassName": "string",
      "FunctionName": "string",
      "FunctionType": "string",
      "OwnerName": "string",
      "OwnerType": "string",
      "ResourceUris": [
         {
            "ResourceType": "string",
            "Uri": "string"
         }
      ]
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog in which to create the function. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the catalog database in which to create the function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

FunctionInput

A `FunctionInput` object that defines the function to create in the Data Catalog.

Type: UserDefinedFunctionInput object

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateWorkflow

Creates a new workflow.

Request Syntax

```
{
   "DefaultRunProperties": {
      "string" : "string"
   },
   "Description": "string",
   "MaxConcurrentRuns": number,
   "Name": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

DefaultRunProperties

A collection of properties to be used as part of each execution of the workflow.

Run properties may be logged. Do not pass plaintext secrets as properties. Retrieve secrets from a AWS Glue Connection, AWS Secrets Manager or other secret management mechanism if you intend to use them within the workflow run.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Description

A description of the workflow.

Type: String

Length Constraints: Maximum length of 120000.

Required: No

MaxConcurrentRuns

You can use this parameter to prevent unwanted multiple updates to data, to control costs, or in some cases, to prevent exceeding the maximum number of concurrent runs of any of the component jobs. If you leave this parameter blank, there is no limit to the number of concurrent workflow runs.

Type: Integer

Required: No

Name

The name to be assigned to the workflow. It should be unique within your account.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Tags

The tags to be used with this workflow.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
```

```
    "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Name

The name of the workflow which was provided as part of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteBlueprint

Deletes an existing blueprint.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the blueprint to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Name

Returns the name of the blueprint that was deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteCatalog

Removes the specified catalog from the AWS Glue Data Catalog.

After completing this operation, you no longer have access to the databases, tables (and all table versions and partitions that might belong to the tables) and the user-defined functions in the deleted catalog. AWS Glue deletes these "orphaned" resources asynchronously in a timely manner, at the discretion of the service.

To ensure the immediate deletion of all related resources before calling the `DeleteCatalog` operation, use `DeleteTableVersion` (or `BatchDeleteTableVersion`), `DeletePartition` (or `BatchDeletePartition`), `DeleteTable` (or `BatchDeleteTable`), `DeleteUserDefinedFunction` and `DeleteDatabase` to delete any resources that belong to the catalog.

Request Syntax

```
{
   "CatalogId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteClassifier

Removes a classifier from the Data Catalog.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

Name of the classifier to remove.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteColumnStatisticsForPartition

Delete the partition column statistics of a column.

The Identity and Access Management (IAM) permission required for this operation is `DeletePartition`.

Request Syntax

```
{
   "CatalogId": "string",
   "ColumnName": "string",
   "DatabaseName": "string",
   "PartitionValues": [ "string" ],
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the partitions in question reside. If none is supplied, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ColumnName

Name of the column.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

DatabaseName

The name of the catalog database where the partitions reside.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

PartitionValues

A list of partition values identifying the partition.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

TableName

The name of the partitions' table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteColumnStatisticsForTable

Retrieves table statistics of columns.

The Identity and Access Management (IAM) permission required for this operation is `DeleteTable`.

Request Syntax

```
{
   "CatalogId": "string",
   "ColumnName": "string",
   "DatabaseName": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the partitions in question reside. If none is supplied, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ColumnName

The name of the column.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

DatabaseName

The name of the catalog database where the partitions reside.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the partitions' table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteColumnStatisticsTaskSettings

Deletes settings for a column statistics task.

Request Syntax

```
{
   "DatabaseName": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

DatabaseName

The name of the database where the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the table for which to delete column statistics.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteConnection

Deletes a connection from the Data Catalog.

Request Syntax

```
{
   "CatalogId": "string",
   "ConnectionName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog in which the connection resides. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ConnectionName

The name of the connection to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteConnectionType

Deletes a custom connection type in AWS Glue.

The connection type must exist and be registered before it can be deleted. This operation supports cleanup of connection type resources and helps maintain proper lifecycle management of custom connection types.

Request Syntax

```
{
   "ConnectionType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ConnectionType

The name of the connection type to delete. Must reference an existing registered connection type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteCrawler

Removes a specified crawler from the AWS Glue Data Catalog, unless the crawler state is RUNNING.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the crawler to remove.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

CrawlerRunningException

The operation cannot be performed because the crawler is already running.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

SchedulerTransitioningException

The specified scheduler is transitioning.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteCustomEntityType

Deletes a custom pattern by specifying its name.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the custom pattern that you want to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Name

The name of the custom pattern you deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteDatabase

Removes a specified database from a Data Catalog.

> **Note**
>
> After completing this operation, you no longer have access to the tables (and all table versions and partitions that might belong to the tables) and the user-defined functions in the deleted database. AWS Glue deletes these "orphaned" resources asynchronously in a timely manner, at the discretion of the service.
> To ensure the immediate deletion of all related resources, before calling `DeleteDatabase`, use `DeleteTableVersion` or `BatchDeleteTableVersion`, `DeletePartition` or `BatchDeletePartition`, `DeleteUserDefinedFunction`, and `DeleteTable` or `BatchDeleteTable`, to delete any resources that belong to the database.

Request Syntax

```
{
   "CatalogId": "string",
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog in which the database resides. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Name

The name of the database to delete. For Hive compatibility, this must be all lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteDataQualityRuleset

Deletes a data quality ruleset.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

A name for the data quality ruleset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteDevEndpoint

Deletes a specified development endpoint.

Request Syntax

```
{
   "EndpointName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

EndpointName

The name of the `DevEndpoint`.

Type: String

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteGlueIdentityCenterConfiguration

Deletes the existing AWS Glue Identity Center configuration, removing the integration between AWS Glue and AWS IAM Identity Center.

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteIntegration

Deletes the specified Zero-ETL integration.

Request Syntax

```
{
   "IntegrationIdentifier": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

IntegrationIdentifier

The Amazon Resource Name (ARN) for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Response Syntax

```
{
   "AdditionalEncryptionContext": {
      "string" : "string"
   },
   "CreateTime": number,
   "DataFilter": "string",
   "Description": "string",
   "Errors": [
      {
         "ErrorCode": "string",
         "ErrorMessage": "string"
      }
```

```
    ],
    "IntegrationArn": "string",
    "IntegrationName": "string",
    "KmsKeyId": "string",
    "SourceArn": "string",
    "Status": "string",
    "Tags": [
       {
          "key": "string",
          "value": "string"
       }
    ],
    "TargetArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AdditionalEncryptionContext

An optional set of non-secret key–value pairs that contains additional contextual information for encryption.

Type: String to string map

CreateTime

The time when the integration was created, in UTC.

Type: Timestamp

DataFilter

Selects source tables for the integration using Maxwell filter syntax.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Description

A description of the integration.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\S\s]*`

Errors

A list of errors associated with the integration.

Type: Array of IntegrationError objects

IntegrationArn

The Amazon Resource Name (ARN) for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

IntegrationName

A unique name for an integration in AWS Glue.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

KmsKeyId

The ARN of a KMS key used for encrypting the channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

SourceArn

The ARN of the source for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Status

The status of the integration being deleted.

The possible statuses are:

- CREATING: The integration is being created.
- ACTIVE: The integration creation succeeds.
- MODIFYING: The integration is being modified.
- FAILED: The integration creation fails.
- DELETING: The integration is deleted.
- SYNCING: The integration is synchronizing.
- NEEDS_ATTENTION: The integration needs attention, such as synchronization.

Type: String

Valid Values: `CREATING | ACTIVE | MODIFYING | FAILED | DELETING | SYNCING | NEEDS_ATTENTION`

Tags

Metadata assigned to the resource consisting of a list of key-value pairs.

Type: Array of Tag objects

TargetArn

The ARN of the target for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConflictException

The `CreatePartitions` API was called on a table that has indexes enabled.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

IntegrationConflictOperationFault

The requested operation conflicts with another operation.

Message

A message describing the problem.

HTTP Status Code: 400

IntegrationNotFoundFault

The specified integration could not be found.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServerException

An internal server error occurred.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidIntegrationStateFault

The integration is in an invalid state.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidStateException

An error that indicates your data is in an invalid state.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteIntegrationResourceProperty

This API is used for deleting the `ResourceProperty` of the AWS Glue connection (for the source) or AWS Glue database ARN (for the target).

Request Syntax

```
{
   "ResourceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ResourceArn

The connection ARN of the source, or the database ARN of the target.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServerException

An internal server error occurred.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteIntegrationTableProperties

Deletes the table properties that have been created for the tables that need to be replicated.

Request Syntax

```
{
   "ResourceArn": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ResourceArn

The connection ARN of the source, or the database ARN of the target.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

TableName

The name of the table to be replicated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServerException

An internal server error occurred.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteJob

Deletes a specified job definition. If the job definition is not found, no exception is thrown.

Request Syntax

```
{
   "JobName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

JobName

The name of the job definition to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "JobName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

JobName

The name of the job definition that was deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteMLTransform

Deletes an AWS Glue machine learning transform. Machine learning transforms are a special type of transform that use machine learning to learn the details of the transformation to be performed by learning from examples provided by humans. These transformations are then saved by AWS Glue. If you no longer need a transform, you can delete it by calling `DeleteMLTransforms`. However, any AWS Glue jobs that still reference the deleted transform will no longer succeed.

Request Syntax

```
{
   "TransformId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

TransformId

The unique identifier of the transform to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "TransformId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

TransformId

The unique identifier of the transform that was deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeletePartition

Deletes a specified partition.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "PartitionValues": [ "string" ],
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the partition to be deleted resides. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the catalog database in which the table in question resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

PartitionValues

The values that define the partition.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

TableName

The name of the table that contains the partition to be deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeletePartitionIndex

Deletes a specified partition index from an existing table.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "IndexName": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The catalog ID where the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

Specifies the name of a database from which you want to delete a partition index.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

IndexName

The name of the partition index to be deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

Specifies the name of a table from which you want to delete a partition index.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

ConflictException

The `CreatePartitions` API was called on a table that has indexes enabled.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteRegistry

Delete the entire registry including schema and all of its versions. To get the status of the delete operation, you can call the `GetRegistry` API after the asynchronous call. Deleting a registry will deactivate all online operations for the registry such as the `UpdateRegistry`, `CreateSchema`, `UpdateSchema`, and `RegisterSchemaVersion` APIs.

Request Syntax

```
{
   "RegistryId": {
      "RegistryArn": "string",
      "RegistryName": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

RegistryId

This is a wrapper structure that may contain the registry name and Amazon Resource Name (ARN).

Type: RegistryId object

Required: Yes

Response Syntax

```
{
   "RegistryArn": "string",
   "RegistryName": "string",
   "Status": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

RegistryArn

The Amazon Resource Name (ARN) of the registry being deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

RegistryName

The name of the registry being deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

Status

The status of the registry. A successful operation will return the `Deleting` status.

Type: String

Valid Values: `AVAILABLE | DELETING`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteResourcePolicy

Deletes a specified policy.

Request Syntax

```
{
   "PolicyHashCondition": "string",
   "ResourceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

PolicyHashCondition

The hash value returned when this policy was set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ResourceArn

The ARN of the AWS Glue resource for the resource policy to be deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

ConditionCheckFailureException

A specified condition was not satisfied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteSchema

Deletes the entire schema set, including the schema set and all of its versions. To get the status of the delete operation, you can call `GetSchema` API after the asynchronous call. Deleting a registry will deactivate all online operations for the schema, such as the `GetSchemaByDefinition`, and `RegisterSchemaVersion` APIs.

Request Syntax

```
{
   "SchemaId": {
      "RegistryName": "string",
      "SchemaArn": "string",
      "SchemaName": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

SchemaId

This is a wrapper structure that may contain the schema name and Amazon Resource Name (ARN).

Type: SchemaId object

Required: Yes

Response Syntax

```
{
   "SchemaArn": "string",
   "SchemaName": "string",
   "Status": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

SchemaArn

The Amazon Resource Name (ARN) of the schema being deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

SchemaName

The name of the schema being deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

Status

The status of the schema.

Type: String

Valid Values: `AVAILABLE | PENDING | DELETING`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteSchemaVersions

Remove versions from the specified schema. A version number or range may be supplied. If the compatibility mode forbids deleting of a version that is necessary, such as BACKWARDS_FULL, an error is returned. Calling the `GetSchemaVersions` API after this call will list the status of the deleted versions.

When the range of version numbers contain check pointed version, the API will return a 409 conflict and will not proceed with the deletion. You have to remove the checkpoint first using the `DeleteSchemaCheckpoint` API before using this API.

You cannot use the `DeleteSchemaVersions` API to delete the first schema version in the schema set. The first schema version can only be deleted by the `DeleteSchema` API. This operation will also delete the attached `SchemaVersionMetadata` under the schema versions. Hard deletes will be enforced on the database.

If the compatibility mode forbids deleting of a version that is necessary, such as BACKWARDS_FULL, an error is returned.

Request Syntax

```
{
   "SchemaId": {
      "RegistryName": "string",
      "SchemaArn": "string",
      "SchemaName": "string"
   },
   "Versions": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

SchemaId

This is a wrapper structure that may contain the schema name and Amazon Resource Name (ARN).

Type: SchemaId object

Required: Yes

Versions

A version range may be supplied which may be of the format:

- a single version number, 5
- a range, 5-8 : deletes versions 5, 6, 7, 8

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100000.

Pattern: `[1-9][0-9]*|[1-9][0-9]*-[1-9][0-9]*`

Required: Yes

Response Syntax

```
{
   "SchemaVersionErrors": [
      {
         "ErrorDetails": {
            "ErrorCode": "string",
            "ErrorMessage": "string"
         },
         "VersionNumber": number
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

SchemaVersionErrors

A list of `SchemaVersionErrorItem` objects, each containing an error and schema version.

Type: Array of SchemaVersionErrorItem objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteSecurityConfiguration

Deletes a specified security configuration.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the security configuration to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteSession

Deletes the session.

Request Syntax

```
{
   "Id": "string",
   "RequestOrigin": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Id

The ID of the session to be deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

RequestOrigin

The name of the origin of the delete session request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: No

Response Syntax

```
{
   "Id": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Id

Returns the ID of the deleted session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

IllegalSessionStateException

The session is in an invalid state to perform a requested operation.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteTable

Removes a table definition from the Data Catalog.

> **Note**
>
> After completing this operation, you no longer have access to the table versions and partitions that belong to the deleted table. AWS Glue deletes these "orphaned" resources asynchronously in a timely manner, at the discretion of the service.
> To ensure the immediate deletion of all related resources, before calling `DeleteTable`, use `DeleteTableVersion` or `BatchDeleteTableVersion`, and `DeletePartition` or `BatchDeletePartition`, to delete any resources that belong to the table.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "Name": "string",
   "TransactionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the table resides. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the catalog database in which the table resides. For Hive compatibility, this name is entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Name

The name of the table to be deleted. For Hive compatibility, this name is entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TransactionId

The transaction ID at which to delete the table contents.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}\p{N}\p{P}]*`

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNotReadyException

A resource was not ready for a transaction.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteTableOptimizer

Deletes an optimizer and all associated metadata for a table. The optimization will no longer be performed on the table.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "TableName": "string",
   "Type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The Catalog ID of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

DatabaseName

The name of the database in the catalog in which the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Type

The type of table optimizer.

Type: String

Valid Values: `compaction | retention | orphan_file_deletion`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ThrottlingException

The throttling threshhold was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteTableVersion

Deletes a specified version of a table.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "TableName": "string",
   "VersionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the tables reside. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The database in the catalog in which the table resides. For Hive compatibility, this name is entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the table. For Hive compatibility, this name is entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

VersionId

The ID of the table version to be deleted. A `VersionID` is a string representation of an integer. Each version is incremented by 1.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteTrigger

Deletes a specified trigger. If the trigger is not found, no exception is thrown.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the trigger to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Name

The name of the trigger that was deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteUsageProfile

Deletes the AWS Glue specified usage profile.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the usage profile to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationNotSupportedException

The operation is not available in the region.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteUserDefinedFunction

Deletes an existing function definition from the Data Catalog.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "FunctionName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the function to be deleted is located. If none is supplied, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the catalog database where the function is located.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

FunctionName

The name of the function definition to be deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteWorkflow

Deletes a workflow.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

Name of the workflow to be deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Name

Name of the workflow specified in input.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeConnectionType

The DescribeConnectionType API provides full details of the supported options for a given connection type in AWS Glue. The response includes authentication configuration details that show supported authentication types and properties, and RestConfiguration for custom REST-based connection types registered via RegisterConnectionType.

See also: ListConnectionTypes, RegisterConnectionType, DeleteConnectionType

Request Syntax

```
{
   "ConnectionType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ConnectionType

The name of the connection type to be described.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: Yes

Response Syntax

```
{
   "AthenaConnectionProperties": {
      "string" : {
         "AllowedValues": [
            {
               "Description": "string",
```

```
            "Value": "string"
         }
      ],
      "DataOperationScopes": [ "string" ],
      "DefaultValue": "string",
      "Description": "string",
      "KeyOverride": "string",
      "Name": "string",
      "PropertyLocation": "string",
      "PropertyTypes": [ "string" ],
      "Required": boolean
   }
},
"AuthenticationConfiguration": {
   "AuthenticationType": {
      "AllowedValues": [
         {
            "Description": "string",
            "Value": "string"
         }
      ],
      "DataOperationScopes": [ "string" ],
      "DefaultValue": "string",
      "Description": "string",
      "KeyOverride": "string",
      "Name": "string",
      "PropertyLocation": "string",
      "PropertyTypes": [ "string" ],
      "Required": boolean
   },
   "BasicAuthenticationProperties": {
      "string" : {
         "AllowedValues": [
            {
               "Description": "string",
               "Value": "string"
            }
         ],
         "DataOperationScopes": [ "string" ],
         "DefaultValue": "string",
         "Description": "string",
         "KeyOverride": "string",
         "Name": "string",
         "PropertyLocation": "string",
```

```
            "PropertyTypes": [ "string" ],
            "Required": boolean
         }
      },
      "CustomAuthenticationProperties": {
         "string" : {
            "AllowedValues": [
               {
                  "Description": "string",
                  "Value": "string"
               }
            ],
            "DataOperationScopes": [ "string" ],
            "DefaultValue": "string",
            "Description": "string",
            "KeyOverride": "string",
            "Name": "string",
            "PropertyLocation": "string",
            "PropertyTypes": [ "string" ],
            "Required": boolean
         }
      },
      "OAuth2Properties": {
         "string" : {
            "AllowedValues": [
               {
                  "Description": "string",
                  "Value": "string"
               }
            ],
            "DataOperationScopes": [ "string" ],
            "DefaultValue": "string",
            "Description": "string",
            "KeyOverride": "string",
            "Name": "string",
            "PropertyLocation": "string",
            "PropertyTypes": [ "string" ],
            "Required": boolean
         }
      },
      "SecretArn": {
         "AllowedValues": [
            {
               "Description": "string",
```

```
                "Value": "string"
            }
        ],
        "DataOperationScopes": [ "string" ],
        "DefaultValue": "string",
        "Description": "string",
        "KeyOverride": "string",
        "Name": "string",
        "PropertyLocation": "string",
        "PropertyTypes": [ "string" ],
        "Required": boolean
    }
},
"Capabilities": {
    "SupportedAuthenticationTypes": [ "string" ],
    "SupportedComputeEnvironments": [ "string" ],
    "SupportedDataOperations": [ "string" ]
},
"ComputeEnvironmentConfigurations": {
    "string" : {
        "ComputeEnvironment": "string",
        "ConnectionOptionNameOverrides": {
            "string" : "string"
        },
        "ConnectionOptions": {
            "string" : {
                "AllowedValues": [
                    {
                        "Description": "string",
                        "Value": "string"
                    }
                ],
                "DataOperationScopes": [ "string" ],
                "DefaultValue": "string",
                "Description": "string",
                "KeyOverride": "string",
                "Name": "string",
                "PropertyLocation": "string",
                "PropertyTypes": [ "string" ],
                "Required": boolean
            }
        },
        "ConnectionPropertiesRequiredOverrides": [ "string" ],
        "ConnectionPropertyNameOverrides": {
```

```
            "string" : "string"
         },
         "Description": "string",
         "Name": "string",
         "PhysicalConnectionPropertiesRequired": boolean,
         "SupportedAuthenticationTypes": [ "string" ]
      }
   },
   "ConnectionOptions": {
      "string" : {
         "AllowedValues": [
            {
               "Description": "string",
               "Value": "string"
            }
         ],
         "DataOperationScopes": [ "string" ],
         "DefaultValue": "string",
         "Description": "string",
         "KeyOverride": "string",
         "Name": "string",
         "PropertyLocation": "string",
         "PropertyTypes": [ "string" ],
         "Required": boolean
      }
   },
   "ConnectionProperties": {
      "string" : {
         "AllowedValues": [
            {
               "Description": "string",
               "Value": "string"
            }
         ],
         "DataOperationScopes": [ "string" ],
         "DefaultValue": "string",
         "Description": "string",
         "KeyOverride": "string",
         "Name": "string",
         "PropertyLocation": "string",
         "PropertyTypes": [ "string" ],
         "Required": boolean
      }
   },
```

```
   "ConnectionType": "string",
   "Description": "string",
   "PhysicalConnectionRequirements": {
      "string" : {
         "AllowedValues": [
            {
               "Description": "string",
               "Value": "string"
            }
         ],
         "DataOperationScopes": [ "string" ],
         "DefaultValue": "string",
         "Description": "string",
         "KeyOverride": "string",
         "Name": "string",
         "PropertyLocation": "string",
         "PropertyTypes": [ "string" ],
         "Required": boolean
      }
   },
   "PythonConnectionProperties": {
      "string" : {
         "AllowedValues": [
            {
               "Description": "string",
               "Value": "string"
            }
         ],
         "DataOperationScopes": [ "string" ],
         "DefaultValue": "string",
         "Description": "string",
         "KeyOverride": "string",
         "Name": "string",
         "PropertyLocation": "string",
         "PropertyTypes": [ "string" ],
         "Required": boolean
      }
   },
   "RestConfiguration": {
      "EntityConfigurations": {
         "string" : {
            "Schema": {
               "string" : {
                  "FieldDataType": "string",
```

```
            "Name": "string"
         }
      },
      "SourceConfiguration": {
         "PaginationConfiguration": {
            "CursorConfiguration": {
               "LimitParameter": {
                  "DefaultValue": "string",
                  "Key": "string",
                  "PropertyLocation": "string",
                  "Value": {
                     "ContentPath": "string",
                     "HeaderKey": "string"
                  }
               },
               "NextPage": {
                  "DefaultValue": "string",
                  "Key": "string",
                  "PropertyLocation": "string",
                  "Value": {
                     "ContentPath": "string",
                     "HeaderKey": "string"
                  }
               }
            },
            "OffsetConfiguration": {
               "LimitParameter": {
                  "DefaultValue": "string",
                  "Key": "string",
                  "PropertyLocation": "string",
                  "Value": {
                     "ContentPath": "string",
                     "HeaderKey": "string"
                  }
               },
               "OffsetParameter": {
                  "DefaultValue": "string",
                  "Key": "string",
                  "PropertyLocation": "string",
                  "Value": {
                     "ContentPath": "string",
                     "HeaderKey": "string"
                  }
               }
```

```
                }
            },
            "RequestMethod": "string",
            "RequestParameters": [
               {
                  "AllowedValues": [ "string" ],
                  "DefaultValue": "string",
                  "KeyOverride": "string",
                  "Name": "string",
                  "PropertyLocation": "string",
                  "PropertyType": "string",
                  "Required": boolean
               }
            ],
            "RequestPath": "string",
            "ResponseConfiguration": {
               "ErrorPath": "string",
               "ResultPath": "string"
            }
         }
      }
   },
   "GlobalSourceConfiguration": {
      "PaginationConfiguration": {
         "CursorConfiguration": {
            "LimitParameter": {
               "DefaultValue": "string",
               "Key": "string",
               "PropertyLocation": "string",
               "Value": {
                  "ContentPath": "string",
                  "HeaderKey": "string"
               }
            },
            "NextPage": {
               "DefaultValue": "string",
               "Key": "string",
               "PropertyLocation": "string",
               "Value": {
                  "ContentPath": "string",
                  "HeaderKey": "string"
               }
            }
         },
```

```
            "OffsetConfiguration": {
               "LimitParameter": {
                  "DefaultValue": "string",
                  "Key": "string",
                  "PropertyLocation": "string",
                  "Value": {
                     "ContentPath": "string",
                     "HeaderKey": "string"
                  }
               },
               "OffsetParameter": {
                  "DefaultValue": "string",
                  "Key": "string",
                  "PropertyLocation": "string",
                  "Value": {
                     "ContentPath": "string",
                     "HeaderKey": "string"
                  }
               }
            }
         },
         "RequestMethod": "string",
         "RequestParameters": [
            {
               "AllowedValues": [ "string" ],
               "DefaultValue": "string",
               "KeyOverride": "string",
               "Name": "string",
               "PropertyLocation": "string",
               "PropertyType": "string",
               "Required": boolean
            }
         ],
         "RequestPath": "string",
         "ResponseConfiguration": {
            "ErrorPath": "string",
            "ResultPath": "string"
         }
      },
      "ValidationEndpointConfiguration": {
         "PaginationConfiguration": {
            "CursorConfiguration": {
               "LimitParameter": {
                  "DefaultValue": "string",
```

```
            "Key": "string",
            "PropertyLocation": "string",
            "Value": {
               "ContentPath": "string",
               "HeaderKey": "string"
            }
         },
         "NextPage": {
            "DefaultValue": "string",
            "Key": "string",
            "PropertyLocation": "string",
            "Value": {
               "ContentPath": "string",
               "HeaderKey": "string"
            }
         }
      },
      "OffsetConfiguration": {
         "LimitParameter": {
            "DefaultValue": "string",
            "Key": "string",
            "PropertyLocation": "string",
            "Value": {
               "ContentPath": "string",
               "HeaderKey": "string"
            }
         },
         "OffsetParameter": {
            "DefaultValue": "string",
            "Key": "string",
            "PropertyLocation": "string",
            "Value": {
               "ContentPath": "string",
               "HeaderKey": "string"
            }
         }
      }
   },
   "RequestMethod": "string",
   "RequestParameters": [
      {
         "AllowedValues": [ "string" ],
         "DefaultValue": "string",
         "KeyOverride": "string",
```

```
                "Name": "string",
                "PropertyLocation": "string",
                "PropertyType": "string",
                "Required": boolean
             }
          ],
          "RequestPath": "string",
          "ResponseConfiguration": {
             "ErrorPath": "string",
             "ResultPath": "string"
          }
       }
    },
    "SparkConnectionProperties": {
       "string" : {
          "AllowedValues": [
             {
                "Description": "string",
                "Value": "string"
             }
          ],
          "DataOperationScopes": [ "string" ],
          "DefaultValue": "string",
          "Description": "string",
          "KeyOverride": "string",
          "Name": "string",
          "PropertyLocation": "string",
          "PropertyTypes": [ "string" ],
          "Required": boolean
       }
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AthenaConnectionProperties

Connection properties specific to the Athena compute environment.

Type: String to Property object map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

AuthenticationConfiguration

The type of authentication used for the connection.

Type: AuthConfiguration object

Capabilities

The supported authentication types, data interface types (compute environments), and data operations of the connector.

Type: Capabilities object

ComputeEnvironmentConfigurations

The compute environments that are supported by the connection.

Type: String to ComputeEnvironmentConfiguration object map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

ConnectionOptions

Returns properties that can be set when creating a connection in the `ConnectionInput.ConnectionProperties`. `ConnectionOptions` defines parameters that can be set in a Spark ETL script in the connection options map passed to a dataframe.

Type: String to Property object map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

ConnectionProperties

Connection properties which are common across compute environments.

Type: String to Property object map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

ConnectionType

The name of the connection type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Description

A description of the connection type.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

PhysicalConnectionRequirements

Physical requirements for a connection, such as VPC, Subnet and Security Group specifications.

Type: String to Property object map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

PythonConnectionProperties

Connection properties specific to the Python compute environment.

Type: String to Property object map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

RestConfiguration

HTTP request and response configuration, validation endpoint, and entity configurations for REST based data source.

Type: RestConfiguration object

SparkConnectionProperties

Connection properties specific to the Spark compute environment.

Type: String to Property object map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeEntity

Provides details regarding the entity used with the connection type, with a description of the data model for each field in the selected entity.

The response includes all the fields which make up the entity.

Request Syntax

```
{
   "CatalogId": "string",
   "ConnectionName": "string",
   "DataStoreApiVersion": "string",
   "EntityName": "string",
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The catalog ID of the catalog that contains the connection. This can be null, By default, the AWS Account ID is the catalog ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ConnectionName

The name of the connection that contains the connection type credentials.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

DataStoreApiVersion

The version of the API used for the data store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z0-9.-]*`

Required: No

EntityName

The name of the entity that you want to describe from the connection type.

Type: String

Required: Yes

NextToken

A continuation token, included if this is a continuation call.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[-a-zA-Z0-9+=/:_]*`

Required: No

Response Syntax

```
{
   "Fields": [
      {
         "CustomProperties": {
            "string" : "string"
         },
         "Description": "string",
```

```
            "FieldName": "string",
            "FieldType": "string",
            "IsCreateable": boolean,
            "IsDefaultOnCreate": boolean,
            "IsFilterable": boolean,
            "IsNullable": boolean,
            "IsPartitionable": boolean,
            "IsPrimaryKey": boolean,
            "IsRetrievable": boolean,
            "IsUpdateable": boolean,
            "IsUpsertable": boolean,
            "Label": "string",
            "NativeDataType": "string",
            "ParentField": "string",
            "SupportedFilterOperators": [ "string" ],
            "SupportedValues": [ "string" ]
        }
    ],
    "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Fields

Describes the fields for that connector entity. This is the list of `Field` objects. `Field` is very similar to column in a database. The `Field` object has information about different properties associated with fields in the connector.

Type: Array of Field objects

NextToken

A continuation token, present if the current segment is not the last.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[-a-zA-Z0-9+=/:_]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeInboundIntegrations

Returns a list of inbound integrations for the specified integration.

Request Syntax

```
{
   "IntegrationArn": "string",
   "Marker": "string",
   "MaxRecords": number,
   "TargetArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

IntegrationArn

The Amazon Resource Name (ARN) of the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

Marker

A token to specify where to start paginating. This is the marker from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

MaxRecords

The total number of items to return in the output.

Type: Integer

Required: No

TargetArn

The Amazon Resource Name (ARN) of the target resource in the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

Response Syntax

```
{
   "InboundIntegrations": [
      {
         "CreateTime": number,
         "Errors": [
            {
               "ErrorCode": "string",
               "ErrorMessage": "string"
            }
         ],
         "IntegrationArn": "string",
         "IntegrationConfig": {
            "ContinuousSync": boolean,
            "RefreshInterval": "string",
            "SourceProperties": {
               "string" : "string"
            }
         },
         "SourceArn": "string",
         "Status": "string",
         "TargetArn": "string"
      }
   ],
   "Marker": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

InboundIntegrations

A list of inbound integrations.

Type: Array of InboundIntegration objects

Marker

A value that indicates the starting point for the next set of response records in a subsequent request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

IntegrationNotFoundFault

The specified integration could not be found.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServerException

An internal server error occurred.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationNotSupportedException

The operation is not available in the region.

Message

A message describing the problem.

HTTP Status Code: 400

TargetResourceNotFound

The target resource could not be found.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeIntegrations

The API is used to retrieve a list of integrations.

Request Syntax

```
{
   "Filters": [
      {
         "Name": "string",
         "Values": [ "string" ]
      }
   ],
   "IntegrationIdentifier": "string",
   "Marker": "string",
   "MaxRecords": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Filters

A list of key and values, to filter down the results. Supported keys are "Status", "IntegrationName", and "SourceArn". IntegrationName is limited to only one value.

Type: Array of IntegrationFilter objects

Required: No

IntegrationIdentifier

The Amazon Resource Name (ARN) for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

Marker

A value that indicates the starting point for the next set of response records in a subsequent request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

MaxRecords

The total number of items to return in the output.

Type: Integer

Required: No

Response Syntax

```
{
   "Integrations": [
      {
         "AdditionalEncryptionContext": {
            "string" : "string"
         },
         "CreateTime": number,
         "DataFilter": "string",
         "Description": "string",
         "Errors": [
            {
               "ErrorCode": "string",
               "ErrorMessage": "string"
            }
         ],
         "IntegrationArn": "string",
         "IntegrationConfig": {
            "ContinuousSync": boolean,
            "RefreshInterval": "string",
            "SourceProperties": {
               "string" : "string"
```

```
            }
         },
         "IntegrationName": "string",
         "KmsKeyId": "string",
         "SourceArn": "string",
         "Status": "string",
         "Tags": [
            {
               "key": "string",
               "value": "string"
            }
         ],
         "TargetArn": "string"
      }
   ],
   "Marker": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Integrations

A list of zero-ETL integrations.

Type: Array of Integration objects

Marker

A value that indicates the starting point for the next set of response records in a subsequent request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

IntegrationNotFoundFault

The specified integration could not be found.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServerException

An internal server error occurred.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetBlueprint

Retrieves the details of a blueprint.

Request Syntax

```
{
   "IncludeBlueprint": boolean,
   "IncludeParameterSpec": boolean,
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

IncludeBlueprint

Specifies whether or not to include the blueprint in the response.

Type: Boolean

Required: No

IncludeParameterSpec

Specifies whether or not to include the parameter specification.

Type: Boolean

Required: No

Name

The name of the blueprint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Blueprint": {
      "BlueprintLocation": "string",
      "BlueprintServiceLocation": "string",
      "CreatedOn": number,
      "Description": "string",
      "ErrorMessage": "string",
      "LastActiveDefinition": {
         "BlueprintLocation": "string",
         "BlueprintServiceLocation": "string",
         "Description": "string",
         "LastModifiedOn": number,
         "ParameterSpec": "string"
      },
      "LastModifiedOn": number,
      "Name": "string",
      "ParameterSpec": "string",
      "Status": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Blueprint

Returns a `Blueprint` object.

Type: Blueprint object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetBlueprintRun

Retrieves the details of a blueprint run.

Request Syntax

```
{
   "BlueprintName": "string",
   "RunId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

BlueprintName

The name of the blueprint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: Yes

RunId

The run ID for the blueprint run you want to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "BlueprintRun": {
      "BlueprintName": "string",
      "CompletedOn": number,
      "ErrorMessage": "string",
      "Parameters": "string",
      "RoleArn": "string",
      "RollbackErrorMessage": "string",
      "RunId": "string",
      "StartedOn": number,
      "State": "string",
      "WorkflowName": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

BlueprintRun

Returns a `BlueprintRun` object.

Type: BlueprintRun object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetBlueprintRuns

Retrieves the details of blueprint runs for a specified blueprint.

Request Syntax

```
{
   "BlueprintName": "string",
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

BlueprintName

The name of the blueprint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

MaxResults

The maximum size of a list to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation request.

Type: String

Required: No

Response Syntax

```
{
   "BlueprintRuns": [
      {
         "BlueprintName": "string",
         "CompletedOn": number,
         "ErrorMessage": "string",
         "Parameters": "string",
         "RoleArn": "string",
         "RollbackErrorMessage": "string",
         "RunId": "string",
         "StartedOn": number,
         "State": "string",
         "WorkflowName": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

BlueprintRuns

Returns a list of `BlueprintRun` objects.

Type: Array of BlueprintRun objects

NextToken

A continuation token, if not all blueprint runs have been returned.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetCatalog

The name of the Catalog to retrieve. This should be all lowercase.

Request Syntax

```
{
   "CatalogId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the parent catalog in which the catalog resides. If none is provided, the AWS Account Number is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Catalog": {
      "AllowFullTableExternalDataAccess": "string",
      "CatalogId": "string",
      "CatalogProperties": {
         "CustomProperties": {
            "string" : "string"
         },
         "DataLakeAccessProperties": {
            "CatalogType": "string",
            "DataLakeAccess": boolean,
```

```
            "DataTransferRole": "string",
            "KmsKey": "string",
            "ManagedWorkgroupName": "string",
            "ManagedWorkgroupStatus": "string",
            "RedshiftDatabaseName": "string",
            "StatusMessage": "string"
         },
         "IcebergOptimizationProperties": {
            "Compaction": {
               "string" : "string"
            },
            "LastUpdatedTime": number,
            "OrphanFileDeletion": {
               "string" : "string"
            },
            "Retention": {
               "string" : "string"
            },
            "RoleArn": "string"
         }
      },
      "CreateDatabaseDefaultPermissions": [
         {
            "Permissions": [ "string" ],
            "Principal": {
               "DataLakePrincipalIdentifier": "string"
            }
         }
      ],
      "CreateTableDefaultPermissions": [
         {
            "Permissions": [ "string" ],
            "Principal": {
               "DataLakePrincipalIdentifier": "string"
            }
         }
      ],
      "CreateTime": number,
      "Description": "string",
      "FederatedCatalog": {
         "ConnectionName": "string",
         "ConnectionType": "string",
         "Identifier": "string"
      },
```

```
      "Name": "string",
      "Parameters": {
         "string" : "string"
      },
      "ResourceArn": "string",
      "TargetRedshiftCatalog": {
         "CatalogArn": "string"
      },
      "UpdateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Catalog

A `Catalog` object. The definition of the specified catalog in the AWS Glue Data Catalog.

Type: Catalog object

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetCatalogImportStatus

Retrieves the status of a migration operation.

Request Syntax

```
{
   "CatalogId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the catalog to migrate. Currently, this should be the AWS account ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Response Syntax

```
{
   "ImportStatus": {
      "ImportCompleted": boolean,
      "ImportedBy": "string",
      "ImportTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ImportStatus

The status of the specified catalog migration.

Type: CatalogImportStatus object

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetCatalogs

Retrieves all catalogs defined in a catalog in the AWS Glue Data Catalog. For a Redshift-federated catalog use case, this operation returns the list of catalogs mapped to Redshift databases in the Redshift namespace catalog.

Request Syntax

```
{
   "IncludeRoot": boolean,
   "MaxResults": number,
   "NextToken": "string",
   "ParentCatalogId": "string",
   "Recursive": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

IncludeRoot

Whether to list the default catalog in the account and region in the response. Defaults to `false`. When `true` and `ParentCatalogId = NULL | AWS Account ID`, all catalogs and the default catalog are enumerated in the response.

When the `ParentCatalogId` is not equal to null, and this attribute is passed as `false` or `true`, an `InvalidInputException` is thrown.

Type: Boolean

Required: No

MaxResults

The maximum number of catalogs to return in one response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

ParentCatalogId

The ID of the parent catalog in which the catalog resides. If none is provided, the AWS Account Number is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Recursive

Whether to list all catalogs across the catalog hierarchy, starting from the `ParentCatalogId`. Defaults to `false` . When `true`, all catalog objects in the `ParentCatalogID` hierarchy are enumerated in the response.

Type: Boolean

Required: No

Response Syntax

```
{
   "CatalogList": [
      {
         "AllowFullTableExternalDataAccess": "string",
         "CatalogId": "string",
         "CatalogProperties": {
            "CustomProperties": {
               "string" : "string"
            },
            "DataLakeAccessProperties": {
```

```
            "CatalogType": "string",
            "DataLakeAccess": boolean,
            "DataTransferRole": "string",
            "KmsKey": "string",
            "ManagedWorkgroupName": "string",
            "ManagedWorkgroupStatus": "string",
            "RedshiftDatabaseName": "string",
            "StatusMessage": "string"
         },
         "IcebergOptimizationProperties": {
            "Compaction": {
               "string" : "string"
            },
            "LastUpdatedTime": number,
            "OrphanFileDeletion": {
               "string" : "string"
            },
            "Retention": {
               "string" : "string"
            },
            "RoleArn": "string"
         }
      },
      "CreateDatabaseDefaultPermissions": [
         {
            "Permissions": [ "string" ],
            "Principal": {
               "DataLakePrincipalIdentifier": "string"
            }
         }
      ],
      "CreateTableDefaultPermissions": [
         {
            "Permissions": [ "string" ],
            "Principal": {
               "DataLakePrincipalIdentifier": "string"
            }
         }
      ],
      "CreateTime": number,
      "Description": "string",
      "FederatedCatalog": {
         "ConnectionName": "string",
         "ConnectionType": "string",
```

```
            "Identifier": "string"
         },
         "Name": "string",
         "Parameters": {
            "string" : "string"
         },
         "ResourceArn": "string",
         "TargetRedshiftCatalog": {
            "CatalogArn": "string"
         },
         "UpdateTime": number
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CatalogList

An array of `Catalog` objects. A list of `Catalog` objects from the specified parent catalog.

Type: Array of Catalog objects

NextToken

A continuation token for paginating the returned list of tokens, returned if the current segment of the list is not the last.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetClassifier

Retrieve a classifier by name.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

Name of the classifier to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: Yes

Response Syntax

```
{
   "Classifier": {
      "CsvClassifier": {
         "AllowSingleColumn": boolean,
         "ContainsHeader": "string",
         "CreationTime": number,
         "CustomDatatypeConfigured": boolean,
         "CustomDatatypes": [ "string" ],
         "Delimiter": "string",
         "DisableValueTrimming": boolean,
```

```
            "Header": [ "string" ],
            "LastUpdated": number,
            "Name": "string",
            "QuoteSymbol": "string",
            "Serde": "string",
            "Version": number
        },
        "GrokClassifier": {
            "Classification": "string",
            "CreationTime": number,
            "CustomPatterns": "string",
            "GrokPattern": "string",
            "LastUpdated": number,
            "Name": "string",
            "Version": number
        },
        "JsonClassifier": {
            "CreationTime": number,
            "JsonPath": "string",
            "LastUpdated": number,
            "Name": "string",
            "Version": number
        },
        "XMLClassifier": {
            "Classification": "string",
            "CreationTime": number,
            "LastUpdated": number,
            "Name": "string",
            "RowTag": "string",
            "Version": number
        }
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Classifier

The requested classifier.

Type: Classifier object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetClassifiers

Lists all classifier objects in the Data Catalog.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The size of the list to return (optional).

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

An optional continuation token.

Type: String

Required: No

Response Syntax

```
{
   "Classifiers": [
      {
         "CsvClassifier": {
            "AllowSingleColumn": boolean,
            "ContainsHeader": "string",
```

```
            "CreationTime": number,
            "CustomDatatypeConfigured": boolean,
            "CustomDatatypes": [ "string" ],
            "Delimiter": "string",
            "DisableValueTrimming": boolean,
            "Header": [ "string" ],
            "LastUpdated": number,
            "Name": "string",
            "QuoteSymbol": "string",
            "Serde": "string",
            "Version": number
         },
         "GrokClassifier": {
            "Classification": "string",
            "CreationTime": number,
            "CustomPatterns": "string",
            "GrokPattern": "string",
            "LastUpdated": number,
            "Name": "string",
            "Version": number
         },
         "JsonClassifier": {
            "CreationTime": number,
            "JsonPath": "string",
            "LastUpdated": number,
            "Name": "string",
            "Version": number
         },
         "XMLClassifier": {
            "Classification": "string",
            "CreationTime": number,
            "LastUpdated": number,
            "Name": "string",
            "RowTag": "string",
            "Version": number
         }
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Classifiers

The requested list of classifier objects.

Type: Array of Classifier objects

NextToken

A continuation token.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetColumnStatisticsForPartition

Retrieves partition statistics of columns.

The Identity and Access Management (IAM) permission required for this operation is `GetPartition`.

Request Syntax

```
{
   "CatalogId": "string",
   "ColumnNames": [ "string" ],
   "DatabaseName": "string",
   "PartitionValues": [ "string" ],
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the partitions in question reside. If none is supplied, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ColumnNames

A list of the column names.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: Yes

DatabaseName

The name of the catalog database where the partitions reside.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: Yes

PartitionValues

A list of partition values identifying the partition.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

TableName

The name of the partitions' table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: Yes

Response Syntax

```
{
   "ColumnStatisticsList": [
      {
         "AnalyzedTime": number,
         "ColumnName": "string",
```

```
      "ColumnType": "string",
      "StatisticsData": {
         "BinaryColumnStatisticsData": {
            "AverageLength": number,
            "MaximumLength": number,
            "NumberOfNulls": number
         },
         "BooleanColumnStatisticsData": {
            "NumberOfFalses": number,
            "NumberOfNulls": number,
            "NumberOfTrues": number
         },
         "DateColumnStatisticsData": {
            "MaximumValue": number,
            "MinimumValue": number,
            "NumberOfDistinctValues": number,
            "NumberOfNulls": number
         },
         "DecimalColumnStatisticsData": {
            "MaximumValue": {
               "Scale": number,
               "UnscaledValue": blob
            },
            "MinimumValue": {
               "Scale": number,
               "UnscaledValue": blob
            },
            "NumberOfDistinctValues": number,
            "NumberOfNulls": number
         },
         "DoubleColumnStatisticsData": {
            "MaximumValue": number,
            "MinimumValue": number,
            "NumberOfDistinctValues": number,
            "NumberOfNulls": number
         },
         "LongColumnStatisticsData": {
            "MaximumValue": number,
            "MinimumValue": number,
            "NumberOfDistinctValues": number,
            "NumberOfNulls": number
         },
         "StringColumnStatisticsData": {
            "AverageLength": number,
```

```
                "MaximumLength": number,
                "NumberOfDistinctValues": number,
                "NumberOfNulls": number
            },
            "Type": "string"
         }
      }
   ],
   "Errors": [
      {
         "ColumnName": "string",
         "Error": {
            "ErrorCode": "string",
            "ErrorMessage": "string"
         }
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ColumnStatisticsList

List of ColumnStatistics that failed to be retrieved.

Type: Array of ColumnStatistics objects

Errors

Error occurred during retrieving column statistics data.

Type: Array of ColumnError objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetColumnStatisticsForTable

Retrieves table statistics of columns.

The Identity and Access Management (IAM) permission required for this operation is `GetTable`.

Request Syntax

```
{
   "CatalogId": "string",
   "ColumnNames": [ "string" ],
   "DatabaseName": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the partitions in question reside. If none is supplied, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ColumnNames

A list of the column names.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

DatabaseName

The name of the catalog database where the partitions reside.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the partitions' table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "ColumnStatisticsList": [
      {
         "AnalyzedTime": number,
         "ColumnName": "string",
         "ColumnType": "string",
         "StatisticsData": {
            "BinaryColumnStatisticsData": {
               "AverageLength": number,
               "MaximumLength": number,
               "NumberOfNulls": number
            },
            "BooleanColumnStatisticsData": {
               "NumberOfFalses": number,
               "NumberOfNulls": number,
               "NumberOfTrues": number
            },
```

```
            "DateColumnStatisticsData": {
               "MaximumValue": number,
               "MinimumValue": number,
               "NumberOfDistinctValues": number,
               "NumberOfNulls": number
            },
            "DecimalColumnStatisticsData": {
               "MaximumValue": {
                  "Scale": number,
                  "UnscaledValue": blob
               },
               "MinimumValue": {
                  "Scale": number,
                  "UnscaledValue": blob
               },
               "NumberOfDistinctValues": number,
               "NumberOfNulls": number
            },
            "DoubleColumnStatisticsData": {
               "MaximumValue": number,
               "MinimumValue": number,
               "NumberOfDistinctValues": number,
               "NumberOfNulls": number
            },
            "LongColumnStatisticsData": {
               "MaximumValue": number,
               "MinimumValue": number,
               "NumberOfDistinctValues": number,
               "NumberOfNulls": number
            },
            "StringColumnStatisticsData": {
               "AverageLength": number,
               "MaximumLength": number,
               "NumberOfDistinctValues": number,
               "NumberOfNulls": number
            },
            "Type": "string"
         }
      }
   ],
   "Errors": [
      {
         "ColumnName": "string",
         "Error": {
```

```
            "ErrorCode": "string",
            "ErrorMessage": "string"
         }
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ColumnStatisticsList

List of ColumnStatistics.

Type: Array of ColumnStatistics objects

Errors

List of ColumnStatistics that failed to be retrieved.

Type: Array of ColumnError objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetColumnStatisticsTaskRun

Get the associated metadata/information for a task run, given a task run ID.

Request Syntax

```
{
   "ColumnStatisticsTaskRunId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ColumnStatisticsTaskRunId

The identifier for the particular column statistics task run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "ColumnStatisticsTaskRun": {
      "CatalogID": "string",
      "ColumnNameList": [ "string" ],
      "ColumnStatisticsTaskRunId": "string",
      "ComputationType": "string",
      "CreationTime": number,
      "CustomerId": "string",
      "DatabaseName": "string",
      "DPUSeconds": number,
```

```
      "EndTime": number,
      "ErrorMessage": "string",
      "LastUpdated": number,
      "NumberOfWorkers": number,
      "Role": "string",
      "SampleSize": number,
      "SecurityConfiguration": "string",
      "StartTime": number,
      "Status": "string",
      "TableName": "string",
      "WorkerType": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ColumnStatisticsTaskRun

A `ColumnStatisticsTaskRun` object representing the details of the column stats run.

Type: ColumnStatisticsTaskRun object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetColumnStatisticsTaskRuns

Retrieves information about all runs associated with the specified table.

Request Syntax

```
{
   "DatabaseName": "string",
   "MaxResults": number,
   "NextToken": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

DatabaseName

The name of the database where the table resides.

Type: String

Required: Yes

MaxResults

The maximum size of the response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

TableName

The name of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "ColumnStatisticsTaskRuns": [
      {
         "CatalogID": "string",
         "ColumnNameList": [ "string" ],
         "ColumnStatisticsTaskRunId": "string",
         "ComputationType": "string",
         "CreationTime": number,
         "CustomerId": "string",
         "DatabaseName": "string",
         "DPUSeconds": number,
         "EndTime": number,
         "ErrorMessage": "string",
         "LastUpdated": number,
         "NumberOfWorkers": number,
         "Role": "string",
         "SampleSize": number,
         "SecurityConfiguration": "string",
         "StartTime": number,
         "Status": "string",
         "TableName": "string",
         "WorkerType": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ColumnStatisticsTaskRuns

A list of column statistics task runs.

Type: Array of ColumnStatisticsTaskRun objects

NextToken

A continuation token, if not all task runs have yet been returned.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetColumnStatisticsTaskSettings

Gets settings for a column statistics task.

Request Syntax

```
{
   "DatabaseName": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

DatabaseName

The name of the database where the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the table for which to retrieve column statistics.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "ColumnStatisticsTaskSettings": {
      "CatalogID": "string",
      "ColumnNameList": [ "string" ],
      "DatabaseName": "string",
      "LastExecutionAttempt": {
         "ColumnStatisticsTaskRunId": "string",
         "ErrorMessage": "string",
         "ExecutionTimestamp": number,
         "Status": "string"
      },
      "Role": "string",
      "SampleSize": number,
      "Schedule": {
         "ScheduleExpression": "string",
         "State": "string"
      },
      "ScheduleType": "string",
      "SecurityConfiguration": "string",
      "SettingSource": "string",
      "TableName": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ColumnStatisticsTaskSettings

A `ColumnStatisticsTaskSettings` object representing the settings for the column statistics task.

Type: ColumnStatisticsTaskSettings object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetConnection

Retrieves a connection definition from the Data Catalog.

Request Syntax

```
{
   "ApplyOverrideForComputeEnvironment": "string",
   "CatalogId": "string",
   "HidePassword": boolean,
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ApplyOverrideForComputeEnvironment

For connections that may be used in multiple services, specifies returning properties for the specified compute environment.

Type: String

Valid Values: SPARK | ATHENA | PYTHON

Required: No

CatalogId

The ID of the Data Catalog in which the connection resides. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: No

HidePassword

Allows you to retrieve the connection metadata without returning the password. For instance, the AWS Glue console uses this flag to retrieve the connection, and does not display the password. Set this parameter when the caller might not have permission to use the AWS KMS key to decrypt the password, but it does have permission to access the rest of the connection properties.

Type: Boolean

Required: No

Name

The name of the connection definition to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Connection": {
      "AthenaProperties": {
         "string" : "string"
      },
      "AuthenticationConfiguration": {
         "AuthenticationType": "string",
         "KmsKeyArn": "string",
         "OAuth2Properties": {
            "OAuth2ClientApplication": {
               "AWSManagedClientApplicationReference": "string",
               "UserManagedClientApplicationClientId": "string"
            },
            "OAuth2GrantType": "string",
            "TokenUrl": "string",
            "TokenUrlParametersMap": {
```

```
                "string" : "string"
            }
         },
         "SecretArn": "string"
      },
      "CompatibleComputeEnvironments": [ "string" ],
      "ConnectionProperties": {
         "string" : "string"
      },
      "ConnectionSchemaVersion": number,
      "ConnectionType": "string",
      "CreationTime": number,
      "Description": "string",
      "LastConnectionValidationTime": number,
      "LastUpdatedBy": "string",
      "LastUpdatedTime": number,
      "MatchCriteria": [ "string" ],
      "Name": "string",
      "PhysicalConnectionRequirements": {
         "AvailabilityZone": "string",
         "SecurityGroupIdList": [ "string" ],
         "SubnetId": "string"
      },
      "PythonProperties": {
         "string" : "string"
      },
      "SparkProperties": {
         "string" : "string"
      },
      "Status": "string",
      "StatusReason": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Connection

The requested connection definition.

Type: Connection object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetConnections

Retrieves a list of connection definitions from the Data Catalog.

Request Syntax

```
{
   "CatalogId": "string",
   "Filter": {
      "ConnectionSchemaVersion": number,
      "ConnectionType": "string",
      "MatchCriteria": [ "string" ]
   },
   "HidePassword": boolean,
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog in which the connections reside. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Filter

A filter that controls which connections are returned.

Type: GetConnectionsFilter object

Required: No

HidePassword

Allows you to retrieve the connection metadata without returning the password. For instance, the AWS Glue console uses this flag to retrieve the connection, and does not display the password. Set this parameter when the caller might not have permission to use the AWS KMS key to decrypt the password, but it does have permission to access the rest of the connection properties.

Type: Boolean

Required: No

MaxResults

The maximum number of connections to return in one response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

Response Syntax

```
{
   "ConnectionList": [
      {
         "AthenaProperties": {
            "string" : "string"
         },
         "AuthenticationConfiguration": {
            "AuthenticationType": "string",
            "KmsKeyArn": "string",
            "OAuth2Properties": {
               "OAuth2ClientApplication": {
                  "AWSManagedClientApplicationReference": "string",
```

```
                  "UserManagedClientApplicationClientId": "string"
               },
               "OAuth2GrantType": "string",
               "TokenUrl": "string",
               "TokenUrlParametersMap": {
                  "string" : "string"
               }
            },
            "SecretArn": "string"
         },
         "CompatibleComputeEnvironments": [ "string" ],
         "ConnectionProperties": {
            "string" : "string"
         },
         "ConnectionSchemaVersion": number,
         "ConnectionType": "string",
         "CreationTime": number,
         "Description": "string",
         "LastConnectionValidationTime": number,
         "LastUpdatedBy": "string",
         "LastUpdatedTime": number,
         "MatchCriteria": [ "string" ],
         "Name": "string",
         "PhysicalConnectionRequirements": {
            "AvailabilityZone": "string",
            "SecurityGroupIdList": [ "string" ],
            "SubnetId": "string"
         },
         "PythonProperties": {
            "string" : "string"
         },
         "SparkProperties": {
            "string" : "string"
         },
         "Status": "string",
         "StatusReason": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ConnectionList

A list of requested connection definitions.

Type: Array of Connection objects

NextToken

A continuation token, if the list of connections returned does not include the last of the filtered connections.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetCrawler

Retrieves metadata for a specified crawler.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the crawler to retrieve metadata for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Crawler": {
      "Classifiers": [ "string" ],
      "Configuration": "string",
      "CrawlElapsedTime": number,
      "CrawlerSecurityConfiguration": "string",
      "CreationTime": number,
      "DatabaseName": "string",
      "Description": "string",
      "LakeFormationConfiguration": {
         "AccountId": "string",
         "UseLakeFormationCredentials": boolean
```

```
      },
      "LastCrawl": {
         "ErrorMessage": "string",
         "LogGroup": "string",
         "LogStream": "string",
         "MessagePrefix": "string",
         "StartTime": number,
         "Status": "string"
      },
      "LastUpdated": number,
      "LineageConfiguration": {
         "CrawlerLineageSettings": "string"
      },
      "Name": "string",
      "RecrawlPolicy": {
         "RecrawlBehavior": "string"
      },
      "Role": "string",
      "Schedule": {
         "ScheduleExpression": "string",
         "State": "string"
      },
      "SchemaChangePolicy": {
         "DeleteBehavior": "string",
         "UpdateBehavior": "string"
      },
      "State": "string",
      "TablePrefix": "string",
      "Targets": {
         "CatalogTargets": [
            {
               "ConnectionName": "string",
               "DatabaseName": "string",
               "DlqEventQueueArn": "string",
               "EventQueueArn": "string",
               "Tables": [ "string" ]
            }
         ],
         "DeltaTargets": [
            {
               "ConnectionName": "string",
               "CreateNativeDeltaTable": boolean,
               "DeltaTables": [ "string" ],
               "WriteManifest": boolean
```

```
            }
         ],
         "DynamoDBTargets": [
            {
               "Path": "string",
               "scanAll": boolean,
               "scanRate": number
            }
         ],
         "HudiTargets": [
            {
               "ConnectionName": "string",
               "Exclusions": [ "string" ],
               "MaximumTraversalDepth": number,
               "Paths": [ "string" ]
            }
         ],
         "IcebergTargets": [
            {
               "ConnectionName": "string",
               "Exclusions": [ "string" ],
               "MaximumTraversalDepth": number,
               "Paths": [ "string" ]
            }
         ],
         "JdbcTargets": [
            {
               "ConnectionName": "string",
               "EnableAdditionalMetadata": [ "string" ],
               "Exclusions": [ "string" ],
               "Path": "string"
            }
         ],
         "MongoDBTargets": [
            {
               "ConnectionName": "string",
               "Path": "string",
               "ScanAll": boolean
            }
         ],
         "S3Targets": [
            {
               "ConnectionName": "string",
               "DlqEventQueueArn": "string",
```

```
                "EventQueueArn": "string",
                "Exclusions": [ "string" ],
                "Path": "string",
                "SampleSize": number
            }
         ]
      },
      "Version": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Crawler

The metadata for the specified crawler.

Type: Crawler object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetCrawlerMetrics

Retrieves metrics about specified crawlers.

Request Syntax

```
{
   "CrawlerNameList": [ "string" ],
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CrawlerNameList

A list of the names of crawlers about which to retrieve metrics.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

MaxResults

The maximum size of a list to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

Response Syntax

```
{
   "CrawlerMetricsList": [
      {
         "CrawlerName": "string",
         "LastRuntimeSeconds": number,
         "MedianRuntimeSeconds": number,
         "StillEstimating": boolean,
         "TablesCreated": number,
         "TablesDeleted": number,
         "TablesUpdated": number,
         "TimeLeftSeconds": number
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CrawlerMetricsList

A list of metrics for the specified crawler.

Type: Array of CrawlerMetrics objects

NextToken

A continuation token, if the returned list does not contain the last metric available.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetCrawlers

Retrieves metadata for all crawlers defined in the customer account.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The number of crawlers to return on each call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation request.

Type: String

Required: No

Response Syntax

```
{
   "Crawlers": [
      {
         "Classifiers": [ "string" ],
         "Configuration": "string",
         "CrawlElapsedTime": number,
```

```
      "CrawlerSecurityConfiguration": "string",
      "CreationTime": number,
      "DatabaseName": "string",
      "Description": "string",
      "LakeFormationConfiguration": {
         "AccountId": "string",
         "UseLakeFormationCredentials": boolean
      },
      "LastCrawl": {
         "ErrorMessage": "string",
         "LogGroup": "string",
         "LogStream": "string",
         "MessagePrefix": "string",
         "StartTime": number,
         "Status": "string"
      },
      "LastUpdated": number,
      "LineageConfiguration": {
         "CrawlerLineageSettings": "string"
      },
      "Name": "string",
      "RecrawlPolicy": {
         "RecrawlBehavior": "string"
      },
      "Role": "string",
      "Schedule": {
         "ScheduleExpression": "string",
         "State": "string"
      },
      "SchemaChangePolicy": {
         "DeleteBehavior": "string",
         "UpdateBehavior": "string"
      },
      "State": "string",
      "TablePrefix": "string",
      "Targets": {
         "CatalogTargets": [
            {
               "ConnectionName": "string",
               "DatabaseName": "string",
               "DlqEventQueueArn": "string",
               "EventQueueArn": "string",
               "Tables": [ "string" ]
            }
```

```
            ],
            "DeltaTargets": [
               {
                  "ConnectionName": "string",
                  "CreateNativeDeltaTable": boolean,
                  "DeltaTables": [ "string" ],
                  "WriteManifest": boolean
               }
            ],
            "DynamoDBTargets": [
               {
                  "Path": "string",
                  "scanAll": boolean,
                  "scanRate": number
               }
            ],
            "HudiTargets": [
               {
                  "ConnectionName": "string",
                  "Exclusions": [ "string" ],
                  "MaximumTraversalDepth": number,
                  "Paths": [ "string" ]
               }
            ],
            "IcebergTargets": [
               {
                  "ConnectionName": "string",
                  "Exclusions": [ "string" ],
                  "MaximumTraversalDepth": number,
                  "Paths": [ "string" ]
               }
            ],
            "JdbcTargets": [
               {
                  "ConnectionName": "string",
                  "EnableAdditionalMetadata": [ "string" ],
                  "Exclusions": [ "string" ],
                  "Path": "string"
               }
            ],
            "MongoDBTargets": [
               {
                  "ConnectionName": "string",
                  "Path": "string",
```

```
                "ScanAll": boolean
             }
          ],
          "S3Targets": [
             {
                "ConnectionName": "string",
                "DlqEventQueueArn": "string",
                "EventQueueArn": "string",
                "Exclusions": [ "string" ],
                "Path": "string",
                "SampleSize": number
             }
          ]
       },
       "Version": number
    }
 ],
 "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Crawlers

A list of crawler metadata.

Type: Array of Crawler objects

NextToken

A continuation token, if the returned list has not reached the end of those defined in this customer account.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetCustomEntityType

Retrieves the details of a custom pattern by specifying its name.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the custom pattern that you want to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "ContextWords": [ "string" ],
   "Name": "string",
   "RegexString": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ContextWords

A list of context words if specified when you created the custom pattern. If none of these context words are found within the vicinity of the regular expression the data will not be detected as sensitive data.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Name

The name of the custom pattern that you retrieved.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

RegexString

A regular expression string that is used for detecting sensitive data in a custom pattern.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetDatabase

Retrieves the definition of a specified database.

Request Syntax

```
{
   "CatalogId": "string",
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog in which the database resides. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Name

The name of the database to retrieve. For Hive compatibility, this should be all lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Database": {
      "CatalogId": "string",
      "CreateTableDefaultPermissions": [
         {
            "Permissions": [ "string" ],
            "Principal": {
               "DataLakePrincipalIdentifier": "string"
            }
         }
      ],
      "CreateTime": number,
      "Description": "string",
      "FederatedDatabase": {
         "ConnectionName": "string",
         "ConnectionType": "string",
         "Identifier": "string"
      },
      "LocationUri": "string",
      "Name": "string",
      "Parameters": {
         "string" : "string"
      },
      "TargetDatabase": {
         "CatalogId": "string",
         "DatabaseName": "string",
         "Region": "string"
      }
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Database

The definition of the specified database in the Data Catalog.

Type: Database object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetDatabases

Retrieves all databases defined in a given Data Catalog.

Request Syntax

```
{
   "AttributesToGet": [ "string" ],
   "CatalogId": "string",
   "MaxResults": number,
   "NextToken": "string",
   "ResourceShareType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

AttributesToGet

Specifies the database fields returned by the `GetDatabases` call. This parameter doesn't accept an empty list. The request must include the `NAME`.

Type: Array of strings

Valid Values: `NAME | TARGET_DATABASE`

Required: No

CatalogId

The ID of the Data Catalog from which to retrieve `Databases`. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

MaxResults

The maximum number of databases to return in one response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

ResourceShareType

Allows you to specify that you want to list the databases shared with your account. The allowable values are `FEDERATED`, `FOREIGN` or `ALL`.

- If set to `FEDERATED`, will list the federated databases (referencing an external entity) shared with your account.
- If set to `FOREIGN`, will list the databases shared with your account.
- If set to `ALL`, will list the databases shared with your account, as well as the databases in yor local account.

Type: String

Valid Values: `FOREIGN | ALL | FEDERATED`

Required: No

Response Syntax

```
{
   "DatabaseList": [
      {
         "CatalogId": "string",
         "CreateTableDefaultPermissions": [
            {
```

```
                "Permissions": [ "string" ],
                "Principal": {
                   "DataLakePrincipalIdentifier": "string"
                }
             }
          ],
          "CreateTime": number,
          "Description": "string",
          "FederatedDatabase": {
             "ConnectionName": "string",
             "ConnectionType": "string",
             "Identifier": "string"
          },
          "LocationUri": "string",
          "Name": "string",
          "Parameters": {
             "string" : "string"
          },
          "TargetDatabase": {
             "CatalogId": "string",
             "DatabaseName": "string",
             "Region": "string"
          }
       }
    ],
    "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

DatabaseList

A list of `Database` objects from the specified catalog.

Type: Array of Database objects

NextToken

A continuation token for paginating the returned list of tokens, returned if the current segment of the list is not the last.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetDataCatalogEncryptionSettings

Retrieves the security configuration for a specified catalog.

Request Syntax

```
{
   "CatalogId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog to retrieve the security configuration for. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Response Syntax

```
{
   "DataCatalogEncryptionSettings": {
      "ConnectionPasswordEncryption": {
         "AwsKmsKeyId": "string",
         "ReturnConnectionPasswordEncrypted": boolean
      },
      "EncryptionAtRest": {
         "CatalogEncryptionMode": "string",
         "CatalogEncryptionServiceRole": "string",
```

```
            "SseAwsKmsKeyId": "string"
        }
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

DataCatalogEncryptionSettings

The requested security configuration.

Type: DataCatalogEncryptionSettings object

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetDataflowGraph

Transforms a Python script into a directed acyclic graph (DAG).

Request Syntax

```
{
   "PythonScript": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

PythonScript

The Python script to transform.

Type: String

Required: No

Response Syntax

```
{
   "DagEdges": [
      {
         "Source": "string",
         "Target": "string",
         "TargetParameter": "string"
      }
   ],
   "DagNodes": [
      {
         "Args": [
            {
               "Name": "string",
               "Param": boolean,
               "Value": "string"
```

```
            }
         ],
         "Id": "string",
         "LineNumber": number,
         "NodeType": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

DagEdges

A list of the edges in the resulting DAG.

Type: Array of CodeGenEdge objects

DagNodes

A list of the nodes in the resulting DAG.

Type: Array of CodeGenNode objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetDataQualityModel

Retrieve the training status of the model along with more information (CompletedOn, StartedOn, FailureReason).

Request Syntax

```
{
   "ProfileId": "string",
   "StatisticId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ProfileId

The Profile ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

StatisticId

The Statistic ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Response Syntax

```
{
   "CompletedOn": number,
   "FailureReason": "string",
   "StartedOn": number,
   "Status": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CompletedOn

The timestamp when the data quality model training completed.

Type: Timestamp

FailureReason

The training failure reason.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

StartedOn

The timestamp when the data quality model training started.

Type: Timestamp

Status

The training status of the data quality model.

Type: String

Valid Values: `RUNNING | SUCCEEDED | FAILED`

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetDataQualityModelResult

Retrieve a statistic's predictions for a given Profile ID.

Request Syntax

```
{
   "ProfileId": "string",
   "StatisticId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ProfileId

The Profile ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

StatisticId

The Statistic ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "CompletedOn": number,
   "Model": [
      {
         "ActualValue": number,
         "Date": number,
         "InclusionAnnotation": "string",
         "LowerBound": number,
         "PredictedValue": number,
         "UpperBound": number
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CompletedOn

The timestamp when the data quality model training completed.

Type: Timestamp

Model

A list of `StatisticModelResult`

Type: Array of StatisticModelResult objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetDataQualityResult

Retrieves the result of a data quality rule evaluation.

Request Syntax

```
{
   "ResultId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ResultId

A unique result ID for the data quality result.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "AggregatedMetrics": {
      "TotalRowsFailed": number,
      "TotalRowsPassed": number,
      "TotalRowsProcessed": number,
      "TotalRulesFailed": number,
      "TotalRulesPassed": number,
      "TotalRulesProcessed": number
   },
   "AnalyzerResults": [
      {
         "Description": "string",
```

```
         "EvaluatedMetrics": {
            "string" : number
         },
         "EvaluationMessage": "string",
         "Name": "string"
      }
   ],
   "CompletedOn": number,
   "DataSource": {
      "DataQualityGlueTable": {
         "AdditionalOptions": {
            "string" : "string"
         },
         "CatalogId": "string",
         "ConnectionName": "string",
         "DatabaseName": "string",
         "PreProcessingQuery": "string",
         "TableName": "string"
      },
      "GlueTable": {
         "AdditionalOptions": {
            "string" : "string"
         },
         "CatalogId": "string",
         "ConnectionName": "string",
         "DatabaseName": "string",
         "TableName": "string"
      }
   },
   "EvaluationContext": "string",
   "JobName": "string",
   "JobRunId": "string",
   "Observations": [
      {
         "Description": "string",
         "MetricBasedObservation": {
            "MetricName": "string",
            "MetricValues": {
               "ActualValue": number,
               "ExpectedValue": number,
               "LowerLimit": number,
               "UpperLimit": number
            },
            "NewRules": [ "string" ],
```

```
            "StatisticId": "string"
         }
      }
   ],
   "ProfileId": "string",
   "ResultId": "string",
   "RuleResults": [
      {
         "Description": "string",
         "EvaluatedMetrics": {
            "string" : number
         },
         "EvaluatedRule": "string",
         "EvaluationMessage": "string",
         "Labels": {
            "string" : "string"
         },
         "Name": "string",
         "Result": "string",
         "RuleMetrics": {
            "string" : number
         }
      }
   ],
   "RulesetEvaluationRunId": "string",
   "RulesetName": "string",
   "Score": number,
   "StartedOn": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AggregatedMetrics

A summary of `DataQualityAggregatedMetrics` objects showing the total counts of processed rows and rules, including their pass/fail statistics based on row-level results.

Type: DataQualityAggregatedMetrics object

AnalyzerResults

A list of `DataQualityAnalyzerResult` objects representing the results for each analyzer.

Type: Array of DataQualityAnalyzerResult objects

Array Members: Minimum number of 0 items. Maximum number of 2000 items.

CompletedOn

The date and time when the run for this data quality result was completed.

Type: Timestamp

DataSource

The table associated with the data quality result, if any.

Type: DataSource object

EvaluationContext

In the context of a job in AWS Glue Studio, each node in the canvas is typically assigned some sort of name and data quality nodes will have names. In the case of multiple nodes, the `evaluationContext` can differentiate the nodes.

Type: String

JobName

The job name associated with the data quality result, if any.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

JobRunId

The job run ID associated with the data quality result, if any.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Observations

A list of `DataQualityObservation` objects representing the observations generated after evaluating the rules and analyzers.

Type: Array of DataQualityObservation objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

ProfileId

The Profile ID for the data quality result.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

ResultId

A unique result ID for the data quality result.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

RuleResults

A list of `DataQualityRuleResult` objects representing the results for each rule.

Type: Array of DataQualityRuleResult objects

Array Members: Minimum number of 0 items. Maximum number of 2000 items.

RulesetEvaluationRunId

The unique run ID associated with the ruleset evaluation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

RulesetName

The name of the ruleset associated with the data quality result.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Score

An aggregate data quality score. Represents the ratio of rules that passed to the total number of rules.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 1.0.

StartedOn

The date and time when the run for this data quality result started.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetDataQualityRuleRecommendationRun

Gets the specified recommendation run that was used to generate rules.

Request Syntax

```
{
   "RunId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

RunId

The unique run identifier associated with this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "CompletedOn": number,
   "CreatedRulesetName": "string",
   "DataQualitySecurityConfiguration": "string",
   "DataSource": {
      "DataQualityGlueTable": {
         "AdditionalOptions": {
            "string" : "string"
         },
         "CatalogId": "string",
```

```
            "ConnectionName": "string",
            "DatabaseName": "string",
            "PreProcessingQuery": "string",
            "TableName": "string"
         },
         "GlueTable": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "CatalogId": "string",
            "ConnectionName": "string",
            "DatabaseName": "string",
            "TableName": "string"
         }
      },
      "ErrorString": "string",
      "ExecutionTime": number,
      "LastModifiedOn": number,
      "NumberOfWorkers": number,
      "RecommendedRuleset": "string",
      "Role": "string",
      "RunId": "string",
      "StartedOn": number,
      "Status": "string",
      "Timeout": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CompletedOn

The date and time when this run was completed.

Type: Timestamp

CreatedRulesetName

The name of the ruleset that was created by the run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

DataQualitySecurityConfiguration

The name of the security configuration created with the data quality encryption option.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

DataSource

The data source (an AWS Glue table) associated with this run.

Type: DataSource object

ErrorString

The error strings that are associated with the run.

Type: String

ExecutionTime

The amount of time (in seconds) that the run consumed resources.

Type: Integer

LastModifiedOn

A timestamp. The last point in time when this data quality rule recommendation run was modified.

Type: Timestamp

NumberOfWorkers

The number of `G.1X` workers to be used in the run. The default is 5.

Type: Integer

RecommendedRuleset

When a start rule recommendation run completes, it creates a recommended ruleset (a set of rules). This member has those rules in Data Quality Definition Language (DQDL) format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Role

An IAM role supplied to encrypt the results of the run.

Type: String

RunId

The unique run identifier associated with this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

StartedOn

The date and time when this run started.

Type: Timestamp

Status

The status for this run.

Type: String

Valid Values: `STARTING | RUNNING | STOPPING | STOPPED | SUCCEEDED | FAILED | TIMEOUT`

Timeout

The timeout for a run in minutes. This is the maximum time that a run can consume resources before it is terminated and enters `TIMEOUT` status. The default is 2,880 minutes (48 hours).

Type: Integer

Valid Range: Minimum value of 1.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetDataQualityRuleset

Returns an existing ruleset by identifier or name.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the ruleset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "CreatedOn": number,
   "DataQualitySecurityConfiguration": "string",
   "Description": "string",
   "LastModifiedOn": number,
   "Name": "string",
   "RecommendationRunId": "string",
   "Ruleset": "string",
   "TargetTable": {
      "CatalogId": "string",
      "DatabaseName": "string",
```

```
        "TableName": "string"
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CreatedOn

A timestamp. The time and date that this data quality ruleset was created.

Type: Timestamp

DataQualitySecurityConfiguration

The name of the security configuration created with the data quality encryption option.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Description

A description of the ruleset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

LastModifiedOn

A timestamp. The last point in time when this data quality ruleset was modified.

Type: Timestamp

Name

The name of the ruleset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

RecommendationRunId

When a ruleset was created from a recommendation run, this run ID is generated to link the two together.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Ruleset

A Data Quality Definition Language (DQDL) ruleset. For more information, see the AWS Glue developer guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

TargetTable

The name and database name of the target table.

Type: DataQualityTargetTable object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetDataQualityRulesetEvaluationRun

Retrieves a specific run where a ruleset is evaluated against a data source.

Request Syntax

```
{
   "RunId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

RunId

The unique run identifier associated with this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "AdditionalDataSources": {
      "string" : {
         "DataQualityGlueTable": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "CatalogId": "string",
            "ConnectionName": "string",
            "DatabaseName": "string",
            "PreProcessingQuery": "string",
            "TableName": "string"
```

```
        },
        "GlueTable": {
           "AdditionalOptions": {
              "string" : "string"
           },
           "CatalogId": "string",
           "ConnectionName": "string",
           "DatabaseName": "string",
           "TableName": "string"
        }
     }
  },
  "AdditionalRunOptions": {
     "CloudWatchMetricsEnabled": boolean,
     "CompositeRuleEvaluationMethod": "string",
     "ResultsS3Prefix": "string"
  },
  "CompletedOn": number,
  "DataSource": {
     "DataQualityGlueTable": {
        "AdditionalOptions": {
           "string" : "string"
        },
        "CatalogId": "string",
        "ConnectionName": "string",
        "DatabaseName": "string",
        "PreProcessingQuery": "string",
        "TableName": "string"
     },
     "GlueTable": {
        "AdditionalOptions": {
           "string" : "string"
        },
        "CatalogId": "string",
        "ConnectionName": "string",
        "DatabaseName": "string",
        "TableName": "string"
     }
  },
  "ErrorString": "string",
  "ExecutionTime": number,
  "LastModifiedOn": number,
  "NumberOfWorkers": number,
  "ResultIds": [ "string" ],
```

```
    "Role": "string",
    "RulesetNames": [ "string" ],
    "RunId": "string",
    "StartedOn": number,
    "Status": "string",
    "Timeout": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AdditionalDataSources

A map of reference strings to additional data sources you can specify for an evaluation run.

Type: String to DataSource object map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

AdditionalRunOptions

Additional run options you can specify for an evaluation run.

Type: DataQualityEvaluationRunAdditionalRunOptions object

CompletedOn

The date and time when this run was completed.

Type: Timestamp

DataSource

The data source (an AWS Glue table) associated with this evaluation run.

Type: DataSource object

ErrorString

The error strings that are associated with the run.

Type: String

ExecutionTime

The amount of time (in seconds) that the run consumed resources.

Type: Integer

LastModifiedOn

A timestamp. The last point in time when this data quality rule recommendation run was modified.

Type: Timestamp

NumberOfWorkers

The number of `G.1X` workers to be used in the run. The default is 5.

Type: Integer

ResultIds

A list of result IDs for the data quality results for the run.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Role

An IAM role supplied to encrypt the results of the run.

Type: String

RulesetNames

A list of ruleset names for the run. Currently, this parameter takes only one Ruleset name.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

RunId

The unique run identifier associated with this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

StartedOn

The date and time when this run started.

Type: Timestamp

Status

The status for this run.

Type: String

Valid Values: `STARTING | RUNNING | STOPPING | STOPPED | SUCCEEDED | FAILED | TIMEOUT`

Timeout

The timeout for a run in minutes. This is the maximum time that a run can consume resources before it is terminated and enters `TIMEOUT` status. The default is 2,880 minutes (48 hours).

Type: Integer

Valid Range: Minimum value of 1.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetDevEndpoint

Retrieves information about a specified development endpoint.

> **Note**
>
> When you create a development endpoint in a virtual private cloud (VPC), AWS Glue returns only a private IP address, and the public IP address field is not populated. When you create a non-VPC development endpoint, AWS Glue returns only a public IP address.

Request Syntax

```
{
   "EndpointName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

EndpointName

Name of the `DevEndpoint` to retrieve information for.

Type: String

Required: Yes

Response Syntax

```
{
   "DevEndpoint": {
      "Arguments": {
         "string" : "string"
      },
```

```
      "AvailabilityZone": "string",
      "CreatedTimestamp": number,
      "EndpointName": "string",
      "ExtraJarsS3Path": "string",
      "ExtraPythonLibsS3Path": "string",
      "FailureReason": "string",
      "GlueVersion": "string",
      "LastModifiedTimestamp": number,
      "LastUpdateStatus": "string",
      "NumberOfNodes": number,
      "NumberOfWorkers": number,
      "PrivateAddress": "string",
      "PublicAddress": "string",
      "PublicKey": "string",
      "PublicKeys": [ "string" ],
      "RoleArn": "string",
      "SecurityConfiguration": "string",
      "SecurityGroupIds": [ "string" ],
      "Status": "string",
      "SubnetId": "string",
      "VpcId": "string",
      "WorkerType": "string",
      "YarnEndpointAddress": "string",
      "ZeppelinRemoteSparkInterpreterPort": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

DevEndpoint

A `DevEndpoint` definition.

Type: DevEndpoint object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetDevEndpoints

Retrieves all the development endpoints in this AWS account.

> **Note**
>
> When you create a development endpoint in a virtual private cloud (VPC), AWS Glue returns only a private IP address and the public IP address field is not populated. When you create a non-VPC development endpoint, AWS Glue returns only a public IP address.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The maximum size of information to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

Response Syntax

```
{
   "DevEndpoints": [
      {
         "Arguments": {
            "string" : "string"
         },
         "AvailabilityZone": "string",
         "CreatedTimestamp": number,
         "EndpointName": "string",
         "ExtraJarsS3Path": "string",
         "ExtraPythonLibsS3Path": "string",
         "FailureReason": "string",
         "GlueVersion": "string",
         "LastModifiedTimestamp": number,
         "LastUpdateStatus": "string",
         "NumberOfNodes": number,
         "NumberOfWorkers": number,
         "PrivateAddress": "string",
         "PublicAddress": "string",
         "PublicKey": "string",
         "PublicKeys": [ "string" ],
         "RoleArn": "string",
         "SecurityConfiguration": "string",
         "SecurityGroupIds": [ "string" ],
         "Status": "string",
         "SubnetId": "string",
         "VpcId": "string",
         "WorkerType": "string",
         "YarnEndpointAddress": "string",
         "ZeppelinRemoteSparkInterpreterPort": number
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

DevEndpoints

A list of `DevEndpoint` definitions.

Type: Array of DevEndpoint objects

NextToken

A continuation token, if not all `DevEndpoint` definitions have yet been returned.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetEntityRecords

This API is used to query preview data from a given connection type or from a native Amazon S3 based AWS Glue Data Catalog.

Returns records as an array of JSON blobs. Each record is formatted using Jackson JsonNode based on the field type defined by the `DescribeEntity` API.

Spark connectors generate schemas according to the same data type mapping as in the `DescribeEntity` API. Spark connectors convert data to the appropriate data types matching the schema when returning rows.

Request Syntax

```
{
   "CatalogId": "string",
   "ConnectionName": "string",
   "ConnectionOptions": {
      "string" : "string"
   },
   "DataStoreApiVersion": "string",
   "EntityName": "string",
   "FilterPredicate": "string",
   "Limit": number,
   "NextToken": "string",
   "OrderBy": "string",
   "SelectedFields": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The catalog ID of the catalog that contains the connection. This can be null, By default, the AWS Account ID is the catalog ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ConnectionName

The name of the connection that contains the connection type credentials.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ConnectionOptions

Connector options that are required to query the data.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 100 items.

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[\w]*`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Value Pattern: `[\S]*`

Required: No

DataStoreApiVersion

The API version of the SaaS connector.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z0-9.-]*`

Required: No

EntityName

Name of the entity that we want to query the preview data from the given connection type.

Type: String

Required: Yes

FilterPredicate

A filter predicate that you can apply in the query request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100000.

Required: No

Limit

Limits the number of records fetched with the request.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

NextToken

A continuation token, included if this is a continuation call.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[-a-zA-Z0-9+=/:_]*`

Required: No

OrderBy

A parameter that orders the response preview data.

Type: String

Required: No

SelectedFields

List of fields that we want to fetch as part of preview data.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 1000 items.

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "Records": [ JSON value ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token, present if the current segment is not the last.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[-a-zA-Z0-9+=/:_]*`

Records

A list of the requested objects.

Type: Array of JSON values

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetGlueIdentityCenterConfiguration

Retrieves the current AWS Glue Identity Center configuration details, including the associated Identity Center instance and application information.

Response Syntax

```
{
   "ApplicationArn": "string",
   "InstanceArn": "string",
   "Scopes": [ "string" ],
   "UserBackgroundSessionsEnabled": boolean
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ApplicationArn

The Amazon Resource Name (ARN) of the Identity Center application associated with the AWS Glue configuration.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 1224.

InstanceArn

The Amazon Resource Name (ARN) of the Identity Center instance associated with the AWS Glue configuration.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 1224.

Scopes

A list of Identity Center scopes that define the permissions and access levels for the AWS Glue configuration.

Type: Array of strings

UserBackgroundSessionsEnabled

Indicates whether users can run background sessions when using Identity Center authentication with AWS Glue services.

Type: Boolean

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetIntegrationResourceProperty

This API is used for fetching the `ResourceProperty` of the AWS Glue connection (for the source) or AWS Glue database ARN (for the target)

Request Syntax

```
{
   "ResourceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ResourceArn

The connection ARN of the source, or the database ARN of the target.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

Response Syntax

```
{
   "ResourceArn": "string",
   "ResourcePropertyArn": "string",
   "SourceProcessingProperties": {
      "RoleArn": "string"
   },
   "TargetProcessingProperties": {
      "ConnectionName": "string",
      "EventBusArn": "string",
      "KmsArn": "string",
      "RoleArn": "string"
   }
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResourceArn

The connection ARN of the source, or the database ARN of the target.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

ResourcePropertyArn

The resource ARN created through this create API. The format is something like arn:aws:glue:<region>:<account_id>:integrationresourceproperty/*

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

SourceProcessingProperties

The resource properties associated with the integration source.

Type: SourceProcessingProperties object

TargetProcessingProperties

The resource properties associated with the integration target.

Type: TargetProcessingProperties object

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServerException

An internal server error occurred.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetIntegrationTableProperties

This API is used to retrieve optional override properties for the tables that need to be replicated. These properties can include properties for filtering and partition for source and target tables.

Request Syntax

```
{
   "ResourceArn": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ResourceArn

The Amazon Resource Name (ARN) of the target table for which to retrieve integration table properties. Currently, this API only supports retrieving properties for target tables, and the provided ARN should be the ARN of the target table in the AWS Glue Data Catalog. Support for retrieving integration table properties for source connections (using the connection ARN) is not yet implemented and will be added in a future release.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

TableName

The name of the table to be replicated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Response Syntax

```
{
   "ResourceArn": "string",
   "SourceTableConfig": {
      "Fields": [ "string" ],
      "FilterPredicate": "string",
      "PrimaryKey": [ "string" ],
      "RecordUpdateField": "string"
   },
   "TableName": "string",
   "TargetTableConfig": {
      "PartitionSpec": [
         {
            "ConversionSpec": "string",
            "FieldName": "string",
            "FunctionSpec": "string"
         }
      ],
      "TargetTableName": "string",
      "UnnestSpec": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResourceArn

The Amazon Resource Name (ARN) of the target table for which to retrieve integration table properties. Currently, this API only supports retrieving properties for target tables, and the provided ARN should be the ARN of the target table in the AWS Glue Data Catalog. Support for retrieving integration table properties for source connections (using the connection ARN) is not yet implemented and will be added in a future release.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

SourceTableConfig

A structure for the source table configuration.

Type: SourceTableConfig object

TableName

The name of the table to be replicated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

TargetTableConfig

A structure for the target table configuration.

Type: TargetTableConfig object

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServerException

An internal server error occurred.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetJob

Retrieves an existing job definition.

Request Syntax

```
{
   "JobName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

JobName

The name of the job definition to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Job": {
      "AllocatedCapacity": number,
      "CodeGenConfigurationNodes": {
         "string" : {
            "Aggregate": {
               "Aggs": [
                  {
                     "AggFunc": "string",
                     "Column": [ "string" ]
                  }
               ],
```

```
            "Groups": [
               [ "string" ]
            ],
            "Inputs": [ "string" ],
            "Name": "string"
         },
         "AmazonRedshiftSource": {
            "Data": {
               "AccessType": "string",
               "Action": "string",
               "AdvancedOptions": [
                  {
                     "Key": "string",
                     "Value": "string"
                  }
               ],
               "CatalogDatabase": {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               },
               "CatalogRedshiftSchema": "string",
               "CatalogRedshiftTable": "string",
               "CatalogTable": {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               },
               "Connection": {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               },
               "CrawlerConnection": "string",
               "IamRole": {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               },
               "MergeAction": "string",
               "MergeClause": "string",
               "MergeWhenMatched": "string",
               "MergeWhenNotMatched": "string",
               "PostAction": "string",
```

```
            "PreAction": "string",
            "SampleQuery": "string",
            "Schema": {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            },
            "SelectedColumns": [
               {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               }
            ],
            "SourceType": "string",
            "StagingTable": "string",
            "Table": {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            },
            "TablePrefix": "string",
            "TableSchema": [
               {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               }
            ],
            "TempDir": "string",
            "Upsert": boolean
         },
         "Name": "string"
      },
      "AmazonRedshiftTarget": {
         "Data": {
            "AccessType": "string",
            "Action": "string",
            "AdvancedOptions": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ],
```

```
"CatalogDatabase": {
   "Description": "string",
   "Label": "string",
   "Value": "string"
},
"CatalogRedshiftSchema": "string",
"CatalogRedshiftTable": "string",
"CatalogTable": {
   "Description": "string",
   "Label": "string",
   "Value": "string"
},
"Connection": {
   "Description": "string",
   "Label": "string",
   "Value": "string"
},
"CrawlerConnection": "string",
"IamRole": {
   "Description": "string",
   "Label": "string",
   "Value": "string"
},
"MergeAction": "string",
"MergeClause": "string",
"MergeWhenMatched": "string",
"MergeWhenNotMatched": "string",
"PostAction": "string",
"PreAction": "string",
"SampleQuery": "string",
"Schema": {
   "Description": "string",
   "Label": "string",
   "Value": "string"
},
"SelectedColumns": [
   {
      "Description": "string",
      "Label": "string",
      "Value": "string"
   }
],
"SourceType": "string",
"StagingTable": "string",
```

```
            "Table": {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            },
            "TablePrefix": "string",
            "TableSchema": [
               {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               }
            ],
            "TempDir": "string",
            "Upsert": boolean
         },
         "Inputs": [ "string" ],
         "Name": "string"
      },
      "ApplyMapping": {
         "Inputs": [ "string" ],
         "Mapping": [
            {
               "Children": [
                  "Mapping"
               ],
               "Dropped": boolean,
               "FromPath": [ "string" ],
               "FromType": "string",
               "ToKey": "string",
               "ToType": "string"
            }
         ],
         "Name": "string"
      },
      "AthenaConnectorSource": {
         "ConnectionName": "string",
         "ConnectionTable": "string",
         "ConnectionType": "string",
         "ConnectorName": "string",
         "Name": "string",
         "OutputSchemas": [
            {
               "Columns": [
```

```
                        {
                           "GlueStudioType": "string",
                           "Name": "string",
                           "Type": "string"
                        }
                     ]
                  }
               ],
               "SchemaName": "string"
            },
            "CatalogDeltaSource": {
               "AdditionalDeltaOptions": {
                  "string" : "string"
               },
               "Database": "string",
               "Name": "string",
               "OutputSchemas": [
                  {
                     "Columns": [
                        {
                           "GlueStudioType": "string",
                           "Name": "string",
                           "Type": "string"
                        }
                     ]
                  }
               ],
               "Table": "string"
            },
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                 "Database": "string",
                 "EnableUpdateCatalog": boolean,
                 "Table": "string",
                 "UpdateBehavior": "string"
              }
           },
           "S3HudiSource": {
              "AdditionalHudiOptions": {
```

```
            "string" : "string"
         },
         "AdditionalOptions": {
            "BoundedFiles": number,
            "BoundedSize": number,
            "EnableSamplePath": boolean,
            "SamplePath": "string"
         },
         "Name": "string",
         "OutputSchemas": [
            {
               "Columns": [
                  {
                     "GlueStudioType": "string",
                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ],
         "Paths": [ "string" ]
      },
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         "AutoDataQuality": {
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            "IsEnabled": boolean
         },
         "Compression": "string",
         "Format": "string",
         "Inputs": [ "string" ],
         "Name": "string",
         "OutputSchemas": [
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                  {
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                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ],
         "PartitionKeys": [
            [ "string" ]
```

```
            ],
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               "Table": "string",
               "UpdateBehavior": "string"
            }
         },
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            },
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               "EvaluationContext": "string",
               "IsEnabled": boolean
            },
            "Database": "string",
            "Inputs": [ "string" ],
            "Name": "string",
            "PartitionKeys": [
               [ "string" ]
            ],
            "SchemaChangePolicy": {
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               "UpdateBehavior": "string"
            },
            "Table": "string"
         },
         "S3IcebergDirectTarget": {
            "AdditionalOptions": {
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            },
            "AutoDataQuality": {
               "EvaluationContext": "string",
               "IsEnabled": boolean
            },
            "Compression": "string",
            "Format": "string",
            "Inputs": [ "string" ],
            "Name": "string",
            "NumberTargetPartitions": "string",
            "OutputSchemas": [
               {
```

```
                    "Columns": [
                       {
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                          "Name": "string",
                          "Type": "string"
                       }
                    ]
                 }
              ],
              "PartitionKeys": [
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              ],
              "Path": "string",
              "SchemaChangePolicy": {
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                 "EnableUpdateCatalog": boolean,
                 "Table": "string",
                 "UpdateBehavior": "string"
              }
           },
           "S3JsonSource": {
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                 "BoundedFiles": number,
                 "BoundedSize": number,
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                 "SamplePath": "string"
              },
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              "Exclusions": [ "string" ],
              "GroupFiles": "string",
              "GroupSize": "string",
              "JsonPath": "string",
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              "MaxFilesInBand": number,
              "Multiline": boolean,
              "Name": "string",
              "OutputSchemas": [
                 {
                    "Columns": [
                       {
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                          "Name": "string",
                          "Type": "string"
                       }
```

```
                    ]
                }
            ],
            "Paths": [ "string" ],
            "Recurse": boolean
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                "BoundedSize": number,
                "EnableSamplePath": boolean,
                "SamplePath": "string"
            },
            "CompressionType": "string",
            "Exclusions": [ "string" ],
            "GroupFiles": "string",
            "GroupSize": "string",
            "MaxBand": number,
            "MaxFilesInBand": number,
            "Name": "string",
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                            "Name": "string",
                            "Type": "string"
                        }
                    ]
                }
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            "Recurse": boolean
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            "Name": "string",
            "Paths": [
                [ "string" ]
            ]
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            "Inputs": [ "string" ],
```

```
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               },
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                  "Label": "string",
                  "Value": "string"
               },
               "Database": "string",
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                  "Label": "string",
                  "Value": "string"
               },
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               "MergeClause": "string",
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               "MergeWhenNotMatched": "string",
               "PostAction": "string",
               "PreAction": "string",
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                     "Label": "string",
                     "Value": "string"
                  }
               ],
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               "StagingTable": "string",
               "Table": "string",
               "TableSchema": [
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                     "Label": "string",
                     "Value": "string"
                  }
```

```
            ],
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            "Upsert": boolean
         },
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         "OutputSchemas": [
            {
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                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ]
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            "AdditionalOptions": {
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            "AutoPushdown": boolean,
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               "Label": "string",
               "Value": "string"
            },
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            "IamRole": {
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               "Label": "string",
               "Value": "string"
            },
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            "MergeClause": "string",
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            "PostAction": "string",
            "PreAction": "string",
            "SampleQuery": "string",
            "Schema": "string",
            "SelectedColumns": [
```

```
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                    }
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                "StagingTable": "string",
                "Table": "string",
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                        "Label": "string",
                        "Value": "string"
                    }
                ],
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                "Upsert": boolean
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            "Inputs": [ "string" ],
            "Name": "string"
        },
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            },
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            "ConnectionType": "string",
            "ConnectorName": "string",
            "Name": "string",
            "OutputSchemas": [
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                            "GlueStudioType": "string",
                            "Name": "string",
                            "Type": "string"
                        }
                    ]
                }
            ]
        },
        "SparkConnectorTarget": {
            "AdditionalOptions": {
```

```
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         "ConnectionName": "string",
         "ConnectionType": "string",
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         "Name": "string",
         "OutputSchemas": [
            {
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                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ]
      },
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                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ],
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               "From": "string"
            }
         ],
         "SqlQuery": "string"
      },
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         "Name": "string",
```

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            "Path": "string",
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            "Topk": number
         },
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            "Inputs": [ "string" ],
            "Name": "string",
            "Paths": [
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            ]
         },
         "Union": {
            "Inputs": [ "string" ],
            "Name": "string",
            "UnionType": "string"
         }
      }
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   "Command": {
      "Name": "string",
      "PythonVersion": "string",
      "Runtime": "string",
      "ScriptLocation": "string"
   },
   "Connections": {
      "Connections": [ "string" ]
   },
   "CreatedOn": number,
   "DefaultArguments": {
      "string" : "string"
   },
   "Description": "string",
   "ExecutionClass": "string",
   "ExecutionProperty": {
      "MaxConcurrentRuns": number
   },
   "GlueVersion": "string",
   "JobMode": "string",
   "JobRunQueuingEnabled": boolean,
   "LastModifiedOn": number,
   "LogUri": "string",
   "MaintenanceWindow": "string",
   "MaxCapacity": number,
   "MaxRetries": number,
```

```
      "Name": "string",
      "NonOverridableArguments": {
         "string" : "string"
      },
      "NotificationProperty": {
         "NotifyDelayAfter": number
      },
      "NumberOfWorkers": number,
      "ProfileName": "string",
      "Role": "string",
      "SecurityConfiguration": "string",
      "SourceControlDetails": {
         "AuthStrategy": "string",
         "AuthToken": "string",
         "Branch": "string",
         "Folder": "string",
         "LastCommitId": "string",
         "Owner": "string",
         "Provider": "string",
         "Repository": "string"
      },
      "Timeout": number,
      "WorkerType": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Job

The requested job definition.

Type: Job object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetJobBookmark

Returns information on a job bookmark entry.

For more information about enabling and using job bookmarks, see:

- Tracking processed data using job bookmarks
- Job parameters used by AWS Glue
- Job structure

Request Syntax

```
{
   "JobName": "string",
   "RunId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

JobName

The name of the job in question.

Type: String

Required: Yes

RunId

The unique run identifier associated with this job run.

Type: String

Required: No

Response Syntax

```
{
   "JobBookmarkEntry": {
      "Attempt": number,
      "JobBookmark": "string",
      "JobName": "string",
      "PreviousRunId": "string",
      "Run": number,
      "RunId": "string",
      "Version": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

JobBookmarkEntry

A structure that defines a point that a job can resume processing.

Type: JobBookmarkEntry object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetJobRun

Retrieves the metadata for a given job run. Job run history is accessible for 365 days for your workflow and job run.

Request Syntax

```
{
   "JobName": "string",
   "PredecessorsIncluded": boolean,
   "RunId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

JobName

Name of the job definition being run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

PredecessorsIncluded

True if a list of predecessor runs should be returned.

Type: Boolean

Required: No

RunId

The ID of the job run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "JobRun": {
      "AllocatedCapacity": number,
      "Arguments": {
         "string" : "string"
      },
      "Attempt": number,
      "CompletedOn": number,
      "DPUSeconds": number,
      "ErrorMessage": "string",
      "ExecutionClass": "string",
      "ExecutionRoleSessionPolicy": "string",
      "ExecutionTime": number,
      "GlueVersion": "string",
      "Id": "string",
      "JobMode": "string",
      "JobName": "string",
      "JobRunQueuingEnabled": boolean,
      "JobRunState": "string",
      "LastModifiedOn": number,
      "LogGroupName": "string",
      "MaintenanceWindow": "string",
      "MaxCapacity": number,
      "NotificationProperty": {
         "NotifyDelayAfter": number
      },
      "NumberOfWorkers": number,
      "PredecessorRuns": [
         {
            "JobName": "string",
            "RunId": "string"
         }
      ],
```

```
      "PreviousRunId": "string",
      "ProfileName": "string",
      "SecurityConfiguration": "string",
      "StartedOn": number,
      "StateDetail": "string",
      "Timeout": number,
      "TriggerName": "string",
      "WorkerType": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

JobRun

The requested job-run metadata.

Type: JobRun object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetJobRuns

Retrieves metadata for all runs of a given job definition.

`GetJobRuns` returns the job runs in chronological order, with the newest jobs returned first.

Request Syntax

```
{
   "JobName": "string",
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

JobName

The name of the job definition for which to retrieve all job runs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

MaxResults

The maximum size of the response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 200.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

Response Syntax

```
{
   "JobRuns": [
      {
         "AllocatedCapacity": number,
         "Arguments": {
            "string" : "string"
         },
         "Attempt": number,
         "CompletedOn": number,
         "DPUSeconds": number,
         "ErrorMessage": "string",
         "ExecutionClass": "string",
         "ExecutionRoleSessionPolicy": "string",
         "ExecutionTime": number,
         "GlueVersion": "string",
         "Id": "string",
         "JobMode": "string",
         "JobName": "string",
         "JobRunQueuingEnabled": boolean,
         "JobRunState": "string",
         "LastModifiedOn": number,
         "LogGroupName": "string",
         "MaintenanceWindow": "string",
         "MaxCapacity": number,
         "NotificationProperty": {
            "NotifyDelayAfter": number
         },
         "NumberOfWorkers": number,
         "PredecessorRuns": [
            {
               "JobName": "string",
               "RunId": "string"
            }
```

```
            ],
            "PreviousRunId": "string",
            "ProfileName": "string",
            "SecurityConfiguration": "string",
            "StartedOn": number,
            "StateDetail": "string",
            "Timeout": number,
            "TriggerName": "string",
            "WorkerType": "string"
        }
    ],
    "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

JobRuns

A list of job-run metadata objects.

Type: Array of JobRun objects

NextToken

A continuation token, if not all requested job runs have been returned.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetJobs

Retrieves all current job definitions.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The maximum size of the response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

Response Syntax

```
{
   "Jobs": [
      {
         "AllocatedCapacity": number,
         "CodeGenConfigurationNodes": {
            "string" : {
```

```
            "Aggregate": {
               "Aggs": [
                  {
                     "AggFunc": "string",
                     "Column": [ "string" ]
                  }
               ],
               "Groups": [
                  [ "string" ]
               ],
               "Inputs": [ "string" ],
               "Name": "string"
            },
            "AmazonRedshiftSource": {
               "Data": {
                  "AccessType": "string",
                  "Action": "string",
                  "AdvancedOptions": [
                     {
                        "Key": "string",
                        "Value": "string"
                     }
                  ],
                  "CatalogDatabase": {
                     "Description": "string",
                     "Label": "string",
                     "Value": "string"
                  },
                  "CatalogRedshiftSchema": "string",
                  "CatalogRedshiftTable": "string",
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                     "Value": "string"
                  },
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                     "Label": "string",
                     "Value": "string"
                  },
                  "CrawlerConnection": "string",
                  "IamRole": {
                     "Description": "string",
                     "Label": "string",
```

```
                        "Value": "string"
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                    "MergeAction": "string",
                    "MergeClause": "string",
                    "MergeWhenMatched": "string",
                    "MergeWhenNotMatched": "string",
                    "PostAction": "string",
                    "PreAction": "string",
                    "SampleQuery": "string",
                    "Schema": {
                        "Description": "string",
                        "Label": "string",
                        "Value": "string"
                    },
                    "SelectedColumns": [
                        {
                            "Description": "string",
                            "Label": "string",
                            "Value": "string"
                        }
                    ],
                    "SourceType": "string",
                    "StagingTable": "string",
                    "Table": {
                        "Description": "string",
                        "Label": "string",
                        "Value": "string"
                    },
                    "TablePrefix": "string",
                    "TableSchema": [
                        {
                            "Description": "string",
                            "Label": "string",
                            "Value": "string"
                        }
                    ],
                    "TempDir": "string",
                    "Upsert": boolean
                },
                "Name": "string"
            },
            "AmazonRedshiftTarget": {
                "Data": {
                    "AccessType": "string",
```

```
            "Action": "string",
            "AdvancedOptions": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ],
            "CatalogDatabase": {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            },
            "CatalogRedshiftSchema": "string",
            "CatalogRedshiftTable": "string",
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               "Label": "string",
               "Value": "string"
            },
            "Connection": {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            },
            "CrawlerConnection": "string",
            "IamRole": {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            },
            "MergeAction": "string",
            "MergeClause": "string",
            "MergeWhenMatched": "string",
            "MergeWhenNotMatched": "string",
            "PostAction": "string",
            "PreAction": "string",
            "SampleQuery": "string",
            "Schema": {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            },
            "SelectedColumns": [
               {
```

```
                        "Description": "string",
                        "Label": "string",
                        "Value": "string"
                     }
                  ],
                  "SourceType": "string",
                  "StagingTable": "string",
                  "Table": {
                     "Description": "string",
                     "Label": "string",
                     "Value": "string"
                  },
                  "TablePrefix": "string",
                  "TableSchema": [
                     {
                        "Description": "string",
                        "Label": "string",
                        "Value": "string"
                     }
                  ],
                  "TempDir": "string",
                  "Upsert": boolean
               },
               "Inputs": [ "string" ],
               "Name": "string"
            },
            "ApplyMapping": {
               "Inputs": [ "string" ],
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            }
         },
         "S3HudiCatalogTarget": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "AutoDataQuality": {
               "EvaluationContext": "string",
```

```
            "IsEnabled": boolean
         },
         "Database": "string",
         "Inputs": [ "string" ],
         "Name": "string",
         "OutputSchemas": [
            {
               "Columns": [
                  {
                     "GlueStudioType": "string",
                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ],
         "PartitionKeys": [
            [ "string" ]
         ],
         "SchemaChangePolicy": {
            "EnableUpdateCatalog": boolean,
            "UpdateBehavior": "string"
         },
         "Table": "string"
      },
      "S3HudiDirectTarget": {
         "AdditionalOptions": {
            "string" : "string"
         },
         "AutoDataQuality": {
            "EvaluationContext": "string",
            "IsEnabled": boolean
         },
         "Compression": "string",
         "Format": "string",
         "Inputs": [ "string" ],
         "Name": "string",
         "NumberTargetPartitions": "string",
         "PartitionKeys": [
            [ "string" ]
         ],
         "Path": "string",
         "SchemaChangePolicy": {
            "Database": "string",
```

```
            "EnableUpdateCatalog": boolean,
            "Table": "string",
            "UpdateBehavior": "string"
         }
      },
      "S3HudiSource": {
         "AdditionalHudiOptions": {
            "string" : "string"
         },
         "AdditionalOptions": {
            "BoundedFiles": number,
            "BoundedSize": number,
            "EnableSamplePath": boolean,
            "SamplePath": "string"
         },
         "Name": "string",
         "OutputSchemas": [
            {
               "Columns": [
                  {
                     "GlueStudioType": "string",
                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ],
         "Paths": [ "string" ]
      },
      "S3HyperDirectTarget": {
         "AutoDataQuality": {
            "EvaluationContext": "string",
            "IsEnabled": boolean
         },
         "Compression": "string",
         "Format": "string",
         "Inputs": [ "string" ],
         "Name": "string",
         "OutputSchemas": [
            {
               "Columns": [
                  {
                     "GlueStudioType": "string",
                     "Name": "string",
```

```
                        "Type": "string"
                    }
                ]
            }
        ],
        "PartitionKeys": [
            [ "string" ]
        ],
        "Path": "string",
        "SchemaChangePolicy": {
            "Database": "string",
            "EnableUpdateCatalog": boolean,
            "Table": "string",
            "UpdateBehavior": "string"
        }
    },
    "S3IcebergCatalogTarget": {
        "AdditionalOptions": {
            "string" : "string"
        },
        "AutoDataQuality": {
            "EvaluationContext": "string",
            "IsEnabled": boolean
        },
        "Database": "string",
        "Inputs": [ "string" ],
        "Name": "string",
        "PartitionKeys": [
            [ "string" ]
        ],
        "SchemaChangePolicy": {
            "EnableUpdateCatalog": boolean,
            "UpdateBehavior": "string"
        },
        "Table": "string"
    },
    "S3IcebergDirectTarget": {
        "AdditionalOptions": {
            "string" : "string"
        },
        "AutoDataQuality": {
            "EvaluationContext": "string",
            "IsEnabled": boolean
        },
```

```
            "Compression": "string",
            "Format": "string",
            "Inputs": [ "string" ],
            "Name": "string",
            "NumberTargetPartitions": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ],
            "PartitionKeys": [
               [ "string" ]
            ],
            "Path": "string",
            "SchemaChangePolicy": {
               "Database": "string",
               "EnableUpdateCatalog": boolean,
               "Table": "string",
               "UpdateBehavior": "string"
            }
         },
         "S3JsonSource": {
            "AdditionalOptions": {
               "BoundedFiles": number,
               "BoundedSize": number,
               "EnableSamplePath": boolean,
               "SamplePath": "string"
            },
            "CompressionType": "string",
            "Exclusions": [ "string" ],
            "GroupFiles": "string",
            "GroupSize": "string",
            "JsonPath": "string",
            "MaxBand": number,
            "MaxFilesInBand": number,
            "Multiline": boolean,
            "Name": "string",
            "OutputSchemas": [
```

```
                        {
                           "Columns": [
                              {
                                 "GlueStudioType": "string",
                                 "Name": "string",
                                 "Type": "string"
                              }
                           ]
                        }
                     ],
                     "Paths": [ "string" ],
                     "Recurse": boolean
                  },
                  "S3ParquetSource": {
                     "AdditionalOptions": {
                        "BoundedFiles": number,
                        "BoundedSize": number,
                        "EnableSamplePath": boolean,
                        "SamplePath": "string"
                     },
                     "CompressionType": "string",
                     "Exclusions": [ "string" ],
                     "GroupFiles": "string",
                     "GroupSize": "string",
                     "MaxBand": number,
                     "MaxFilesInBand": number,
                     "Name": "string",
                     "OutputSchemas": [
                        {
                           "Columns": [
                              {
                                 "GlueStudioType": "string",
                                 "Name": "string",
                                 "Type": "string"
                              }
                           ]
                        }
                     ],
                     "Paths": [ "string" ],
                     "Recurse": boolean
                  },
                  "SelectFields": {
                     "Inputs": [ "string" ],
                     "Name": "string",
```

```
            "Paths": [
               [ "string" ]
            ]
         },
         "SelectFromCollection": {
            "Index": number,
            "Inputs": [ "string" ],
            "Name": "string"
         },
         "SnowflakeSource": {
            "Data": {
               "Action": "string",
               "AdditionalOptions": {
                  "string" : "string"
               },
               "AutoPushdown": boolean,
               "Connection": {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               },
               "Database": "string",
               "IamRole": {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               },
               "MergeAction": "string",
               "MergeClause": "string",
               "MergeWhenMatched": "string",
               "MergeWhenNotMatched": "string",
               "PostAction": "string",
               "PreAction": "string",
               "SampleQuery": "string",
               "Schema": "string",
               "SelectedColumns": [
                  {
                     "Description": "string",
                     "Label": "string",
                     "Value": "string"
                  }
               ],
               "SourceType": "string",
               "StagingTable": "string",
```

```
            "Table": "string",
            "TableSchema": [
               {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               }
            ],
            "TempDir": "string",
            "Upsert": boolean
         },
         "Name": "string",
         "OutputSchemas": [
            {
               "Columns": [
                  {
                     "GlueStudioType": "string",
                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ]
      },
      "SnowflakeTarget": {
         "Data": {
            "Action": "string",
            "AdditionalOptions": {
               "string" : "string"
            },
            "AutoPushdown": boolean,
            "Connection": {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            },
            "Database": "string",
            "IamRole": {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            },
            "MergeAction": "string",
            "MergeClause": "string",
```

```
            "MergeWhenMatched": "string",
            "MergeWhenNotMatched": "string",
            "PostAction": "string",
            "PreAction": "string",
            "SampleQuery": "string",
            "Schema": "string",
            "SelectedColumns": [
               {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               }
            ],
            "SourceType": "string",
            "StagingTable": "string",
            "Table": "string",
            "TableSchema": [
               {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               }
            ],
            "TempDir": "string",
            "Upsert": boolean
         },
         "Inputs": [ "string" ],
         "Name": "string"
      },
      "SparkConnectorSource": {
         "AdditionalOptions": {
            "string" : "string"
         },
         "ConnectionName": "string",
         "ConnectionType": "string",
         "ConnectorName": "string",
         "Name": "string",
         "OutputSchemas": [
            {
               "Columns": [
                  {
                     "GlueStudioType": "string",
                     "Name": "string",
                     "Type": "string"
```

```
                        }
                     ]
                  }
               ]
            },
            "SparkConnectorTarget": {
               "AdditionalOptions": {
                  "string" : "string"
               },
               "ConnectionName": "string",
               "ConnectionType": "string",
               "ConnectorName": "string",
               "Inputs": [ "string" ],
               "Name": "string",
               "OutputSchemas": [
                  {
                     "Columns": [
                        {
                           "GlueStudioType": "string",
                           "Name": "string",
                           "Type": "string"
                        }
                     ]
                  }
               ]
            },
            "SparkSQL": {
               "Inputs": [ "string" ],
               "Name": "string",
               "OutputSchemas": [
                  {
                     "Columns": [
                        {
                           "GlueStudioType": "string",
                           "Name": "string",
                           "Type": "string"
                        }
                     ]
                  }
               ],
               "SqlAliases": [
                  {
                     "Alias": "string",
                     "From": "string"
```

```
                    }
                ],
                "SqlQuery": "string"
            },
            "Spigot": {
                "Inputs": [ "string" ],
                "Name": "string",
                "Path": "string",
                "Prob": number,
                "Topk": number
            },
            "SplitFields": {
                "Inputs": [ "string" ],
                "Name": "string",
                "Paths": [
                    [ "string" ]
                ]
            },
            "Union": {
                "Inputs": [ "string" ],
                "Name": "string",
                "UnionType": "string"
            }
        }
    },
    "Command": {
        "Name": "string",
        "PythonVersion": "string",
        "Runtime": "string",
        "ScriptLocation": "string"
    },
    "Connections": {
        "Connections": [ "string" ]
    },
    "CreatedOn": number,
    "DefaultArguments": {
        "string" : "string"
    },
    "Description": "string",
    "ExecutionClass": "string",
    "ExecutionProperty": {
        "MaxConcurrentRuns": number
    },
    "GlueVersion": "string",
```

```
            "JobMode": "string",
            "JobRunQueuingEnabled": boolean,
            "LastModifiedOn": number,
            "LogUri": "string",
            "MaintenanceWindow": "string",
            "MaxCapacity": number,
            "MaxRetries": number,
            "Name": "string",
            "NonOverridableArguments": {
               "string" : "string"
            },
            "NotificationProperty": {
               "NotifyDelayAfter": number
            },
            "NumberOfWorkers": number,
            "ProfileName": "string",
            "Role": "string",
            "SecurityConfiguration": "string",
            "SourceControlDetails": {
               "AuthStrategy": "string",
               "AuthToken": "string",
               "Branch": "string",
               "Folder": "string",
               "LastCommitId": "string",
               "Owner": "string",
               "Provider": "string",
               "Repository": "string"
            },
            "Timeout": number,
            "WorkerType": "string"
         }
      ],
      "NextToken": "string"
   }
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Jobs

A list of job definitions.

Type: Array of Job objects

NextToken

A continuation token, if not all job definitions have yet been returned.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetMapping

Creates mappings.

Request Syntax

```
{
   "Location": {
      "DynamoDB": [
         {
            "Name": "string",
            "Param": boolean,
            "Value": "string"
         }
      ],
      "Jdbc": [
         {
            "Name": "string",
            "Param": boolean,
            "Value": "string"
         }
      ],
      "S3": [
         {
            "Name": "string",
            "Param": boolean,
            "Value": "string"
         }
      ]
   },
   "Sinks": [
      {
         "DatabaseName": "string",
         "TableName": "string"
      }
   ],
   "Source": {
      "DatabaseName": "string",
      "TableName": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Location

Parameters for the mapping.

Type: Location object

Required: No

Sinks

A list of target tables.

Type: Array of CatalogEntry objects

Required: No

Source

Specifies the source table.

Type: CatalogEntry object

Required: Yes

Response Syntax

```
{
   "Mapping": [
      {
         "SourcePath": "string",
         "SourceTable": "string",
         "SourceType": "string",
         "TargetPath": "string",
         "TargetTable": "string",
         "TargetType": "string"
      }
   ]
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Mapping

A list of mappings to the specified targets.

Type: Array of MappingEntry objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetMaterializedViewRefreshTaskRun

Get the associated metadata/information for a task run, given a task run ID.

Request Syntax

```
{
   "CatalogId": "string",
   "MaterializedViewRefreshTaskRunId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Catalog where the materialized view table resides. If none is supplied, the account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

MaterializedViewRefreshTaskRunId

The identifier for the particular materialized view refresh task run.

Type: String

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}`

Required: Yes

Response Syntax

```
{
   "MaterializedViewRefreshTaskRun": {
      "CatalogId": "string",
      "CreationTime": number,
      "CustomerId": "string",
      "DatabaseName": "string",
      "DPUSeconds": number,
      "EndTime": number,
      "ErrorMessage": "string",
      "LastUpdated": number,
      "MaterializedViewRefreshTaskRunId": "string",
      "ProcessedBytes": number,
      "RefreshType": "string",
      "Role": "string",
      "StartTime": number,
      "Status": "string",
      "TableName": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

MaterializedViewRefreshTaskRun

A MaterializedViewRefreshTaskRun object representing the details of the task run.

Type: MaterializedViewRefreshTaskRun object

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetMLTaskRun

Gets details for a specific task run on a machine learning transform. Machine learning task runs are asynchronous tasks that AWS Glue runs on your behalf as part of various machine learning workflows. You can check the stats of any task run by calling `GetMLTaskRun` with the `TaskRunID` and its parent transform's `TransformID`.

Request Syntax

```
{
   "TaskRunId": "string",
   "TransformId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

TaskRunId

The unique identifier of the task run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TransformId

The unique identifier of the machine learning transform.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "CompletedOn": number,
   "ErrorString": "string",
   "ExecutionTime": number,
   "LastModifiedOn": number,
   "LogGroupName": "string",
   "Properties": {
      "ExportLabelsTaskRunProperties": {
         "OutputS3Path": "string"
      },
      "FindMatchesTaskRunProperties": {
         "JobId": "string",
         "JobName": "string",
         "JobRunId": "string"
      },
      "ImportLabelsTaskRunProperties": {
         "InputS3Path": "string",
         "Replace": boolean
      },
      "LabelingSetGenerationTaskRunProperties": {
         "OutputS3Path": "string"
      },
      "TaskType": "string"
   },
   "StartedOn": number,
   "Status": "string",
   "TaskRunId": "string",
   "TransformId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CompletedOn

The date and time when this task run was completed.

Type: Timestamp

ErrorString

The error strings that are associated with the task run.

Type: String

ExecutionTime

The amount of time (in seconds) that the task run consumed resources.

Type: Integer

LastModifiedOn

The date and time when this task run was last modified.

Type: Timestamp

LogGroupName

The names of the log groups that are associated with the task run.

Type: String

Properties

The list of properties that are associated with the task run.

Type: TaskRunProperties object

StartedOn

The date and time when this task run started.

Type: Timestamp

Status

The status for this task run.

Type: String

Valid Values: `STARTING | RUNNING | STOPPING | STOPPED | SUCCEEDED | FAILED | TIMEOUT`

TaskRunId

The unique run identifier associated with this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

TransformId

The unique identifier of the task run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetMLTaskRuns

Gets a list of runs for a machine learning transform. Machine learning task runs are asynchronous tasks that AWS Glue runs on your behalf as part of various machine learning workflows. You can get a sortable, filterable list of machine learning task runs by calling `GetMLTaskRuns` with their parent transform's `TransformID` and other optional parameters as documented in this section.

This operation returns a list of historic runs and must be paginated.

Request Syntax

```
{
   "Filter": {
      "StartedAfter": number,
      "StartedBefore": number,
      "Status": "string",
      "TaskRunType": "string"
   },
   "MaxResults": number,
   "NextToken": "string",
   "Sort": {
      "Column": "string",
      "SortDirection": "string"
   },
   "TransformId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Filter

The filter criteria, in the `TaskRunFilterCriteria` structure, for the task run.

Type: TaskRunFilterCriteria object

Required: No

MaxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A token for pagination of the results. The default is empty.

Type: String

Required: No

Sort

The sorting criteria, in the `TaskRunSortCriteria` structure, for the task run.

Type: TaskRunSortCriteria object

Required: No

TransformId

The unique identifier of the machine learning transform.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "NextToken": "string",
   "TaskRuns": [
```

```
      {
         "CompletedOn": number,
         "ErrorString": "string",
         "ExecutionTime": number,
         "LastModifiedOn": number,
         "LogGroupName": "string",
         "Properties": {
            "ExportLabelsTaskRunProperties": {
               "OutputS3Path": "string"
            },
            "FindMatchesTaskRunProperties": {
               "JobId": "string",
               "JobName": "string",
               "JobRunId": "string"
            },
            "ImportLabelsTaskRunProperties": {
               "InputS3Path": "string",
               "Replace": boolean
            },
            "LabelingSetGenerationTaskRunProperties": {
               "OutputS3Path": "string"
            },
            "TaskType": "string"
         },
         "StartedOn": number,
         "Status": "string",
         "TaskRunId": "string",
         "TransformId": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A pagination token, if more results are available.

Type: String

TaskRuns

A list of task runs that are associated with the transform.

Type: Array of TaskRun objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetMLTransform

Gets an AWS Glue machine learning transform artifact and all its corresponding metadata. Machine learning transforms are a special type of transform that use machine learning to learn the details of the transformation to be performed by learning from examples provided by humans. These transformations are then saved by AWS Glue. You can retrieve their metadata by calling `GetMLTransform`.

Request Syntax

```
{
   "TransformId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

TransformId

The unique identifier of the transform, generated at the time that the transform was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "CreatedOn": number,
   "Description": "string",
   "EvaluationMetrics": {
      "FindMatchesMetrics": {
         "AreaUnderPRCurve": number,
         "ColumnImportances": [
```

```
            {
               "ColumnName": "string",
               "Importance": number
            }
         ],
         "ConfusionMatrix": {
            "NumFalseNegatives": number,
            "NumFalsePositives": number,
            "NumTrueNegatives": number,
            "NumTruePositives": number
         },
         "F1": number,
         "Precision": number,
         "Recall": number
      },
      "TransformType": "string"
   },
   "GlueVersion": "string",
   "InputRecordTables": [
      {
         "AdditionalOptions": {
            "string" : "string"
         },
         "CatalogId": "string",
         "ConnectionName": "string",
         "DatabaseName": "string",
         "TableName": "string"
      }
   ],
   "LabelCount": number,
   "LastModifiedOn": number,
   "MaxCapacity": number,
   "MaxRetries": number,
   "Name": "string",
   "NumberOfWorkers": number,
   "Parameters": {
      "FindMatchesParameters": {
         "AccuracyCostTradeoff": number,
         "EnforceProvidedLabels": boolean,
         "PrecisionRecallTradeoff": number,
         "PrimaryKeyColumnName": "string"
      },
      "TransformType": "string"
   },
```

```
   "Role": "string",
   "Schema": [
      {
         "DataType": "string",
         "Name": "string"
      }
   ],
   "Status": "string",
   "Timeout": number,
   "TransformEncryption": {
      "MlUserDataEncryption": {
         "KmsKeyId": "string",
         "MlUserDataEncryptionMode": "string"
      },
      "TaskRunSecurityConfigurationName": "string"
   },
   "TransformId": "string",
   "WorkerType": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CreatedOn

The date and time when the transform was created.

Type: Timestamp

Description

A description of the transform.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

EvaluationMetrics

The latest evaluation metrics.

Type: EvaluationMetrics object

GlueVersion

This value determines which version of AWS Glue this machine learning transform is compatible with. Glue 1.0 is recommended for most customers. If the value is not set, the Glue compatibility defaults to Glue 0.9. For more information, see AWS Glue Versions in the developer guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `^(\w+\.)+\w+$`

InputRecordTables

A list of AWS Glue table definitions used by the transform.

Type: Array of GlueTable objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

LabelCount

The number of labels available for this transform.

Type: Integer

LastModifiedOn

The date and time when the transform was last modified.

Type: Timestamp

MaxCapacity

The number of AWS Glue data processing units (DPUs) that are allocated to task runs for this transform. You can allocate from 2 to 100 DPUs; the default is 10. A DPU is a relative measure of processing power that consists of 4 vCPUs of compute capacity and 16 GB of memory. For more information, see the AWS Glue pricing page.

When the `WorkerType` field is set to a value other than `Standard`, the `MaxCapacity` field is set automatically and becomes read-only.

Type: Double

MaxRetries

The maximum number of times to retry a task for this transform after a task run fails.

Type: Integer

Name

The unique name given to the transform when it was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

NumberOfWorkers

The number of workers of a defined `workerType` that are allocated when this task runs.

Type: Integer

Parameters

The configuration parameters that are specific to the algorithm used.

Type: TransformParameters object

Role

The name or Amazon Resource Name (ARN) of the IAM role with the required permissions.

Type: String

Schema

The `Map<Column, Type>` object that represents the schema that this transform accepts. Has an upper bound of 100 columns.

Type: Array of SchemaColumn objects

Array Members: Maximum number of 100 items.

Status

The last known status of the transform (to indicate whether it can be used or not). One of "NOT_READY", "READY", or "DELETING".

Type: String

Valid Values: `NOT_READY | READY | DELETING`

Timeout

The timeout for a task run for this transform in minutes. This is the maximum time that a task run for this transform can consume resources before it is terminated and enters `TIMEOUT` status. The default is 2,880 minutes (48 hours).

Type: Integer

Valid Range: Minimum value of 1.

TransformEncryption

The encryption-at-rest settings of the transform that apply to accessing user data. Machine learning transforms can access user data encrypted in Amazon S3 using KMS.

Type: TransformEncryption object

TransformId

The unique identifier of the transform, generated at the time that the transform was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

WorkerType

The type of predefined worker that is allocated when this task runs. Accepts a value of Standard, G.1X, or G.2X.

- For the `Standard` worker type, each worker provides 4 vCPU, 16 GB of memory and a 50GB disk, and 2 executors per worker.
- For the `G.1X` worker type, each worker provides 4 vCPU, 16 GB of memory and a 64GB disk, and 1 executor per worker.
- For the `G.2X` worker type, each worker provides 8 vCPU, 32 GB of memory and a 128GB disk, and 1 executor per worker.

Type: String

Valid Values: `Standard | G.1X | G.2X | G.025X | G.4X | G.8X | Z.2X`

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetMLTransforms

Gets a sortable, filterable list of existing AWS Glue machine learning transforms. Machine learning transforms are a special type of transform that use machine learning to learn the details of the transformation to be performed by learning from examples provided by humans. These transformations are then saved by AWS Glue, and you can retrieve their metadata by calling `GetMLTransforms`.

Request Syntax

```
{
   "Filter": {
      "CreatedAfter": number,
      "CreatedBefore": number,
      "GlueVersion": "string",
      "LastModifiedAfter": number,
      "LastModifiedBefore": number,
      "Name": "string",
      "Schema": [
         {
            "DataType": "string",
            "Name": "string"
         }
      ],
      "Status": "string",
      "TransformType": "string"
   },
   "MaxResults": number,
   "NextToken": "string",
   "Sort": {
      "Column": "string",
      "SortDirection": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Filter

The filter transformation criteria.

Type: TransformFilterCriteria object

Required: No

MaxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A paginated token to offset the results.

Type: String

Required: No

Sort

The sorting criteria.

Type: TransformSortCriteria object

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "Transforms": [
      {
         "CreatedOn": number,
         "Description": "string",
         "EvaluationMetrics": {
            "FindMatchesMetrics": {
               "AreaUnderPRCurve": number,
               "ColumnImportances": [
```

```
                {
                   "ColumnName": "string",
                   "Importance": number
                }
             ],
             "ConfusionMatrix": {
                "NumFalseNegatives": number,
                "NumFalsePositives": number,
                "NumTrueNegatives": number,
                "NumTruePositives": number
             },
             "F1": number,
             "Precision": number,
             "Recall": number
          },
          "TransformType": "string"
       },
       "GlueVersion": "string",
       "InputRecordTables": [
          {
             "AdditionalOptions": {
                "string" : "string"
             },
             "CatalogId": "string",
             "ConnectionName": "string",
             "DatabaseName": "string",
             "TableName": "string"
          }
       ],
       "LabelCount": number,
       "LastModifiedOn": number,
       "MaxCapacity": number,
       "MaxRetries": number,
       "Name": "string",
       "NumberOfWorkers": number,
       "Parameters": {
          "FindMatchesParameters": {
             "AccuracyCostTradeoff": number,
             "EnforceProvidedLabels": boolean,
             "PrecisionRecallTradeoff": number,
             "PrimaryKeyColumnName": "string"
          },
          "TransformType": "string"
       },
```

```
            "Role": "string",
            "Schema": [
               {
                  "DataType": "string",
                  "Name": "string"
               }
            ],
            "Status": "string",
            "Timeout": number,
            "TransformEncryption": {
               "MlUserDataEncryption": {
                  "KmsKeyId": "string",
                  "MlUserDataEncryptionMode": "string"
               },
               "TaskRunSecurityConfigurationName": "string"
            },
            "TransformId": "string",
            "WorkerType": "string"
         }
      ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A pagination token, if more results are available.

Type: String

Transforms

A list of machine learning transforms.

Type: Array of MLTransform objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetPartition

Retrieves information about a specified partition.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "PartitionValues": [ "string" ],
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the partition in question resides. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the catalog database where the partition resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

PartitionValues

The values that define the partition.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

TableName

The name of the partition's table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Partition": {
      "CatalogId": "string",
      "CreationTime": number,
      "DatabaseName": "string",
      "LastAccessTime": number,
      "LastAnalyzedTime": number,
      "Parameters": {
         "string" : "string"
      },
      "StorageDescriptor": {
         "AdditionalLocations": [ "string" ],
         "BucketColumns": [ "string" ],
         "Columns": [
            {
               "Comment": "string",
               "Name": "string",
               "Parameters": {
                  "string" : "string"
               },
```

```
            "Type": "string"
         }
      ],
      "Compressed": boolean,
      "InputFormat": "string",
      "Location": "string",
      "NumberOfBuckets": number,
      "OutputFormat": "string",
      "Parameters": {
         "string" : "string"
      },
      "SchemaReference": {
         "SchemaId": {
            "RegistryName": "string",
            "SchemaArn": "string",
            "SchemaName": "string"
         },
         "SchemaVersionId": "string",
         "SchemaVersionNumber": number
      },
      "SerdeInfo": {
         "Name": "string",
         "Parameters": {
            "string" : "string"
         },
         "SerializationLibrary": "string"
      },
      "SkewedInfo": {
         "SkewedColumnNames": [ "string" ],
         "SkewedColumnValueLocationMaps": {
            "string" : "string"
         },
         "SkewedColumnValues": [ "string" ]
      },
      "SortColumns": [
         {
            "Column": "string",
            "SortOrder": number
         }
      ],
      "StoredAsSubDirectories": boolean
   },
   "TableName": "string",
   "Values": [ "string" ]
```

```
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Partition

The requested information, in the form of a `Partition` object.

Type: Partition object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetPartitionIndexes

Retrieves the partition indexes associated with a table.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "NextToken": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The catalog ID where the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

Specifies the name of a database from which you want to retrieve partition indexes.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

NextToken

A continuation token, included if this is a continuation call.

Type: String

Required: No

TableName

Specifies the name of a table for which you want to retrieve the partition indexes.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "NextToken": "string",
   "PartitionIndexDescriptorList": [
      {
         "BackfillErrors": [
            {
               "Code": "string",
               "Partitions": [
                  {
                     "Values": [ "string" ]
                  }
               ]
            }
         ],
         "IndexName": "string",
         "IndexStatus": "string",
         "Keys": [
            {
               "Name": "string",
               "Type": "string"
            }
```

```
            ]
        }
    ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token, present if the current list segment is not the last.

Type: String

PartitionIndexDescriptorList

A list of index descriptors.

Type: Array of PartitionIndexDescriptor objects

Errors

For information about the errors that are common to all actions, see Common Errors.

ConflictException

The `CreatePartitions` API was called on a table that has indexes enabled.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetPartitions

Retrieves information about the partitions in a table.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "ExcludeColumnSchema": boolean,
   "Expression": "string",
   "MaxResults": number,
   "NextToken": "string",
   "QueryAsOfTime": number,
   "Segment": {
      "SegmentNumber": number,
      "TotalSegments": number
   },
   "TableName": "string",
   "TransactionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the partitions in question reside. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the catalog database where the partitions reside.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

ExcludeColumnSchema

When true, specifies not returning the partition column schema. Useful when you are interested only in other partition attributes such as partition values or location. This approach avoids the problem of a large response by not returning duplicate data.

Type: Boolean

Required: No

Expression

An expression that filters the partitions to be returned.

The expression uses SQL syntax similar to the SQL `WHERE` filter clause. The SQL statement parser JSQLParser parses the expression.

Operators: The following are the operators that you can use in the `Expression` API call:

=

Checks whether the values of the two operands are equal; if yes, then the condition becomes true.

Example: Assume 'variable a' holds 10 and 'variable b' holds 20.

(a = b) is not true.

< >

Checks whether the values of two operands are equal; if the values are not equal, then the condition becomes true.

Example: (a < > b) is true.

>

Checks whether the value of the left operand is greater than the value of the right operand; if yes, then the condition becomes true.

Example: (a > b) is not true.

<

Checks whether the value of the left operand is less than the value of the right operand; if yes, then the condition becomes true.

Example: (a < b) is true.

>=

Checks whether the value of the left operand is greater than or equal to the value of the right operand; if yes, then the condition becomes true.

Example: (a >= b) is not true.

<=

Checks whether the value of the left operand is less than or equal to the value of the right operand; if yes, then the condition becomes true.

Example: (a <= b) is true.

AND, OR, IN, BETWEEN, LIKE, NOT, IS NULL

Logical operators.

Supported Partition Key Types: The following are the supported partition keys.

- `string`
- `date`
- `timestamp`
- `int`
- `bigint`
- `long`
- `tinyint`
- `smallint`
- `decimal`

If an type is encountered that is not valid, an exception is thrown.

The following list shows the valid operators on each type. When you define a crawler, the `partitionKey` type is created as a `STRING`, to be compatible with the catalog partitions.

Sample API Call:

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

MaxResults

The maximum number of partitions to return in a single response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is not the first call to retrieve these partitions.

Type: String

Required: No

QueryAsOfTime

The time as of when to read the partition contents. If not set, the most recent transaction commit time will be used. Cannot be specified along with `TransactionId`.

Type: Timestamp

Required: No

Segment

The segment of the table's partitions to scan in this request.

Type: Segment object

Required: No

TableName

The name of the partitions' table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TransactionId

The transaction ID at which to read the partition contents.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}\p{N}\p{P}]*`

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "Partitions": [
      {
         "CatalogId": "string",
         "CreationTime": number,
         "DatabaseName": "string",
         "LastAccessTime": number,
         "LastAnalyzedTime": number,
         "Parameters": {
            "string" : "string"
         },
         "StorageDescriptor": {
            "AdditionalLocations": [ "string" ],
            "BucketColumns": [ "string" ],
            "Columns": [
               {
                  "Comment": "string",
                  "Name": "string",
                  "Parameters": {
                     "string" : "string"
                  },
```

```
                "Type": "string"
            }
        ],
        "Compressed": boolean,
        "InputFormat": "string",
        "Location": "string",
        "NumberOfBuckets": number,
        "OutputFormat": "string",
        "Parameters": {
            "string" : "string"
        },
        "SchemaReference": {
            "SchemaId": {
                "RegistryName": "string",
                "SchemaArn": "string",
                "SchemaName": "string"
            },
            "SchemaVersionId": "string",
            "SchemaVersionNumber": number
        },
        "SerdeInfo": {
            "Name": "string",
            "Parameters": {
                "string" : "string"
            },
            "SerializationLibrary": "string"
        },
        "SkewedInfo": {
            "SkewedColumnNames": [ "string" ],
            "SkewedColumnValueLocationMaps": {
                "string" : "string"
            },
            "SkewedColumnValues": [ "string" ]
        },
        "SortColumns": [
            {
                "Column": "string",
                "SortOrder": number
            }
        ],
        "StoredAsSubDirectories": boolean
    },
    "TableName": "string",
    "Values": [ "string" ]
```

```
        }
    ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token, if the returned list of partitions does not include the last one.

Type: String

Partitions

A list of requested partitions.

Type: Array of Partition objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidStateException

An error that indicates your data is in an invalid state.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNotReadyException

A resource was not ready for a transaction.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetPlan

Gets code to perform a specified mapping.

Request Syntax

```
{
   "AdditionalPlanOptionsMap": {
      "string" : "string"
   },
   "Language": "string",
   "Location": {
      "DynamoDB": [
         {
            "Name": "string",
            "Param": boolean,
            "Value": "string"
         }
      ],
      "Jdbc": [
         {
            "Name": "string",
            "Param": boolean,
            "Value": "string"
         }
      ],
      "S3": [
         {
            "Name": "string",
            "Param": boolean,
            "Value": "string"
         }
      ]
   },
   "Mapping": [
      {
         "SourcePath": "string",
         "SourceTable": "string",
         "SourceType": "string",
         "TargetPath": "string",
         "TargetTable": "string",
         "TargetType": "string"
      }
```

```
    ],
    "Sinks": [
       {
          "DatabaseName": "string",
          "TableName": "string"
       }
    ],
    "Source": {
       "DatabaseName": "string",
       "TableName": "string"
    }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

AdditionalPlanOptionsMap

A map to hold additional optional key-value parameters.

Currently, these key-value pairs are supported:

- `inferSchema` — Specifies whether to set `inferSchema` to true or false for the default script generated by an AWS Glue job. For example, to set `inferSchema` to true, pass the following key value pair:

  `--additional-plan-options-map '{"inferSchema":"true"}'`

Type: String to string map

Required: No

Language

The programming language of the code to perform the mapping.

Type: String

Valid Values: `PYTHON | SCALA`

Required: No

Location

The parameters for the mapping.

Type: Location object

Required: No

Mapping

The list of mappings from a source table to target tables.

Type: Array of MappingEntry objects

Required: Yes

Sinks

The target tables.

Type: Array of CatalogEntry objects

Required: No

Source

The source table.

Type: CatalogEntry object

Required: Yes

Response Syntax

```
{
   "PythonScript": "string",
   "ScalaCode": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

PythonScript

A Python script to perform the mapping.

Type: String

ScalaCode

The Scala code to perform the mapping.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetRegistry

Describes the specified registry in detail.

Request Syntax

```
{
   "RegistryId": {
      "RegistryArn": "string",
      "RegistryName": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

RegistryId

This is a wrapper structure that may contain the registry name and Amazon Resource Name (ARN).

Type: RegistryId object

Required: Yes

Response Syntax

```
{
   "CreatedTime": "string",
   "Description": "string",
   "RegistryArn": "string",
   "RegistryName": "string",
   "Status": "string",
   "UpdatedTime": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CreatedTime

The date and time the registry was created.

Type: String

Description

A description of the registry.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

RegistryArn

The Amazon Resource Name (ARN) of the registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

RegistryName

The name of the registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

Status

The status of the registry.

Type: String

Valid Values: `AVAILABLE | DELETING`

UpdatedTime

The date and time the registry was updated.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetResourcePolicies

Retrieves the resource policies set on individual resources by AWS Resource Access Manager during cross-account permission grants. Also retrieves the Data Catalog resource policy.

If you enabled metadata encryption in Data Catalog settings, and you do not have permission on the AWS KMS key, the operation can't return the Data Catalog resource policy.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The maximum size of a list to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation request.

Type: String

Required: No

Response Syntax

```
{
```

```
   "GetResourcePoliciesResponseList": [
      {
         "CreateTime": number,
         "PolicyHash": "string",
         "PolicyInJson": "string",
         "UpdateTime": number
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

GetResourcePoliciesResponseList

A list of the individual resource policies and the account-level resource policy.

Type: Array of GluePolicy objects

NextToken

A continuation token, if the returned list does not contain the last resource policy available.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetResourcePolicy

Retrieves a specified resource policy.

Request Syntax

```
{
   "ResourceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ResourceArn

The ARN of the AWS Glue resource for which to retrieve the resource policy. If not supplied, the Data Catalog resource policy is returned. Use `GetResourcePolicies` to view all existing resource policies. For more information see Specifying AWS Glue Resource ARNs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

Required: No

Response Syntax

```
{
   "CreateTime": number,
   "PolicyHash": "string",
   "PolicyInJson": "string",
   "UpdateTime": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CreateTime

The date and time at which the policy was created.

Type: Timestamp

PolicyHash

Contains the hash value associated with this policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

PolicyInJson

Contains the requested policy document, in JSON format.

Type: String

Length Constraints: Minimum length of 2.

UpdateTime

The date and time at which the policy was last updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetSchema

Describes the specified schema in detail.

Request Syntax

```
{
   "SchemaId": {
      "RegistryName": "string",
      "SchemaArn": "string",
      "SchemaName": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

SchemaId

This is a wrapper structure to contain schema identity fields. The structure contains:

- SchemaId$SchemaArn: The Amazon Resource Name (ARN) of the schema. Either `SchemaArn` or `SchemaName` and `RegistryName` has to be provided.
- SchemaId$SchemaName: The name of the schema. Either `SchemaArn` or `SchemaName` and `RegistryName` has to be provided.

Type: SchemaId object

Required: Yes

Response Syntax

```
{
   "Compatibility": "string",
   "CreatedTime": "string",
   "DataFormat": "string",
   "Description": "string",
```

```
    "LatestSchemaVersion": number,
    "NextSchemaVersion": number,
    "RegistryArn": "string",
    "RegistryName": "string",
    "SchemaArn": "string",
    "SchemaCheckpoint": number,
    "SchemaName": "string",
    "SchemaStatus": "string",
    "UpdatedTime": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Compatibility

The compatibility mode of the schema.

Type: String

Valid Values: `NONE | DISABLED | BACKWARD | BACKWARD_ALL | FORWARD | FORWARD_ALL | FULL | FULL_ALL`

CreatedTime

The date and time the schema was created.

Type: String

DataFormat

The data format of the schema definition. Currently `AVRO`, `JSON` and `PROTOBUF` are supported.

Type: String

Valid Values: `AVRO | JSON | PROTOBUF`

Description

A description of schema if specified when created

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

LatestSchemaVersion

The latest version of the schema associated with the returned schema definition.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 100000.

NextSchemaVersion

The next version of the schema associated with the returned schema definition.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 100000.

RegistryArn

The Amazon Resource Name (ARN) of the registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

RegistryName

The name of the registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

SchemaArn

The Amazon Resource Name (ARN) of the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

SchemaCheckpoint

The version number of the checkpoint (the last time the compatibility mode was changed).

Type: Long

Valid Range: Minimum value of 1. Maximum value of 100000.

SchemaName

The name of the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

SchemaStatus

The status of the schema.

Type: String

Valid Values: `AVAILABLE | PENDING | DELETING`

UpdatedTime

The date and time the schema was updated.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetSchemaByDefinition

Retrieves a schema by the `SchemaDefinition`. The schema definition is sent to the Schema Registry, canonicalized, and hashed. If the hash is matched within the scope of the `SchemaName` or ARN (or the default registry, if none is supplied), that schema's metadata is returned. Otherwise, a 404 or NotFound error is returned. Schema versions in `Deleted` statuses will not be included in the results.

Request Syntax

```
{
   "SchemaDefinition": "string",
   "SchemaId": {
      "RegistryName": "string",
      "SchemaArn": "string",
      "SchemaName": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

SchemaDefinition

The definition of the schema for which schema details are required.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 170000.

Pattern: `.*\S.*`

Required: Yes

SchemaId

This is a wrapper structure to contain schema identity fields. The structure contains:

- SchemaId$SchemaArn: The Amazon Resource Name (ARN) of the schema. One of `SchemaArn` or `SchemaName` has to be provided.

- SchemaId$SchemaName: The name of the schema. One of `SchemaArn` or `SchemaName` has to be provided.

Type: SchemaId object

Required: Yes

Response Syntax

```
{
   "CreatedTime": "string",
   "DataFormat": "string",
   "SchemaArn": "string",
   "SchemaVersionId": "string",
   "Status": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CreatedTime

The date and time the schema was created.

Type: String

DataFormat

The data format of the schema definition. Currently `AVRO`, `JSON` and `PROTOBUF` are supported.

Type: String

Valid Values: `AVRO` | `JSON` | `PROTOBUF`

SchemaArn

The Amazon Resource Name (ARN) of the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

SchemaVersionId

The schema ID of the schema version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Status

The status of the schema version.

Type: String

Valid Values: `AVAILABLE | PENDING | FAILURE | DELETING`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetSchemaVersion

Get the specified schema by its unique ID assigned when a version of the schema is created or registered. Schema versions in Deleted status will not be included in the results.

Request Syntax

```
{
   "SchemaId": {
      "RegistryName": "string",
      "SchemaArn": "string",
      "SchemaName": "string"
   },
   "SchemaVersionId": "string",
   "SchemaVersionNumber": {
      "LatestVersion": boolean,
      "VersionNumber": number
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

SchemaId

This is a wrapper structure to contain schema identity fields. The structure contains:

- SchemaId$SchemaArn: The Amazon Resource Name (ARN) of the schema. Either `SchemaArn` or `SchemaName` and `RegistryName` has to be provided.
- SchemaId$SchemaName: The name of the schema. Either `SchemaArn` or `SchemaName` and `RegistryName` has to be provided.

Type: SchemaId object

Required: No

SchemaVersionId

The `SchemaVersionId` of the schema version. This field is required for fetching by schema ID. Either this or the `SchemaId` wrapper has to be provided.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

SchemaVersionNumber

The version number of the schema.

Type: SchemaVersionNumber object

Required: No

Response Syntax

```
{
   "CreatedTime": "string",
   "DataFormat": "string",
   "SchemaArn": "string",
   "SchemaDefinition": "string",
   "SchemaVersionId": "string",
   "Status": "string",
   "VersionNumber": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CreatedTime

The date and time the schema version was created.

Type: String

DataFormat

The data format of the schema definition. Currently `AVRO`, `JSON` and `PROTOBUF` are supported.

Type: String

Valid Values: `AVRO | JSON | PROTOBUF`

SchemaArn

The Amazon Resource Name (ARN) of the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

SchemaDefinition

The schema definition for the schema ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 170000.

Pattern: `.*\S.*`

SchemaVersionId

The `SchemaVersionId` of the schema version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Status

The status of the schema version.

Type: String

Valid Values: `AVAILABLE | PENDING | FAILURE | DELETING`

VersionNumber

The version number of the schema.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 100000.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetSchemaVersionsDiff

Fetches the schema version difference in the specified difference type between two stored schema versions in the Schema Registry.

This API allows you to compare two schema versions between two schema definitions under the same schema.

Request Syntax

```
{
   "FirstSchemaVersionNumber": {
      "LatestVersion": boolean,
      "VersionNumber": number
   },
   "SchemaDiffType": "string",
   "SchemaId": {
      "RegistryName": "string",
      "SchemaArn": "string",
      "SchemaName": "string"
   },
   "SecondSchemaVersionNumber": {
      "LatestVersion": boolean,
      "VersionNumber": number
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

FirstSchemaVersionNumber

The first of the two schema versions to be compared.

Type: SchemaVersionNumber object

Required: Yes

SchemaDiffType

Refers to SYNTAX_DIFF, which is the currently supported diff type.

Type: String

Valid Values: SYNTAX_DIFF

Required: Yes

SchemaId

This is a wrapper structure to contain schema identity fields. The structure contains:

- SchemaId$SchemaArn: The Amazon Resource Name (ARN) of the schema. One of SchemaArn or SchemaName has to be provided.
- SchemaId$SchemaName: The name of the schema. One of SchemaArn or SchemaName has to be provided.

Type: SchemaId object

Required: Yes

SecondSchemaVersionNumber

The second of the two schema versions to be compared.

Type: SchemaVersionNumber object

Required: Yes

Response Syntax

```
{
   "Diff": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Diff

The difference between schemas as a string in JsonPatch format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 340000.

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetSecurityConfiguration

Retrieves a specified security configuration.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the security configuration to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "SecurityConfiguration": {
      "CreatedTimeStamp": number,
      "EncryptionConfiguration": {
         "CloudWatchEncryption": {
            "CloudWatchEncryptionMode": "string",
            "KmsKeyArn": "string"
         },
         "DataQualityEncryption": {
            "DataQualityEncryptionMode": "string",
            "KmsKeyArn": "string"
```

```
         },
         "JobBookmarksEncryption": {
            "JobBookmarksEncryptionMode": "string",
            "KmsKeyArn": "string"
         },
         "S3Encryption": [
            {
               "KmsKeyArn": "string",
               "S3EncryptionMode": "string"
            }
         ]
      },
      "Name": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

SecurityConfiguration

The requested security configuration.

Type: SecurityConfiguration object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetSecurityConfigurations

Retrieves a list of all security configurations.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "SecurityConfigurations": [
```

```
      {
         "CreatedTimeStamp": number,
         "EncryptionConfiguration": {
            "CloudWatchEncryption": {
               "CloudWatchEncryptionMode": "string",
               "KmsKeyArn": "string"
            },
            "DataQualityEncryption": {
               "DataQualityEncryptionMode": "string",
               "KmsKeyArn": "string"
            },
            "JobBookmarksEncryption": {
               "JobBookmarksEncryptionMode": "string",
               "KmsKeyArn": "string"
            },
            "S3Encryption": [
               {
                  "KmsKeyArn": "string",
                  "S3EncryptionMode": "string"
               }
            ]
         },
         "Name": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token, if there are more security configurations to return.

Type: String

SecurityConfigurations

A list of security configurations.

Type: Array of SecurityConfiguration objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetSession

Retrieves the session.

Request Syntax

```
{
   "Id": "string",
   "RequestOrigin": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Id

The ID of the session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

RequestOrigin

The origin of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: No

Response Syntax

```
{
   "Session": {
      "Command": {
         "Name": "string",
         "PythonVersion": "string"
      },
      "CompletedOn": number,
      "Connections": {
         "Connections": [ "string" ]
      },
      "CreatedOn": number,
      "DefaultArguments": {
         "string" : "string"
      },
      "Description": "string",
      "DPUSeconds": number,
      "ErrorMessage": "string",
      "ExecutionTime": number,
      "GlueVersion": "string",
      "Id": "string",
      "IdleTimeout": number,
      "MaxCapacity": number,
      "NumberOfWorkers": number,
      "ProfileName": "string",
      "Progress": number,
      "Role": "string",
      "SecurityConfiguration": "string",
      "Status": "string",
      "WorkerType": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Session

The session object is returned in the response.

Type: Session object

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetStatement

Retrieves the statement.

Request Syntax

```
{
   "Id": number,
   "RequestOrigin": "string",
   "SessionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Id

The Id of the statement.

Type: Integer

Required: Yes

RequestOrigin

The origin of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: No

SessionId

The Session ID of the statement.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Statement": {
      "Code": "string",
      "CompletedOn": number,
      "Id": number,
      "Output": {
         "Data": {
            "TextPlain": "string"
         },
         "ErrorName": "string",
         "ErrorValue": "string",
         "ExecutionCount": number,
         "Status": "string",
         "Traceback": [ "string" ]
      },
      "Progress": number,
      "StartedOn": number,
      "State": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Statement

Returns the statement.

Type: Statement object

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

IllegalSessionStateException

The session is in an invalid state to perform a requested operation.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetTable

Retrieves the `Table` definition in a Data Catalog for a specified table.

Request Syntax

```
{
   "AuditContext": {
      "AdditionalAuditContext": "string",
      "AllColumnsRequested": boolean,
      "RequestedColumns": [ "string" ]
   },
   "CatalogId": "string",
   "DatabaseName": "string",
   "IncludeStatusDetails": boolean,
   "Name": "string",
   "QueryAsOfTime": number,
   "TransactionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

AuditContext

A structure containing the Lake Formation audit context.

Type: AuditContext object

Required: No

CatalogId

The ID of the Data Catalog where the table resides. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the database in the catalog in which the table resides. For Hive compatibility, this name is entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

IncludeStatusDetails

Specifies whether to include status details related to a request to create or update an AWS Glue Data Catalog view.

Type: Boolean

Required: No

Name

The name of the table for which to retrieve the definition. For Hive compatibility, this name is entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

QueryAsOfTime

The time as of when to read the table contents. If not set, the most recent transaction commit time will be used. Cannot be specified along with `TransactionId`.

Type: Timestamp

Required: No

TransactionId

The transaction ID at which to read the table contents.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}\p{N}\p{P}]*`

Required: No

Response Syntax

```
{
   "Table": {
      "CatalogId": "string",
      "CreatedBy": "string",
      "CreateTime": number,
      "DatabaseName": "string",
      "Description": "string",
      "FederatedTable": {
         "ConnectionName": "string",
         "ConnectionType": "string",
         "DatabaseIdentifier": "string",
         "Identifier": "string"
      },
      "IsMaterializedView": boolean,
      "IsMultiDialectView": boolean,
      "IsRegisteredWithLakeFormation": boolean,
      "LastAccessTime": number,
      "LastAnalyzedTime": number,
      "Name": "string",
      "Owner": "string",
      "Parameters": {
         "string" : "string"
      },
      "PartitionKeys": [
         {
            "Comment": "string",
            "Name": "string",
            "Parameters": {
               "string" : "string"
```

```
            },
            "Type": "string"
         }
      ],
      "Retention": number,
      "Status": {
         "Action": "string",
         "Details": {
            "RequestedChange": "Table",
            "ViewValidations": [
               {
                  "Dialect": "string",
                  "DialectVersion": "string",
                  "Error": {
                     "ErrorCode": "string",
                     "ErrorMessage": "string"
                  },
                  "State": "string",
                  "UpdateTime": number,
                  "ViewValidationText": "string"
               }
            ]
         },
         "Error": {
            "ErrorCode": "string",
            "ErrorMessage": "string"
         },
         "RequestedBy": "string",
         "RequestTime": number,
         "State": "string",
         "UpdatedBy": "string",
         "UpdateTime": number
      },
      "StorageDescriptor": {
         "AdditionalLocations": [ "string" ],
         "BucketColumns": [ "string" ],
         "Columns": [
            {
               "Comment": "string",
               "Name": "string",
               "Parameters": {
                  "string" : "string"
               },
               "Type": "string"
```

```
            }
         ],
         "Compressed": boolean,
         "InputFormat": "string",
         "Location": "string",
         "NumberOfBuckets": number,
         "OutputFormat": "string",
         "Parameters": {
            "string" : "string"
         },
         "SchemaReference": {
            "SchemaId": {
               "RegistryName": "string",
               "SchemaArn": "string",
               "SchemaName": "string"
            },
            "SchemaVersionId": "string",
            "SchemaVersionNumber": number
         },
         "SerdeInfo": {
            "Name": "string",
            "Parameters": {
               "string" : "string"
            },
            "SerializationLibrary": "string"
         },
         "SkewedInfo": {
            "SkewedColumnNames": [ "string" ],
            "SkewedColumnValueLocationMaps": {
               "string" : "string"
            },
            "SkewedColumnValues": [ "string" ]
         },
         "SortColumns": [
            {
               "Column": "string",
               "SortOrder": number
            }
         ],
         "StoredAsSubDirectories": boolean
      },
      "TableType": "string",
      "TargetTable": {
         "CatalogId": "string",
```

```
            "DatabaseName": "string",
            "Name": "string",
            "Region": "string"
         },
         "UpdateTime": number,
         "VersionId": "string",
         "ViewDefinition": {
            "Definer": "string",
            "IsProtected": boolean,
            "LastRefreshType": "string",
            "RefreshSeconds": number,
            "Representations": [
               {
                  "Dialect": "string",
                  "DialectVersion": "string",
                  "IsStale": boolean,
                  "ValidationConnection": "string",
                  "ViewExpandedText": "string",
                  "ViewOriginalText": "string"
               }
            ],
            "SubObjects": [ "string" ],
            "SubObjectVersionIds": [ number ],
            "ViewVersionId": number,
            "ViewVersionToken": "string"
         },
         "ViewExpandedText": "string",
         "ViewOriginalText": "string"
      }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Table

The `Table` object that defines the specified table.

Type: Table object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNotReadyException

A resource was not ready for a transaction.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetTableOptimizer

Returns the configuration of all optimizers associated with a specified table.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "TableName": "string",
   "Type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The Catalog ID of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

DatabaseName

The name of the database in the catalog in which the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Type

The type of table optimizer.

Type: String

Valid Values: `compaction | retention | orphan_file_deletion`

Required: Yes

Response Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "TableName": "string",
   "TableOptimizer": {
      "configuration": {
         "compactionConfiguration": {
            "icebergConfiguration": {
               "deleteFileThreshold": number,
               "minInputFiles": number,
               "strategy": "string"
            }
         },
         "enabled": boolean,
         "orphanFileDeletionConfiguration": {
            "icebergConfiguration": {
               "location": "string",
               "orphanFileRetentionPeriodInDays": number,
               "runRateInHours": number
            }
```

```
         },
         "retentionConfiguration": {
            "icebergConfiguration": {
               "cleanExpiredFiles": boolean,
               "numberOfSnapshotsToRetain": number,
               "runRateInHours": number,
               "snapshotRetentionPeriodInDays": number
            }
         },
         "roleArn": "string",
         "vpcConfiguration": { ... }
      },
      "configurationSource": "string",
      "lastRun": {
         "compactionMetrics": {
            "IcebergMetrics": {
               "DpuHours": number,
               "JobDurationInHour": number,
               "NumberOfBytesCompacted": number,
               "NumberOfDpus": number,
               "NumberOfFilesCompacted": number
            }
         },
         "compactionStrategy": "string",
         "endTimestamp": number,
         "error": "string",
         "eventType": "string",
         "metrics": {
            "JobDurationInHour": "string",
            "NumberOfBytesCompacted": "string",
            "NumberOfDpus": "string",
            "NumberOfFilesCompacted": "string"
         },
         "orphanFileDeletionMetrics": {
            "IcebergMetrics": {
               "DpuHours": number,
               "JobDurationInHour": number,
               "NumberOfDpus": number,
               "NumberOfOrphanFilesDeleted": number
            }
         },
         "retentionMetrics": {
            "IcebergMetrics": {
               "DpuHours": number,
```

```
                "JobDurationInHour": number,
                "NumberOfDataFilesDeleted": number,
                "NumberOfDpus": number,
                "NumberOfManifestFilesDeleted": number,
                "NumberOfManifestListsDeleted": number
            }
         },
         "startTimestamp": number
      },
      "type": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CatalogId

The Catalog ID of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

DatabaseName

The name of the database in the catalog in which the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

TableName

The name of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

TableOptimizer

The optimizer associated with the specified table.

Type: TableOptimizer object

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ThrottlingException

The throttling threshhold was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetTables

Retrieves the definitions of some or all of the tables in a given `Database`.

Request Syntax

```
{
   "AttributesToGet": [ "string" ],
   "AuditContext": {
      "AdditionalAuditContext": "string",
      "AllColumnsRequested": boolean,
      "RequestedColumns": [ "string" ]
   },
   "CatalogId": "string",
   "DatabaseName": "string",
   "Expression": "string",
   "IncludeStatusDetails": boolean,
   "MaxResults": number,
   "NextToken": "string",
   "QueryAsOfTime": number,
   "TransactionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

AttributesToGet

Specifies the table fields returned by the `GetTables` call. This parameter doesn't accept an empty list. The request must include `NAME`.

The following are the valid combinations of values:

- `NAME` - Names of all tables in the database.
- `NAME, TABLE_TYPE` - Names of all tables and the table types.

Type: Array of strings

Valid Values: `NAME | TABLE_TYPE`

Required: No

AuditContext

A structure containing the Lake Formation audit context.

Type: AuditContext object

Required: No

CatalogId

The ID of the Data Catalog where the tables reside. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The database in the catalog whose tables to list. For Hive compatibility, this name is entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Expression

A regular expression pattern. If present, only those tables whose names match the pattern are returned.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

IncludeStatusDetails

Specifies whether to include status details related to a request to create or update an AWS Glue Data Catalog view.

Type: Boolean

Required: No

MaxResults

The maximum number of tables to return in a single response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

A continuation token, included if this is a continuation call.

Type: String

Required: No

QueryAsOfTime

The time as of when to read the table contents. If not set, the most recent transaction commit time will be used. Cannot be specified along with `TransactionId`.

Type: Timestamp

Required: No

TransactionId

The transaction ID at which to read the table contents.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}\p{N}\p{P}]*`

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "TableList": [
      {
         "CatalogId": "string",
         "CreatedBy": "string",
         "CreateTime": number,
         "DatabaseName": "string",
         "Description": "string",
         "FederatedTable": {
            "ConnectionName": "string",
            "ConnectionType": "string",
            "DatabaseIdentifier": "string",
            "Identifier": "string"
         },
         "IsMaterializedView": boolean,
         "IsMultiDialectView": boolean,
         "IsRegisteredWithLakeFormation": boolean,
         "LastAccessTime": number,
         "LastAnalyzedTime": number,
         "Name": "string",
         "Owner": "string",
         "Parameters": {
            "string" : "string"
         },
         "PartitionKeys": [
            {
               "Comment": "string",
               "Name": "string",
               "Parameters": {
                  "string" : "string"
               },
               "Type": "string"
            }
         ],
         "Retention": number,
         "Status": {
            "Action": "string",
            "Details": {
               "RequestedChange": "Table",
               "ViewValidations": [
```

```
                {
                   "Dialect": "string",
                   "DialectVersion": "string",
                   "Error": {
                      "ErrorCode": "string",
                      "ErrorMessage": "string"
                   },
                   "State": "string",
                   "UpdateTime": number,
                   "ViewValidationText": "string"
                }
             ]
          },
          "Error": {
             "ErrorCode": "string",
             "ErrorMessage": "string"
          },
          "RequestedBy": "string",
          "RequestTime": number,
          "State": "string",
          "UpdatedBy": "string",
          "UpdateTime": number
       },
       "StorageDescriptor": {
          "AdditionalLocations": [ "string" ],
          "BucketColumns": [ "string" ],
          "Columns": [
             {
                "Comment": "string",
                "Name": "string",
                "Parameters": {
                   "string" : "string"
                },
                "Type": "string"
             }
          ],
          "Compressed": boolean,
          "InputFormat": "string",
          "Location": "string",
          "NumberOfBuckets": number,
          "OutputFormat": "string",
          "Parameters": {
             "string" : "string"
          },
```

```
            "SchemaReference": {
               "SchemaId": {
                  "RegistryName": "string",
                  "SchemaArn": "string",
                  "SchemaName": "string"
               },
               "SchemaVersionId": "string",
               "SchemaVersionNumber": number
            },
            "SerdeInfo": {
               "Name": "string",
               "Parameters": {
                  "string" : "string"
               },
               "SerializationLibrary": "string"
            },
            "SkewedInfo": {
               "SkewedColumnNames": [ "string" ],
               "SkewedColumnValueLocationMaps": {
                  "string" : "string"
               },
               "SkewedColumnValues": [ "string" ]
            },
            "SortColumns": [
               {
                  "Column": "string",
                  "SortOrder": number
               }
            ],
            "StoredAsSubDirectories": boolean
         },
         "TableType": "string",
         "TargetTable": {
            "CatalogId": "string",
            "DatabaseName": "string",
            "Name": "string",
            "Region": "string"
         },
         "UpdateTime": number,
         "VersionId": "string",
         "ViewDefinition": {
            "Definer": "string",
            "IsProtected": boolean,
            "LastRefreshType": "string",
```

```
            "RefreshSeconds": number,
            "Representations": [
               {
                  "Dialect": "string",
                  "DialectVersion": "string",
                  "IsStale": boolean,
                  "ValidationConnection": "string",
                  "ViewExpandedText": "string",
                  "ViewOriginalText": "string"
               }
            ],
            "SubObjects": [ "string" ],
            "SubObjectVersionIds": [ number ],
            "ViewVersionId": number,
            "ViewVersionToken": "string"
         },
         "ViewExpandedText": "string",
         "ViewOriginalText": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token, present if the current list segment is not the last.

Type: String

TableList

A list of the requested `Table` objects.

Type: Array of Table objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetTableVersion

Retrieves a specified version of a table.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "TableName": "string",
   "VersionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the tables reside. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The database in the catalog in which the table resides. For Hive compatibility, this name is entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the table. For Hive compatibility, this name is entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

VersionId

The ID value of the table version to be retrieved. A `VersionID` is a string representation of an integer. Each version is incremented by 1.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Response Syntax

```
{
   "TableVersion": {
      "Table": {
         "CatalogId": "string",
         "CreatedBy": "string",
         "CreateTime": number,
         "DatabaseName": "string",
         "Description": "string",
         "FederatedTable": {
            "ConnectionName": "string",
            "ConnectionType": "string",
            "DatabaseIdentifier": "string",
            "Identifier": "string"
         },
         "IsMaterializedView": boolean,
         "IsMultiDialectView": boolean,
         "IsRegisteredWithLakeFormation": boolean,
```

```
      "LastAccessTime": number,
      "LastAnalyzedTime": number,
      "Name": "string",
      "Owner": "string",
      "Parameters": {
         "string" : "string"
      },
      "PartitionKeys": [
         {
            "Comment": "string",
            "Name": "string",
            "Parameters": {
               "string" : "string"
            },
            "Type": "string"
         }
      ],
      "Retention": number,
      "Status": {
         "Action": "string",
         "Details": {
            "RequestedChange": "Table",
            "ViewValidations": [
               {
                  "Dialect": "string",
                  "DialectVersion": "string",
                  "Error": {
                     "ErrorCode": "string",
                     "ErrorMessage": "string"
                  },
                  "State": "string",
                  "UpdateTime": number,
                  "ViewValidationText": "string"
               }
            ]
         },
         "Error": {
            "ErrorCode": "string",
            "ErrorMessage": "string"
         },
         "RequestedBy": "string",
         "RequestTime": number,
         "State": "string",
         "UpdatedBy": "string",
```

```
            "UpdateTime": number
         },
         "StorageDescriptor": {
            "AdditionalLocations": [ "string" ],
            "BucketColumns": [ "string" ],
            "Columns": [
               {
                  "Comment": "string",
                  "Name": "string",
                  "Parameters": {
                     "string" : "string"
                  },
                  "Type": "string"
               }
            ],
            "Compressed": boolean,
            "InputFormat": "string",
            "Location": "string",
            "NumberOfBuckets": number,
            "OutputFormat": "string",
            "Parameters": {
               "string" : "string"
            },
            "SchemaReference": {
               "SchemaId": {
                  "RegistryName": "string",
                  "SchemaArn": "string",
                  "SchemaName": "string"
               },
               "SchemaVersionId": "string",
               "SchemaVersionNumber": number
            },
            "SerdeInfo": {
               "Name": "string",
               "Parameters": {
                  "string" : "string"
               },
               "SerializationLibrary": "string"
            },
            "SkewedInfo": {
               "SkewedColumnNames": [ "string" ],
               "SkewedColumnValueLocationMaps": {
                  "string" : "string"
               },
```

```
            "SkewedColumnValues": [ "string" ]
         },
         "SortColumns": [
            {
               "Column": "string",
               "SortOrder": number
            }
         ],
         "StoredAsSubDirectories": boolean
      },
      "TableType": "string",
      "TargetTable": {
         "CatalogId": "string",
         "DatabaseName": "string",
         "Name": "string",
         "Region": "string"
      },
      "UpdateTime": number,
      "VersionId": "string",
      "ViewDefinition": {
         "Definer": "string",
         "IsProtected": boolean,
         "LastRefreshType": "string",
         "RefreshSeconds": number,
         "Representations": [
            {
               "Dialect": "string",
               "DialectVersion": "string",
               "IsStale": boolean,
               "ValidationConnection": "string",
               "ViewExpandedText": "string",
               "ViewOriginalText": "string"
            }
         ],
         "SubObjects": [ "string" ],
         "SubObjectVersionIds": [ number ],
         "ViewVersionId": number,
         "ViewVersionToken": "string"
      },
      "ViewExpandedText": "string",
      "ViewOriginalText": "string"
   },
   "VersionId": "string"
}
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

TableVersion

The requested table version.

Type: TableVersion object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetTableVersions

Retrieves a list of strings that identify available versions of a specified table.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "MaxResults": number,
   "NextToken": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the tables reside. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The database in the catalog in which the table resides. For Hive compatibility, this name is entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

MaxResults

The maximum number of table versions to return in one response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

A continuation token, if this is not the first call.

Type: String

Required: No

TableName

The name of the table. For Hive compatibility, this name is entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "NextToken": "string",
   "TableVersions": [
      {
         "Table": {
            "CatalogId": "string",
            "CreatedBy": "string",
            "CreateTime": number,
            "DatabaseName": "string",
            "Description": "string",
            "FederatedTable": {
               "ConnectionName": "string",
```

```
            "ConnectionType": "string",
            "DatabaseIdentifier": "string",
            "Identifier": "string"
         },
         "IsMaterializedView": boolean,
         "IsMultiDialectView": boolean,
         "IsRegisteredWithLakeFormation": boolean,
         "LastAccessTime": number,
         "LastAnalyzedTime": number,
         "Name": "string",
         "Owner": "string",
         "Parameters": {
            "string" : "string"
         },
         "PartitionKeys": [
            {
               "Comment": "string",
               "Name": "string",
               "Parameters": {
                  "string" : "string"
               },
               "Type": "string"
            }
         ],
         "Retention": number,
         "Status": {
            "Action": "string",
            "Details": {
               "RequestedChange": "Table",
               "ViewValidations": [
                  {
                     "Dialect": "string",
                     "DialectVersion": "string",
                     "Error": {
                        "ErrorCode": "string",
                        "ErrorMessage": "string"
                     },
                     "State": "string",
                     "UpdateTime": number,
                     "ViewValidationText": "string"
                  }
               ]
            },
            "Error": {
```

```
            "ErrorCode": "string",
            "ErrorMessage": "string"
         },
         "RequestedBy": "string",
         "RequestTime": number,
         "State": "string",
         "UpdatedBy": "string",
         "UpdateTime": number
      },
      "StorageDescriptor": {
         "AdditionalLocations": [ "string" ],
         "BucketColumns": [ "string" ],
         "Columns": [
            {
               "Comment": "string",
               "Name": "string",
               "Parameters": {
                  "string" : "string"
               },
               "Type": "string"
            }
         ],
         "Compressed": boolean,
         "InputFormat": "string",
         "Location": "string",
         "NumberOfBuckets": number,
         "OutputFormat": "string",
         "Parameters": {
            "string" : "string"
         },
         "SchemaReference": {
            "SchemaId": {
               "RegistryName": "string",
               "SchemaArn": "string",
               "SchemaName": "string"
            },
            "SchemaVersionId": "string",
            "SchemaVersionNumber": number
         },
         "SerdeInfo": {
            "Name": "string",
            "Parameters": {
               "string" : "string"
            },
```

```
            "SerializationLibrary": "string"
         },
         "SkewedInfo": {
            "SkewedColumnNames": [ "string" ],
            "SkewedColumnValueLocationMaps": {
               "string" : "string"
            },
            "SkewedColumnValues": [ "string" ]
         },
         "SortColumns": [
            {
               "Column": "string",
               "SortOrder": number
            }
         ],
         "StoredAsSubDirectories": boolean
      },
      "TableType": "string",
      "TargetTable": {
         "CatalogId": "string",
         "DatabaseName": "string",
         "Name": "string",
         "Region": "string"
      },
      "UpdateTime": number,
      "VersionId": "string",
      "ViewDefinition": {
         "Definer": "string",
         "IsProtected": boolean,
         "LastRefreshType": "string",
         "RefreshSeconds": number,
         "Representations": [
            {
               "Dialect": "string",
               "DialectVersion": "string",
               "IsStale": boolean,
               "ValidationConnection": "string",
               "ViewExpandedText": "string",
               "ViewOriginalText": "string"
            }
         ],
         "SubObjects": [ "string" ],
         "SubObjectVersionIds": [ number ],
         "ViewVersionId": number,
```

```
                "ViewVersionToken": "string"
            },
            "ViewExpandedText": "string",
            "ViewOriginalText": "string"
        },
        "VersionId": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token, if the list of available versions does not include the last one.

Type: String

TableVersions

A list of strings identifying available versions of the specified table.

Type: Array of TableVersion objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetTags

Retrieves a list of tags associated with a resource.

Request Syntax

```
{
   "ResourceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ResourceArn

The Amazon Resource Name (ARN) of the resource for which to retrieve tags.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

Required: Yes

Response Syntax

```
{
   "Tags": {
      "string" : "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Tags

The requested tags.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetTrigger

Retrieves the definition of a trigger.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the trigger to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Trigger": {
      "Actions": [
         {
            "Arguments": {
               "string" : "string"
            },
            "CrawlerName": "string",
            "JobName": "string",
            "NotificationProperty": {
```

```
            "NotifyDelayAfter": number
         },
         "SecurityConfiguration": "string",
         "Timeout": number
      }
   ],
   "Description": "string",
   "EventBatchingCondition": {
      "BatchSize": number,
      "BatchWindow": number
   },
   "Id": "string",
   "Name": "string",
   "Predicate": {
      "Conditions": [
         {
            "CrawlerName": "string",
            "CrawlState": "string",
            "JobName": "string",
            "LogicalOperator": "string",
            "State": "string"
         }
      ],
      "Logical": "string"
   },
   "Schedule": "string",
   "State": "string",
   "Type": "string",
   "WorkflowName": "string"
}
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Trigger

The requested trigger definition.

Type: Trigger object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetTriggers

Gets all the triggers associated with a job.

Request Syntax

```
{
   "DependentJobName": "string",
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

DependentJobName

The name of the job to retrieve triggers for. The trigger that can start this job is returned, and if there is no such trigger, all triggers are returned.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

MaxResults

The maximum size of the response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 200.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "Triggers": [
      {
         "Actions": [
            {
               "Arguments": {
                  "string" : "string"
               },
               "CrawlerName": "string",
               "JobName": "string",
               "NotificationProperty": {
                  "NotifyDelayAfter": number
               },
               "SecurityConfiguration": "string",
               "Timeout": number
            }
         ],
         "Description": "string",
         "EventBatchingCondition": {
            "BatchSize": number,
            "BatchWindow": number
         },
         "Id": "string",
         "Name": "string",
         "Predicate": {
            "Conditions": [
               {
                  "CrawlerName": "string",
                  "CrawlState": "string",
                  "JobName": "string",
                  "LogicalOperator": "string",
                  "State": "string"
               }
            ],
            "Logical": "string"
         },
```

```
            "Schedule": "string",
            "State": "string",
            "Type": "string",
            "WorkflowName": "string"
        }
    ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token, if not all the requested triggers have yet been returned.

Type: String

Triggers

A list of triggers for the specified job.

Type: Array of Trigger objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetUnfilteredPartitionMetadata

Retrieves partition metadata from the Data Catalog that contains unfiltered metadata.

For IAM authorization, the public IAM action associated with this API is `glue:GetPartition`.

Request Syntax

```
{
   "AuditContext": {
      "AdditionalAuditContext": "string",
      "AllColumnsRequested": boolean,
      "RequestedColumns": [ "string" ]
   },
   "CatalogId": "string",
   "DatabaseName": "string",
   "PartitionValues": [ "string" ],
   "QuerySessionContext": {
      "AdditionalContext": {
         "string" : "string"
      },
      "ClusterId": "string",
      "QueryAuthorizationId": "string",
      "QueryId": "string",
      "QueryStartTime": number
   },
   "Region": "string",
   "SupportedPermissionTypes": [ "string" ],
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

AuditContext

A structure containing Lake Formation audit context information.

Type: AuditContext object

Required: No

CatalogId

The catalog ID where the partition resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

DatabaseName

(Required) Specifies the name of a database that contains the partition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

PartitionValues

(Required) A list of partition key values.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

QuerySessionContext

A structure used as a protocol between query engines and Lake Formation or AWS Glue. Contains both a Lake Formation generated authorization identifier and information from the request's authorization context.

Type: QuerySessionContext object

Required: No

Region

Specified only if the base tables belong to a different AWS Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

SupportedPermissionTypes

(Required) A list of supported permission types.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 255 items.

Valid Values: `COLUMN_PERMISSION | CELL_FILTER_PERMISSION | NESTED_PERMISSION | NESTED_CELL_PERMISSION`

Required: Yes

TableName

(Required) Specifies the name of a table that contains the partition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "AuthorizedColumns": [ "string" ],
   "IsRegisteredWithLakeFormation": boolean,
   "Partition": {
      "CatalogId": "string",
      "CreationTime": number,
      "DatabaseName": "string",
      "LastAccessTime": number,
      "LastAnalyzedTime": number,
      "Parameters": {
         "string" : "string"
      },
```

```
      "StorageDescriptor": {
         "AdditionalLocations": [ "string" ],
         "BucketColumns": [ "string" ],
         "Columns": [
            {
               "Comment": "string",
               "Name": "string",
               "Parameters": {
                  "string" : "string"
               },
               "Type": "string"
            }
         ],
         "Compressed": boolean,
         "InputFormat": "string",
         "Location": "string",
         "NumberOfBuckets": number,
         "OutputFormat": "string",
         "Parameters": {
            "string" : "string"
         },
         "SchemaReference": {
            "SchemaId": {
               "RegistryName": "string",
               "SchemaArn": "string",
               "SchemaName": "string"
            },
            "SchemaVersionId": "string",
            "SchemaVersionNumber": number
         },
         "SerdeInfo": {
            "Name": "string",
            "Parameters": {
               "string" : "string"
            },
            "SerializationLibrary": "string"
         },
         "SkewedInfo": {
            "SkewedColumnNames": [ "string" ],
            "SkewedColumnValueLocationMaps": {
               "string" : "string"
            },
            "SkewedColumnValues": [ "string" ]
         },
```

```
         "SortColumns": [
            {
               "Column": "string",
               "SortOrder": number
            }
         ],
         "StoredAsSubDirectories": boolean
      },
      "TableName": "string",
      "Values": [ "string" ]
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AuthorizedColumns

A list of column names that the user has been granted access to.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

IsRegisteredWithLakeFormation

A Boolean value that indicates whether the partition location is registered with Lake Formation.

Type: Boolean

Partition

A Partition object containing the partition metadata.

Type: Partition object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

PermissionTypeMismatchException

The operation timed out.

Message

There is a mismatch between the SupportedPermissionType used in the query request and the permissions defined on the target table.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetUnfilteredPartitionsMetadata

Retrieves partition metadata from the Data Catalog that contains unfiltered metadata.

For IAM authorization, the public IAM action associated with this API is `glue:GetPartitions`.

Request Syntax

```
{
   "AuditContext": {
      "AdditionalAuditContext": "string",
      "AllColumnsRequested": boolean,
      "RequestedColumns": [ "string" ]
   },
   "CatalogId": "string",
   "DatabaseName": "string",
   "Expression": "string",
   "MaxResults": number,
   "NextToken": "string",
   "QuerySessionContext": {
      "AdditionalContext": {
         "string" : "string"
      },
      "ClusterId": "string",
      "QueryAuthorizationId": "string",
      "QueryId": "string",
      "QueryStartTime": number
   },
   "Region": "string",
   "Segment": {
      "SegmentNumber": number,
      "TotalSegments": number
   },
   "SupportedPermissionTypes": [ "string" ],
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

AuditContext

A structure containing Lake Formation audit context information.

Type: AuditContext object

Required: No

CatalogId

The ID of the Data Catalog where the partitions in question reside. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

DatabaseName

The name of the catalog database where the partitions reside.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Expression

An expression that filters the partitions to be returned.

The expression uses SQL syntax similar to the SQL `WHERE` filter clause. The SQL statement parser JSQLParser parses the expression.

Operators: The following are the operators that you can use in the `Expression` API call:

=

Checks whether the values of the two operands are equal; if yes, then the condition becomes true.

Example: Assume 'variable a' holds 10 and 'variable b' holds 20.

(a = b) is not true.

< >

Checks whether the values of two operands are equal; if the values are not equal, then the condition becomes true.

Example: (a < > b) is true.

>

Checks whether the value of the left operand is greater than the value of the right operand; if yes, then the condition becomes true.

Example: (a > b) is not true.

<

Checks whether the value of the left operand is less than the value of the right operand; if yes, then the condition becomes true.

Example: (a < b) is true.

>=

Checks whether the value of the left operand is greater than or equal to the value of the right operand; if yes, then the condition becomes true.

Example: (a >= b) is not true.

<=

Checks whether the value of the left operand is less than or equal to the value of the right operand; if yes, then the condition becomes true.

Example: (a <= b) is true.

AND, OR, IN, BETWEEN, LIKE, NOT, IS NULL

Logical operators.

Supported Partition Key Types: The following are the supported partition keys.

- `string`

- `date`
- `timestamp`
- `int`
- `bigint`
- `long`
- `tinyint`
- `smallint`
- `decimal`

If an type is encountered that is not valid, an exception is thrown.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

MaxResults

The maximum number of partitions to return in a single response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is not the first call to retrieve these partitions.

Type: String

Required: No

QuerySessionContext

A structure used as a protocol between query engines and Lake Formation or AWS Glue. Contains both a Lake Formation generated authorization identifier and information from the request's authorization context.

Type: QuerySessionContext object

Required: No

Region

Specified only if the base tables belong to a different AWS Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

Segment

The segment of the table's partitions to scan in this request.

Type: Segment object

Required: No

SupportedPermissionTypes

A list of supported permission types.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 255 items.

Valid Values: `COLUMN_PERMISSION | CELL_FILTER_PERMISSION | NESTED_PERMISSION | NESTED_CELL_PERMISSION`

Required: Yes

TableName

The name of the table that contains the partition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "NextToken": "string",
   "UnfilteredPartitions": [
      {
         "AuthorizedColumns": [ "string" ],
         "IsRegisteredWithLakeFormation": boolean,
         "Partition": {
            "CatalogId": "string",
            "CreationTime": number,
            "DatabaseName": "string",
            "LastAccessTime": number,
            "LastAnalyzedTime": number,
            "Parameters": {
               "string" : "string"
            },
            "StorageDescriptor": {
               "AdditionalLocations": [ "string" ],
               "BucketColumns": [ "string" ],
               "Columns": [
                  {
                     "Comment": "string",
                     "Name": "string",
                     "Parameters": {
                        "string" : "string"
                     },
                     "Type": "string"
                  }
               ],
               "Compressed": boolean,
               "InputFormat": "string",
               "Location": "string",
               "NumberOfBuckets": number,
               "OutputFormat": "string",
               "Parameters": {
                  "string" : "string"
               },
               "SchemaReference": {
                  "SchemaId": {
                     "RegistryName": "string",
                     "SchemaArn": "string",
                     "SchemaName": "string"
```

```
                    },
                    "SchemaVersionId": "string",
                    "SchemaVersionNumber": number
                },
                "SerdeInfo": {
                    "Name": "string",
                    "Parameters": {
                        "string" : "string"
                    },
                    "SerializationLibrary": "string"
                },
                "SkewedInfo": {
                    "SkewedColumnNames": [ "string" ],
                    "SkewedColumnValueLocationMaps": {
                        "string" : "string"
                    },
                    "SkewedColumnValues": [ "string" ]
                },
                "SortColumns": [
                    {
                        "Column": "string",
                        "SortOrder": number
                    }
                ],
                "StoredAsSubDirectories": boolean
            },
            "TableName": "string",
            "Values": [ "string" ]
        }
    }
]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token, if the returned list of partitions does not include the last one.

Type: String

UnfilteredPartitions

A list of requested partitions.

Type: Array of UnfilteredPartition objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

PermissionTypeMismatchException

The operation timed out.

Message

There is a mismatch between the SupportedPermissionType used in the query request and the permissions defined on the target table.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetUnfilteredTableMetadata

Allows a third-party analytical engine to retrieve unfiltered table metadata from the Data Catalog.

For IAM authorization, the public IAM action associated with this API is `glue:GetTable`.

Request Syntax

```
{
   "AuditContext": {
      "AdditionalAuditContext": "string",
      "AllColumnsRequested": boolean,
      "RequestedColumns": [ "string" ]
   },
   "CatalogId": "string",
   "DatabaseName": "string",
   "Name": "string",
   "ParentResourceArn": "string",
   "Permissions": [ "string" ],
   "QuerySessionContext": {
      "AdditionalContext": {
         "string" : "string"
      },
      "ClusterId": "string",
      "QueryAuthorizationId": "string",
      "QueryId": "string",
      "QueryStartTime": number
   },
   "Region": "string",
   "RootResourceArn": "string",
   "SupportedDialect": {
      "Dialect": "string",
      "DialectVersion": "string"
   },
   "SupportedPermissionTypes": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

AuditContext

A structure containing Lake Formation audit context information.

Type: AuditContext object

Required: No

CatalogId

The catalog ID where the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

DatabaseName

(Required) Specifies the name of a database that contains the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Name

(Required) Specifies the name of a table for which you are requesting metadata.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

ParentResourceArn

The resource ARN of the view.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

Permissions

The Lake Formation data permissions of the caller on the table. Used to authorize the call when no view context is found.

Type: Array of strings

Valid Values: `ALL | SELECT | ALTER | DROP | DELETE | INSERT | CREATE_DATABASE | CREATE_TABLE | DATA_LOCATION_ACCESS`

Required: No

QuerySessionContext

A structure used as a protocol between query engines and Lake Formation or AWS Glue. Contains both a Lake Formation generated authorization identifier and information from the request's authorization context.

Type: QuerySessionContext object

Required: No

Region

Specified only if the base tables belong to a different AWS Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

RootResourceArn

The resource ARN of the root view in a chain of nested views.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

SupportedDialect

A structure specifying the dialect and dialect version used by the query engine.

Type: SupportedDialect object

Required: No

SupportedPermissionTypes

Indicates the level of filtering a third-party analytical engine is capable of enforcing when calling the `GetUnfilteredTableMetadata` API operation. Accepted values are:

- `COLUMN_PERMISSION` - Column permissions ensure that users can access only specific columns in the table. If there are particular columns contain sensitive data, data lake administrators can define column filters that exclude access to specific columns.
- `CELL_FILTER_PERMISSION` - Cell-level filtering combines column filtering (include or exclude columns) and row filter expressions to restrict access to individual elements in the table.
- `NESTED_PERMISSION` - Nested permissions combines cell-level filtering and nested column filtering to restrict access to columns and/or nested columns in specific rows based on row filter expressions.
- `NESTED_CELL_PERMISSION` - Nested cell permissions combines nested permission with nested cell-level filtering. This allows different subsets of nested columns to be restricted based on an array of row filter expressions.

Note: Each of these permission types follows a hierarchical order where each subsequent permission type includes all permission of the previous type.

Important: If you provide a supported permission type that doesn't match the user's level of permissions on the table, then Lake Formation raises an exception. For example, if the third-party engine calling the `GetUnfilteredTableMetadata` operation can enforce only column-level filtering, and the user has nested cell filtering applied on the table, Lake Formation throws an exception, and will not return unfiltered table metadata and data access credentials.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 255 items.

Valid Values: COLUMN_PERMISSION | CELL_FILTER_PERMISSION | NESTED_PERMISSION | NESTED_CELL_PERMISSION

Required: Yes

Response Syntax

```
{
   "AuthorizedColumns": [ "string" ],
   "CellFilters": [
      {
         "ColumnName": "string",
         "RowFilterExpression": "string"
      }
   ],
   "IsMaterializedView": boolean,
   "IsMultiDialectView": boolean,
   "IsProtected": boolean,
   "IsRegisteredWithLakeFormation": boolean,
   "Permissions": [ "string" ],
   "QueryAuthorizationId": "string",
   "ResourceArn": "string",
   "RowFilter": "string",
   "Table": {
      "CatalogId": "string",
      "CreatedBy": "string",
      "CreateTime": number,
      "DatabaseName": "string",
      "Description": "string",
      "FederatedTable": {
         "ConnectionName": "string",
         "ConnectionType": "string",
         "DatabaseIdentifier": "string",
         "Identifier": "string"
      },
      "IsMaterializedView": boolean,
      "IsMultiDialectView": boolean,
      "IsRegisteredWithLakeFormation": boolean,
      "LastAccessTime": number,
      "LastAnalyzedTime": number,
```

```
      "Name": "string",
      "Owner": "string",
      "Parameters": {
         "string" : "string"
      },
      "PartitionKeys": [
         {
            "Comment": "string",
            "Name": "string",
            "Parameters": {
               "string" : "string"
            },
            "Type": "string"
         }
      ],
      "Retention": number,
      "Status": {
         "Action": "string",
         "Details": {
            "RequestedChange": "Table",
            "ViewValidations": [
               {
                  "Dialect": "string",
                  "DialectVersion": "string",
                  "Error": {
                     "ErrorCode": "string",
                     "ErrorMessage": "string"
                  },
                  "State": "string",
                  "UpdateTime": number,
                  "ViewValidationText": "string"
               }
            ]
         },
         "Error": {
            "ErrorCode": "string",
            "ErrorMessage": "string"
         },
         "RequestedBy": "string",
         "RequestTime": number,
         "State": "string",
         "UpdatedBy": "string",
         "UpdateTime": number
      },
```

```
      "StorageDescriptor": {
         "AdditionalLocations": [ "string" ],
         "BucketColumns": [ "string" ],
         "Columns": [
            {
               "Comment": "string",
               "Name": "string",
               "Parameters": {
                  "string" : "string"
               },
               "Type": "string"
            }
         ],
         "Compressed": boolean,
         "InputFormat": "string",
         "Location": "string",
         "NumberOfBuckets": number,
         "OutputFormat": "string",
         "Parameters": {
            "string" : "string"
         },
         "SchemaReference": {
            "SchemaId": {
               "RegistryName": "string",
               "SchemaArn": "string",
               "SchemaName": "string"
            },
            "SchemaVersionId": "string",
            "SchemaVersionNumber": number
         },
         "SerdeInfo": {
            "Name": "string",
            "Parameters": {
               "string" : "string"
            },
            "SerializationLibrary": "string"
         },
         "SkewedInfo": {
            "SkewedColumnNames": [ "string" ],
            "SkewedColumnValueLocationMaps": {
               "string" : "string"
            },
            "SkewedColumnValues": [ "string" ]
         },
```

```
            "SortColumns": [
               {
                  "Column": "string",
                  "SortOrder": number
               }
            ],
            "StoredAsSubDirectories": boolean
         },
         "TableType": "string",
         "TargetTable": {
            "CatalogId": "string",
            "DatabaseName": "string",
            "Name": "string",
            "Region": "string"
         },
         "UpdateTime": number,
         "VersionId": "string",
         "ViewDefinition": {
            "Definer": "string",
            "IsProtected": boolean,
            "LastRefreshType": "string",
            "RefreshSeconds": number,
            "Representations": [
               {
                  "Dialect": "string",
                  "DialectVersion": "string",
                  "IsStale": boolean,
                  "ValidationConnection": "string",
                  "ViewExpandedText": "string",
                  "ViewOriginalText": "string"
               }
            ],
            "SubObjects": [ "string" ],
            "SubObjectVersionIds": [ number ],
            "ViewVersionId": number,
            "ViewVersionToken": "string"
         },
         "ViewExpandedText": "string",
         "ViewOriginalText": "string"
      }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AuthorizedColumns

A list of column names that the user has been granted access to.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

CellFilters

A list of column row filters.

Type: Array of ColumnRowFilter objects

IsMaterializedView

Indicates if a table is a materialized view.

Type: Boolean

IsMultiDialectView

Specifies whether the view supports the SQL dialects of one or more different query engines and can therefore be read by those engines.

Type: Boolean

IsProtected

A flag that instructs the engine not to push user-provided operations into the logical plan of the view during query planning. However, if set this flag does not guarantee that the engine will comply. Refer to the engine's documentation to understand the guarantees provided, if any.

Type: Boolean

IsRegisteredWithLakeFormation

A Boolean value that indicates whether the partition location is registered with Lake Formation.

Type: Boolean

Permissions

The Lake Formation data permissions of the caller on the table. Used to authorize the call when no view context is found.

Type: Array of strings

Valid Values: `ALL | SELECT | ALTER | DROP | DELETE | INSERT | CREATE_DATABASE | CREATE_TABLE | DATA_LOCATION_ACCESS`

QueryAuthorizationId

A cryptographically generated query identifier generated by AWS Glue or Lake Formation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

ResourceArn

The resource ARN of the parent resource extracted from the request.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

RowFilter

The filter that applies to the table. For example when applying the filter in SQL, it would go in the `WHERE` clause and can be evaluated by using an `AND` operator with any other predicates applied by the user querying the table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Table

A Table object containing the table metadata.

Type: Table object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

PermissionTypeMismatchException

The operation timed out.

Message

There is a mismatch between the SupportedPermissionType used in the query request and the permissions defined on the target table.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetUsageProfile

Retrieves information about the specified AWS Glue usage profile.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the usage profile to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Configuration": {
      "JobConfiguration": {
         "string" : {
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "MaxValue": "string",
            "MinValue": "string"
         }
      },
      "SessionConfiguration": {
```

```
         "string" : {
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "MaxValue": "string",
            "MinValue": "string"
         }
      }
   },
   "CreatedOn": number,
   "Description": "string",
   "LastModifiedOn": number,
   "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Configuration

A `ProfileConfiguration` object specifying the job and session values for the profile.

Type: ProfileConfiguration object

CreatedOn

The date and time when the usage profile was created.

Type: Timestamp

Description

A description of the usage profile.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

LastModifiedOn

The date and time when the usage profile was last modified.

Type: Timestamp

Name

The name of the usage profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationNotSupportedException

The operation is not available in the region.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetUserDefinedFunction

Retrieves a specified function definition from the Data Catalog.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "FunctionName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the function to be retrieved is located. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the catalog database where the function is located.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

FunctionName

The name of the function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "UserDefinedFunction": {
      "CatalogId": "string",
      "ClassName": "string",
      "CreateTime": number,
      "DatabaseName": "string",
      "FunctionName": "string",
      "FunctionType": "string",
      "OwnerName": "string",
      "OwnerType": "string",
      "ResourceUris": [
         {
            "ResourceType": "string",
            "Uri": "string"
         }
      ]
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

UserDefinedFunction

The requested function definition.

Type: UserDefinedFunction object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetUserDefinedFunctions

Retrieves multiple function definitions from the Data Catalog.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "FunctionType": "string",
   "MaxResults": number,
   "NextToken": "string",
   "Pattern": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the functions to be retrieved are located. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the catalog database where the functions are located. If none is provided, functions from all the databases across the catalog will be returned.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

FunctionType

An optional function-type pattern string that filters the function definitions returned from Amazon Redshift Federated Permissions Catalog.

Specify a value of `REGULAR_FUNCTION` or `STORED_PROCEDURE`. The `STORED_PROCEDURE` function type is only compatible with Amazon Redshift Federated Permissions Catalog.

Type: String

Valid Values: `REGULAR_FUNCTION | AGGREGATE_FUNCTION | STORED_PROCEDURE`

Required: No

MaxResults

The maximum number of functions to return in one response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

Pattern

An optional function-name pattern string that filters the function definitions returned.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "NextToken": "string",
   "UserDefinedFunctions": [
      {
         "CatalogId": "string",
         "ClassName": "string",
         "CreateTime": number,
         "DatabaseName": "string",
         "FunctionName": "string",
         "FunctionType": "string",
         "OwnerName": "string",
         "OwnerType": "string",
         "ResourceUris": [
            {
               "ResourceType": "string",
               "Uri": "string"
            }
         ]
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token, if the list of functions returned does not include the last requested function.

Type: String

UserDefinedFunctions

A list of requested function definitions.

Type: Array of UserDefinedFunction objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetWorkflow

Retrieves resource metadata for a workflow.

Request Syntax

```
{
   "IncludeGraph": boolean,
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

IncludeGraph

Specifies whether to include a graph when returning the workflow resource metadata.

Type: Boolean

Required: No

Name

The name of the workflow to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Workflow": {
      "BlueprintDetails": {
         "BlueprintName": "string",
```

```
      "RunId": "string"
   },
   "CreatedOn": number,
   "DefaultRunProperties": {
      "string" : "string"
   },
   "Description": "string",
   "Graph": {
      "Edges": [
         {
            "DestinationId": "string",
            "SourceId": "string"
         }
      ],
      "Nodes": [
         {
            "CrawlerDetails": {
               "Crawls": [
                  {
                     "CompletedOn": number,
                     "ErrorMessage": "string",
                     "LogGroup": "string",
                     "LogStream": "string",
                     "StartedOn": number,
                     "State": "string"
                  }
               ]
            },
            "JobDetails": {
               "JobRuns": [
                  {
                     "AllocatedCapacity": number,
                     "Arguments": {
                        "string" : "string"
                     },
                     "Attempt": number,
                     "CompletedOn": number,
                     "DPUSeconds": number,
                     "ErrorMessage": "string",
                     "ExecutionClass": "string",
                     "ExecutionRoleSessionPolicy": "string",
                     "ExecutionTime": number,
                     "GlueVersion": "string",
                     "Id": "string",
```

```
                    "JobMode": "string",
                    "JobName": "string",
                    "JobRunQueuingEnabled": boolean,
                    "JobRunState": "string",
                    "LastModifiedOn": number,
                    "LogGroupName": "string",
                    "MaintenanceWindow": "string",
                    "MaxCapacity": number,
                    "NotificationProperty": {
                       "NotifyDelayAfter": number
                    },
                    "NumberOfWorkers": number,
                    "PredecessorRuns": [
                       {
                          "JobName": "string",
                          "RunId": "string"
                       }
                    ],
                    "PreviousRunId": "string",
                    "ProfileName": "string",
                    "SecurityConfiguration": "string",
                    "StartedOn": number,
                    "StateDetail": "string",
                    "Timeout": number,
                    "TriggerName": "string",
                    "WorkerType": "string"
                 }
              ]
           },
           "Name": "string",
           "TriggerDetails": {
              "Trigger": {
                 "Actions": [
                    {
                       "Arguments": {
                          "string" : "string"
                       },
                       "CrawlerName": "string",
                       "JobName": "string",
                       "NotificationProperty": {
                          "NotifyDelayAfter": number
                       },
                       "SecurityConfiguration": "string",
                       "Timeout": number
```

```
                        }
                    ],
                    "Description": "string",
                    "EventBatchingCondition": {
                        "BatchSize": number,
                        "BatchWindow": number
                    },
                    "Id": "string",
                    "Name": "string",
                    "Predicate": {
                        "Conditions": [
                            {
                                "CrawlerName": "string",
                                "CrawlState": "string",
                                "JobName": "string",
                                "LogicalOperator": "string",
                                "State": "string"
                            }
                        ],
                        "Logical": "string"
                    },
                    "Schedule": "string",
                    "State": "string",
                    "Type": "string",
                    "WorkflowName": "string"
                }
            },
            "Type": "string",
            "UniqueId": "string"
        }
    ]
},
"LastModifiedOn": number,
"LastRun": {
    "CompletedOn": number,
    "ErrorMessage": "string",
    "Graph": {
        "Edges": [
            {
                "DestinationId": "string",
                "SourceId": "string"
            }
        ],
        "Nodes": [
```

```
{
   "CrawlerDetails": {
      "Crawls": [
         {
            "CompletedOn": number,
            "ErrorMessage": "string",
            "LogGroup": "string",
            "LogStream": "string",
            "StartedOn": number,
            "State": "string"
         }
      ]
   },
   "JobDetails": {
      "JobRuns": [
         {
            "AllocatedCapacity": number,
            "Arguments": {
               "string" : "string"
            },
            "Attempt": number,
            "CompletedOn": number,
            "DPUSeconds": number,
            "ErrorMessage": "string",
            "ExecutionClass": "string",
            "ExecutionRoleSessionPolicy": "string",
            "ExecutionTime": number,
            "GlueVersion": "string",
            "Id": "string",
            "JobMode": "string",
            "JobName": "string",
            "JobRunQueuingEnabled": boolean,
            "JobRunState": "string",
            "LastModifiedOn": number,
            "LogGroupName": "string",
            "MaintenanceWindow": "string",
            "MaxCapacity": number,
            "NotificationProperty": {
               "NotifyDelayAfter": number
            },
            "NumberOfWorkers": number,
            "PredecessorRuns": [
               {
                  "JobName": "string",
```

```
                        "RunId": "string"
                     }
                  ],
                  "PreviousRunId": "string",
                  "ProfileName": "string",
                  "SecurityConfiguration": "string",
                  "StartedOn": number,
                  "StateDetail": "string",
                  "Timeout": number,
                  "TriggerName": "string",
                  "WorkerType": "string"
               }
            ]
         },
         "Name": "string",
         "TriggerDetails": {
            "Trigger": {
               "Actions": [
                  {
                     "Arguments": {
                        "string" : "string"
                     },
                     "CrawlerName": "string",
                     "JobName": "string",
                     "NotificationProperty": {
                        "NotifyDelayAfter": number
                     },
                     "SecurityConfiguration": "string",
                     "Timeout": number
                  }
               ],
               "Description": "string",
               "EventBatchingCondition": {
                  "BatchSize": number,
                  "BatchWindow": number
               },
               "Id": "string",
               "Name": "string",
               "Predicate": {
                  "Conditions": [
                     {
                        "CrawlerName": "string",
                        "CrawlState": "string",
                        "JobName": "string",
```

```
                                "LogicalOperator": "string",
                                "State": "string"
                            }
                        ],
                        "Logical": "string"
                    },
                    "Schedule": "string",
                    "State": "string",
                    "Type": "string",
                    "WorkflowName": "string"
                }
            },
            "Type": "string",
            "UniqueId": "string"
        }
      ]
    },
    "Name": "string",
    "PreviousRunId": "string",
    "StartedOn": number,
    "StartingEventBatchCondition": {
       "BatchSize": number,
       "BatchWindow": number
    },
    "Statistics": {
       "ErroredActions": number,
       "FailedActions": number,
       "RunningActions": number,
       "StoppedActions": number,
       "SucceededActions": number,
       "TimeoutActions": number,
       "TotalActions": number,
       "WaitingActions": number
    },
    "Status": "string",
    "WorkflowRunId": "string",
    "WorkflowRunProperties": {
       "string" : "string"
    }
  },
  "MaxConcurrentRuns": number,
  "Name": "string"
}
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Workflow

The resource metadata for the workflow.

Type: Workflow object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetWorkflowRun

Retrieves the metadata for a given workflow run. Job run history is accessible for 90 days for your workflow and job run.

Request Syntax

```
{
   "IncludeGraph": boolean,
   "Name": "string",
   "RunId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

IncludeGraph

Specifies whether to include the workflow graph in response or not.

Type: Boolean

Required: No

Name

Name of the workflow being run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

RunId

The ID of the workflow run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Run": {
      "CompletedOn": number,
      "ErrorMessage": "string",
      "Graph": {
         "Edges": [
            {
               "DestinationId": "string",
               "SourceId": "string"
            }
         ],
         "Nodes": [
            {
               "CrawlerDetails": {
                  "Crawls": [
                     {
                        "CompletedOn": number,
                        "ErrorMessage": "string",
                        "LogGroup": "string",
                        "LogStream": "string",
                        "StartedOn": number,
                        "State": "string"
                     }
                  ]
               },
               "JobDetails": {
                  "JobRuns": [
                     {
                        "AllocatedCapacity": number,
                        "Arguments": {
                           "string" : "string"
                        },
                        "Attempt": number,
                        "CompletedOn": number,
                        "DPUSeconds": number,
```

```
                        "ErrorMessage": "string",
                        "ExecutionClass": "string",
                        "ExecutionRoleSessionPolicy": "string",
                        "ExecutionTime": number,
                        "GlueVersion": "string",
                        "Id": "string",
                        "JobMode": "string",
                        "JobName": "string",
                        "JobRunQueuingEnabled": boolean,
                        "JobRunState": "string",
                        "LastModifiedOn": number,
                        "LogGroupName": "string",
                        "MaintenanceWindow": "string",
                        "MaxCapacity": number,
                        "NotificationProperty": {
                           "NotifyDelayAfter": number
                        },
                        "NumberOfWorkers": number,
                        "PredecessorRuns": [
                           {
                              "JobName": "string",
                              "RunId": "string"
                           }
                        ],
                        "PreviousRunId": "string",
                        "ProfileName": "string",
                        "SecurityConfiguration": "string",
                        "StartedOn": number,
                        "StateDetail": "string",
                        "Timeout": number,
                        "TriggerName": "string",
                        "WorkerType": "string"
                     }
                  ]
               },
               "Name": "string",
               "TriggerDetails": {
                  "Trigger": {
                     "Actions": [
                        {
                           "Arguments": {
                              "string" : "string"
                           },
                           "CrawlerName": "string",
```

```
                        "JobName": "string",
                        "NotificationProperty": {
                           "NotifyDelayAfter": number
                        },
                        "SecurityConfiguration": "string",
                        "Timeout": number
                     }
                  ],
                  "Description": "string",
                  "EventBatchingCondition": {
                     "BatchSize": number,
                     "BatchWindow": number
                  },
                  "Id": "string",
                  "Name": "string",
                  "Predicate": {
                     "Conditions": [
                        {
                           "CrawlerName": "string",
                           "CrawlState": "string",
                           "JobName": "string",
                           "LogicalOperator": "string",
                           "State": "string"
                        }
                     ],
                     "Logical": "string"
                  },
                  "Schedule": "string",
                  "State": "string",
                  "Type": "string",
                  "WorkflowName": "string"
               }
            },
            "Type": "string",
            "UniqueId": "string"
         }
      ]
   },
   "Name": "string",
   "PreviousRunId": "string",
   "StartedOn": number,
   "StartingEventBatchCondition": {
      "BatchSize": number,
      "BatchWindow": number
```

```
      },
      "Statistics": {
         "ErroredActions": number,
         "FailedActions": number,
         "RunningActions": number,
         "StoppedActions": number,
         "SucceededActions": number,
         "TimeoutActions": number,
         "TotalActions": number,
         "WaitingActions": number
      },
      "Status": "string",
      "WorkflowRunId": "string",
      "WorkflowRunProperties": {
         "string" : "string"
      }
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Run

The requested workflow run metadata.

Type: WorkflowRun object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetWorkflowRunProperties

Retrieves the workflow run properties which were set during the run.

Request Syntax

```
{
   "Name": "string",
   "RunId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

Name of the workflow which was run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

RunId

The ID of the workflow run whose run properties should be returned.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "RunProperties": {
      "string" : "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

RunProperties

The workflow run properties which were set during the specified run.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetWorkflowRuns

Retrieves metadata for all runs of a given workflow.

Request Syntax

```
{
   "IncludeGraph": boolean,
   "MaxResults": number,
   "Name": "string",
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

IncludeGraph

Specifies whether to include the workflow graph in response or not.

Type: Boolean

Required: No

MaxResults

The maximum number of workflow runs to be included in the response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

Name

Name of the workflow whose metadata of runs should be returned.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

NextToken

The maximum size of the response.

Type: String

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "Runs": [
      {
         "CompletedOn": number,
         "ErrorMessage": "string",
         "Graph": {
            "Edges": [
               {
                  "DestinationId": "string",
                  "SourceId": "string"
               }
            ],
            "Nodes": [
               {
                  "CrawlerDetails": {
                     "Crawls": [
                        {
                           "CompletedOn": number,
                           "ErrorMessage": "string",
                           "LogGroup": "string",
                           "LogStream": "string",
                           "StartedOn": number,
                           "State": "string"
                        }
                     ]
                  },
                  "JobDetails": {
                     "JobRuns": [
                        {
```

```
                        "AllocatedCapacity": number,
                        "Arguments": {
                           "string" : "string"
                        },
                        "Attempt": number,
                        "CompletedOn": number,
                        "DPUSeconds": number,
                        "ErrorMessage": "string",
                        "ExecutionClass": "string",
                        "ExecutionRoleSessionPolicy": "string",
                        "ExecutionTime": number,
                        "GlueVersion": "string",
                        "Id": "string",
                        "JobMode": "string",
                        "JobName": "string",
                        "JobRunQueuingEnabled": boolean,
                        "JobRunState": "string",
                        "LastModifiedOn": number,
                        "LogGroupName": "string",
                        "MaintenanceWindow": "string",
                        "MaxCapacity": number,
                        "NotificationProperty": {
                           "NotifyDelayAfter": number
                        },
                        "NumberOfWorkers": number,
                        "PredecessorRuns": [
                           {
                              "JobName": "string",
                              "RunId": "string"
                           }
                        ],
                        "PreviousRunId": "string",
                        "ProfileName": "string",
                        "SecurityConfiguration": "string",
                        "StartedOn": number,
                        "StateDetail": "string",
                        "Timeout": number,
                        "TriggerName": "string",
                        "WorkerType": "string"
                     }
                  ]
               },
               "Name": "string",
               "TriggerDetails": {
```

```
            "Trigger": {
               "Actions": [
                  {
                     "Arguments": {
                        "string" : "string"
                     },
                     "CrawlerName": "string",
                     "JobName": "string",
                     "NotificationProperty": {
                        "NotifyDelayAfter": number
                     },
                     "SecurityConfiguration": "string",
                     "Timeout": number
                  }
               ],
               "Description": "string",
               "EventBatchingCondition": {
                  "BatchSize": number,
                  "BatchWindow": number
               },
               "Id": "string",
               "Name": "string",
               "Predicate": {
                  "Conditions": [
                     {
                        "CrawlerName": "string",
                        "CrawlState": "string",
                        "JobName": "string",
                        "LogicalOperator": "string",
                        "State": "string"
                     }
                  ],
                  "Logical": "string"
               },
               "Schedule": "string",
               "State": "string",
               "Type": "string",
               "WorkflowName": "string"
            }
         },
         "Type": "string",
         "UniqueId": "string"
      }
   ]
```

```
         },
         "Name": "string",
         "PreviousRunId": "string",
         "StartedOn": number,
         "StartingEventBatchCondition": {
            "BatchSize": number,
            "BatchWindow": number
         },
         "Statistics": {
            "ErroredActions": number,
            "FailedActions": number,
            "RunningActions": number,
            "StoppedActions": number,
            "SucceededActions": number,
            "TimeoutActions": number,
            "TotalActions": number,
            "WaitingActions": number
         },
         "Status": "string",
         "WorkflowRunId": "string",
         "WorkflowRunProperties": {
            "string" : "string"
         }
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token, if not all requested workflow runs have been returned.

Type: String

Runs

A list of workflow run metadata objects.

Type: Array of WorkflowRun objects

Array Members: Minimum number of 1 item. Maximum number of 1000 items.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ImportCatalogToGlue

Imports an existing Amazon Athena Data Catalog to AWS Glue.

Request Syntax

```
{
   "CatalogId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the catalog to import. Currently, this should be the AWS account ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListBlueprints

Lists all the blueprint names in an account.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The maximum size of a list to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

NextToken

A continuation token, if this is a continuation request.

Type: String

Required: No

Tags

Filters the list by an AWS resource tag.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
   "Blueprints": [ "string" ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Blueprints

List of names of blueprints in the account.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

NextToken

A continuation token, if not all blueprint names have been returned.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListColumnStatisticsTaskRuns

List all task runs for a particular account.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The maximum size of the response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

Response Syntax

```
{
   "ColumnStatisticsTaskRunIds": [ "string" ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ColumnStatisticsTaskRunIds

A list of column statistics task run IDs.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

NextToken

A continuation token, if not all task run IDs have yet been returned.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListConnectionTypes

The `ListConnectionTypes` API provides a discovery mechanism to learn available connection types in AWS Glue. The response contains a list of connection types with high-level details of what is supported for each connection type, including both built-in connection types and custom connection types registered via `RegisterConnectionType`. The connection types listed are the set of supported options for the `ConnectionType` value in the `CreateConnection` API.

See also: `DescribeConnectionType`, `RegisterConnectionType`, `DeleteConnectionType`

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[-a-zA-Z0-9+=/:_]*`

Required: No

Response Syntax

```
{
   "ConnectionTypes": [
      {
         "Capabilities": {
            "SupportedAuthenticationTypes": [ "string" ],
            "SupportedComputeEnvironments": [ "string" ],
            "SupportedDataOperations": [ "string" ]
         },
         "Categories": [ "string" ],
         "ConnectionType": "string",
         "ConnectionTypeVariants": [
            {
               "ConnectionTypeVariantName": "string",
               "Description": "string",
               "DisplayName": "string",
               "LogoUrl": "string"
            }
         ],
         "Description": "string",
         "DisplayName": "string",
         "LogoUrl": "string",
         "Vendor": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ConnectionTypes

A list of `ConnectionTypeBrief` objects containing brief information about the supported connection types.

Type: Array of ConnectionTypeBrief objects

NextToken

A continuation token, if the current list segment is not the last.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[-a-zA-Z0-9+=/:_]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListCrawlers

Retrieves the names of all crawler resources in this AWS account, or the resources with the specified tag. This operation allows you to see which resources are available in your account, and their names.

This operation takes the optional `Tags` field, which you can use as a filter on the response so that tagged resources can be retrieved as a group. If you choose to use tags filtering, only resources with the tag are retrieved.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The maximum size of a list to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation request.

Type: String

Required: No

Tags

Specifies to return only these tagged resources.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
   "CrawlerNames": [ "string" ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CrawlerNames

The names of all crawlers in the account, or the crawlers with the specified tags.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

NextToken

A continuation token, if the returned list does not contain the last metric available.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListCrawls

Returns all the crawls of a specified crawler. Returns only the crawls that have occurred since the launch date of the crawler history feature, and only retains up to 12 months of crawls. Older crawls will not be returned.

You may use this API to:

- Retrive all the crawls of a specified crawler.
- Retrieve all the crawls of a specified crawler within a limited count.
- Retrieve all the crawls of a specified crawler in a specific time range.
- Retrieve all the crawls of a specified crawler with a particular state, crawl ID, or DPU hour value.

Request Syntax

```
{
   "CrawlerName": "string",
   "Filters": [
      {
         "FieldName": "string",
         "FieldValue": "string",
         "FilterOperator": "string"
      }
   ],
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CrawlerName

The name of the crawler whose runs you want to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Filters

Filters the crawls by the criteria you specify in a list of `CrawlsFilter` objects.

Type: Array of CrawlsFilter objects

Required: No

MaxResults

The maximum number of results to return. The default is 20, and maximum is 100.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

Response Syntax

```
{
   "Crawls": [
      {
         "CrawlId": "string",
         "DPUHour": number,
         "EndTime": number,
         "ErrorMessage": "string",
         "LogGroup": "string",
         "LogStream": "string",
         "MessagePrefix": "string",
```

```
            "StartTime": number,
            "State": "string",
            "Summary": "string"
        }
    ],
    "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Crawls

A list of `CrawlerHistory` objects representing the crawl runs that meet your criteria.

Type: Array of CrawlerHistory objects

NextToken

A continuation token for paginating the returned list of tokens, returned if the current segment of the list is not the last.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListCustomEntityTypes

Lists all the custom patterns that have been created.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A paginated token to offset the results.

Type: String

Required: No

Tags

A list of key-value pair tags.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
   "CustomEntityTypes": [
      {
         "ContextWords": [ "string" ],
         "Name": "string",
         "RegexString": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CustomEntityTypes

A list of `CustomEntityType` objects representing custom patterns.

Type: Array of CustomEntityType objects

NextToken

A pagination token, if more results are available.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListDataQualityResults

Returns all data quality execution results for your account.

Request Syntax

```
{
   "Filter": {
      "DataSource": {
         "DataQualityGlueTable": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "CatalogId": "string",
            "ConnectionName": "string",
            "DatabaseName": "string",
            "PreProcessingQuery": "string",
            "TableName": "string"
         },
         "GlueTable": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "CatalogId": "string",
            "ConnectionName": "string",
            "DatabaseName": "string",
            "TableName": "string"
         }
      },
      "JobName": "string",
      "JobRunId": "string",
      "StartedAfter": number,
      "StartedBefore": number
   },
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Filter

The filter criteria.

Type: DataQualityResultFilterCriteria object

Required: No

MaxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A paginated token to offset the results.

Type: String

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "Results": [
      {
         "DataSource": {
            "DataQualityGlueTable": {
               "AdditionalOptions": {
                  "string" : "string"
               },
               "CatalogId": "string",
               "ConnectionName": "string",
               "DatabaseName": "string",
               "PreProcessingQuery": "string",
               "TableName": "string"
            },
```

```
            "GlueTable": {
               "AdditionalOptions": {
                  "string" : "string"
               },
               "CatalogId": "string",
               "ConnectionName": "string",
               "DatabaseName": "string",
               "TableName": "string"
            }
         },
         "JobName": "string",
         "JobRunId": "string",
         "ResultId": "string",
         "StartedOn": number
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A pagination token, if more results are available.

Type: String

Results

A list of `DataQualityResultDescription` objects.

Type: Array of DataQualityResultDescription objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListDataQualityRuleRecommendationRuns

Lists the recommendation runs meeting the filter criteria.

Request Syntax

```
{
   "Filter": {
      "DataSource": {
         "DataQualityGlueTable": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "CatalogId": "string",
            "ConnectionName": "string",
            "DatabaseName": "string",
            "PreProcessingQuery": "string",
            "TableName": "string"
         },
         "GlueTable": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "CatalogId": "string",
            "ConnectionName": "string",
            "DatabaseName": "string",
            "TableName": "string"
         }
      },
      "StartedAfter": number,
      "StartedBefore": number
   },
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Filter

The filter criteria.

Type: DataQualityRuleRecommendationRunFilter object

Required: No

MaxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A paginated token to offset the results.

Type: String

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "Runs": [
      {
         "DataSource": {
            "DataQualityGlueTable": {
               "AdditionalOptions": {
                  "string" : "string"
               },
               "CatalogId": "string",
               "ConnectionName": "string",
               "DatabaseName": "string",
               "PreProcessingQuery": "string",
               "TableName": "string"
            },
```

```
            "GlueTable": {
               "AdditionalOptions": {
                  "string" : "string"
               },
               "CatalogId": "string",
               "ConnectionName": "string",
               "DatabaseName": "string",
               "TableName": "string"
            }
         },
         "RunId": "string",
         "StartedOn": number,
         "Status": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A pagination token, if more results are available.

Type: String

Runs

A list of `DataQualityRuleRecommendationRunDescription` objects.

Type: Array of DataQualityRuleRecommendationRunDescription objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListDataQualityRulesetEvaluationRuns

Lists all the runs meeting the filter criteria, where a ruleset is evaluated against a data source.

Request Syntax

```
{
   "Filter": {
      "DataSource": {
         "DataQualityGlueTable": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "CatalogId": "string",
            "ConnectionName": "string",
            "DatabaseName": "string",
            "PreProcessingQuery": "string",
            "TableName": "string"
         },
         "GlueTable": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "CatalogId": "string",
            "ConnectionName": "string",
            "DatabaseName": "string",
            "TableName": "string"
         }
      },
      "StartedAfter": number,
      "StartedBefore": number
   },
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Filter

The filter criteria.

Type: DataQualityRulesetEvaluationRunFilter object

Required: No

MaxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A paginated token to offset the results.

Type: String

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "Runs": [
      {
         "DataSource": {
            "DataQualityGlueTable": {
               "AdditionalOptions": {
                  "string" : "string"
               },
               "CatalogId": "string",
               "ConnectionName": "string",
               "DatabaseName": "string",
               "PreProcessingQuery": "string",
               "TableName": "string"
            },
            "GlueTable": {
```

```
                "AdditionalOptions": {
                   "string" : "string"
                },
                "CatalogId": "string",
                "ConnectionName": "string",
                "DatabaseName": "string",
                "TableName": "string"
             }
          },
          "RunId": "string",
          "StartedOn": number,
          "Status": "string"
       }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A pagination token, if more results are available.

Type: String

Runs

A list of `DataQualityRulesetEvaluationRunDescription` objects representing data quality ruleset runs.

Type: Array of DataQualityRulesetEvaluationRunDescription objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListDataQualityRulesets

Returns a paginated list of rulesets for the specified list of AWS Glue tables.

Request Syntax

```
{
   "Filter": {
      "CreatedAfter": number,
      "CreatedBefore": number,
      "Description": "string",
      "LastModifiedAfter": number,
      "LastModifiedBefore": number,
      "Name": "string",
      "TargetTable": {
         "CatalogId": "string",
         "DatabaseName": "string",
         "TableName": "string"
      }
   },
   "MaxResults": number,
   "NextToken": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Filter

The filter criteria.

Type: DataQualityRulesetFilterCriteria object

Required: No

MaxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A paginated token to offset the results.

Type: String

Required: No

Tags

A list of key-value pair tags.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "Rulesets": [
      {
         "CreatedOn": number,
         "Description": "string",
         "LastModifiedOn": number,
         "Name": "string",
         "RecommendationRunId": "string",
         "RuleCount": number,
         "TargetTable": {
            "CatalogId": "string",
            "DatabaseName": "string",
            "TableName": "string"
```

```
            }
        }
    ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A pagination token, if more results are available.

Type: String

Rulesets

A paginated list of rulesets for the specified list of AWS Glue tables.

Type: Array of DataQualityRulesetListDetails objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListDataQualityStatisticAnnotations

Retrieve annotations for a data quality statistic.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string",
   "ProfileId": "string",
   "StatisticId": "string",
   "TimestampFilter": {
      "RecordedAfter": number,
      "RecordedBefore": number
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The maximum number of results to return in this request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A pagination token to retrieve the next set of results.

Type: String

Required: No

ProfileId

The Profile ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: No

StatisticId

The Statistic ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: No

TimestampFilter

A timestamp filter.

Type: TimestampFilter object

Required: No

Response Syntax

```
{
   "Annotations": [
      {
         "InclusionAnnotation": {
            "LastModifiedOn": number,
            "Value": "string"
         },
         "ProfileId": "string",
         "StatisticId": "string",
         "StatisticRecordedOn": number
      }
   ],
   "NextToken": "string"
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Annotations

A list of `StatisticAnnotation` applied to the Statistic

Type: Array of StatisticAnnotation objects

NextToken

A pagination token to retrieve the next set of results.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListDataQualityStatistics

Retrieves a list of data quality statistics.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string",
   "ProfileId": "string",
   "StatisticId": "string",
   "TimestampFilter": {
      "RecordedAfter": number,
      "RecordedBefore": number
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The maximum number of results to return in this request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A pagination token to request the next page of results.

Type: String

Required: No

ProfileId

The Profile ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: No

StatisticId

The Statistic ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: No

TimestampFilter

A timestamp filter.

Type: TimestampFilter object

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "Statistics": [
      {
         "ColumnsReferenced": [ "string" ],
         "DoubleValue": number,
         "EvaluationLevel": "string",
         "InclusionAnnotation": {
            "LastModifiedOn": number,
            "Value": "string"
         },
         "ProfileId": "string",
         "RecordedOn": number,
```

```
         "ReferencedDatasets": [ "string" ],
         "RunIdentifier": {
            "JobRunId": "string",
            "RunId": "string"
         },
         "StatisticId": "string",
         "StatisticName": "string",
         "StatisticProperties": {
            "string" : "string"
         }
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A pagination token to request the next page of results.

Type: String

Statistics

A `StatisticSummaryList`.

Type: Array of StatisticSummary objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListDevEndpoints

Retrieves the names of all `DevEndpoint` resources in this AWS account, or the resources with the specified tag. This operation allows you to see which resources are available in your account, and their names.

This operation takes the optional `Tags` field, which you can use as a filter on the response so that tagged resources can be retrieved as a group. If you choose to use tags filtering, only resources with the tag are retrieved.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The maximum size of a list to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation request.

Type: String

Required: No

Tags

Specifies to return only these tagged resources.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
   "DevEndpointNames": [ "string" ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

DevEndpointNames

The names of all the `DevEndpoints` in the account, or the `DevEndpoints` with the specified tags.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

NextToken

A continuation token, if the returned list does not contain the last metric available.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListEntities

Returns the available entities supported by the connection type.

Request Syntax

```
{
   "CatalogId": "string",
   "ConnectionName": "string",
   "DataStoreApiVersion": "string",
   "NextToken": "string",
   "ParentEntityName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The catalog ID of the catalog that contains the connection. This can be null, By default, the AWS Account ID is the catalog ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ConnectionName

A name for the connection that has required credentials to query any connection type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DataStoreApiVersion

The API version of the SaaS connector.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z0-9.-]*`

Required: No

NextToken

A continuation token, included if this is a continuation call.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[-a-zA-Z0-9+=/:_]*`

Required: No

ParentEntityName

Name of the parent entity for which you want to list the children. This parameter takes a fully-qualified path of the entity in order to list the child entities.

Type: String

Required: No

Response Syntax

```
{
   "Entities": [
      {
         "Category": "string",
         "CustomProperties": {
            "string" : "string"
         },
```

```
            "Description": "string",
            "EntityName": "string",
            "IsParentEntity": boolean,
            "Label": "string"
        }
    ],
    "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Entities

A list of `Entity` objects.

Type: Array of Entity objects

NextToken

A continuation token, present if the current segment is not the last.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[-a-zA-Z0-9+=/:_]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListIntegrationResourceProperties

List integration resource properties for a single customer. It supports the filters, maxRecords and markers.

Request Syntax

```
{
   "Filters": [
      {
         "Name": "string",
         "Values": [ "string" ]
      }
   ],
   "Marker": "string",
   "MaxRecords": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Filters

A list of filters, supported filter Key is `SourceArn` and `TargetArn`.

Type: Array of IntegrationResourcePropertyFilter objects

Required: No

Marker

This is the pagination token for next page, initial value is `null`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

MaxRecords

This is total number of items to be evaluated.

Type: Integer

Required: No

Response Syntax

```
{
   "IntegrationResourcePropertyList": [
      {
         "ResourceArn": "string",
         "ResourcePropertyArn": "string",
         "SourceProcessingProperties": {
            "RoleArn": "string"
         },
         "TargetProcessingProperties": {
            "ConnectionName": "string",
            "EventBusArn": "string",
            "KmsArn": "string",
            "RoleArn": "string"
         }
      }
   ],
   "Marker": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

IntegrationResourcePropertyList

A list of integration resource property meeting the filter criteria.

Type: Array of IntegrationResourceProperty objects

Marker

This is the pagination token for the next page.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServerException

An internal server error occurred.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListJobs

Retrieves the names of all job resources in this AWS account, or the resources with the specified tag. This operation allows you to see which resources are available in your account, and their names.

This operation takes the optional `Tags` field, which you can use as a filter on the response so that tagged resources can be retrieved as a group. If you choose to use tags filtering, only resources with the tag are retrieved.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The maximum size of a list to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation request.

Type: String

Required: No

Tags

Specifies to return only these tagged resources.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
   "JobNames": [ "string" ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

JobNames

The names of all jobs in the account, or the jobs with the specified tags.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

NextToken

A continuation token, if the returned list does not contain the last metric available.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListMaterializedViewRefreshTaskRuns

List all task runs for a particular account.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "MaxResults": number,
   "NextToken": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Catalog where the materialized view table resides. If none is supplied, the account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

DatabaseName

The database where the materialized view table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

MaxResults

The maximum number of materialized view refresh task runs to list in the response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

TableName

The name of the table for which the materialized view resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Response Syntax

```
{
   "MaterializedViewRefreshTaskRuns": [
      {
         "CatalogId": "string",
         "CreationTime": number,
         "CustomerId": "string",
         "DatabaseName": "string",
         "DPUSeconds": number,
         "EndTime": number,
         "ErrorMessage": "string",
         "LastUpdated": number,
```

```
            "MaterializedViewRefreshTaskRunId": "string",
            "ProcessedBytes": number,
            "RefreshType": "string",
            "Role": "string",
            "StartTime": number,
            "Status": "string",
            "TableName": "string"
        }
    ],
    "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

MaterializedViewRefreshTaskRuns

The results of the ListMaterializedViewRefreshTaskRuns action.

Type: Array of MaterializedViewRefreshTaskRun objects

NextToken

A continuation token, if not all task runs have yet been returned.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListMLTransforms

Retrieves a sortable, filterable list of existing AWS Glue machine learning transforms in this AWS account, or the resources with the specified tag. This operation takes the optional Tags field, which you can use as a filter of the responses so that tagged resources can be retrieved as a group. If you choose to use tag filtering, only resources with the tags are retrieved.

Request Syntax

```
{
   "Filter": {
      "CreatedAfter": number,
      "CreatedBefore": number,
      "GlueVersion": "string",
      "LastModifiedAfter": number,
      "LastModifiedBefore": number,
      "Name": "string",
      "Schema": [
         {
            "DataType": "string",
            "Name": "string"
         }
      ],
      "Status": "string",
      "TransformType": "string"
   },
   "MaxResults": number,
   "NextToken": "string",
   "Sort": {
      "Column": "string",
      "SortDirection": "string"
   },
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Filter

A `TransformFilterCriteria` used to filter the machine learning transforms.

Type: TransformFilterCriteria object

Required: No

MaxResults

The maximum size of a list to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, if this is a continuation request.

Type: String

Required: No

Sort

A `TransformSortCriteria` used to sort the machine learning transforms.

Type: TransformSortCriteria object

Required: No

Tags

Specifies to return only these tagged resources.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "TransformIds": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token, if the returned list does not contain the last metric available.

Type: String

TransformIds

The identifiers of all the machine learning transforms in the account, or the machine learning transforms with the specified tags.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListRegistries

Returns a list of registries that you have created, with minimal registry information. Registries in the `Deleting` status will not be included in the results. Empty results will be returned if there are no registries available.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

Maximum number of results required per page. If the value is not supplied, this will be defaulted to 25 per page.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

Response Syntax

```
{
```

```
   "NextToken": "string",
   "Registries": [
      {
         "CreatedTime": "string",
         "Description": "string",
         "RegistryArn": "string",
         "RegistryName": "string",
         "Status": "string",
         "UpdatedTime": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token for paginating the returned list of tokens, returned if the current segment of the list is not the last.

Type: String

Registries

An array of `RegistryDetailedListItem` objects containing minimal details of each registry.

Type: Array of RegistryListItem objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListSchemas

Returns a list of schemas with minimal details. Schemas in Deleting status will not be included in the results. Empty results will be returned if there are no schemas available.

When the `RegistryId` is not provided, all the schemas across registries will be part of the API response.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string",
   "RegistryId": {
      "RegistryArn": "string",
      "RegistryName": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

Maximum number of results required per page. If the value is not supplied, this will be defaulted to 25 per page.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

RegistryId

A wrapper structure that may contain the registry name and Amazon Resource Name (ARN).

Type: RegistryId object

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "Schemas": [
      {
         "CreatedTime": "string",
         "Description": "string",
         "RegistryName": "string",
         "SchemaArn": "string",
         "SchemaName": "string",
         "SchemaStatus": "string",
         "UpdatedTime": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token for paginating the returned list of tokens, returned if the current segment of the list is not the last.

Type: String

Schemas

An array of `SchemaListItem` objects containing details of each schema.

Type: Array of SchemaListItem objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListSchemaVersions

Returns a list of schema versions that you have created, with minimal information. Schema versions in Deleted status will not be included in the results. Empty results will be returned if there are no schema versions available.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string",
   "SchemaId": {
      "RegistryName": "string",
      "SchemaArn": "string",
      "SchemaName": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

Maximum number of results required per page. If the value is not supplied, this will be defaulted to 25 per page.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

SchemaId

This is a wrapper structure to contain schema identity fields. The structure contains:

- SchemaId$SchemaArn: The Amazon Resource Name (ARN) of the schema. Either `SchemaArn` or `SchemaName` and `RegistryName` has to be provided.
- SchemaId$SchemaName: The name of the schema. Either `SchemaArn` or `SchemaName` and `RegistryName` has to be provided.

Type: SchemaId object

Required: Yes

Response Syntax

```
{
   "NextToken": "string",
   "Schemas": [
      {
         "CreatedTime": "string",
         "SchemaArn": "string",
         "SchemaVersionId": "string",
         "Status": "string",
         "VersionNumber": number
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token for paginating the returned list of tokens, returned if the current segment of the list is not the last.

Type: String

Schemas

An array of `SchemaVersionList` objects containing details of each schema version.

Type: Array of SchemaVersionListItem objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListSessions

Retrieve a list of sessions.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string",
   "RequestOrigin": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The maximum number of results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

The token for the next set of results, or null if there are no more result.

Type: String

Length Constraints: Maximum length of 400000.

Required: No

RequestOrigin

The origin of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: No

Tags

Tags belonging to the session.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
   "Ids": [ "string" ],
   "NextToken": "string",
   "Sessions": [
      {
         "Command": {
            "Name": "string",
            "PythonVersion": "string"
         },
         "CompletedOn": number,
         "Connections": {
            "Connections": [ "string" ]
         },
         "CreatedOn": number,
         "DefaultArguments": {
            "string" : "string"
         },
         "Description": "string",
         "DPUSeconds": number,
```

```
            "ErrorMessage": "string",
            "ExecutionTime": number,
            "GlueVersion": "string",
            "Id": "string",
            "IdleTimeout": number,
            "MaxCapacity": number,
            "NumberOfWorkers": number,
            "ProfileName": "string",
            "Progress": number,
            "Role": "string",
            "SecurityConfiguration": "string",
            "Status": "string",
            "WorkerType": "string"
        }
    ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Ids

Returns the ID of the session.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

NextToken

The token for the next set of results, or null if there are no more result.

Type: String

Length Constraints: Maximum length of 400000.

Sessions

Returns the session object.

Type: Array of Session objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListStatements

Lists statements for the session.

Request Syntax

```
{
   "NextToken": "string",
   "RequestOrigin": "string",
   "SessionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

NextToken

A continuation token, if this is a continuation call.

Type: String

Length Constraints: Maximum length of 400000.

Required: No

RequestOrigin

The origin of the request to list statements.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: No

SessionId

The Session ID of the statements.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: Yes

Response Syntax

```
{
   "NextToken": "string",
   "Statements": [
      {
         "Code": "string",
         "CompletedOn": number,
         "Id": number,
         "Output": {
            "Data": {
               "TextPlain": "string"
            },
            "ErrorName": "string",
            "ErrorValue": "string",
            "ExecutionCount": number,
            "Status": "string",
            "Traceback": [ "string" ]
         },
         "Progress": number,
         "StartedOn": number,
         "State": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token, if not all statements have yet been returned.

Type: String

Length Constraints: Maximum length of 400000.

Statements

Returns the list of statements.

Type: Array of Statement objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

IllegalSessionStateException

The session is in an invalid state to perform a requested operation.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTableOptimizerRuns

Lists the history of previous optimizer runs for a specific table.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "MaxResults": number,
   "NextToken": "string",
   "TableName": "string",
   "Type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The Catalog ID of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

DatabaseName

The name of the database in the catalog in which the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

MaxResults

The maximum number of optimizer runs to return on each call.

Type: Integer

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

TableName

The name of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Type

The type of table optimizer.

Type: String

Valid Values: `compaction | retention | orphan_file_deletion`

Required: Yes

Response Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "NextToken": "string",
   "TableName": "string",
   "TableOptimizerRuns": [
```

```
      {
         "compactionMetrics": {
            "IcebergMetrics": {
               "DpuHours": number,
               "JobDurationInHour": number,
               "NumberOfBytesCompacted": number,
               "NumberOfDpus": number,
               "NumberOfFilesCompacted": number
            }
         },
         "compactionStrategy": "string",
         "endTimestamp": number,
         "error": "string",
         "eventType": "string",
         "metrics": {
            "JobDurationInHour": "string",
            "NumberOfBytesCompacted": "string",
            "NumberOfDpus": "string",
            "NumberOfFilesCompacted": "string"
         },
         "orphanFileDeletionMetrics": {
            "IcebergMetrics": {
               "DpuHours": number,
               "JobDurationInHour": number,
               "NumberOfDpus": number,
               "NumberOfOrphanFilesDeleted": number
            }
         },
         "retentionMetrics": {
            "IcebergMetrics": {
               "DpuHours": number,
               "JobDurationInHour": number,
               "NumberOfDataFilesDeleted": number,
               "NumberOfDpus": number,
               "NumberOfManifestFilesDeleted": number,
               "NumberOfManifestListsDeleted": number
            }
         },
         "startTimestamp": number
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

CatalogId

The Catalog ID of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

DatabaseName

The name of the database in the catalog in which the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

NextToken

A continuation token for paginating the returned list of optimizer runs, returned if the current segment of the list is not the last.

Type: String

TableName

The name of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

TableOptimizerRuns

A list of the optimizer runs associated with a table.

Type: Array of TableOptimizerRun objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ThrottlingException

The throttling threshhold was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTriggers

Retrieves the names of all trigger resources in this AWS account, or the resources with the specified tag. This operation allows you to see which resources are available in your account, and their names.

This operation takes the optional `Tags` field, which you can use as a filter on the response so that tagged resources can be retrieved as a group. If you choose to use tags filtering, only resources with the tag are retrieved.

Request Syntax

```
{
   "DependentJobName": "string",
   "MaxResults": number,
   "NextToken": "string",
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

DependentJobName

The name of the job for which to retrieve triggers. The trigger that can start this job is returned. If there is no such trigger, all triggers are returned.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

MaxResults

The maximum size of a list to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 200.

Required: No

NextToken

A continuation token, if this is a continuation request.

Type: String

Required: No

Tags

Specifies to return only these tagged resources.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "TriggerNames": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token, if the returned list does not contain the last metric available.

Type: String

TriggerNames

The names of all triggers in the account, or the triggers with the specified tags.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListUsageProfiles

List all the AWS Glue usage profiles.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The maximum number of usage profiles to return in a single response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 200.

Required: No

NextToken

A continuation token, included if this is a continuation call.

Type: String

Length Constraints: Maximum length of 400000.

Required: No

Response Syntax

```
{
   "NextToken": "string",
```

```
   "Profiles": [
      {
         "CreatedOn": number,
         "Description": "string",
         "LastModifiedOn": number,
         "Name": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token, present if the current list segment is not the last.

Type: String

Length Constraints: Maximum length of 400000.

Profiles

A list of usage profile (`UsageProfileDefinition`) objects.

Type: Array of UsageProfileDefinition objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationNotSupportedException

The operation is not available in the region.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListWorkflows

Lists names of workflows created in the account.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

The maximum size of a list to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

NextToken

A continuation token, if this is a continuation request.

Type: String

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "Workflows": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token, if not all workflow names have been returned.

Type: String

Workflows

List of names of workflows in the account.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ModifyIntegration

Modifies a Zero-ETL integration in the caller's account.

Request Syntax

```
{
   "DataFilter": "string",
   "Description": "string",
   "IntegrationConfig": {
      "ContinuousSync": boolean,
      "RefreshInterval": "string",
      "SourceProperties": {
         "string" : "string"
      }
   },
   "IntegrationIdentifier": "string",
   "IntegrationName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

DataFilter

Selects source tables for the integration using Maxwell filter syntax.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

Description

A description of the integration.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\S\s]*`

Required: No

IntegrationConfig

The configuration settings for the integration. Currently, only the RefreshInterval can be modified.

Type: IntegrationConfig object

Required: No

IntegrationIdentifier

The Amazon Resource Name (ARN) for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

IntegrationName

A unique name for an integration in AWS Glue.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

Response Syntax

```
{
   "AdditionalEncryptionContext": {
      "string" : "string"
   },
   "CreateTime": number,
   "DataFilter": "string",
   "Description": "string",
   "Errors": [
```

```
      {
         "ErrorCode": "string",
         "ErrorMessage": "string"
      }
   ],
   "IntegrationArn": "string",
   "IntegrationConfig": {
      "ContinuousSync": boolean,
      "RefreshInterval": "string",
      "SourceProperties": {
         "string" : "string"
      }
   },
   "IntegrationName": "string",
   "KmsKeyId": "string",
   "SourceArn": "string",
   "Status": "string",
   "Tags": [
      {
         "key": "string",
         "value": "string"
      }
   ],
   "TargetArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AdditionalEncryptionContext

An optional set of non-secret key–value pairs that contains additional contextual information for encryption.

Type: String to string map

CreateTime

The time when the integration was created, in UTC.

Type: Timestamp

DataFilter

Selects source tables for the integration using Maxwell filter syntax.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Description

A description of the integration.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\S\s]*`

Errors

A list of errors associated with the integration modification.

Type: Array of IntegrationError objects

IntegrationArn

The Amazon Resource Name (ARN) for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

IntegrationConfig

The updated configuration settings for the integration.

Type: IntegrationConfig object

IntegrationName

A unique name for an integration in AWS Glue.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

KmsKeyId

The ARN of a KMS key used for encrypting the channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

SourceArn

The ARN of the source for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Status

The status of the integration being modified.

The possible statuses are:

- CREATING: The integration is being created.
- ACTIVE: The integration creation succeeds.
- MODIFYING: The integration is being modified.
- FAILED: The integration creation fails.
- DELETING: The integration is deleted.
- SYNCING: The integration is synchronizing.
- NEEDS_ATTENTION: The integration needs attention, such as synchronization.

Type: String

Valid Values: `CREATING | ACTIVE | MODIFYING | FAILED | DELETING | SYNCING | NEEDS_ATTENTION`

Tags

Metadata assigned to the resource consisting of a list of key-value pairs.

Type: Array of Tag objects

TargetArn

The ARN of the target for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConflictException

The `CreatePartitions` API was called on a table that has indexes enabled.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

IntegrationConflictOperationFault

The requested operation conflicts with another operation.

Message

A message describing the problem.

HTTP Status Code: 400

IntegrationNotFoundFault

The specified integration could not be found.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServerException

An internal server error occurred.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidIntegrationStateFault

The integration is in an invalid state.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidStateException

An error that indicates your data is in an invalid state.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutDataCatalogEncryptionSettings

Sets the security configuration for a specified catalog. After the configuration has been set, the specified encryption is applied to every catalog write thereafter.

Request Syntax

```
{
   "CatalogId": "string",
   "DataCatalogEncryptionSettings": {
      "ConnectionPasswordEncryption": {
         "AwsKmsKeyId": "string",
         "ReturnConnectionPasswordEncrypted": boolean
      },
      "EncryptionAtRest": {
         "CatalogEncryptionMode": "string",
         "CatalogEncryptionServiceRole": "string",
         "SseAwsKmsKeyId": "string"
      }
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog to set the security configuration for. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DataCatalogEncryptionSettings

The security configuration to set.

Type: DataCatalogEncryptionSettings object

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutDataQualityProfileAnnotation

Annotate all datapoints for a Profile.

Request Syntax

```
{
   "InclusionAnnotation": "string",
   "ProfileId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

InclusionAnnotation

The inclusion annotation value to apply to the profile.

Type: String

Valid Values: `INCLUDE | EXCLUDE`

Required: Yes

ProfileId

The ID of the data quality monitoring profile to annotate.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutResourcePolicy

Sets the Data Catalog resource policy for access control.

Request Syntax

```
{
   "EnableHybrid": "string",
   "PolicyExistsCondition": "string",
   "PolicyHashCondition": "string",
   "PolicyInJson": "string",
   "ResourceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

EnableHybrid

If `'TRUE'`, indicates that you are using both methods to grant cross-account access to Data Catalog resources:

- By directly updating the resource policy with `PutResourePolicy`
- By using the **Grant permissions** command on the AWS Management Console.

Must be set to `'TRUE'` if you have already used the Management Console to grant cross-account access, otherwise the call fails. Default is 'FALSE'.

Type: String

Valid Values: `TRUE | FALSE`

Required: No

PolicyExistsCondition

A value of `MUST_EXIST` is used to update a policy. A value of `NOT_EXIST` is used to create a new policy. If a value of `NONE` or a null value is used, the call does not depend on the existence of a policy.

Type: String

Valid Values: `MUST_EXIST | NOT_EXIST | NONE`

Required: No

PolicyHashCondition

The hash value returned when the previous policy was set using `PutResourcePolicy`. Its purpose is to prevent concurrent modifications of a policy. Do not use this parameter if no previous policy has been set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

PolicyInJson

Contains the policy document to set, in JSON format.

Type: String

Length Constraints: Minimum length of 2.

Required: Yes

ResourceArn

Do not use. For internal use only.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

Required: No

Response Syntax

```
{
```

```
   "PolicyHash": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

PolicyHash

A hash of the policy that has just been set. This must be included in a subsequent call that overwrites or updates this policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

ConditionCheckFailureException

A specified condition was not satisfied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutSchemaVersionMetadata

Puts the metadata key value pair for a specified schema version ID. A maximum of 10 key value pairs will be allowed per schema version. They can be added over one or more calls.

Request Syntax

```
{
   "MetadataKeyValue": {
      "MetadataKey": "string",
      "MetadataValue": "string"
   },
   "SchemaId": {
      "RegistryName": "string",
      "SchemaArn": "string",
      "SchemaName": "string"
   },
   "SchemaVersionId": "string",
   "SchemaVersionNumber": {
      "LatestVersion": boolean,
      "VersionNumber": number
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MetadataKeyValue

The metadata key's corresponding value.

Type: MetadataKeyValuePair object

Required: Yes

SchemaId

The unique ID for the schema.

Type: SchemaId object

Required: No

SchemaVersionId

The unique version ID of the schema version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

SchemaVersionNumber

The version number of the schema.

Type: SchemaVersionNumber object

Required: No

Response Syntax

```
{
   "LatestVersion": boolean,
   "MetadataKey": "string",
   "MetadataValue": "string",
   "RegistryName": "string",
   "SchemaArn": "string",
   "SchemaName": "string",
   "SchemaVersionId": "string",
   "VersionNumber": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

LatestVersion

The latest version of the schema.

Type: Boolean

MetadataKey

The metadata key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9+-=._./@]+`

MetadataValue

The value of the metadata key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z0-9+-=._./@]+`

RegistryName

The name for the registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

SchemaArn

The Amazon Resource Name (ARN) for the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

SchemaName

The name for the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

SchemaVersionId

The unique version ID of the schema version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

VersionNumber

The version number of the schema.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 100000.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutWorkflowRunProperties

Puts the specified workflow run properties for the given workflow run. If a property already exists for the specified run, then it overrides the value otherwise adds the property to existing properties.

Request Syntax

```
{
   "Name": "string",
   "RunId": "string",
   "RunProperties": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

Name of the workflow which was run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

RunId

The ID of the workflow run for which the run properties should be updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

RunProperties

The properties to put for the specified run.

Run properties may be logged. Do not pass plaintext secrets as properties. Retrieve secrets from a AWS Glue Connection, AWS Secrets Manager or other secret management mechanism if you intend to use them within the workflow run.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

QuerySchemaVersionMetadata

Queries for the schema version metadata information.

Request Syntax

```
{
   "MaxResults": number,
   "MetadataList": [
      {
         "MetadataKey": "string",
         "MetadataValue": "string"
      }
   ],
   "NextToken": "string",
   "SchemaId": {
      "RegistryName": "string",
      "SchemaArn": "string",
      "SchemaName": "string"
   },
   "SchemaVersionId": "string",
   "SchemaVersionNumber": {
      "LatestVersion": boolean,
      "VersionNumber": number
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MaxResults

Maximum number of results required per page. If the value is not supplied, this will be defaulted to 25 per page.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

MetadataList

Search key-value pairs for metadata, if they are not provided all the metadata information will be fetched.

Type: Array of MetadataKeyValuePair objects

Required: No

NextToken

A continuation token, if this is a continuation call.

Type: String

Required: No

SchemaId

A wrapper structure that may contain the schema name and Amazon Resource Name (ARN).

Type: SchemaId object

Required: No

SchemaVersionId

The unique version ID of the schema version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

SchemaVersionNumber

The version number of the schema.

Type: SchemaVersionNumber object

Required: No

Response Syntax

```
{
   "MetadataInfoMap": {
      "string" : {
         "CreatedTime": "string",
         "MetadataValue": "string",
         "OtherMetadataValueList": [
            {
               "CreatedTime": "string",
               "MetadataValue": "string"
            }
         ]
      }
   },
   "NextToken": "string",
   "SchemaVersionId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

MetadataInfoMap

A map of a metadata key and associated values.

Type: String to MetadataInfo object map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[a-zA-Z0-9+-=._/@]+`

NextToken

A continuation token for paginating the returned list of tokens, returned if the current segment of the list is not the last.

Type: String

SchemaVersionId

The unique version ID of the schema version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

RegisterConnectionType

Registers a custom connection type in AWS Glue based on the configuration provided. This operation enables customers to configure custom connectors for any data source with REST-based APIs, eliminating the need for building custom Lambda connectors.

The registered connection type stores details about how requests and responses are interpreted by REST sources, including connection properties, authentication configuration, and REST configuration with entity definitions. Once registered, customers can create connections using this connection type and work with them the same way as natively supported AWS Glue connectors.

Supports multiple authentication types including Basic, OAuth2 (Client Credentials, JWT Bearer, Authorization Code), and Custom Auth configurations.

Request Syntax

```
{
   "ConnectionProperties": {
      "AdditionalRequestParameters": [
         {
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "KeyOverride": "string",
            "Name": "string",
            "PropertyLocation": "string",
            "PropertyType": "string",
            "Required": boolean
         }
      ],
      "Url": {
         "AllowedValues": [ "string" ],
         "DefaultValue": "string",
         "KeyOverride": "string",
         "Name": "string",
         "PropertyLocation": "string",
         "PropertyType": "string",
         "Required": boolean
      }
   },
   "ConnectionType": "string",
   "ConnectorAuthenticationConfiguration": {
      "AuthenticationTypes": [ "string" ],
```

```
      "BasicAuthenticationProperties": {
         "Password": {
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "KeyOverride": "string",
            "Name": "string",
            "PropertyLocation": "string",
            "PropertyType": "string",
            "Required": boolean
         },
         "Username": {
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "KeyOverride": "string",
            "Name": "string",
            "PropertyLocation": "string",
            "PropertyType": "string",
            "Required": boolean
         }
      },
      "CustomAuthenticationProperties": {
         "AuthenticationParameters": [
            {
               "AllowedValues": [ "string" ],
               "DefaultValue": "string",
               "KeyOverride": "string",
               "Name": "string",
               "PropertyLocation": "string",
               "PropertyType": "string",
               "Required": boolean
            }
         ]
      },
      "OAuth2Properties": {
         "AuthorizationCodeProperties": {
            "AuthorizationCode": {
               "AllowedValues": [ "string" ],
               "DefaultValue": "string",
               "KeyOverride": "string",
               "Name": "string",
               "PropertyLocation": "string",
               "PropertyType": "string",
               "Required": boolean
            },
```

```
            "AuthorizationCodeUrl": {
               "AllowedValues": [ "string" ],
               "DefaultValue": "string",
               "KeyOverride": "string",
               "Name": "string",
               "PropertyLocation": "string",
               "PropertyType": "string",
               "Required": boolean
            },
            "ClientId": {
               "AllowedValues": [ "string" ],
               "DefaultValue": "string",
               "KeyOverride": "string",
               "Name": "string",
               "PropertyLocation": "string",
               "PropertyType": "string",
               "Required": boolean
            },
            "ClientSecret": {
               "AllowedValues": [ "string" ],
               "DefaultValue": "string",
               "KeyOverride": "string",
               "Name": "string",
               "PropertyLocation": "string",
               "PropertyType": "string",
               "Required": boolean
            },
            "ContentType": "string",
            "Prompt": {
               "AllowedValues": [ "string" ],
               "DefaultValue": "string",
               "KeyOverride": "string",
               "Name": "string",
               "PropertyLocation": "string",
               "PropertyType": "string",
               "Required": boolean
            },
            "RedirectUri": {
               "AllowedValues": [ "string" ],
               "DefaultValue": "string",
               "KeyOverride": "string",
               "Name": "string",
               "PropertyLocation": "string",
               "PropertyType": "string",
```

```
            "Required": boolean
         },
         "RequestMethod": "string",
         "Scope": {
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "KeyOverride": "string",
            "Name": "string",
            "PropertyLocation": "string",
            "PropertyType": "string",
            "Required": boolean
         },
         "TokenUrl": {
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "KeyOverride": "string",
            "Name": "string",
            "PropertyLocation": "string",
            "PropertyType": "string",
            "Required": boolean
         },
         "TokenUrlParameters": [
            {
               "AllowedValues": [ "string" ],
               "DefaultValue": "string",
               "KeyOverride": "string",
               "Name": "string",
               "PropertyLocation": "string",
               "PropertyType": "string",
               "Required": boolean
            }
         ]
      },
      "ClientCredentialsProperties": {
         "ClientId": {
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "KeyOverride": "string",
            "Name": "string",
            "PropertyLocation": "string",
            "PropertyType": "string",
            "Required": boolean
         },
         "ClientSecret": {
```

```
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "KeyOverride": "string",
            "Name": "string",
            "PropertyLocation": "string",
            "PropertyType": "string",
            "Required": boolean
         },
         "ContentType": "string",
         "RequestMethod": "string",
         "Scope": {
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "KeyOverride": "string",
            "Name": "string",
            "PropertyLocation": "string",
            "PropertyType": "string",
            "Required": boolean
         },
         "TokenUrl": {
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "KeyOverride": "string",
            "Name": "string",
            "PropertyLocation": "string",
            "PropertyType": "string",
            "Required": boolean
         },
         "TokenUrlParameters": [
            {
               "AllowedValues": [ "string" ],
               "DefaultValue": "string",
               "KeyOverride": "string",
               "Name": "string",
               "PropertyLocation": "string",
               "PropertyType": "string",
               "Required": boolean
            }
         ]
      },
      "JWTBearerProperties": {
         "ContentType": "string",
         "JwtToken": {
            "AllowedValues": [ "string" ],
```

```
            "DefaultValue": "string",
            "KeyOverride": "string",
            "Name": "string",
            "PropertyLocation": "string",
            "PropertyType": "string",
            "Required": boolean
         },
         "RequestMethod": "string",
         "TokenUrl": {
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "KeyOverride": "string",
            "Name": "string",
            "PropertyLocation": "string",
            "PropertyType": "string",
            "Required": boolean
         },
         "TokenUrlParameters": [
            {
               "AllowedValues": [ "string" ],
               "DefaultValue": "string",
               "KeyOverride": "string",
               "Name": "string",
               "PropertyLocation": "string",
               "PropertyType": "string",
               "Required": boolean
            }
         ]
      },
      "OAuth2GrantType": "string"
   }
},
"Description": "string",
"IntegrationType": "string",
"RestConfiguration": {
   "EntityConfigurations": {
      "string" : {
         "Schema": {
            "string" : {
               "FieldDataType": "string",
               "Name": "string"
            }
         },
         "SourceConfiguration": {
```

```
      "PaginationConfiguration": {
         "CursorConfiguration": {
            "LimitParameter": {
               "DefaultValue": "string",
               "Key": "string",
               "PropertyLocation": "string",
               "Value": {
                  "ContentPath": "string",
                  "HeaderKey": "string"
               }
            },
            "NextPage": {
               "DefaultValue": "string",
               "Key": "string",
               "PropertyLocation": "string",
               "Value": {
                  "ContentPath": "string",
                  "HeaderKey": "string"
               }
            }
         },
         "OffsetConfiguration": {
            "LimitParameter": {
               "DefaultValue": "string",
               "Key": "string",
               "PropertyLocation": "string",
               "Value": {
                  "ContentPath": "string",
                  "HeaderKey": "string"
               }
            },
            "OffsetParameter": {
               "DefaultValue": "string",
               "Key": "string",
               "PropertyLocation": "string",
               "Value": {
                  "ContentPath": "string",
                  "HeaderKey": "string"
               }
            }
         }
      },
      "RequestMethod": "string",
      "RequestParameters": [
```

```
                {
                   "AllowedValues": [ "string" ],
                   "DefaultValue": "string",
                   "KeyOverride": "string",
                   "Name": "string",
                   "PropertyLocation": "string",
                   "PropertyType": "string",
                   "Required": boolean
                }
             ],
             "RequestPath": "string",
             "ResponseConfiguration": {
                "ErrorPath": "string",
                "ResultPath": "string"
             }
          }
       }
    },
    "GlobalSourceConfiguration": {
       "PaginationConfiguration": {
          "CursorConfiguration": {
             "LimitParameter": {
                "DefaultValue": "string",
                "Key": "string",
                "PropertyLocation": "string",
                "Value": {
                   "ContentPath": "string",
                   "HeaderKey": "string"
                }
             },
             "NextPage": {
                "DefaultValue": "string",
                "Key": "string",
                "PropertyLocation": "string",
                "Value": {
                   "ContentPath": "string",
                   "HeaderKey": "string"
                }
             }
          },
          "OffsetConfiguration": {
             "LimitParameter": {
                "DefaultValue": "string",
                "Key": "string",
```

```
                "PropertyLocation": "string",
                "Value": {
                   "ContentPath": "string",
                   "HeaderKey": "string"
                }
             },
             "OffsetParameter": {
                "DefaultValue": "string",
                "Key": "string",
                "PropertyLocation": "string",
                "Value": {
                   "ContentPath": "string",
                   "HeaderKey": "string"
                }
             }
          }
       },
       "RequestMethod": "string",
       "RequestParameters": [
          {
             "AllowedValues": [ "string" ],
             "DefaultValue": "string",
             "KeyOverride": "string",
             "Name": "string",
             "PropertyLocation": "string",
             "PropertyType": "string",
             "Required": boolean
          }
       ],
       "RequestPath": "string",
       "ResponseConfiguration": {
          "ErrorPath": "string",
          "ResultPath": "string"
       }
    },
    "ValidationEndpointConfiguration": {
       "PaginationConfiguration": {
          "CursorConfiguration": {
             "LimitParameter": {
                "DefaultValue": "string",
                "Key": "string",
                "PropertyLocation": "string",
                "Value": {
                   "ContentPath": "string",
```

```
                    "HeaderKey": "string"
                }
            },
            "NextPage": {
                "DefaultValue": "string",
                "Key": "string",
                "PropertyLocation": "string",
                "Value": {
                    "ContentPath": "string",
                    "HeaderKey": "string"
                }
            }
        },
        "OffsetConfiguration": {
            "LimitParameter": {
                "DefaultValue": "string",
                "Key": "string",
                "PropertyLocation": "string",
                "Value": {
                    "ContentPath": "string",
                    "HeaderKey": "string"
                }
            },
            "OffsetParameter": {
                "DefaultValue": "string",
                "Key": "string",
                "PropertyLocation": "string",
                "Value": {
                    "ContentPath": "string",
                    "HeaderKey": "string"
                }
            }
        }
    },
    "RequestMethod": "string",
    "RequestParameters": [
        {
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "KeyOverride": "string",
            "Name": "string",
            "PropertyLocation": "string",
            "PropertyType": "string",
            "Required": boolean
```

```
            }
         ],
         "RequestPath": "string",
         "ResponseConfiguration": {
            "ErrorPath": "string",
            "ResultPath": "string"
         }
      }
   },
   "Tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ConnectionProperties

Defines the base URL and additional request parameters needed during connection creation for this connection type.

Type: ConnectionPropertiesConfiguration object

Required: Yes

ConnectionType

The name of the connection type. Must be between 1 and 255 characters and must be prefixed with "REST-" to indicate it is a REST-based connector.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

ConnectorAuthenticationConfiguration

Defines the supported authentication types and required properties for this connection type, including Basic, OAuth2, and Custom authentication methods.

Type: ConnectorAuthenticationConfiguration object

Required: Yes

Description

A description of the connection type. Can be up to 2048 characters and provides details about the purpose and functionality of the connection type.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

IntegrationType

The integration type for the connection. Currently only "REST" protocol is supported.

Type: String

Valid Values: REST

Required: Yes

RestConfiguration

Defines the HTTP request and response configuration, validation endpoint, and entity configurations for REST API interactions.

Type: RestConfiguration object

Required: Yes

Tags

The tags you assign to the connection type.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
{
   "ConnectionTypeArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ConnectionTypeArn

The Amazon Resource Name (ARN) of the registered connection type. This unique identifier can be used to reference the connection type in other AWS Glue operations.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

RegisterSchemaVersion

Adds a new version to the existing schema. Returns an error if new version of schema does not meet the compatibility requirements of the schema set. This API will not create a new schema set and will return a 404 error if the schema set is not already present in the Schema Registry.

If this is the first schema definition to be registered in the Schema Registry, this API will store the schema version and return immediately. Otherwise, this call has the potential to run longer than other operations due to compatibility modes. You can call the `GetSchemaVersion` API with the `SchemaVersionId` to check compatibility modes.

If the same schema definition is already stored in Schema Registry as a version, the schema ID of the existing schema is returned to the caller.

Request Syntax

```
{
   "SchemaDefinition": "string",
   "SchemaId": {
      "RegistryName": "string",
      "SchemaArn": "string",
      "SchemaName": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

SchemaDefinition

The schema definition using the `DataFormat` setting for the `SchemaName`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 170000.

Pattern: `.*\S.*`

Required: Yes

SchemaId

This is a wrapper structure to contain schema identity fields. The structure contains:

- SchemaId$SchemaArn: The Amazon Resource Name (ARN) of the schema. Either `SchemaArn` or `SchemaName` and `RegistryName` has to be provided.
- SchemaId$SchemaName: The name of the schema. Either `SchemaArn` or `SchemaName` and `RegistryName` has to be provided.

Type: SchemaId object

Required: Yes

Response Syntax

```
{
   "SchemaVersionId": "string",
   "Status": "string",
   "VersionNumber": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

SchemaVersionId

The unique ID that represents the version of this schema.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Status

The status of the schema version.

Type: String

Valid Values: `AVAILABLE | PENDING | FAILURE | DELETING`

VersionNumber

The version of this schema (for sync flow only, in case this is the first version).

Type: Long

Valid Range: Minimum value of 1. Maximum value of 100000.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

RemoveSchemaVersionMetadata

Removes a key value pair from the schema version metadata for the specified schema version ID.

Request Syntax

```
{
   "MetadataKeyValue": {
      "MetadataKey": "string",
      "MetadataValue": "string"
   },
   "SchemaId": {
      "RegistryName": "string",
      "SchemaArn": "string",
      "SchemaName": "string"
   },
   "SchemaVersionId": "string",
   "SchemaVersionNumber": {
      "LatestVersion": boolean,
      "VersionNumber": number
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

MetadataKeyValue

The value of the metadata key.

Type: MetadataKeyValuePair object

Required: Yes

SchemaId

A wrapper structure that may contain the schema name and Amazon Resource Name (ARN).

Type: SchemaId object

Required: No

SchemaVersionId

The unique version ID of the schema version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

SchemaVersionNumber

The version number of the schema.

Type: SchemaVersionNumber object

Required: No

Response Syntax

```
{
   "LatestVersion": boolean,
   "MetadataKey": "string",
   "MetadataValue": "string",
   "RegistryName": "string",
   "SchemaArn": "string",
   "SchemaName": "string",
   "SchemaVersionId": "string",
   "VersionNumber": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

LatestVersion

The latest version of the schema.

Type: Boolean

MetadataKey

The metadata key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9+-=._./@]+`

MetadataValue

The value of the metadata key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z0-9+-=._./@]+`

RegistryName

The name of the registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

SchemaArn

The Amazon Resource Name (ARN) of the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

SchemaName

The name of the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

SchemaVersionId

The version ID for the schema version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

VersionNumber

The version number of the schema.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 100000.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ResetJobBookmark

Resets a bookmark entry.

For more information about enabling and using job bookmarks, see:

- Tracking processed data using job bookmarks
- Job parameters used by AWS Glue
- Job structure

Request Syntax

```
{
   "JobName": "string",
   "RunId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

JobName

The name of the job in question.

Type: String

Required: Yes

RunId

The unique run identifier associated with this job run.

Type: String

Required: No

Response Syntax

```
{
   "JobBookmarkEntry": {
      "Attempt": number,
      "JobBookmark": "string",
      "JobName": "string",
      "PreviousRunId": "string",
      "Run": number,
      "RunId": "string",
      "Version": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

JobBookmarkEntry

The reset bookmark entry.

Type: JobBookmarkEntry object

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ResumeWorkflowRun

Restarts selected nodes of a previous partially completed workflow run and resumes the workflow run. The selected nodes and all nodes that are downstream from the selected nodes are run.

Request Syntax

```
{
   "Name": "string",
   "NodeIds": [ "string" ],
   "RunId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the workflow to resume.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

NodeIds

A list of the node IDs for the nodes you want to restart. The nodes that are to be restarted must have a run attempt in the original run.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

RunId

The ID of the workflow run to resume.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "NodeIds": [ "string" ],
   "RunId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NodeIds

A list of the node IDs for the nodes that were actually restarted.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

RunId

The new ID assigned to the resumed workflow run. Each resume of a workflow run will have a new run ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

ConcurrentRunsExceededException

Too many jobs are being run concurrently.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

IllegalWorkflowStateException

The workflow is in an invalid state to perform a requested operation.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

RunStatement

Executes the statement.

Request Syntax

```
{
   "Code": "string",
   "RequestOrigin": "string",
   "SessionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Code

The statement code to be run.

Type: String

Length Constraints: Maximum length of 68000.

Required: Yes

RequestOrigin

The origin of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: No

SessionId

The Session Id of the statement to be run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Id": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Id

Returns the Id of the statement that was run.

Type: Integer

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

IllegalSessionStateException

The session is in an invalid state to perform a requested operation.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

SearchTables

Searches a set of tables based on properties in the table metadata as well as on the parent database. You can search against text or filter conditions.

You can only get tables that you have access to based on the security policies defined in Lake Formation. You need at least a read-only access to the table for it to be returned. If you do not have access to all the columns in the table, these columns will not be searched against when returning the list of tables back to you. If you have access to the columns but not the data in the columns, those columns and the associated metadata for those columns will be included in the search.

Request Syntax

```
{
   "CatalogId": "string",
   "Filters": [
      {
         "Comparator": "string",
         "Key": "string",
         "Value": "string"
      }
   ],
   "IncludeStatusDetails": boolean,
   "MaxResults": number,
   "NextToken": "string",
   "ResourceShareType": "string",
   "SearchText": "string",
   "SortCriteria": [
      {
         "FieldName": "string",
         "Sort": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

A unique identifier, consisting of *account_id* .

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Filters

A list of key-value pairs, and a comparator used to filter the search results. Returns all entities matching the predicate.

The `Comparator` member of the `PropertyPredicate` struct is used only for time fields, and can be omitted for other field types. Also, when comparing string values, such as when `Key=Name`, a fuzzy match algorithm is used. The `Key` field (for example, the value of the `Name` field) is split on certain punctuation characters, for example, -, :, #, etc. into tokens. Then each token is exact-match compared with the `Value` member of `PropertyPredicate`. For example, if `Key=Name` and `Value=link`, tables named `customer-link` and `xx-link-yy` are returned, but `xxlinkyy` is not returned.

Type: Array of PropertyPredicate objects

Required: No

IncludeStatusDetails

Specifies whether to include status details related to a request to create or update an AWS Glue Data Catalog view.

Type: Boolean

Required: No

MaxResults

The maximum number of tables to return in a single response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A continuation token, included if this is a continuation call.

Type: String

Required: No

ResourceShareType

Allows you to specify that you want to search the tables shared with your account. The allowable values are `FOREIGN` or `ALL`.

- If set to `FOREIGN`, will search the tables shared with your account.
- If set to `ALL`, will search the tables shared with your account, as well as the tables in yor local account.

Type: String

Valid Values: `FOREIGN | ALL | FEDERATED`

Required: No

SearchText

A string used for a text search.

Specifying a value in quotes filters based on an exact match to the value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

SortCriteria

A list of criteria for sorting the results by a field name, in an ascending or descending order.

Type: Array of SortCriterion objects

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "TableList": [
      {
         "CatalogId": "string",
         "CreatedBy": "string",
         "CreateTime": number,
         "DatabaseName": "string",
         "Description": "string",
         "FederatedTable": {
            "ConnectionName": "string",
            "ConnectionType": "string",
            "DatabaseIdentifier": "string",
            "Identifier": "string"
         },
         "IsMaterializedView": boolean,
         "IsMultiDialectView": boolean,
         "IsRegisteredWithLakeFormation": boolean,
         "LastAccessTime": number,
         "LastAnalyzedTime": number,
         "Name": "string",
         "Owner": "string",
         "Parameters": {
            "string" : "string"
         },
         "PartitionKeys": [
            {
               "Comment": "string",
               "Name": "string",
               "Parameters": {
                  "string" : "string"
               },
               "Type": "string"
            }
         ],
         "Retention": number,
         "Status": {
            "Action": "string",
            "Details": {
               "RequestedChange": "Table",
               "ViewValidations": [
```

```
                {
                   "Dialect": "string",
                   "DialectVersion": "string",
                   "Error": {
                      "ErrorCode": "string",
                      "ErrorMessage": "string"
                   },
                   "State": "string",
                   "UpdateTime": number,
                   "ViewValidationText": "string"
                }
             ]
          },
          "Error": {
             "ErrorCode": "string",
             "ErrorMessage": "string"
          },
          "RequestedBy": "string",
          "RequestTime": number,
          "State": "string",
          "UpdatedBy": "string",
          "UpdateTime": number
       },
       "StorageDescriptor": {
          "AdditionalLocations": [ "string" ],
          "BucketColumns": [ "string" ],
          "Columns": [
             {
                "Comment": "string",
                "Name": "string",
                "Parameters": {
                   "string" : "string"
                },
                "Type": "string"
             }
          ],
          "Compressed": boolean,
          "InputFormat": "string",
          "Location": "string",
          "NumberOfBuckets": number,
          "OutputFormat": "string",
          "Parameters": {
             "string" : "string"
          },
```

```
            "SchemaReference": {
               "SchemaId": {
                  "RegistryName": "string",
                  "SchemaArn": "string",
                  "SchemaName": "string"
               },
               "SchemaVersionId": "string",
               "SchemaVersionNumber": number
            },
            "SerdeInfo": {
               "Name": "string",
               "Parameters": {
                  "string" : "string"
               },
               "SerializationLibrary": "string"
            },
            "SkewedInfo": {
               "SkewedColumnNames": [ "string" ],
               "SkewedColumnValueLocationMaps": {
                  "string" : "string"
               },
               "SkewedColumnValues": [ "string" ]
            },
            "SortColumns": [
               {
                  "Column": "string",
                  "SortOrder": number
               }
            ],
            "StoredAsSubDirectories": boolean
         },
         "TableType": "string",
         "TargetTable": {
            "CatalogId": "string",
            "DatabaseName": "string",
            "Name": "string",
            "Region": "string"
         },
         "UpdateTime": number,
         "VersionId": "string",
         "ViewDefinition": {
            "Definer": "string",
            "IsProtected": boolean,
            "LastRefreshType": "string",
```

```
            "RefreshSeconds": number,
            "Representations": [
               {
                  "Dialect": "string",
                  "DialectVersion": "string",
                  "IsStale": boolean,
                  "ValidationConnection": "string",
                  "ViewExpandedText": "string",
                  "ViewOriginalText": "string"
               }
            ],
            "SubObjects": [ "string" ],
            "SubObjectVersionIds": [ number ],
            "ViewVersionId": number,
            "ViewVersionToken": "string"
         },
         "ViewExpandedText": "string",
         "ViewOriginalText": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A continuation token, present if the current list segment is not the last.

Type: String

TableList

A list of the requested `Table` objects. The `SearchTables` response returns only the tables that you have access to.

Type: Array of Table objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartBlueprintRun

Starts a new run of the specified blueprint.

Request Syntax

```
{
   "BlueprintName": "string",
   "Parameters": "string",
   "RoleArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

BlueprintName

The name of the blueprint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: Yes

Parameters

Specifies the parameters as a `BlueprintParameters` object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Required: No

RoleArn

Specifies the IAM role used to create the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `arn:aws[^:]*:iam::[0-9]*:role/.+`

Required: Yes

Response Syntax

```
{
   "RunId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

RunId

The run ID for this blueprint run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

IllegalBlueprintStateException

The blueprint is in an invalid state to perform a requested operation.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartColumnStatisticsTaskRun

Starts a column statistics task run, for a specified table and columns.

Request Syntax

```
{
   "CatalogID": "string",
   "ColumnNameList": [ "string" ],
   "DatabaseName": "string",
   "Role": "string",
   "SampleSize": number,
   "SecurityConfiguration": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogID

The ID of the Data Catalog where the table reside. If none is supplied, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ColumnNameList

A list of the column names to generate statistics. If none is supplied, all column names for the table will be used by default.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the database where the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Role

The IAM role that the service assumes to generate statistics.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

SampleSize

The percentage of rows used to generate statistics. If none is supplied, the entire table will be used to generate stats.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

SecurityConfiguration

Name of the security configuration that is used to encrypt CloudWatch logs for the column stats task run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

TableName

The name of the table to generate statistics.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "ColumnStatisticsTaskRunId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ColumnStatisticsTaskRunId

The identifier for the column statistics task run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ColumnStatisticsTaskRunningException

An exception thrown when you try to start another job while running a column stats generation job.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartColumnStatisticsTaskRunSchedule

Starts a column statistics task run schedule.

Request Syntax

```
{
   "DatabaseName": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

DatabaseName

The name of the database where the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the table for which to start a column statistic task run schedule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartCrawler

Starts a crawl using the specified crawler, regardless of what is scheduled. If the crawler is already running, returns a CrawlerRunningException.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

Name of the crawler to start.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

CrawlerRunningException

The operation cannot be performed because the crawler is already running.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartCrawlerSchedule

Changes the schedule state of the specified crawler to SCHEDULED, unless the crawler is already running or the schedule state is already SCHEDULED.

Request Syntax

```
{
   "CrawlerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CrawlerName

Name of the crawler to schedule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

NoScheduleException

There is no applicable schedule.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

SchedulerRunningException

The specified scheduler is already running.

Message

A message describing the problem.

HTTP Status Code: 400

SchedulerTransitioningException

The specified scheduler is transitioning.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartDataQualityRuleRecommendationRun

Starts a recommendation run that is used to generate rules when you don't know what rules to write. AWS Glue Data Quality analyzes the data and comes up with recommendations for a potential ruleset. You can then triage the ruleset and modify the generated ruleset to your liking.

Recommendation runs are automatically deleted after 90 days.

Request Syntax

```
{
   "ClientToken": "string",
   "CreatedRulesetName": "string",
   "DataQualitySecurityConfiguration": "string",
   "DataSource": {
      "DataQualityGlueTable": {
         "AdditionalOptions": {
            "string" : "string"
         },
         "CatalogId": "string",
         "ConnectionName": "string",
         "DatabaseName": "string",
         "PreProcessingQuery": "string",
         "TableName": "string"
      },
      "GlueTable": {
         "AdditionalOptions": {
            "string" : "string"
         },
         "CatalogId": "string",
         "ConnectionName": "string",
         "DatabaseName": "string",
         "TableName": "string"
      }
   },
   "NumberOfWorkers": number,
   "Role": "string",
   "Timeout": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ClientToken

Used for idempotency and is recommended to be set to a random ID (such as a UUID) to avoid creating or starting multiple instances of the same resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

CreatedRulesetName

A name for the ruleset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DataQualitySecurityConfiguration

The name of the security configuration created with the data quality encryption option.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DataSource

The data source (AWS Glue table) associated with this run.

Type: DataSource object

Required: Yes

NumberOfWorkers

The number of `G.1X` workers to be used in the run. The default is 5.

Type: Integer

Required: No

Role

An IAM role supplied to encrypt the results of the run.

Type: String

Required: Yes

Timeout

The timeout for a run in minutes. This is the maximum time that a run can consume resources before it is terminated and enters `TIMEOUT` status. The default is 2,880 minutes (48 hours).

Type: Integer

Valid Range: Minimum value of 1.

Required: No

Response Syntax

```
{
   "RunId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

RunId

The unique run identifier associated with this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

ConflictException

The `CreatePartitions` API was called on a table that has indexes enabled.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartDataQualityRulesetEvaluationRun

Once you have a ruleset definition (either recommended or your own), you call this operation to evaluate the ruleset against a data source (AWS Glue table). The evaluation computes results which you can retrieve with the `GetDataQualityResult` API.

Request Syntax

```
{
   "AdditionalDataSources": {
      "string" : {
         "DataQualityGlueTable": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "CatalogId": "string",
            "ConnectionName": "string",
            "DatabaseName": "string",
            "PreProcessingQuery": "string",
            "TableName": "string"
         },
         "GlueTable": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "CatalogId": "string",
            "ConnectionName": "string",
            "DatabaseName": "string",
            "TableName": "string"
         }
      }
   },
   "AdditionalRunOptions": {
      "CloudWatchMetricsEnabled": boolean,
      "CompositeRuleEvaluationMethod": "string",
      "ResultsS3Prefix": "string"
   },
   "ClientToken": "string",
   "DataSource": {
      "DataQualityGlueTable": {
         "AdditionalOptions": {
            "string" : "string"
```

```
            },
            "CatalogId": "string",
            "ConnectionName": "string",
            "DatabaseName": "string",
            "PreProcessingQuery": "string",
            "TableName": "string"
        },
        "GlueTable": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "CatalogId": "string",
            "ConnectionName": "string",
            "DatabaseName": "string",
            "TableName": "string"
        }
    },
    "NumberOfWorkers": number,
    "Role": "string",
    "RulesetNames": [ "string" ],
    "Timeout": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

AdditionalDataSources

A map of reference strings to additional data sources you can specify for an evaluation run.

Type: String to DataSource object map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

AdditionalRunOptions

Additional run options you can specify for an evaluation run.

Type: DataQualityEvaluationRunAdditionalRunOptions object

Required: No

ClientToken

Used for idempotency and is recommended to be set to a random ID (such as a UUID) to avoid creating or starting multiple instances of the same resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DataSource

The data source (AWS Glue table) associated with this run.

Type: DataSource object

Required: Yes

NumberOfWorkers

The number of `G.1X` workers to be used in the run. The default is 5.

Type: Integer

Required: No

Role

An IAM role supplied to encrypt the results of the run.

Type: String

Required: Yes

RulesetNames

A list of ruleset names.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Timeout

The timeout for a run in minutes. This is the maximum time that a run can consume resources before it is terminated and enters `TIMEOUT` status. The default is 2,880 minutes (48 hours).

Type: Integer

Valid Range: Minimum value of 1.

Required: No

Response Syntax

```
{
   "RunId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

RunId

The unique run identifier associated with this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

ConflictException

The `CreatePartitions` API was called on a table that has indexes enabled.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartExportLabelsTaskRun

Begins an asynchronous task to export all labeled data for a particular transform. This task is the only label-related API call that is not part of the typical active learning workflow. You typically use `StartExportLabelsTaskRun` when you want to work with all of your existing labels at the same time, such as when you want to remove or change labels that were previously submitted as truth. This API operation accepts the `TransformId` whose labels you want to export and an Amazon Simple Storage Service (Amazon S3) path to export the labels to. The operation returns a `TaskRunId`. You can check on the status of your task run by calling the `GetMLTaskRun` API.

Request Syntax

```
{
   "OutputS3Path": "string",
   "TransformId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

OutputS3Path

The Amazon S3 path where you export the labels.

Type: String

Required: Yes

TransformId

The unique identifier of the machine learning transform.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "TaskRunId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

TaskRunId

The unique identifier for the task run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartImportLabelsTaskRun

Enables you to provide additional labels (examples of truth) to be used to teach the machine learning transform and improve its quality. This API operation is generally used as part of the active learning workflow that starts with the `StartMLLabelingSetGenerationTaskRun` call and that ultimately results in improving the quality of your machine learning transform.

After the `StartMLLabelingSetGenerationTaskRun` finishes, AWS Glue machine learning will have generated a series of questions for humans to answer. (Answering these questions is often called 'labeling' in the machine learning workflows). In the case of the `FindMatches` transform, these questions are of the form, “What is the correct way to group these rows together into groups composed entirely of matching records?” After the labeling process is finished, users upload their answers/labels with a call to `StartImportLabelsTaskRun`. After `StartImportLabelsTaskRun` finishes, all future runs of the machine learning transform use the new and improved labels and perform a higher-quality transformation.

By default, `StartMLLabelingSetGenerationTaskRun` continually learns from and combines all labels that you upload unless you set `Replace` to true. If you set `Replace` to true, `StartImportLabelsTaskRun` deletes and forgets all previously uploaded labels and learns only from the exact set that you upload. Replacing labels can be helpful if you realize that you previously uploaded incorrect labels, and you believe that they are having a negative effect on your transform quality.

You can check on the status of your task run by calling the `GetMLTaskRun` operation.

Request Syntax

```
{
   "InputS3Path": "string",
   "ReplaceAllLabels": boolean,
   "TransformId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

InputS3Path

The Amazon Simple Storage Service (Amazon S3) path from where you import the labels.

Type: String

Required: Yes

ReplaceAllLabels

Indicates whether to overwrite your existing labels.

Type: Boolean

Required: No

TransformId

The unique identifier of the machine learning transform.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "TaskRunId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

TaskRunId

The unique identifier for the task run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartJobRun

Starts a job run using a job definition.

Request Syntax

```
{
   "AllocatedCapacity": number,
   "Arguments": {
      "string" : "string"
   },
   "ExecutionClass": "string",
   "ExecutionRoleSessionPolicy": "string",
   "JobName": "string",
   "JobRunId": "string",
   "JobRunQueuingEnabled": boolean,
   "MaxCapacity": number,
   "NotificationProperty": {
      "NotifyDelayAfter": number
   },
   "NumberOfWorkers": number,
   "SecurityConfiguration": "string",
   "Timeout": number,
   "WorkerType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

AllocatedCapacity

This field is deprecated. Use `MaxCapacity` instead.

The number of AWS Glue data processing units (DPUs) to allocate to this JobRun. You can allocate a minimum of 2 DPUs; the default is 10. A DPU is a relative measure of processing power that consists of 4 vCPUs of compute capacity and 16 GB of memory. For more information, see the AWS Glue pricing page.

Type: Integer

Required: No

Arguments

The job arguments associated with this run. For this job run, they replace the default arguments set in the job definition itself.

You can specify arguments here that your own job-execution script consumes, as well as arguments that AWS Glue itself consumes.

Job arguments may be logged. Do not pass plaintext secrets as arguments. Retrieve secrets from a AWS Glue Connection, AWS Secrets Manager or other secret management mechanism if you intend to keep them within the Job.

For information about how to specify and consume your own Job arguments, see the Calling AWS Glue APIs in Python topic in the developer guide.

For information about the arguments you can provide to this field when configuring Spark jobs, see the Special Parameters Used by AWS Glue topic in the developer guide.

For information about the arguments you can provide to this field when configuring Ray jobs, see Using job parameters in Ray jobs in the developer guide.

Type: String to string map

Required: No

ExecutionClass

Indicates whether the job is run with a standard or flexible execution class. The standard execution-class is ideal for time-sensitive workloads that require fast job startup and dedicated resources.

The flexible execution class is appropriate for time-insensitive jobs whose start and completion times may vary.

Only jobs with AWS Glue version 3.0 and above and command type `glueetl` will be allowed to set `ExecutionClass` to `FLEX`. The flexible execution class is available for Spark jobs.

Type: String

Length Constraints: Maximum length of 16.

Valid Values: FLEX | STANDARD

Required: No

ExecutionRoleSessionPolicy

This inline session policy to the StartJobRun API allows you to dynamically restrict the permissions of the specified execution role for the scope of the job, without requiring the creation of additional IAM roles.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 2048.

Required: No

JobName

The name of the job definition to use.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: Yes

JobRunId

The ID of a previous JobRun to retry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: No

JobRunQueuingEnabled

Specifies whether job run queuing is enabled for the job run.

A value of true means job run queuing is enabled for the job run. If false or not populated, the job run will not be considered for queueing.

Type: Boolean

Required: No

MaxCapacity

For Glue version 1.0 or earlier jobs, using the standard worker type, the number of AWS Glue data processing units (DPUs) that can be allocated when this job runs. A DPU is a relative measure of processing power that consists of 4 vCPUs of compute capacity and 16 GB of memory. For more information, see the AWS Glue pricing page.

For Glue version 2.0+ jobs, you cannot specify a `Maximum capacity`. Instead, you should specify a `Worker type` and the `Number of workers`.

Do not set `MaxCapacity` if using `WorkerType` and `NumberOfWorkers`.

The value that can be allocated for `MaxCapacity` depends on whether you are running a Python shell job, an Apache Spark ETL job, or an Apache Spark streaming ETL job:

- When you specify a Python shell job (`JobCommand.Name`="pythonshell"), you can allocate either 0.0625 or 1 DPU. The default is 0.0625 DPU.
- When you specify an Apache Spark ETL job (`JobCommand.Name`="glueetl") or Apache Spark streaming ETL job (`JobCommand.Name`="gluestreaming"), you can allocate from 2 to 100 DPUs. The default is 10 DPUs. This job type cannot have a fractional DPU allocation.

Type: Double

Required: No

NotificationProperty

Specifies configuration properties of a job run notification.

Type: NotificationProperty object

Required: No

NumberOfWorkers

The number of workers of a defined `workerType` that are allocated when a job runs.

Type: Integer

Required: No

SecurityConfiguration

The name of the `SecurityConfiguration` structure to be used with this job run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Timeout

The `JobRun` timeout in minutes. This is the maximum time that a job run can consume resources before it is terminated and enters `TIMEOUT` status. This value overrides the timeout value set in the parent job.

Jobs must have timeout values less than 7 days or 10080 minutes. Otherwise, the jobs will throw an exception.

When the value is left blank, the timeout is defaulted to 2880 minutes.

Any existing AWS Glue jobs that had a timeout value greater than 7 days will be defaulted to 7 days. For instance if you have specified a timeout of 20 days for a batch job, it will be stopped on the 7th day.

For streaming jobs, if you have set up a maintenance window, it will be restarted during the maintenance window after 7 days.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

WorkerType

The type of predefined worker that is allocated when a job runs. Accepts a value of G.1X, G.2X, G.4X, G.8X or G.025X for Spark jobs. Accepts the value Z.2X for Ray jobs.

- For the `G.1X` worker type, each worker maps to 1 DPU (4 vCPUs, 16 GB of memory) with 94GB disk, and provides 1 executor per worker. We recommend this worker type for

workloads such as data transforms, joins, and queries, to offers a scalable and cost effective way to run most jobs.

- For the `G.2X` worker type, each worker maps to 2 DPU (8 vCPUs, 32 GB of memory) with 138GB disk, and provides 1 executor per worker. We recommend this worker type for workloads such as data transforms, joins, and queries, to offers a scalable and cost effective way to run most jobs.
- For the `G.4X` worker type, each worker maps to 4 DPU (16 vCPUs, 64 GB of memory) with 256GB disk, and provides 1 executor per worker. We recommend this worker type for jobs whose workloads contain your most demanding transforms, aggregations, joins, and queries. This worker type is available only for AWS Glue version 3.0 or later Spark ETL jobs in the following AWS Regions: US East (Ohio), US East (N. Virginia), US West (Oregon), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Europe (Frankfurt), Europe (Ireland), and Europe (Stockholm).
- For the `G.8X` worker type, each worker maps to 8 DPU (32 vCPUs, 128 GB of memory) with 512GB disk, and provides 1 executor per worker. We recommend this worker type for jobs whose workloads contain your most demanding transforms, aggregations, joins, and queries. This worker type is available only for AWS Glue version 3.0 or later Spark ETL jobs, in the same AWS Regions as supported for the `G.4X` worker type.
- For the `G.025X` worker type, each worker maps to 0.25 DPU (2 vCPUs, 4 GB of memory) with 84GB disk, and provides 1 executor per worker. We recommend this worker type for low volume streaming jobs. This worker type is only available for AWS Glue version 3.0 or later streaming jobs.
- For the `Z.2X` worker type, each worker maps to 2 M-DPU (8vCPUs, 64 GB of memory) with 128 GB disk, and provides up to 8 Ray workers based on the autoscaler.

Type: String

Valid Values: `Standard | G.1X | G.2X | G.025X | G.4X | G.8X | Z.2X`

Required: No

Response Syntax

```
{
   "JobRunId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

JobRunId

The ID assigned to this job run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

ConcurrentRunsExceededException

Too many jobs are being run concurrently.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartMaterializedViewRefreshTaskRun

Starts a materialized view refresh task run, for a specified materialized view table.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "FullRefresh": boolean,
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Catalog where the materialized view table resides. If none is supplied, the account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

DatabaseName

The database where the materialized view table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

FullRefresh

Specifies whether this is a full refresh of the task run.

Type: Boolean

Required: No

TableName

The name of the table to generate run the materialized view refresh task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "MaterializedViewRefreshTaskRunId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

MaterializedViewRefreshTaskRunId

The identifier for the materialized view refresh task run.

Type: String

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

MaterializedViewRefreshTaskRunningException

Exception thrown when a task is already in running state.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartMLEvaluationTaskRun

Starts a task to estimate the quality of the transform.

When you provide label sets as examples of truth, AWS Glue machine learning uses some of those examples to learn from them. The rest of the labels are used as a test to estimate quality.

Returns a unique identifier for the run. You can call `GetMLTaskRun` to get more information about the stats of the `EvaluationTaskRun`.

Request Syntax

```
{
   "TransformId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

TransformId

The unique identifier of the machine learning transform.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "TaskRunId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

TaskRunId

The unique identifier associated with this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

ConcurrentRunsExceededException

Too many jobs are being run concurrently.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

MLTransformNotReadyException

The machine learning transform is not ready to run.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartMLLabelingSetGenerationTaskRun

Starts the active learning workflow for your machine learning transform to improve the transform's quality by generating label sets and adding labels.

When the `StartMLLabelingSetGenerationTaskRun` finishes, AWS Glue will have generated a "labeling set" or a set of questions for humans to answer.

In the case of the `FindMatches` transform, these questions are of the form, “What is the correct way to group these rows together into groups composed entirely of matching records?”

After the labeling process is finished, you can upload your labels with a call to `StartImportLabelsTaskRun`. After `StartImportLabelsTaskRun` finishes, all future runs of the machine learning transform will use the new and improved labels and perform a higher-quality transformation.

Note: The role used to write the generated labeling set to the `OutputS3Path` is the role associated with the Machine Learning Transform, specified in the `CreateMLTransform` API.

Request Syntax

```
{
   "OutputS3Path": "string",
   "TransformId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

OutputS3Path

The Amazon Simple Storage Service (Amazon S3) path where you generate the labeling set.

Type: String

Required: Yes

TransformId

The unique identifier of the machine learning transform.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "TaskRunId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

TaskRunId

The unique run identifier that is associated with this task run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

ConcurrentRunsExceededException

Too many jobs are being run concurrently.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartTrigger

Starts an existing trigger. See Triggering Jobs for information about how different types of trigger are started.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the trigger to start.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Name

The name of the trigger that was started.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

ConcurrentRunsExceededException

Too many jobs are being run concurrently.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartWorkflowRun

Starts a new run of the specified workflow.

Request Syntax

```
{
   "Name": "string",
   "RunProperties": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the workflow to start.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

RunProperties

The workflow run properties for the new workflow run.

Run properties may be logged. Do not pass plaintext secrets as properties. Retrieve secrets from a AWS Glue Connection, AWS Secrets Manager or other secret management mechanism if you intend to use them within the workflow run.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: No

Response Syntax

```
{
   "RunId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

RunId

An Id for the new run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Errors

For information about the errors that are common to all actions, see Common Errors.

ConcurrentRunsExceededException

Too many jobs are being run concurrently.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StopColumnStatisticsTaskRun

Stops a task run for the specified table.

Request Syntax

```
{
   "DatabaseName": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

DatabaseName

The name of the database where the table resides.

Type: String

Required: Yes

TableName

The name of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

ColumnStatisticsTaskNotRunningException

An exception thrown when you try to stop a task run when there is no task running.

Message

A message describing the problem.

HTTP Status Code: 400

ColumnStatisticsTaskStoppingException

An exception thrown when you try to stop a task run.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StopColumnStatisticsTaskRunSchedule

Stops a column statistics task run schedule.

Request Syntax

```
{
   "DatabaseName": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

DatabaseName

The name of the database where the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the table for which to stop a column statistic task run schedule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StopCrawler

If the specified crawler is running, stops the crawl.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

Name of the crawler to stop.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

CrawlerNotRunningException

The specified crawler is not running.

Message

A message describing the problem.

HTTP Status Code: 400

CrawlerStoppingException

The specified crawler is stopping.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StopCrawlerSchedule

Sets the schedule state of the specified crawler to NOT_SCHEDULED, but does not stop the crawler if it is already running.

Request Syntax

```
{
   "CrawlerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CrawlerName

Name of the crawler whose schedule state to set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

SchedulerNotRunningException

The specified scheduler is not running.

Message

A message describing the problem.

HTTP Status Code: 400

SchedulerTransitioningException

The specified scheduler is transitioning.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StopMaterializedViewRefreshTaskRun

Stops a materialized view refresh task run for a specified materialized view table.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Catalog where the materialized view table resides. If none is supplied, the account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

DatabaseName

The database where the materialized view table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the table to stop the materialized view refresh task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

MaterializedViewRefreshTaskNotRunningException

Exception thrown when stopping a task that is not in running state.

HTTP Status Code: 400

MaterializedViewRefreshTaskStoppingException

Exception thrown when a task is already in stopping state.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StopSession

Stops the session.

Request Syntax

```
{
   "Id": "string",
   "RequestOrigin": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Id

The ID of the session to be stopped.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

RequestOrigin

The origin of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: No

Response Syntax

```
{
   "Id": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Id

Returns the Id of the stopped session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

IllegalSessionStateException

The session is in an invalid state to perform a requested operation.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StopTrigger

Stops a specified trigger.

Request Syntax

```
{
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the trigger to stop.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Name

The name of the trigger that was stopped.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StopWorkflowRun

Stops the execution of the specified workflow run.

Request Syntax

```
{
   "Name": "string",
   "RunId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the workflow to stop.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

RunId

The ID of the workflow run to stop.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

IllegalWorkflowStateException

The workflow is in an invalid state to perform a requested operation.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

TagResource

Adds tags to a resource. A tag is a label you can assign to an AWS resource. In AWS Glue, you can tag only certain resources. For information about what resources you can tag, see AWS Tags in AWS Glue.

Request Syntax

```
{
   "ResourceArn": "string",
   "TagsToAdd": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ResourceArn

The ARN of the AWS Glue resource to which to add the tags. For more information about AWS Glue resource ARNs, see the AWS Glue ARN string pattern.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

Required: Yes

TagsToAdd

Tags to add to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

TestConnection

Tests a connection to a service to validate the service credentials that you provide.

You can either provide an existing connection name or a `TestConnectionInput` for testing a non-existing connection input. Providing both at the same time will cause an error.

If the action is successful, the service sends back an HTTP 200 response.

Request Syntax

```
{
   "CatalogId": "string",
   "ConnectionName": "string",
   "TestConnectionInput": {
      "AuthenticationConfiguration": {
         "AuthenticationType": "string",
         "BasicAuthenticationCredentials": {
            "Password": "string",
            "Username": "string"
         },
         "CustomAuthenticationCredentials": {
            "string" : "string"
         },
         "KmsKeyArn": "string",
         "OAuth2Properties": {
            "AuthorizationCodeProperties": {
               "AuthorizationCode": "string",
               "RedirectUri": "string"
            },
            "OAuth2ClientApplication": {
               "AWSManagedClientApplicationReference": "string",
               "UserManagedClientApplicationClientId": "string"
            },
            "OAuth2Credentials": {
               "AccessToken": "string",
               "JwtToken": "string",
               "RefreshToken": "string",
               "UserManagedClientApplicationClientSecret": "string"
            },
            "OAuth2GrantType": "string",
            "TokenUrl": "string",
            "TokenUrlParametersMap": {
```

```
                "string" : "string"
            }
         },
         "SecretArn": "string"
      },
      "ConnectionProperties": {
         "string" : "string"
      },
      "ConnectionType": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The catalog ID where the connection resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ConnectionName

Optional. The name of the connection to test. If only name is provided, the operation will get the connection and use that for testing.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

TestConnectionInput

A structure that is used to specify testing a connection to a service.

Type: TestConnectionInput object

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConflictException

The `CreatePartitions` API was called on a table that has indexes enabled.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UntagResource

Removes tags from a resource.

Request Syntax

```
{
   "ResourceArn": "string",
   "TagsToRemove": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ResourceArn

The Amazon Resource Name (ARN) of the resource from which to remove the tags.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

Required: Yes

TagsToRemove

Tags to remove from this resource.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateBlueprint

Updates a registered blueprint.

Request Syntax

```
{
   "BlueprintLocation": "string",
   "Description": "string",
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

BlueprintLocation

Specifies a path in Amazon S3 where the blueprint is published.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8192.

Pattern: `^s3://([^/]+)/([^/]+/)*([^/]+)$`

Required: Yes

Description

A description of the blueprint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

Name

The name of the blueprint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: Yes

Response Syntax

```
{
   "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Name

Returns the name of the blueprint that was updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

IllegalBlueprintStateException

The blueprint is in an invalid state to perform a requested operation.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateCatalog

Updates an existing catalog's properties in the AWS Glue Data Catalog.

Request Syntax

```
{
   "CatalogId": "string",
   "CatalogInput": {
      "AllowFullTableExternalDataAccess": "string",
      "CatalogProperties": {
         "CustomProperties": {
            "string" : "string"
         },
         "DataLakeAccessProperties": {
            "CatalogType": "string",
            "DataLakeAccess": boolean,
            "DataTransferRole": "string",
            "KmsKey": "string"
         },
         "IcebergOptimizationProperties": {
            "Compaction": {
               "string" : "string"
            },
            "OrphanFileDeletion": {
               "string" : "string"
            },
            "Retention": {
               "string" : "string"
            },
            "RoleArn": "string"
         }
      },
      "CreateDatabaseDefaultPermissions": [
         {
            "Permissions": [ "string" ],
            "Principal": {
               "DataLakePrincipalIdentifier": "string"
            }
         }
      ],
      "CreateTableDefaultPermissions": [
         {
```

```
            "Permissions": [ "string" ],
            "Principal": {
               "DataLakePrincipalIdentifier": "string"
            }
         }
      ],
      "Description": "string",
      "FederatedCatalog": {
         "ConnectionName": "string",
         "ConnectionType": "string",
         "Identifier": "string"
      },
      "Parameters": {
         "string" : "string"
      },
      "TargetRedshiftCatalog": {
         "CatalogArn": "string"
      }
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

CatalogInput

A `CatalogInput` object specifying the new properties of an existing catalog.

Type: CatalogInput object

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateClassifier

Modifies an existing classifier (a `GrokClassifier`, an `XMLClassifier`, a `JsonClassifier`, or a `CsvClassifier`, depending on which field is present).

Request Syntax

```
{
   "CsvClassifier": {
      "AllowSingleColumn": boolean,
      "ContainsHeader": "string",
      "CustomDatatypeConfigured": boolean,
      "CustomDatatypes": [ "string" ],
      "Delimiter": "string",
      "DisableValueTrimming": boolean,
      "Header": [ "string" ],
      "Name": "string",
      "QuoteSymbol": "string",
      "Serde": "string"
   },
   "GrokClassifier": {
      "Classification": "string",
      "CustomPatterns": "string",
      "GrokPattern": "string",
      "Name": "string"
   },
   "JsonClassifier": {
      "JsonPath": "string",
      "Name": "string"
   },
   "XMLClassifier": {
      "Classification": "string",
      "Name": "string",
      "RowTag": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CsvClassifier

A `CsvClassifier` object with updated fields.

Type: UpdateCsvClassifierRequest object

Required: No

GrokClassifier

A `GrokClassifier` object with updated fields.

Type: UpdateGrokClassifierRequest object

Required: No

JsonClassifier

A `JsonClassifier` object with updated fields.

Type: UpdateJsonClassifierRequest object

Required: No

XMLClassifier

An `XMLClassifier` object with updated fields.

Type: UpdateXMLClassifierRequest object

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

VersionMismatchException

There was a version conflict.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateColumnStatisticsForPartition

Creates or updates partition statistics of columns.

The Identity and Access Management (IAM) permission required for this operation is `UpdatePartition`.

Request Syntax

```
{
   "CatalogId": "string",
   "ColumnStatisticsList": [
      {
         "AnalyzedTime": number,
         "ColumnName": "string",
         "ColumnType": "string",
         "StatisticsData": {
            "BinaryColumnStatisticsData": {
               "AverageLength": number,
               "MaximumLength": number,
               "NumberOfNulls": number
            },
            "BooleanColumnStatisticsData": {
               "NumberOfFalses": number,
               "NumberOfNulls": number,
               "NumberOfTrues": number
            },
            "DateColumnStatisticsData": {
               "MaximumValue": number,
               "MinimumValue": number,
               "NumberOfDistinctValues": number,
               "NumberOfNulls": number
            },
            "DecimalColumnStatisticsData": {
               "MaximumValue": {
                  "Scale": number,
                  "UnscaledValue": blob
               },
               "MinimumValue": {
                  "Scale": number,
                  "UnscaledValue": blob
               },
               "NumberOfDistinctValues": number,
```

```
                "NumberOfNulls": number
            },
            "DoubleColumnStatisticsData": {
                "MaximumValue": number,
                "MinimumValue": number,
                "NumberOfDistinctValues": number,
                "NumberOfNulls": number
            },
            "LongColumnStatisticsData": {
                "MaximumValue": number,
                "MinimumValue": number,
                "NumberOfDistinctValues": number,
                "NumberOfNulls": number
            },
            "StringColumnStatisticsData": {
                "AverageLength": number,
                "MaximumLength": number,
                "NumberOfDistinctValues": number,
                "NumberOfNulls": number
            },
            "Type": "string"
        }
      }
   ],
   "DatabaseName": "string",
   "PartitionValues": [ "string" ],
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the partitions in question reside. If none is supplied, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ColumnStatisticsList

A list of the column statistics.

Type: Array of ColumnStatistics objects

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Required: Yes

DatabaseName

The name of the catalog database where the partitions reside.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

PartitionValues

A list of partition values identifying the partition.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

TableName

The name of the partitions' table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Errors": [
      {
         "ColumnStatistics": {
            "AnalyzedTime": number,
            "ColumnName": "string",
            "ColumnType": "string",
            "StatisticsData": {
               "BinaryColumnStatisticsData": {
                  "AverageLength": number,
                  "MaximumLength": number,
                  "NumberOfNulls": number
               },
               "BooleanColumnStatisticsData": {
                  "NumberOfFalses": number,
                  "NumberOfNulls": number,
                  "NumberOfTrues": number
               },
               "DateColumnStatisticsData": {
                  "MaximumValue": number,
                  "MinimumValue": number,
                  "NumberOfDistinctValues": number,
                  "NumberOfNulls": number
               },
               "DecimalColumnStatisticsData": {
                  "MaximumValue": {
                     "Scale": number,
                     "UnscaledValue": blob
                  },
                  "MinimumValue": {
                     "Scale": number,
                     "UnscaledValue": blob
                  },
                  "NumberOfDistinctValues": number,
                  "NumberOfNulls": number
               },
               "DoubleColumnStatisticsData": {
                  "MaximumValue": number,
                  "MinimumValue": number,
                  "NumberOfDistinctValues": number,
                  "NumberOfNulls": number
```

```
                },
                "LongColumnStatisticsData": {
                   "MaximumValue": number,
                   "MinimumValue": number,
                   "NumberOfDistinctValues": number,
                   "NumberOfNulls": number
                },
                "StringColumnStatisticsData": {
                   "AverageLength": number,
                   "MaximumLength": number,
                   "NumberOfDistinctValues": number,
                   "NumberOfNulls": number
                },
                "Type": "string"
             }
          },
          "Error": {
             "ErrorCode": "string",
             "ErrorMessage": "string"
          }
       }
    ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Errors

Error occurred during updating column statistics data.

Type: Array of ColumnStatisticsError objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateColumnStatisticsForTable

Creates or updates table statistics of columns.

The Identity and Access Management (IAM) permission required for this operation is `UpdateTable`.

Request Syntax

```
{
   "CatalogId": "string",
   "ColumnStatisticsList": [
      {
         "AnalyzedTime": number,
         "ColumnName": "string",
         "ColumnType": "string",
         "StatisticsData": {
            "BinaryColumnStatisticsData": {
               "AverageLength": number,
               "MaximumLength": number,
               "NumberOfNulls": number
            },
            "BooleanColumnStatisticsData": {
               "NumberOfFalses": number,
               "NumberOfNulls": number,
               "NumberOfTrues": number
            },
            "DateColumnStatisticsData": {
               "MaximumValue": number,
               "MinimumValue": number,
               "NumberOfDistinctValues": number,
               "NumberOfNulls": number
            },
            "DecimalColumnStatisticsData": {
               "MaximumValue": {
                  "Scale": number,
                  "UnscaledValue": blob
               },
               "MinimumValue": {
                  "Scale": number,
                  "UnscaledValue": blob
               },
               "NumberOfDistinctValues": number,
```

```
            "NumberOfNulls": number
         },
         "DoubleColumnStatisticsData": {
            "MaximumValue": number,
            "MinimumValue": number,
            "NumberOfDistinctValues": number,
            "NumberOfNulls": number
         },
         "LongColumnStatisticsData": {
            "MaximumValue": number,
            "MinimumValue": number,
            "NumberOfDistinctValues": number,
            "NumberOfNulls": number
         },
         "StringColumnStatisticsData": {
            "AverageLength": number,
            "MaximumLength": number,
            "NumberOfDistinctValues": number,
            "NumberOfNulls": number
         },
         "Type": "string"
      }
   }
],
"DatabaseName": "string",
"TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the partitions in question reside. If none is supplied, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ColumnStatisticsList

A list of the column statistics.

Type: Array of ColumnStatistics objects

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Required: Yes

DatabaseName

The name of the catalog database where the partitions reside.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the partitions' table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Errors": [
      {
         "ColumnStatistics": {
            "AnalyzedTime": number,
            "ColumnName": "string",
            "ColumnType": "string",
            "StatisticsData": {
```

```
      "BinaryColumnStatisticsData": {
         "AverageLength": number,
         "MaximumLength": number,
         "NumberOfNulls": number
      },
      "BooleanColumnStatisticsData": {
         "NumberOfFalses": number,
         "NumberOfNulls": number,
         "NumberOfTrues": number
      },
      "DateColumnStatisticsData": {
         "MaximumValue": number,
         "MinimumValue": number,
         "NumberOfDistinctValues": number,
         "NumberOfNulls": number
      },
      "DecimalColumnStatisticsData": {
         "MaximumValue": {
            "Scale": number,
            "UnscaledValue": blob
         },
         "MinimumValue": {
            "Scale": number,
            "UnscaledValue": blob
         },
         "NumberOfDistinctValues": number,
         "NumberOfNulls": number
      },
      "DoubleColumnStatisticsData": {
         "MaximumValue": number,
         "MinimumValue": number,
         "NumberOfDistinctValues": number,
         "NumberOfNulls": number
      },
      "LongColumnStatisticsData": {
         "MaximumValue": number,
         "MinimumValue": number,
         "NumberOfDistinctValues": number,
         "NumberOfNulls": number
      },
      "StringColumnStatisticsData": {
         "AverageLength": number,
         "MaximumLength": number,
         "NumberOfDistinctValues": number,
```

```
                "NumberOfNulls": number
             },
             "Type": "string"
          }
       },
       "Error": {
          "ErrorCode": "string",
          "ErrorMessage": "string"
       }
    }
 ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Errors

List of ColumnStatisticsErrors.

Type: Array of ColumnStatisticsError objects

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateColumnStatisticsTaskSettings

Updates settings for a column statistics task.

Request Syntax

```
{
   "CatalogID": "string",
   "ColumnNameList": [ "string" ],
   "DatabaseName": "string",
   "Role": "string",
   "SampleSize": number,
   "Schedule": "string",
   "SecurityConfiguration": "string",
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogID

The ID of the Data Catalog in which the database resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ColumnNameList

A list of column names for which to run statistics.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the database where the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Role

The role used for running the column statistics.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

SampleSize

The percentage of data to sample.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

Schedule

A schedule for running the column statistics, specified in CRON syntax.

Type: String

Required: No

SecurityConfiguration

Name of the security configuration that is used to encrypt CloudWatch logs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

TableName

The name of the table for which to generate column statistics.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

VersionMismatchException

There was a version conflict.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateConnection

Updates a connection definition in the Data Catalog.

Request Syntax

```
{
   "CatalogId": "string",
   "ConnectionInput": {
      "AthenaProperties": {
         "string" : "string"
      },
      "AuthenticationConfiguration": {
         "AuthenticationType": "string",
         "BasicAuthenticationCredentials": {
            "Password": "string",
            "Username": "string"
         },
         "CustomAuthenticationCredentials": {
            "string" : "string"
         },
         "KmsKeyArn": "string",
         "OAuth2Properties": {
            "AuthorizationCodeProperties": {
               "AuthorizationCode": "string",
               "RedirectUri": "string"
            },
            "OAuth2ClientApplication": {
               "AWSManagedClientApplicationReference": "string",
               "UserManagedClientApplicationClientId": "string"
            },
            "OAuth2Credentials": {
               "AccessToken": "string",
               "JwtToken": "string",
               "RefreshToken": "string",
               "UserManagedClientApplicationClientSecret": "string"
            },
            "OAuth2GrantType": "string",
            "TokenUrl": "string",
            "TokenUrlParametersMap": {
               "string" : "string"
            }
         },
```

```
            "SecretArn": "string"
        },
        "ConnectionProperties": {
            "string" : "string"
        },
        "ConnectionType": "string",
        "Description": "string",
        "MatchCriteria": [ "string" ],
        "Name": "string",
        "PhysicalConnectionRequirements": {
            "AvailabilityZone": "string",
            "SecurityGroupIdList": [ "string" ],
            "SubnetId": "string"
        },
        "PythonProperties": {
            "string" : "string"
        },
        "SparkProperties": {
            "string" : "string"
        },
        "ValidateCredentials": boolean,
        "ValidateForComputeEnvironments": [ "string" ]
    },
    "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog in which the connection resides. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ConnectionInput

A `ConnectionInput` object that redefines the connection in question.

Type: ConnectionInput object

Required: Yes

Name

The name of the connection definition to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateCrawler

Updates a crawler. If a crawler is running, you must stop it using `StopCrawler` before updating it.

Request Syntax

```
{
   "Classifiers": [ "string" ],
   "Configuration": "string",
   "CrawlerSecurityConfiguration": "string",
   "DatabaseName": "string",
   "Description": "string",
   "LakeFormationConfiguration": {
      "AccountId": "string",
      "UseLakeFormationCredentials": boolean
   },
   "LineageConfiguration": {
      "CrawlerLineageSettings": "string"
   },
   "Name": "string",
   "RecrawlPolicy": {
      "RecrawlBehavior": "string"
   },
   "Role": "string",
   "Schedule": "string",
   "SchemaChangePolicy": {
      "DeleteBehavior": "string",
      "UpdateBehavior": "string"
   },
   "TablePrefix": "string",
   "Targets": {
      "CatalogTargets": [
         {
            "ConnectionName": "string",
            "DatabaseName": "string",
            "DlqEventQueueArn": "string",
            "EventQueueArn": "string",
            "Tables": [ "string" ]
         }
      ],
      "DeltaTargets": [
         {
            "ConnectionName": "string",
```

```
            "CreateNativeDeltaTable": boolean,
            "DeltaTables": [ "string" ],
            "WriteManifest": boolean
         }
      ],
      "DynamoDBTargets": [
         {
            "Path": "string",
            "scanAll": boolean,
            "scanRate": number
         }
      ],
      "HudiTargets": [
         {
            "ConnectionName": "string",
            "Exclusions": [ "string" ],
            "MaximumTraversalDepth": number,
            "Paths": [ "string" ]
         }
      ],
      "IcebergTargets": [
         {
            "ConnectionName": "string",
            "Exclusions": [ "string" ],
            "MaximumTraversalDepth": number,
            "Paths": [ "string" ]
         }
      ],
      "JdbcTargets": [
         {
            "ConnectionName": "string",
            "EnableAdditionalMetadata": [ "string" ],
            "Exclusions": [ "string" ],
            "Path": "string"
         }
      ],
      "MongoDBTargets": [
         {
            "ConnectionName": "string",
            "Path": "string",
            "ScanAll": boolean
         }
      ],
      "S3Targets": [
```

```
            {
               "ConnectionName": "string",
               "DlqEventQueueArn": "string",
               "EventQueueArn": "string",
               "Exclusions": [ "string" ],
               "Path": "string",
               "SampleSize": number
            }
         ]
      }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Classifiers

A list of custom classifiers that the user has registered. By default, all built-in classifiers are included in a crawl, but these custom classifiers always override the default classifiers for a given classification.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Configuration

Crawler configuration information. This versioned JSON string allows users to specify aspects of a crawler's behavior. For more information, see Setting crawler configuration options.

Type: String

Required: No

CrawlerSecurityConfiguration

The name of the `SecurityConfiguration` structure to be used by this crawler.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: No

DatabaseName

The AWS Glue database where results are stored, such as: `arn:aws:daylight:us-east-1::database/sometable/*`.

Type: String

Required: No

Description

A description of the new crawler.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

LakeFormationConfiguration

Specifies AWS Lake Formation configuration settings for the crawler.

Type: LakeFormationConfiguration object

Required: No

LineageConfiguration

Specifies data lineage configuration settings for the crawler.

Type: LineageConfiguration object

Required: No

Name

Name of the new crawler.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

RecrawlPolicy

A policy that specifies whether to crawl the entire dataset again, or to crawl only folders that were added since the last crawler run.

Type: RecrawlPolicy object

Required: No

Role

The IAM role or Amazon Resource Name (ARN) of an IAM role that is used by the new crawler to access customer resources.

Type: String

Required: No

Schedule

A `cron` expression used to specify the schedule (see Time-Based Schedules for Jobs and Crawlers. For example, to run something every day at 12:15 UTC, you would specify: `cron(15 12 * * ? *)`.

Type: String

Required: No

SchemaChangePolicy

The policy for the crawler's update and deletion behavior.

Type: SchemaChangePolicy object

Required: No

TablePrefix

The table prefix used for catalog tables that are created.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: No

Targets

A list of targets to crawl.

Type: CrawlerTargets object

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

CrawlerRunningException

The operation cannot be performed because the crawler is already running.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

VersionMismatchException

There was a version conflict.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateCrawlerSchedule

Updates the schedule of a crawler using a `cron` expression.

Request Syntax

```
{
   "CrawlerName": "string",
   "Schedule": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CrawlerName

The name of the crawler whose schedule to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Schedule

The updated `cron` expression used to specify the schedule (see Time-Based Schedules for Jobs and Crawlers. For example, to run something every day at 12:15 UTC, you would specify: `cron(15 12 * * ? *)`.

Type: String

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

SchedulerTransitioningException

The specified scheduler is transitioning.

Message

A message describing the problem.

HTTP Status Code: 400

VersionMismatchException

There was a version conflict.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateDatabase

Updates an existing database definition in a Data Catalog.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseInput": {
      "CreateTableDefaultPermissions": [
         {
            "Permissions": [ "string" ],
            "Principal": {
               "DataLakePrincipalIdentifier": "string"
            }
         }
      ],
      "Description": "string",
      "FederatedDatabase": {
         "ConnectionName": "string",
         "ConnectionType": "string",
         "Identifier": "string"
      },
      "LocationUri": "string",
      "Name": "string",
      "Parameters": {
         "string" : "string"
      },
      "TargetDatabase": {
         "CatalogId": "string",
         "DatabaseName": "string",
         "Region": "string"
      }
   },
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog in which the metadata database resides. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseInput

A `DatabaseInput` object specifying the new definition of the metadata database in the catalog.

Type: DatabaseInput object

Required: Yes

Name

The name of the database to update in the catalog. For Hive compatibility, this is folded to lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateDataQualityRuleset

Updates the specified data quality ruleset.

Request Syntax

```
{
   "Description": "string",
   "Name": "string",
   "Ruleset": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Description

A description of the ruleset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

Name

The name of the data quality ruleset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Ruleset

A Data Quality Definition Language (DQDL) ruleset. For more information, see the AWS Glue developer guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Required: No

Response Syntax

```
{
   "Description": "string",
   "Name": "string",
   "Ruleset": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Description

A description of the ruleset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Name

The name of the data quality ruleset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Ruleset

A Data Quality Definition Language (DQDL) ruleset. For more information, see the AWS Glue developer guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

IdempotentParameterMismatchException

The same unique identifier was associated with two different records.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateDevEndpoint

Updates a specified development endpoint.

Request Syntax

```
{
   "AddArguments": {
      "string" : "string"
   },
   "AddPublicKeys": [ "string" ],
   "CustomLibraries": {
      "ExtraJarsS3Path": "string",
      "ExtraPythonLibsS3Path": "string"
   },
   "DeleteArguments": [ "string" ],
   "DeletePublicKeys": [ "string" ],
   "EndpointName": "string",
   "PublicKey": "string",
   "UpdateEtlLibraries": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

AddArguments

The map of arguments to add the map of arguments used to configure the `DevEndpoint`.

Valid arguments are:

- `"--enable-glue-datacatalog": ""`

You can specify a version of Python support for development endpoints by using the `Arguments` parameter in the `CreateDevEndpoint` or `UpdateDevEndpoint` APIs. If no arguments are provided, the version defaults to Python 2.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 100 items.

Required: No

AddPublicKeys

The list of public keys for the `DevEndpoint` to use.

Type: Array of strings

Array Members: Maximum number of 5 items.

Required: No

CustomLibraries

Custom Python or Java libraries to be loaded in the `DevEndpoint`.

Type: DevEndpointCustomLibraries object

Required: No

DeleteArguments

The list of argument keys to be deleted from the map of arguments used to configure the `DevEndpoint`.

Type: Array of strings

Required: No

DeletePublicKeys

The list of public keys to be deleted from the `DevEndpoint`.

Type: Array of strings

Array Members: Maximum number of 5 items.

Required: No

EndpointName

The name of the `DevEndpoint` to be updated.

Type: String

Required: Yes

PublicKey

The public key for the `DevEndpoint` to use.

Type: String

Required: No

UpdateEtlLibraries

`True` if the list of custom libraries to be loaded in the development endpoint needs to be updated, or `False` if otherwise.

Type: Boolean

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateGlueIdentityCenterConfiguration

Updates the existing AWS Glue Identity Center configuration, allowing modification of scopes and permissions for the integration.

Request Syntax

```
{
   "Scopes": [ "string" ],
   "UserBackgroundSessionsEnabled": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Scopes

A list of Identity Center scopes that define the updated permissions and access levels for the AWS Glue configuration.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Length Constraints: Maximum length of 50.

Required: No

UserBackgroundSessionsEnabled

Specifies whether users can run background sessions when using Identity Center authentication with AWS Glue services.

Type: Boolean

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateIntegrationResourceProperty

This API can be used for updating the `ResourceProperty` of the AWS Glue connection (for the source) or AWS Glue database ARN (for the target). These properties can include the role to access the connection or database. Since the same resource can be used across multiple integrations, updating resource properties will impact all the integrations using it.

Request Syntax

```
{
   "ResourceArn": "string",
   "SourceProcessingProperties": {
      "RoleArn": "string"
   },
   "TargetProcessingProperties": {
      "ConnectionName": "string",
      "EventBusArn": "string",
      "KmsArn": "string",
      "RoleArn": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ResourceArn

The connection ARN of the source, or the database ARN of the target.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

SourceProcessingProperties

The resource properties associated with the integration source.

Type: SourceProcessingProperties object

Required: No

TargetProcessingProperties

The resource properties associated with the integration target.

Type: TargetProcessingProperties object

Required: No

Response Syntax

```
{
   "ResourceArn": "string",
   "ResourcePropertyArn": "string",
   "SourceProcessingProperties": {
      "RoleArn": "string"
   },
   "TargetProcessingProperties": {
      "ConnectionName": "string",
      "EventBusArn": "string",
      "KmsArn": "string",
      "RoleArn": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResourceArn

The connection ARN of the source, or the database ARN of the target.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

ResourcePropertyArn

The resource ARN created through this create API. The format is something like arn:aws:glue:<region>:<account_id>:integrationresourceproperty/*

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

SourceProcessingProperties

The resource properties associated with the integration source.

Type: SourceProcessingProperties object

TargetProcessingProperties

The resource properties associated with the integration target.

Type: TargetProcessingProperties object

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServerException

An internal server error occurred.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateIntegrationTableProperties

This API is used to provide optional override properties for the tables that need to be replicated. These properties can include properties for filtering and partitioning for the source and target tables. To set both source and target properties the same API need to be invoked with the AWS Glue connection ARN as `ResourceArn` with `SourceTableConfig`, and the AWS Glue database ARN as `ResourceArn` with `TargetTableConfig` respectively.

The override will be reflected across all the integrations using same `ResourceArn` and source table.

Request Syntax

```
{
   "ResourceArn": "string",
   "SourceTableConfig": {
      "Fields": [ "string" ],
      "FilterPredicate": "string",
      "PrimaryKey": [ "string" ],
      "RecordUpdateField": "string"
   },
   "TableName": "string",
   "TargetTableConfig": {
      "PartitionSpec": [
         {
            "ConversionSpec": "string",
            "FieldName": "string",
            "FunctionSpec": "string"
         }
      ],
      "TargetTableName": "string",
      "UnnestSpec": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ResourceArn

The connection ARN of the source, or the database ARN of the target.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

SourceTableConfig

A structure for the source table configuration.

Type: SourceTableConfig object

Required: No

TableName

The name of the table to be replicated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

TargetTableConfig

A structure for the target table configuration.

Type: TargetTableConfig object

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServerException

An internal server error occurred.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateJob

Updates an existing job definition. The previous job definition is completely overwritten by this information.

Request Syntax

```
{
   "JobName": "string",
   "JobUpdate": {
      "AllocatedCapacity": number,
      "CodeGenConfigurationNodes": {
         "string" : {
            "Aggregate": {
               "Aggs": [
                  {
                     "AggFunc": "string",
                     "Column": [ "string" ]
                  }
               ],
               "Groups": [
                  [ "string" ]
               ],
               "Inputs": [ "string" ],
               "Name": "string"
            },
            "AmazonRedshiftSource": {
               "Data": {
                  "AccessType": "string",
                  "Action": "string",
                  "AdvancedOptions": [
                     {
                        "Key": "string",
                        "Value": "string"
                     }
                  ],
                  "CatalogDatabase": {
                     "Description": "string",
                     "Label": "string",
                     "Value": "string"
                  },
                  "CatalogRedshiftSchema": "string",
                  "CatalogRedshiftTable": "string",
```

```
            "CatalogTable": {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            },
            "Connection": {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            },
            "CrawlerConnection": "string",
            "IamRole": {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            },
            "MergeAction": "string",
            "MergeClause": "string",
            "MergeWhenMatched": "string",
            "MergeWhenNotMatched": "string",
            "PostAction": "string",
            "PreAction": "string",
            "SampleQuery": "string",
            "Schema": {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            },
            "SelectedColumns": [
               {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               }
            ],
            "SourceType": "string",
            "StagingTable": "string",
            "Table": {
               "Description": "string",
               "Label": "string",
               "Value": "string"
            },
            "TablePrefix": "string",
            "TableSchema": [
```

```
                    {
                        "Description": "string",
                        "Label": "string",
                        "Value": "string"
                    }
                ],
                "TempDir": "string",
                "Upsert": boolean
            },
            "Name": "string"
        },
        "AmazonRedshiftTarget": {
            "Data": {
                "AccessType": "string",
                "Action": "string",
                "AdvancedOptions": [
                    {
                        "Key": "string",
                        "Value": "string"
                    }
                ],
                "CatalogDatabase": {
                    "Description": "string",
                    "Label": "string",
                    "Value": "string"
                },
                "CatalogRedshiftSchema": "string",
                "CatalogRedshiftTable": "string",
                "CatalogTable": {
                    "Description": "string",
                    "Label": "string",
                    "Value": "string"
                },
                "Connection": {
                    "Description": "string",
                    "Label": "string",
                    "Value": "string"
                },
                "CrawlerConnection": "string",
                "IamRole": {
                    "Description": "string",
                    "Label": "string",
                    "Value": "string"
                },
```

```
                "MergeAction": "string",
                "MergeClause": "string",
                "MergeWhenMatched": "string",
                "MergeWhenNotMatched": "string",
                "PostAction": "string",
                "PreAction": "string",
                "SampleQuery": "string",
                "Schema": {
                   "Description": "string",
                   "Label": "string",
                   "Value": "string"
                },
                "SelectedColumns": [
                   {
                      "Description": "string",
                      "Label": "string",
                      "Value": "string"
                   }
                ],
                "SourceType": "string",
                "StagingTable": "string",
                "Table": {
                   "Description": "string",
                   "Label": "string",
                   "Value": "string"
                },
                "TablePrefix": "string",
                "TableSchema": [
                   {
                      "Description": "string",
                      "Label": "string",
                      "Value": "string"
                   }
                ],
                "TempDir": "string",
                "Upsert": boolean
             },
             "Inputs": [ "string" ],
             "Name": "string"
          },
          "ApplyMapping": {
             "Inputs": [ "string" ],
             "Mapping": [
                {
```

```
                    "Children": [
                       "Mapping"
                    ],
                    "Dropped": boolean,
                    "FromPath": [ "string" ],
                    "FromType": "string",
                    "ToKey": "string",
                    "ToType": "string"
                 }
              ],
              "Name": "string"
           },
           "AthenaConnectorSource": {
              "ConnectionName": "string",
              "ConnectionTable": "string",
              "ConnectionType": "string",
              "ConnectorName": "string",
              "Name": "string",
              "OutputSchemas": [
                 {
                    "Columns": [
                       {
                          "GlueStudioType": "string",
                          "Name": "string",
                          "Type": "string"
                       }
                    ]
                 }
              ],
              "SchemaName": "string"
           },
           "CatalogDeltaSource": {
              "AdditionalDeltaOptions": {
                 "string" : "string"
              },
              "Database": "string",
              "Name": "string",
              "OutputSchemas": [
                 {
                    "Columns": [
                       {
                          "GlueStudioType": "string",
                          "Name": "string",
                          "Type": "string"
```

```
                        }
                    ]
                }
            ],
            "Table": "string"
        },
        "CatalogHudiSource": {
            "AdditionalHudiOptions": {
                "string" : "string"
            },
            "Database": "string",
            "Name": "string",
            "OutputSchemas": [
                {
                    "Columns": [
                        {
                            "GlueStudioType": "string",
                            "Name": "string",
                            "Type": "string"
                        }
                    ]
                }
            ],
            "Table": "string"
        },
        "CatalogIcebergSource": {
            "AdditionalIcebergOptions": {
                "string" : "string"
            },
            "Database": "string",
            "Name": "string",
            "OutputSchemas": [
                {
                    "Columns": [
                        {
                            "GlueStudioType": "string",
                            "Name": "string",
                            "Type": "string"
                        }
                    ]
                }
            ],
            "Table": "string"
        },
```

```
            "CatalogKafkaSource": {
               "Database": "string",
               "DataPreviewOptions": {
                  "PollingTime": number,
                  "RecordPollingLimit": number
               },
               "DetectSchema": boolean,
               "Name": "string",
               "StreamingOptions": {
                  "AddRecordTimestamp": "string",
                  "Assign": "string",
                  "BootstrapServers": "string",
                  "Classification": "string",
                  "ConnectionName": "string",
                  "Delimiter": "string",
                  "EmitConsumerLagMetrics": "string",
                  "EndingOffsets": "string",
                  "IncludeHeaders": boolean,
                  "MaxOffsetsPerTrigger": number,
                  "MinPartitions": number,
                  "NumRetries": number,
                  "PollTimeoutMs": number,
                  "RetryIntervalMs": number,
                  "SecurityProtocol": "string",
                  "StartingOffsets": "string",
                  "StartingTimestamp": "string",
                  "SubscribePattern": "string",
                  "TopicName": "string"
               },
               "Table": "string",
               "WindowSize": number
            },
            "CatalogKinesisSource": {
               "Database": "string",
               "DataPreviewOptions": {
                  "PollingTime": number,
                  "RecordPollingLimit": number
               },
               "DetectSchema": boolean,
               "Name": "string",
               "StreamingOptions": {
                  "AddIdleTimeBetweenReads": boolean,
                  "AddRecordTimestamp": "string",
                  "AvoidEmptyBatches": boolean,
```

```
                "Classification": "string",
                "Delimiter": "string",
                "DescribeShardInterval": number,
                "EmitConsumerLagMetrics": "string",
                "EndpointUrl": "string",
                "FanoutConsumerARN": "string",
                "IdleTimeBetweenReadsInMs": number,
                "MaxFetchRecordsPerShard": number,
                "MaxFetchTimeInMs": number,
                "MaxRecordPerRead": number,
                "MaxRetryIntervalMs": number,
                "NumRetries": number,
                "RetryIntervalMs": number,
                "RoleArn": "string",
                "RoleSessionName": "string",
                "StartingPosition": "string",
                "StartingTimestamp": "string",
                "StreamArn": "string",
                "StreamName": "string"
            },
            "Table": "string",
            "WindowSize": number
        },
        "CatalogSource": {
            "Database": "string",
            "Name": "string",
            "OutputSchemas": [
                {
                    "Columns": [
                        {
                            "GlueStudioType": "string",
                            "Name": "string",
                            "Type": "string"
                        }
                    ]
                }
            ],
            "PartitionPredicate": "string",
            "Table": "string"
        },
        "CatalogTarget": {
            "Database": "string",
            "Inputs": [ "string" ],
            "Name": "string",
```

```
            "PartitionKeys": [
               [ "string" ]
            ],
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                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ],
         "Paths": [ "string" ],
         "Recurse": boolean
      },
      "S3ParquetSource": {
         "AdditionalOptions": {
            "BoundedFiles": number,
            "BoundedSize": number,
            "EnableSamplePath": boolean,
            "SamplePath": "string"
         },
         "CompressionType": "string",
         "Exclusions": [ "string" ],
         "GroupFiles": "string",
         "GroupSize": "string",
         "MaxBand": number,
         "MaxFilesInBand": number,
         "Name": "string",
         "OutputSchemas": [
            {
               "Columns": [
```

```
                        {
                           "GlueStudioType": "string",
                           "Name": "string",
                           "Type": "string"
                        }
                     ]
                  }
               ],
               "Paths": [ "string" ],
               "Recurse": boolean
            },
            "SelectFields": {
               "Inputs": [ "string" ],
               "Name": "string",
               "Paths": [
                  [ "string" ]
               ]
            },
            "SelectFromCollection": {
               "Index": number,
               "Inputs": [ "string" ],
               "Name": "string"
            },
            "SnowflakeSource": {
               "Data": {
                  "Action": "string",
                  "AdditionalOptions": {
                     "string" : "string"
                  },
                  "AutoPushdown": boolean,
                  "Connection": {
                     "Description": "string",
                     "Label": "string",
                     "Value": "string"
                  },
                  "Database": "string",
                  "IamRole": {
                     "Description": "string",
                     "Label": "string",
                     "Value": "string"
                  },
                  "MergeAction": "string",
                  "MergeClause": "string",
                  "MergeWhenMatched": "string",
```

```
            "MergeWhenNotMatched": "string",
            "PostAction": "string",
            "PreAction": "string",
            "SampleQuery": "string",
            "Schema": "string",
            "SelectedColumns": [
               {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               }
            ],
            "SourceType": "string",
            "StagingTable": "string",
            "Table": "string",
            "TableSchema": [
               {
                  "Description": "string",
                  "Label": "string",
                  "Value": "string"
               }
            ],
            "TempDir": "string",
            "Upsert": boolean
         },
         "Name": "string",
         "OutputSchemas": [
            {
               "Columns": [
                  {
                     "GlueStudioType": "string",
                     "Name": "string",
                     "Type": "string"
                  }
               ]
            }
         ]
      },
      "SnowflakeTarget": {
         "Data": {
            "Action": "string",
            "AdditionalOptions": {
               "string" : "string"
            },
```

```
                "AutoPushdown": boolean,
                "Connection": {
                   "Description": "string",
                   "Label": "string",
                   "Value": "string"
                },
                "Database": "string",
                "IamRole": {
                   "Description": "string",
                   "Label": "string",
                   "Value": "string"
                },
                "MergeAction": "string",
                "MergeClause": "string",
                "MergeWhenMatched": "string",
                "MergeWhenNotMatched": "string",
                "PostAction": "string",
                "PreAction": "string",
                "SampleQuery": "string",
                "Schema": "string",
                "SelectedColumns": [
                   {
                      "Description": "string",
                      "Label": "string",
                      "Value": "string"
                   }
                ],
                "SourceType": "string",
                "StagingTable": "string",
                "Table": "string",
                "TableSchema": [
                   {
                      "Description": "string",
                      "Label": "string",
                      "Value": "string"
                   }
                ],
                "TempDir": "string",
                "Upsert": boolean
             },
             "Inputs": [ "string" ],
             "Name": "string"
          },
          "SparkConnectorSource": {
```

```
            "AdditionalOptions": {
               "string" : "string"
            },
            "ConnectionName": "string",
            "ConnectionType": "string",
            "ConnectorName": "string",
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ]
         },
         "SparkConnectorTarget": {
            "AdditionalOptions": {
               "string" : "string"
            },
            "ConnectionName": "string",
            "ConnectionType": "string",
            "ConnectorName": "string",
            "Inputs": [ "string" ],
            "Name": "string",
            "OutputSchemas": [
               {
                  "Columns": [
                     {
                        "GlueStudioType": "string",
                        "Name": "string",
                        "Type": "string"
                     }
                  ]
               }
            ]
         },
         "SparkSQL": {
            "Inputs": [ "string" ],
            "Name": "string",
            "OutputSchemas": [
```

```
                {
                   "Columns": [
                      {
                         "GlueStudioType": "string",
                         "Name": "string",
                         "Type": "string"
                      }
                   ]
                }
             ],
             "SqlAliases": [
                {
                   "Alias": "string",
                   "From": "string"
                }
             ],
             "SqlQuery": "string"
          },
          "Spigot": {
             "Inputs": [ "string" ],
             "Name": "string",
             "Path": "string",
             "Prob": number,
             "Topk": number
          },
          "SplitFields": {
             "Inputs": [ "string" ],
             "Name": "string",
             "Paths": [
                [ "string" ]
             ]
          },
          "Union": {
             "Inputs": [ "string" ],
             "Name": "string",
             "UnionType": "string"
          }
       }
    },
    "Command": {
       "Name": "string",
       "PythonVersion": "string",
       "Runtime": "string",
       "ScriptLocation": "string"
```

```
      },
      "Connections": {
         "Connections": [ "string" ]
      },
      "DefaultArguments": {
         "string" : "string"
      },
      "Description": "string",
      "ExecutionClass": "string",
      "ExecutionProperty": {
         "MaxConcurrentRuns": number
      },
      "GlueVersion": "string",
      "JobMode": "string",
      "JobRunQueuingEnabled": boolean,
      "LogUri": "string",
      "MaintenanceWindow": "string",
      "MaxCapacity": number,
      "MaxRetries": number,
      "NonOverridableArguments": {
         "string" : "string"
      },
      "NotificationProperty": {
         "NotifyDelayAfter": number
      },
      "NumberOfWorkers": number,
      "Role": "string",
      "SecurityConfiguration": "string",
      "SourceControlDetails": {
         "AuthStrategy": "string",
         "AuthToken": "string",
         "Branch": "string",
         "Folder": "string",
         "LastCommitId": "string",
         "Owner": "string",
         "Provider": "string",
         "Repository": "string"
      },
      "Timeout": number,
      "WorkerType": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

JobName

The name of the job definition to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

JobUpdate

Specifies the values with which to update the job definition. Unspecified configuration is removed or reset to default values.

Type: JobUpdate object

Required: Yes

Response Syntax

```
{
   "JobName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

JobName

Returns the name of the updated job definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateJobFromSourceControl

Synchronizes a job from the source control repository. This operation takes the job artifacts that are located in the remote repository and updates the AWS Glue internal stores with these artifacts.

This API supports optional parameters which take in the repository information.

Request Syntax

```
{
   "AuthStrategy": "string",
   "AuthToken": "string",
   "BranchName": "string",
   "CommitId": "string",
   "Folder": "string",
   "JobName": "string",
   "Provider": "string",
   "RepositoryName": "string",
   "RepositoryOwner": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

AuthStrategy

The type of authentication, which can be an authentication token stored in AWS Secrets Manager, or a personal access token.

Type: String

Valid Values: `PERSONAL_ACCESS_TOKEN | AWS_SECRETS_MANAGER`

Required: No

AuthToken

The value of the authorization token.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

BranchName

An optional branch in the remote repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

CommitId

A commit ID for a commit in the remote repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Folder

An optional folder in the remote repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

JobName

The name of the AWS Glue job to be synchronized to or from the remote repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Provider

The provider for the remote repository. Possible values: GITHUB, AWS_CODE_COMMIT, GITLAB, BITBUCKET.

Type: String

Valid Values: `GITHUB | GITLAB | BITBUCKET | AWS_CODE_COMMIT`

Required: No

RepositoryName

The name of the remote repository that contains the job artifacts. For BitBucket providers, `RepositoryName` should include `WorkspaceName`. Use the format `<WorkspaceName>/<RepositoryName>`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

RepositoryOwner

The owner of the remote repository that contains the job artifacts.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Response Syntax

```
{
   "JobName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

JobName

The name of the AWS Glue job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateMLTransform

Updates an existing machine learning transform. Call this operation to tune the algorithm parameters to achieve better results.

After calling this operation, you can call the `StartMLEvaluationTaskRun` operation to assess how well your new parameters achieved your goals (such as improving the quality of your machine learning transform, or making it more cost-effective).

Request Syntax

```
{
   "Description": "string",
   "GlueVersion": "string",
   "MaxCapacity": number,
   "MaxRetries": number,
   "Name": "string",
   "NumberOfWorkers": number,
   "Parameters": {
      "FindMatchesParameters": {
         "AccuracyCostTradeoff": number,
         "EnforceProvidedLabels": boolean,
         "PrecisionRecallTradeoff": number,
         "PrimaryKeyColumnName": "string"
      },
      "TransformType": "string"
   },
   "Role": "string",
   "Timeout": number,
   "TransformId": "string",
   "WorkerType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Description

A description of the transform. The default is an empty string.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

GlueVersion

This value determines which version of AWS Glue this machine learning transform is compatible with. Glue 1.0 is recommended for most customers. If the value is not set, the Glue compatibility defaults to Glue 0.9. For more information, see AWS Glue Versions in the developer guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `^(\w+\.)+\w+$`

Required: No

MaxCapacity

The number of AWS Glue data processing units (DPUs) that are allocated to task runs for this transform. You can allocate from 2 to 100 DPUs; the default is 10. A DPU is a relative measure of processing power that consists of 4 vCPUs of compute capacity and 16 GB of memory. For more information, see the AWS Glue pricing page.

When the `WorkerType` field is set to a value other than `Standard`, the `MaxCapacity` field is set automatically and becomes read-only.

Type: Double

Required: No

MaxRetries

The maximum number of times to retry a task for this transform after a task run fails.

Type: Integer

Required: No

Name

The unique name that you gave the transform when you created it.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

NumberOfWorkers

The number of workers of a defined `workerType` that are allocated when this task runs.

Type: Integer

Required: No

Parameters

The configuration parameters that are specific to the transform type (algorithm) used. Conditionally dependent on the transform type.

Type: TransformParameters object

Required: No

Role

The name or Amazon Resource Name (ARN) of the IAM role with the required permissions.

Type: String

Required: No

Timeout

The timeout for a task run for this transform in minutes. This is the maximum time that a task run for this transform can consume resources before it is terminated and enters `TIMEOUT` status. The default is 2,880 minutes (48 hours).

Type: Integer

Valid Range: Minimum value of 1.

Required: No

TransformId

A unique identifier that was generated when the transform was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

WorkerType

The type of predefined worker that is allocated when this task runs. Accepts a value of Standard, G.1X, or G.2X.

- For the `Standard` worker type, each worker provides 4 vCPU, 16 GB of memory and a 50GB disk, and 2 executors per worker.
- For the `G.1X` worker type, each worker provides 4 vCPU, 16 GB of memory and a 64GB disk, and 1 executor per worker.
- For the `G.2X` worker type, each worker provides 8 vCPU, 32 GB of memory and a 128GB disk, and 1 executor per worker.

Type: String

Valid Values: `Standard | G.1X | G.2X | G.025X | G.4X | G.8X | Z.2X`

Required: No

Response Syntax

```
{
   "TransformId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

TransformId

The unique identifier for the transform that was updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdatePartition

Updates a partition.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "PartitionInput": {
      "LastAccessTime": number,
      "LastAnalyzedTime": number,
      "Parameters": {
         "string" : "string"
      },
      "StorageDescriptor": {
         "AdditionalLocations": [ "string" ],
         "BucketColumns": [ "string" ],
         "Columns": [
            {
               "Comment": "string",
               "Name": "string",
               "Parameters": {
                  "string" : "string"
               },
               "Type": "string"
            }
         ],
         "Compressed": boolean,
         "InputFormat": "string",
         "Location": "string",
         "NumberOfBuckets": number,
         "OutputFormat": "string",
         "Parameters": {
            "string" : "string"
         },
         "SchemaReference": {
            "SchemaId": {
               "RegistryName": "string",
               "SchemaArn": "string",
               "SchemaName": "string"
            },
            "SchemaVersionId": "string",
```

```
            "SchemaVersionNumber": number
         },
         "SerdeInfo": {
            "Name": "string",
            "Parameters": {
               "string" : "string"
            },
            "SerializationLibrary": "string"
         },
         "SkewedInfo": {
            "SkewedColumnNames": [ "string" ],
            "SkewedColumnValueLocationMaps": {
               "string" : "string"
            },
            "SkewedColumnValues": [ "string" ]
         },
         "SortColumns": [
            {
               "Column": "string",
               "SortOrder": number
            }
         ],
         "StoredAsSubDirectories": boolean
      },
      "Values": [ "string" ]
   },
   "PartitionValueList": [ "string" ],
   "TableName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the partition to be updated resides. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the catalog database in which the table in question resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

PartitionInput

The new partition object to update the partition to.

The `Values` property can't be changed. If you want to change the partition key values for a partition, delete and recreate the partition.

Type: PartitionInput object

Required: Yes

PartitionValueList

List of partition key values that define the partition to update.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

TableName

The name of the table in which the partition to be updated is located.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateRegistry

Updates an existing registry which is used to hold a collection of schemas. The updated properties relate to the registry, and do not modify any of the schemas within the registry.

Request Syntax

```
{
   "Description": "string",
   "RegistryId": {
      "RegistryArn": "string",
      "RegistryName": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Description

A description of the registry. If description is not provided, this field will not be updated.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: Yes

RegistryId

This is a wrapper structure that may contain the registry name and Amazon Resource Name (ARN).

Type: RegistryId object

Required: Yes

Response Syntax

```
{
   "RegistryArn": "string",
   "RegistryName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

RegistryArn

The Amazon Resource name (ARN) of the updated registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

RegistryName

The name of the updated registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateSchema

Updates the description, compatibility setting, or version checkpoint for a schema set.

For updating the compatibility setting, the call will not validate compatibility for the entire set of schema versions with the new compatibility setting. If the value for `Compatibility` is provided, the `VersionNumber` (a checkpoint) is also required. The API will validate the checkpoint version number for consistency.

If the value for the `VersionNumber` (checkpoint) is provided, `Compatibility` is optional and this can be used to set/reset a checkpoint for the schema.

This update will happen only if the schema is in the AVAILABLE state.

Request Syntax

```
{
   "Compatibility": "string",
   "Description": "string",
   "SchemaId": {
      "RegistryName": "string",
      "SchemaArn": "string",
      "SchemaName": "string"
   },
   "SchemaVersionNumber": {
      "LatestVersion": boolean,
      "VersionNumber": number
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Compatibility

The new compatibility setting for the schema.

Type: String

Valid Values: NONE | DISABLED | BACKWARD | BACKWARD_ALL | FORWARD | FORWARD_ALL | FULL | FULL_ALL

Required: No

Description

The new description for the schema.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*

Required: No

SchemaId

This is a wrapper structure to contain schema identity fields. The structure contains:

- SchemaId$SchemaArn: The Amazon Resource Name (ARN) of the schema. One of SchemaArn or SchemaName has to be provided.
- SchemaId$SchemaName: The name of the schema. One of SchemaArn or SchemaName has to be provided.

Type: SchemaId object

Required: Yes

SchemaVersionNumber

Version number required for check pointing. One of VersionNumber or Compatibility has to be provided.

Type: SchemaVersionNumber object

Required: No

Response Syntax

```
{
   "RegistryName": "string",
```

```
    "SchemaArn": "string",
    "SchemaName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

RegistryName

The name of the registry that contains the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

SchemaArn

The Amazon Resource Name (ARN) of the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

SchemaName

The name of the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateSourceControlFromJob

Synchronizes a job to the source control repository. This operation takes the job artifacts from the AWS Glue internal stores and makes a commit to the remote repository that is configured on the job.

This API supports optional parameters which take in the repository information.

Request Syntax

```
{
   "AuthStrategy": "string",
   "AuthToken": "string",
   "BranchName": "string",
   "CommitId": "string",
   "Folder": "string",
   "JobName": "string",
   "Provider": "string",
   "RepositoryName": "string",
   "RepositoryOwner": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

AuthStrategy

The type of authentication, which can be an authentication token stored in AWS Secrets Manager, or a personal access token.

Type: String

Valid Values: `PERSONAL_ACCESS_TOKEN | AWS_SECRETS_MANAGER`

Required: No

AuthToken

The value of the authorization token.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

BranchName

An optional branch in the remote repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

CommitId

A commit ID for a commit in the remote repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Folder

An optional folder in the remote repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

JobName

The name of the AWS Glue job to be synchronized to or from the remote repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Provider

The provider for the remote repository. Possible values: GITHUB, AWS_CODE_COMMIT, GITLAB, BITBUCKET.

Type: String

Valid Values: `GITHUB | GITLAB | BITBUCKET | AWS_CODE_COMMIT`

Required: No

RepositoryName

The name of the remote repository that contains the job artifacts. For BitBucket providers, `RepositoryName` should include `WorkspaceName`. Use the format `<WorkspaceName>/<RepositoryName>`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

RepositoryOwner

The owner of the remote repository that contains the job artifacts.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Response Syntax

```
{
   "JobName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

JobName

The name of the AWS Glue job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateTable

Updates a metadata table in the Data Catalog.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "Force": boolean,
   "Name": "string",
   "SkipArchive": boolean,
   "TableInput": {
      "Description": "string",
      "LastAccessTime": number,
      "LastAnalyzedTime": number,
      "Name": "string",
      "Owner": "string",
      "Parameters": {
         "string" : "string"
      },
      "PartitionKeys": [
         {
            "Comment": "string",
            "Name": "string",
            "Parameters": {
               "string" : "string"
            },
            "Type": "string"
         }
      ],
      "Retention": number,
      "StorageDescriptor": {
         "AdditionalLocations": [ "string" ],
         "BucketColumns": [ "string" ],
         "Columns": [
            {
               "Comment": "string",
               "Name": "string",
               "Parameters": {
                  "string" : "string"
               },
               "Type": "string"
```

```
            }
         ],
         "Compressed": boolean,
         "InputFormat": "string",
         "Location": "string",
         "NumberOfBuckets": number,
         "OutputFormat": "string",
         "Parameters": {
            "string" : "string"
         },
         "SchemaReference": {
            "SchemaId": {
               "RegistryName": "string",
               "SchemaArn": "string",
               "SchemaName": "string"
            },
            "SchemaVersionId": "string",
            "SchemaVersionNumber": number
         },
         "SerdeInfo": {
            "Name": "string",
            "Parameters": {
               "string" : "string"
            },
            "SerializationLibrary": "string"
         },
         "SkewedInfo": {
            "SkewedColumnNames": [ "string" ],
            "SkewedColumnValueLocationMaps": {
               "string" : "string"
            },
            "SkewedColumnValues": [ "string" ]
         },
         "SortColumns": [
            {
               "Column": "string",
               "SortOrder": number
            }
         ],
         "StoredAsSubDirectories": boolean
      },
      "TableType": "string",
      "TargetTable": {
         "CatalogId": "string",
```

```
            "DatabaseName": "string",
            "Name": "string",
            "Region": "string"
         },
         "ViewDefinition": {
            "Definer": "string",
            "IsProtected": boolean,
            "LastRefreshType": "string",
            "RefreshSeconds": number,
            "Representations": [
               {
                  "Dialect": "string",
                  "DialectVersion": "string",
                  "ValidationConnection": "string",
                  "ViewExpandedText": "string",
                  "ViewOriginalText": "string"
               }
            ],
            "SubObjects": [ "string" ],
            "SubObjectVersionIds": [ number ],
            "ViewVersionId": number,
            "ViewVersionToken": "string"
         },
         "ViewExpandedText": "string",
         "ViewOriginalText": "string"
      },
      "TransactionId": "string",
      "UpdateOpenTableFormatInput": {
         "UpdateIcebergInput": {
            "UpdateIcebergTableInput": {
               "Updates": [
                  {
                     "Action": "string",
                     "EncryptionKey": {
                        "EncryptedById": "string",
                        "EncryptedKeyMetadata": "string",
                        "KeyId": "string",
                        "Properties": {
                           "string" : "string"
                        }
                     },
                     "KeyId": "string",
                     "Location": "string",
                     "PartitionSpec": {
```

```
                    "Fields": [
                       {
                          "FieldId": number,
                          "Name": "string",
                          "SourceId": number,
                          "Transform": "string"
                       }
                    ],
                    "SpecId": number
                 },
                 "Properties": {
                    "string" : "string"
                 },
                 "Schema": {
                    "Fields": [
                       {
                          "Doc": "string",
                          "Id": number,
                          "InitialDefault": JSON value,
                          "Name": "string",
                          "Required": boolean,
                          "Type": JSON value,
                          "WriteDefault": JSON value
                       }
                    ],
                    "IdentifierFieldIds": [ number ],
                    "SchemaId": number,
                    "Type": "string"
                 },
                 "SortOrder": {
                    "Fields": [
                       {
                          "Direction": "string",
                          "NullOrder": "string",
                          "SourceId": number,
                          "Transform": "string"
                       }
                    ],
                    "OrderId": number
                 }
              }
           ]
        }
     }
```

```
    },
    "VersionId": "string",
    "ViewUpdateAction": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the table resides. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the catalog database in which the table resides. For Hive compatibility, this name is entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Force

A flag that can be set to true to ignore matching storage descriptor and subobject matching requirements.

Type: Boolean

Required: No

Name

The unique identifier for the table within the specified database that will be created in the AWS Glue Data Catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

SkipArchive

By default, `UpdateTable` always creates an archived version of the table before updating it. However, if `skipArchive` is set to true, `UpdateTable` does not create the archived version.

Type: Boolean

Required: No

TableInput

An updated `TableInput` object to define the metadata table in the catalog.

Type: TableInput object

Required: No

TransactionId

The transaction ID at which to update the table contents.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}\p{N}\p{P}]*`

Required: No

UpdateOpenTableFormatInput

Input parameters for updating open table format tables in AWS GlueData Catalog, serving as a wrapper for format-specific update operations such as Apache Iceberg.

Type: UpdateOpenTableFormatInput object

Required: No

VersionId

The version ID at which to update the table contents.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ViewUpdateAction

The operation to be performed when updating the view.

Type: String

Valid Values: `ADD | REPLACE | ADD_OR_REPLACE | DROP`

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AlreadyExistsException

A resource to be created or added already exists.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

FederationSourceException

A federation source failed.

FederationSourceErrorCode

The error code of the problem.

Message

The message describing the problem.

HTTP Status Code: 400

FederationSourceRetryableException

A federation source failed, but the operation may be retried.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNotReadyException

A resource was not ready for a transaction.

Message

A message describing the problem.

HTTP Status Code: 400

ResourceNumberLimitExceededException

A resource numerical limit was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateTableOptimizer

Updates the configuration for an existing table optimizer.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "TableName": "string",
   "TableOptimizerConfiguration": {
      "compactionConfiguration": {
         "icebergConfiguration": {
            "deleteFileThreshold": number,
            "minInputFiles": number,
            "strategy": "string"
         }
      },
      "enabled": boolean,
      "orphanFileDeletionConfiguration": {
         "icebergConfiguration": {
            "location": "string",
            "orphanFileRetentionPeriodInDays": number,
            "runRateInHours": number
         }
      },
      "retentionConfiguration": {
         "icebergConfiguration": {
            "cleanExpiredFiles": boolean,
            "numberOfSnapshotsToRetain": number,
            "runRateInHours": number,
            "snapshotRetentionPeriodInDays": number
         }
      },
      "roleArn": "string",
      "vpcConfiguration": { ... }
   },
   "Type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The Catalog ID of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

DatabaseName

The name of the database in the catalog in which the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableOptimizerConfiguration

A `TableOptimizerConfiguration` object representing the configuration of a table optimizer.

Type: TableOptimizerConfiguration object

Required: Yes

Type

The type of table optimizer.

Type: String

Valid Values: `compaction | retention | orphan_file_deletion`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

Access to a resource was denied.

Message

A message describing the problem.

HTTP Status Code: 400

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

ThrottlingException

The throttling threshhold was exceeded.

Message

A message describing the problem.

HTTP Status Code: 400

ValidationException

A value could not be validated.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateTrigger

Updates a trigger definition.

Job arguments may be logged. Do not pass plaintext secrets as arguments. Retrieve secrets from a AWS Glue Connection, AWS Secrets Manager or other secret management mechanism if you intend to keep them within the Job.

Request Syntax

```
{
   "Name": "string",
   "TriggerUpdate": {
      "Actions": [
         {
            "Arguments": {
               "string" : "string"
            },
            "CrawlerName": "string",
            "JobName": "string",
            "NotificationProperty": {
               "NotifyDelayAfter": number
            },
            "SecurityConfiguration": "string",
            "Timeout": number
         }
      ],
      "Description": "string",
      "EventBatchingCondition": {
         "BatchSize": number,
         "BatchWindow": number
      },
      "Name": "string",
      "Predicate": {
         "Conditions": [
            {
               "CrawlerName": "string",
               "CrawlState": "string",
               "JobName": "string",
               "LogicalOperator": "string",
               "State": "string"
            }
         ],
```

```
         "Logical": "string"
      },
      "Schedule": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Name

The name of the trigger to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TriggerUpdate

The new values with which to update the trigger.

Type: TriggerUpdate object

Required: Yes

Response Syntax

```
{
   "Trigger": {
      "Actions": [
         {
            "Arguments": {
               "string" : "string"
            },
            "CrawlerName": "string",
```

```
            "JobName": "string",
            "NotificationProperty": {
               "NotifyDelayAfter": number
            },
            "SecurityConfiguration": "string",
            "Timeout": number
         }
      ],
      "Description": "string",
      "EventBatchingCondition": {
         "BatchSize": number,
         "BatchWindow": number
      },
      "Id": "string",
      "Name": "string",
      "Predicate": {
         "Conditions": [
            {
               "CrawlerName": "string",
               "CrawlState": "string",
               "JobName": "string",
               "LogicalOperator": "string",
               "State": "string"
            }
         ],
         "Logical": "string"
      },
      "Schedule": "string",
      "State": "string",
      "Type": "string",
      "WorkflowName": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Trigger

The resulting trigger definition.

Type: Trigger object

Errors

For information about the errors that are common to all actions, see Common Errors.

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateUsageProfile

Update an AWS Glue usage profile.

Request Syntax

```
{
   "Configuration": {
      "JobConfiguration": {
         "string" : {
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "MaxValue": "string",
            "MinValue": "string"
         }
      },
      "SessionConfiguration": {
         "string" : {
            "AllowedValues": [ "string" ],
            "DefaultValue": "string",
            "MaxValue": "string",
            "MinValue": "string"
         }
      }
   },
   "Description": "string",
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

Configuration

A `ProfileConfiguration` object specifying the job and session values for the profile.

Type: ProfileConfiguration object

Required: Yes

Description

A description of the usage profile.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

Name

The name of the usage profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Name

The name of the usage profile that was updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationNotSupportedException

The operation is not available in the region.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateUserDefinedFunction

Updates an existing function definition in the Data Catalog.

Request Syntax

```
{
   "CatalogId": "string",
   "DatabaseName": "string",
   "FunctionInput": {
      "ClassName": "string",
      "FunctionName": "string",
      "FunctionType": "string",
      "OwnerName": "string",
      "OwnerType": "string",
      "ResourceUris": [
         {
            "ResourceType": "string",
            "Uri": "string"
         }
      ]
   },
   "FunctionName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

CatalogId

The ID of the Data Catalog where the function to be updated is located. If none is provided, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the catalog database where the function to be updated is located.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

FunctionInput

A `FunctionInput` object that redefines the function in the Data Catalog.

Type: UserDefinedFunctionInput object

Required: Yes

FunctionName

The name of the function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

GlueEncryptionException

An encryption operation failed.

Message

The message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateWorkflow

Updates an existing workflow.

Request Syntax

```
{
   "DefaultRunProperties": {
      "string" : "string"
   },
   "Description": "string",
   "MaxConcurrentRuns": number,
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

DefaultRunProperties

A collection of properties to be used as part of each execution of the workflow.

Run properties may be logged. Do not pass plaintext secrets as properties. Retrieve secrets from a AWS Glue Connection, AWS Secrets Manager or other secret management mechanism if you intend to use them within the workflow run.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Description

The description of the workflow.

Type: String

Length Constraints: Maximum length of 120000.

Required: No

MaxConcurrentRuns

You can use this parameter to prevent unwanted multiple updates to data, to control costs, or in some cases, to prevent exceeding the maximum number of concurrent runs of any of the component jobs. If you leave this parameter blank, there is no limit to the number of concurrent workflow runs.

Type: Integer

Required: No

Name

Name of the workflow to be updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Response Syntax

```
{
   "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Name

The name of the workflow which was specified in input.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

ConcurrentModificationException

Two processes are trying to modify a resource simultaneously.

Message

A message describing the problem.

HTTP Status Code: 400

EntityNotFoundException

A specified entity does not exist

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

InternalServiceException

An internal service error occurred.

Message

A message describing the problem.

HTTP Status Code: 500

InvalidInputException

The input provided was not valid.

FromFederationSource

Indicates whether or not the exception relates to a federated source.

Message

A message describing the problem.

HTTP Status Code: 400

OperationTimeoutException

The operation timed out.

Message

A message describing the problem.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Data Types

The AWS Glue API contains several data types that various actions use. This section describes each data type in detail.

> **Note**
>
> The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- Action
- Aggregate
- AggregateOperation
- AllowedValue
- AmazonRedshiftAdvancedOption
- AmazonRedshiftNodeData
- AmazonRedshiftSource
- AmazonRedshiftTarget
- AnnotationError
- ApplyMapping
- AthenaConnectorSource
- AuditContext
- AuthConfiguration
- AuthenticationConfiguration
- AuthenticationConfigurationInput
- AuthorizationCodeProperties
- AutoDataQuality
- BackfillError
- BasicAuthenticationCredentials
- BasicAuthenticationProperties

- BasicCatalogTarget
- BatchGetTableOptimizerEntry
- BatchGetTableOptimizerError
- BatchStopJobRunError
- BatchStopJobRunSuccessfulSubmission
- BatchTableOptimizer
- BatchUpdatePartitionFailureEntry
- BatchUpdatePartitionRequestEntry
- BinaryColumnStatisticsData
- Blueprint
- BlueprintDetails
- BlueprintRun
- BooleanColumnStatisticsData
- Capabilities
- Catalog
- CatalogDeltaSource
- CatalogEntry
- CatalogHudiSource
- CatalogIcebergSource
- CatalogImportStatus
- CatalogInput
- CatalogKafkaSource
- CatalogKinesisSource
- CatalogProperties
- CatalogPropertiesOutput
- CatalogSchemaChangePolicy
- CatalogSource
- CatalogTarget
- Classifier
- ClientCredentialsProperties

- CloudWatchEncryption
- CodeGenConfigurationNode
- CodeGenEdge
- CodeGenNode
- CodeGenNodeArg
- Column
- ColumnError
- ColumnImportance
- ColumnRowFilter
- ColumnStatistics
- ColumnStatisticsData
- ColumnStatisticsError
- ColumnStatisticsTaskRun
- ColumnStatisticsTaskSettings
- CompactionConfiguration
- CompactionMetrics
- ComputeEnvironmentConfiguration
- Condition
- ConditionExpression
- ConfigurationObject
- ConfusionMatrix
- Connection
- ConnectionInput
- ConnectionPasswordEncryption
- ConnectionPropertiesConfiguration
- ConnectionsList
- ConnectionTypeBrief
- ConnectionTypeVariant
- ConnectorAuthenticationConfiguration
- ConnectorAuthorizationCodeProperties

- ConnectorDataSource
- ConnectorDataTarget
- ConnectorOAuth2Properties
- ConnectorProperty
- Crawl
- Crawler
- CrawlerHistory
- CrawlerMetrics
- CrawlerNodeDetails
- CrawlerTargets
- CrawlsFilter
- CreateCsvClassifierRequest
- CreateGrokClassifierRequest
- CreateIcebergTableInput
- CreateJsonClassifierRequest
- CreateXMLClassifierRequest
- CsvClassifier
- CursorConfiguration
- CustomAuthenticationProperties
- CustomCode
- CustomEntityType
- Database
- DatabaseIdentifier
- DatabaseInput
- DataCatalogEncryptionSettings
- DataLakeAccessProperties
- DataLakeAccessPropertiesOutput
- DataLakePrincipal
- DatapointInclusionAnnotation
- DataQualityAggregatedMetrics

- DataQualityAnalyzerResult
- DataQualityEncryption
- DataQualityEvaluationRunAdditionalRunOptions
- DataQualityGlueTable
- DataQualityMetricValues
- DataQualityObservation
- DataQualityResult
- DataQualityResultDescription
- DataQualityResultFilterCriteria
- DataQualityRuleRecommendationRunDescription
- DataQualityRuleRecommendationRunFilter
- DataQualityRuleResult
- DataQualityRulesetEvaluationRunDescription
- DataQualityRulesetEvaluationRunFilter
- DataQualityRulesetFilterCriteria
- DataQualityRulesetListDetails
- DataQualityTargetTable
- DataSource
- Datatype
- DateColumnStatisticsData
- DDBELTCatalogAdditionalOptions
- DDBELTConnectionOptions
- DecimalColumnStatisticsData
- DecimalNumber
- DeltaTarget
- DevEndpoint
- DevEndpointCustomLibraries
- DirectJDBCSource
- DirectKafkaSource
- DirectKinesisSource

- DirectSchemaChangePolicy
- DoubleColumnStatisticsData
- DQResultsPublishingOptions
- DQStopJobOnFailureOptions
- DropDuplicates
- DropFields
- DropNullFields
- DynamicTransform
- DynamoDBCatalogSource
- DynamoDBELTConnectorSource
- DynamoDBTarget
- Edge
- EncryptionAtRest
- EncryptionConfiguration
- Entity
- EntityConfiguration
- ErrorDetail
- ErrorDetails
- EvaluateDataQuality
- EvaluateDataQualityMultiFrame
- EvaluationMetrics
- EventBatchingCondition
- ExecutionAttempt
- ExecutionProperty
- ExportLabelsTaskRunProperties
- ExtractedParameter
- FederatedCatalog
- FederatedDatabase
- FederatedTable
- Field

- FieldDefinition
- FillMissingValues
- Filter
- FilterExpression
- FilterValue
- FindMatchesMetrics
- FindMatchesParameters
- FindMatchesTaskRunProperties
- GetConnectionsFilter
- GluePolicy
- GlueSchema
- GlueStudioSchemaColumn
- GlueTable
- GovernedCatalogSource
- GovernedCatalogTarget
- GrokClassifier
- GroupFilters
- HudiTarget
- IcebergCompactionConfiguration
- IcebergCompactionMetrics
- IcebergEncryptedKey
- IcebergInput
- IcebergOptimizationProperties
- IcebergOptimizationPropertiesOutput
- IcebergOrphanFileDeletionConfiguration
- IcebergOrphanFileDeletionMetrics
- IcebergPartitionField
- IcebergPartitionSpec
- IcebergRetentionConfiguration
- IcebergRetentionMetrics

- IcebergSchema
- IcebergSortField
- IcebergSortOrder
- IcebergStructField
- IcebergTableUpdate
- IcebergTarget
- ImportLabelsTaskRunProperties
- InboundIntegration
- Integration
- IntegrationConfig
- IntegrationError
- IntegrationFilter
- IntegrationPartition
- IntegrationResourceProperty
- IntegrationResourcePropertyFilter
- JDBCConnectorOptions
- JDBCConnectorSource
- JDBCConnectorTarget
- JdbcTarget
- Job
- JobBookmarkEntry
- JobBookmarksEncryption
- JobCommand
- JobNodeDetails
- JobRun
- JobUpdate
- Join
- JoinColumn
- JsonClassifier
- JWTBearerProperties

- KafkaStreamingSourceOptions
- KeySchemaElement
- KinesisStreamingSourceOptions
- LabelingSetGenerationTaskRunProperties
- LakeFormationConfiguration
- LastActiveDefinition
- LastCrawlInfo
- LineageConfiguration
- Location
- LongColumnStatisticsData
- Mapping
- MappingEntry
- MaterializedViewRefreshTaskRun
- Merge
- MetadataInfo
- MetadataKeyValuePair
- MetricBasedObservation
- MicrosoftSQLServerCatalogSource
- MicrosoftSQLServerCatalogTarget
- MLTransform
- MLUserDataEncryption
- MongoDBTarget
- MySQLCatalogSource
- MySQLCatalogTarget
- Node
- NotificationProperty
- NullCheckBoxList
- NullValueField
- OAuth2ClientApplication
- OAuth2Credentials

- OAuth2Properties
- OAuth2PropertiesInput
- OffsetConfiguration
- OpenTableFormatInput
- Option
- OracleSQLCatalogSource
- OracleSQLCatalogTarget
- Order
- OrphanFileDeletionConfiguration
- OrphanFileDeletionMetrics
- OtherMetadataValueListItem
- PaginationConfiguration
- Partition
- PartitionError
- PartitionIndex
- PartitionIndexDescriptor
- PartitionInput
- PartitionValueList
- PhysicalConnectionRequirements
- PIIDetection
- PostgreSQLCatalogSource
- PostgreSQLCatalogTarget
- Predecessor
- Predicate
- PrincipalPermissions
- ProfileConfiguration
- Property
- PropertyPredicate
- QuerySessionContext
- Recipe

- RecipeAction
- RecipeReference
- RecipeStep
- RecrawlPolicy
- RedshiftSource
- RedshiftTarget
- RegistryId
- RegistryListItem
- RelationalCatalogSource
- RenameField
- ResourceUri
- ResponseConfiguration
- ResponseExtractionMapping
- RestConfiguration
- RetentionConfiguration
- RetentionMetrics
- Route
- RunIdentifier
- RunMetrics
- S3CatalogDeltaSource
- S3CatalogHudiSource
- S3CatalogIcebergSource
- S3CatalogSource
- S3CatalogTarget
- S3CsvSource
- S3DeltaCatalogTarget
- S3DeltaDirectTarget
- S3DeltaSource
- S3DirectSourceAdditionalOptions
- S3DirectTarget

- S3Encryption
- S3ExcelSource
- S3GlueParquetTarget
- S3HudiCatalogTarget
- S3HudiDirectTarget
- S3HudiSource
- S3HyperDirectTarget
- S3IcebergCatalogTarget
- S3IcebergDirectTarget
- S3JsonSource
- S3ParquetSource
- S3SourceAdditionalOptions
- S3Target
- Schedule
- SchemaChangePolicy
- SchemaColumn
- SchemaId
- SchemaListItem
- SchemaReference
- SchemaVersionErrorItem
- SchemaVersionListItem
- SchemaVersionNumber
- SecurityConfiguration
- Segment
- SelectFields
- SelectFromCollection
- SerDeInfo
- Session
- SessionCommand
- SkewedInfo

- SnowflakeNodeData
- SnowflakeSource
- SnowflakeTarget
- SortCriterion
- SourceConfiguration
- SourceControlDetails
- SourceProcessingProperties
- SourceTableConfig
- SparkConnectorSource
- SparkConnectorTarget
- SparkSQL
- Spigot
- SplitFields
- SqlAlias
- StartingEventBatchCondition
- Statement
- StatementOutput
- StatementOutputData
- StatisticAnnotation
- StatisticModelResult
- StatisticSummary
- StatusDetails
- StorageDescriptor
- StreamingDataPreviewOptions
- StringColumnStatisticsData
- SupportedDialect
- Table
- TableError
- TableIdentifier
- TableInput

- TableOptimizer
- TableOptimizerConfiguration
- TableOptimizerRun
- TableOptimizerVpcConfiguration
- TableStatus
- TableVersion
- TableVersionError
- Tag
- TargetProcessingProperties
- TargetRedshiftCatalog
- TargetTableConfig
- TaskRun
- TaskRunFilterCriteria
- TaskRunProperties
- TaskRunSortCriteria
- TestConnectionInput
- TimestampedInclusionAnnotation
- TimestampFilter
- TransformConfigParameter
- TransformEncryption
- TransformFilterCriteria
- TransformParameters
- TransformSortCriteria
- Trigger
- TriggerNodeDetails
- TriggerUpdate
- UnfilteredPartition
- Union
- UpdateCsvClassifierRequest
- UpdateGrokClassifierRequest

- UpdateIcebergInput
- UpdateIcebergTableInput
- UpdateJsonClassifierRequest
- UpdateOpenTableFormatInput
- UpdateXMLClassifierRequest
- UpsertRedshiftTargetOptions
- UsageProfileDefinition
- UserDefinedFunction
- UserDefinedFunctionInput
- ViewDefinition
- ViewDefinitionInput
- ViewRepresentation
- ViewRepresentationInput
- ViewValidation
- Workflow
- WorkflowGraph
- WorkflowRun
- WorkflowRunStatistics
- XMLClassifier

Action

Defines an action to be initiated by a trigger.

Contents

Arguments

The job arguments used when this trigger fires. For this job run, they replace the default arguments set in the job definition itself.

You can specify arguments here that your own job-execution script consumes, as well as arguments that AWS Glue itself consumes.

For information about how to specify and consume your own Job arguments, see the Calling AWS Glue APIs in Python topic in the developer guide.

For information about the key-value pairs that AWS Glue consumes to set up your job, see the Special Parameters Used by AWS Glue topic in the developer guide.

Type: String to string map

Required: No

CrawlerName

The name of the crawler to be used with this action.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

JobName

The name of a job to be run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

NotificationProperty

Specifies configuration properties of a job run notification.

Type: NotificationProperty object

Required: No

SecurityConfiguration

The name of the `SecurityConfiguration` structure to be used with this action.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Timeout

The `JobRun` timeout in minutes. This is the maximum time that a job run can consume resources before it is terminated and enters `TIMEOUT` status. This overrides the timeout value set in the parent job.

Jobs must have timeout values less than 7 days or 10080 minutes. Otherwise, the jobs will throw an exception.

When the value is left blank, the timeout is defaulted to 2880 minutes.

Any existing AWS Glue jobs that had a timeout value greater than 7 days will be defaulted to 7 days. For instance if you have specified a timeout of 20 days for a batch job, it will be stopped on the 7th day.

For streaming jobs, if you have set up a maintenance window, it will be restarted during the maintenance window after 7 days.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Aggregate

Specifies a transform that groups rows by chosen fields and computes the aggregated value by specified function.

Contents

Aggs

Specifies the aggregate functions to be performed on specified fields.

Type: Array of AggregateOperation objects

Array Members: Minimum number of 1 item. Maximum number of 30 items.

Required: Yes

Groups

Specifies the fields to group by.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

Specifies the fields and rows to use as inputs for the aggregate transform.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AggregateOperation

Specifies the set of parameters needed to perform aggregation in the aggregate transform.

Contents

AggFunc

Specifies the aggregation function to apply.

Possible aggregation functions include: avg countDistinct, count, first, last, kurtosis, max, min, skewness, stddev_samp, stddev_pop, sum, sumDistinct, var_samp, var_pop

Type: String

Valid Values: `avg | countDistinct | count | first | last | kurtosis | max | min | skewness | stddev_samp | stddev_pop | sum | sumDistinct | var_samp | var_pop`

Required: Yes

Column

Specifies the column on the data set on which the aggregation function will be applied.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AllowedValue

An object representing a value allowed for a property.

Contents

Value

The value allowed for the property.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Description

A description of the allowed value.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AmazonRedshiftAdvancedOption

Specifies an optional value when connecting to the Redshift cluster.

Contents

Key

The key for the additional connection option.

Type: String

Required: No

Value

The value for the additional connection option.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AmazonRedshiftNodeData

Specifies an Amazon Redshift node.

Contents

AccessType

The access type for the Redshift connection. Can be a direct connection or catalog connections.

Type: String

Pattern: `[A-Za-z0-9_-]*`

Required: No

Action

Specifies how writing to a Redshift cluser will occur.

Type: String

Required: No

AdvancedOptions

Optional values when connecting to the Redshift cluster.

Type: Array of AmazonRedshiftAdvancedOption objects

Required: No

CatalogDatabase

The name of the AWS Glue Data Catalog database when working with a data catalog.

Type: Option object

Required: No

CatalogRedshiftSchema

The Redshift schema name when working with a data catalog.

Type: String

Required: No

CatalogRedshiftTable

The database table to read from.

Type: String

Required: No

CatalogTable

The AWS Glue Data Catalog table name when working with a data catalog.

Type: Option object

Required: No

Connection

The AWS Glue connection to the Redshift cluster.

Type: Option object

Required: No

CrawlerConnection

Specifies the name of the connection that is associated with the catalog table used.

Type: String

Required: No

IamRole

Optional. The role name use when connection to S3. The IAM role ill default to the role on the job when left blank.

Type: Option object

Required: No

MergeAction

The action used when to detemine how a MERGE in a Redshift sink will be handled.

Type: String

Pattern: [A-Za-z0-9_-]*

Required: No

MergeClause

The SQL used in a custom merge to deal with matching records.

Type: String

Required: No

MergeWhenMatched

The action used when to detemine how a MERGE in a Redshift sink will be handled when an existing record matches a new record.

Type: String

Pattern: [A-Za-z0-9_-]*

Required: No

MergeWhenNotMatched

The action used when to detemine how a MERGE in a Redshift sink will be handled when an existing record doesn't match a new record.

Type: String

Pattern: [A-Za-z0-9_-]*

Required: No

PostAction

The SQL used before a MERGE or APPEND with upsert is run.

Type: String

Required: No

PreAction

The SQL used before a MERGE or APPEND with upsert is run.

Type: String

Required: No

SampleQuery

The SQL used to fetch the data from a Redshift sources when the SourceType is 'query'.

Type: String

Required: No

Schema

The Redshift schema name when working with a direct connection.

Type: Option object

Required: No

SelectedColumns

The list of column names used to determine a matching record when doing a MERGE or APPEND with upsert.

Type: Array of Option objects

Required: No

SourceType

The source type to specify whether a specific table is the source or a custom query.

Type: String

Pattern: `[A-Za-z0-9_-]*`

Required: No

StagingTable

The name of the temporary staging table that is used when doing a MERGE or APPEND with upsert.

Type: String

Required: No

Table

The Redshift table name when working with a direct connection.

Type: Option object

Required: No

TablePrefix

Specifies the prefix to a table.

Type: String

Pattern: `[A-Za-z0-9_-]*`

Required: No

TableSchema

The array of schema output for a given node.

Type: Array of Option objects

Required: No

TempDir

The Amazon S3 path where temporary data can be staged when copying out of the database.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

Upsert

The action used on Redshift sinks when doing an APPEND.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AmazonRedshiftSource

Specifies an Amazon Redshift source.

Contents

Data

Specifies the data of the Amazon Reshift source node.

Type: AmazonRedshiftNodeData object

Required: No

Name

The name of the Amazon Redshift source.

Type: String

Pattern: `([^\r\n])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AmazonRedshiftTarget

Specifies an Amazon Redshift target.

Contents

Data

Specifies the data of the Amazon Redshift target node.

Type: AmazonRedshiftNodeData object

Required: No

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: No

Name

The name of the Amazon Redshift target.

Type: String

Pattern: `([^\r\n])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AnnotationError

A failed annotation.

Contents

FailureReason

The reason why the annotation failed.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

ProfileId

The Profile ID for the failed annotation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

StatisticId

The Statistic ID for the failed annotation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ApplyMapping

Specifies a transform that maps data property keys in the data source to data property keys in the data target. You can rename keys, modify the data types for keys, and choose which keys to drop from the dataset.

Contents

Inputs

The data inputs identified by their node names.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Mapping

Specifies the mapping of data property keys in the data source to data property keys in the data target.

Type: Array of Mapping objects

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AthenaConnectorSource

Specifies a connector to an Amazon Athena data source.

Contents

ConnectionName

The name of the connection that is associated with the connector.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

ConnectionType

The type of connection, such as marketplace.athena or custom.athena, designating a connection to an Amazon Athena data store.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

ConnectorName

The name of a connector that assists with accessing the data store in AWS Glue Studio.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

SchemaName

The name of the Cloudwatch log group to read from. For example, `/aws-glue/jobs/output`.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

ConnectionTable

The name of the table in the data source.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

OutputSchemas

Specifies the data schema for the custom Athena source.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AuditContext

A structure containing the Lake Formation audit context.

Contents

AdditionalAuditContext

A string containing the additional audit context information.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Required: No

AllColumnsRequested

All columns request for audit.

Type: Boolean

Required: No

RequestedColumns

The requested columns for audit.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AuthConfiguration

The authentication configuration for a connection returned by the `DescribeConnectionType` API.

Contents

AuthenticationType

The type of authentication for a connection.

Type: Property object

Required: Yes

BasicAuthenticationProperties

A map of key-value pairs for the OAuth2 properties. Each value is a a `Property` object.

Type: String to Property object map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

CustomAuthenticationProperties

A map of key-value pairs for the custom authentication properties. Each value is a a `Property` object.

Type: String to Property object map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

OAuth2Properties

A map of key-value pairs for the OAuth2 properties. Each value is a a `Property` object.

Type: String to Property object map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

SecretArn

The Amazon Resource Name (ARN) for the Secrets Manager.

Type: Property object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AuthenticationConfiguration

A structure containing the authentication configuration.

Contents

AuthenticationType

A structure containing the authentication configuration.

Type: String

Valid Values: `BASIC | OAUTH2 | CUSTOM | IAM`

Required: No

KmsKeyArn

The Amazon Resource Name (ARN) of the KMS key used to encrypt sensitive authentication information. This key is used to protect credentials and other sensitive data stored within the authentication configuration.

Type: String

Pattern: `^$|arn:aws[a-z0-9-]*:kms:.*`

Required: No

OAuth2Properties

The properties for OAuth2 authentication.

Type: OAuth2Properties object

Required: No

SecretArn

The secret manager ARN to store credentials.

Type: String

Pattern: `^arn:aws(-(cn|us-gov|iso(-[bef])?))?:secretsmanager:.*$`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AuthenticationConfigurationInput

A structure containing the authentication configuration in the CreateConnection request.

Contents

AuthenticationType

A structure containing the authentication configuration in the CreateConnection request.

Type: String

Valid Values: `BASIC | OAUTH2 | CUSTOM | IAM`

Required: No

BasicAuthenticationCredentials

The credentials used when the authentication type is basic authentication.

Type: BasicAuthenticationCredentials object

Required: No

CustomAuthenticationCredentials

The credentials used when the authentication type is custom authentication.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

KmsKeyArn

The ARN of the KMS key used to encrypt the connection. Only taken an as input in the request and stored in the Secret Manager.

Type: String

Pattern: `^$|arn:aws[a-z0-9-]*:kms:.*`

Required: No

OAuth2Properties

The properties for OAuth2 authentication in the CreateConnection request.

Type: OAuth2PropertiesInput object

Required: No

SecretArn

The secret manager ARN to store credentials in the CreateConnection request.

Type: String

Pattern: `^arn:aws(-(cn|us-gov|iso(-[bef])?))?:secretsmanager:.*$`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AuthorizationCodeProperties

The set of properties required for the the OAuth2 `AUTHORIZATION_CODE` grant type workflow.

Contents

AuthorizationCode

An authorization code to be used in the third leg of the `AUTHORIZATION_CODE` grant workflow. This is a single-use code which becomes invalid once exchanged for an access token, thus it is acceptable to have this value as a request parameter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `\S+`

Required: No

RedirectUri

The redirect URI where the user gets redirected to by authorization server when issuing an authorization code. The URI is subsequently used when the authorization code is exchanged for an access token.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `^(https?):\/\/[^\s/$.?#].[^\s]*$`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AutoDataQuality

Specifies configuration options for automatic data quality evaluation in AWS Glue jobs. This structure enables automated data quality checks and monitoring during ETL operations, helping to ensure data integrity and reliability without manual intervention.

Contents

EvaluationContext

The evaluation context for the automatic data quality checks. This defines the scope and parameters for the data quality evaluation.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

IsEnabled

Specifies whether automatic data quality evaluation is enabled. When set to `true`, data quality checks are performed automatically.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BackfillError

A list of errors that can occur when registering partition indexes for an existing table.

These errors give the details about why an index registration failed and provide a limited number of partitions in the response, so that you can fix the partitions at fault and try registering the index again. The most common set of errors that can occur are categorized as follows:

- EncryptedPartitionError: The partitions are encrypted.
- InvalidPartitionTypeDataError: The partition value doesn't match the data type for that partition column.
- MissingPartitionValueError: The partitions are encrypted.
- UnsupportedPartitionCharacterError: Characters inside the partition value are not supported. For example: U+0000 , U+0001, U+0002.
- InternalError: Any error which does not belong to other error codes.

Contents

Code

The error code for an error that occurred when registering partition indexes for an existing table.

Type: String

Valid Values: `ENCRYPTED_PARTITION_ERROR | INTERNAL_ERROR | INVALID_PARTITION_TYPE_DATA_ERROR | MISSING_PARTITION_VALUE_ERROR | UNSUPPORTED_PARTITION_CHARACTER_ERROR`

Required: No

Partitions

A list of a limited number of partitions in the response.

Type: Array of PartitionValueList objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BasicAuthenticationCredentials

For supplying basic auth credentials when not providing a `SecretArn` value.

Contents

Password

The password to connect to the data source.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

Required: No

Username

The username to connect to the data source.

Type: String

Length Constraints: Maximum length of 512.

Pattern: \S+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BasicAuthenticationProperties

Basic authentication configuration that defines the username and password properties for HTTP Basic authentication.

Contents

Password

The password property name to use for Basic authentication credentials.

Type: ConnectorProperty object

Required: No

Username

The username property name to use for Basic authentication credentials.

Type: ConnectorProperty object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BasicCatalogTarget

Specifies a target that uses a AWS Glue Data Catalog table.

Contents

Database

The database that contains the table you want to use as the target. This database must already exist in the Data Catalog.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of your data target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The table that defines the schema of your output data. This table must already exist in the Data Catalog.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

PartitionKeys

The partition keys used to distribute data across multiple partitions or shards based on a specific key or set of key.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BatchGetTableOptimizerEntry

Represents a table optimizer to retrieve in the `BatchGetTableOptimizer` operation.

Contents

catalogId

The Catalog ID of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

databaseName

The name of the database in the catalog in which the table resides.

Type: String

Length Constraints: Minimum length of 1.

Required: No

tableName

The name of the table.

Type: String

Length Constraints: Minimum length of 1.

Required: No

type

The type of table optimizer.

Type: String

Valid Values: `compaction | retention | orphan_file_deletion`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BatchGetTableOptimizerError

Contains details on one of the errors in the error list returned by the `BatchGetTableOptimizer` operation.

Contents

catalogId

The Catalog ID of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

databaseName

The name of the database in the catalog in which the table resides.

Type: String

Length Constraints: Minimum length of 1.

Required: No

error

An `ErrorDetail` object containing code and message details about the error.

Type: ErrorDetail object

Required: No

tableName

The name of the table.

Type: String

Length Constraints: Minimum length of 1.

Required: No

type

The type of table optimizer.

Type: String

Valid Values: `compaction | retention | orphan_file_deletion`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BatchStopJobRunError

Records an error that occurred when attempting to stop a specified job run.

Contents

ErrorDetail

Specifies details about the error that was encountered.

Type: ErrorDetail object

Required: No

JobName

The name of the job definition that is used in the job run in question.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

JobRunId

The `JobRunId` of the job run in question.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BatchStopJobRunSuccessfulSubmission

Records a successful request to stop a specified JobRun.

Contents

JobName

The name of the job definition used in the job run that was stopped.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

JobRunId

The JobRunId of the job run that was stopped.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BatchTableOptimizer

Contains details for one of the table optimizers returned by the `BatchGetTableOptimizer` operation.

Contents

catalogId

The Catalog ID of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

databaseName

The name of the database in the catalog in which the table resides.

Type: String

Length Constraints: Minimum length of 1.

Required: No

tableName

The name of the table.

Type: String

Length Constraints: Minimum length of 1.

Required: No

tableOptimizer

A `TableOptimizer` object that contains details on the configuration and last run of a table optimizer.

Type: TableOptimizer object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BatchUpdatePartitionFailureEntry

Contains information about a batch update partition error.

Contents

ErrorDetail

The details about the batch update partition error.

Type: ErrorDetail object

Required: No

PartitionValueList

A list of values defining the partitions.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BatchUpdatePartitionRequestEntry

A structure that contains the values and structure used to update a partition.

Contents

PartitionInput

The structure used to update a partition.

Type: PartitionInput object

Required: Yes

PartitionValueList

A list of values defining the partitions.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BinaryColumnStatisticsData

Defines column statistics supported for bit sequence data values.

Contents

AverageLength

The average bit sequence length in the column.

Type: Double

Valid Range: Minimum value of 0.0.

Required: Yes

MaximumLength

The size of the longest bit sequence in the column.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

NumberOfNulls

The number of null values in the column.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

Blueprint

The details of a blueprint.

Contents

BlueprintLocation

Specifies the path in Amazon S3 where the blueprint is published.

Type: String

Required: No

BlueprintServiceLocation

Specifies a path in Amazon S3 where the blueprint is copied when you call `CreateBlueprint/UpdateBlueprint` to register the blueprint in AWS Glue.

Type: String

Required: No

CreatedOn

The date and time the blueprint was registered.

Type: Timestamp

Required: No

Description

The description of the blueprint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

ErrorMessage

An error message.

Type: String

Required: No

LastActiveDefinition

When there are multiple versions of a blueprint and the latest version has some errors, this attribute indicates the last successful blueprint definition that is available with the service.

Type: LastActiveDefinition object

Required: No

LastModifiedOn

The date and time the blueprint was last modified.

Type: Timestamp

Required: No

Name

The name of the blueprint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: No

ParameterSpec

A JSON string that indicates the list of parameter specifications for the blueprint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Required: No

Status

The status of the blueprint registration.

- Creating — The blueprint registration is in progress.
- Active — The blueprint has been successfully registered.

- Updating — An update to the blueprint registration is in progress.
- Failed — The blueprint registration failed.

Type: String

Valid Values: `CREATING | ACTIVE | UPDATING | FAILED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BlueprintDetails

The details of a blueprint.

Contents

BlueprintName

The name of the blueprint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: No

RunId

The run ID for this blueprint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BlueprintRun

The details of a blueprint run.

Contents

BlueprintName

The name of the blueprint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\.\-_A-Za-z0-9]+`

Required: No

CompletedOn

The date and time that the blueprint run completed.

Type: Timestamp

Required: No

ErrorMessage

Indicates any errors that are seen while running the blueprint.

Type: String

Required: No

Parameters

The blueprint parameters as a string. You will have to provide a value for each key that is required from the parameter spec that is defined in the `Blueprint$ParameterSpec`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Required: No

RoleArn

The role ARN. This role will be assumed by the AWS Glue service and will be used to create the workflow and other entities of a workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `arn:aws[^:]*:iam::[0-9]*:role/.+`

Required: No

RollbackErrorMessage

If there are any errors while creating the entities of a workflow, we try to roll back the created entities until that point and delete them. This attribute indicates the errors seen while trying to delete the entities that are created.

Type: String

Required: No

RunId

The run ID for this blueprint run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

StartedOn

The date and time that the blueprint run started.

Type: Timestamp

Required: No

State

The state of the blueprint run. Possible values are:

- Running — The blueprint run is in progress.
- Succeeded — The blueprint run completed successfully.
- Failed — The blueprint run failed and rollback is complete.
- Rolling Back — The blueprint run failed and rollback is in progress.

Type: String

Valid Values: `RUNNING | SUCCEEDED | FAILED | ROLLING_BACK`

Required: No

WorkflowName

The name of a workflow that is created as a result of a successful blueprint run. If a blueprint run has an error, there will not be a workflow created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BooleanColumnStatisticsData

Defines column statistics supported for Boolean data columns.

Contents

NumberOfFalses

The number of false values in the column.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

NumberOfNulls

The number of null values in the column.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

NumberOfTrues

The number of true values in the column.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

Capabilities

Specifies the supported authentication types returned by the `DescribeConnectionType` API.

Contents

SupportedAuthenticationTypes

A list of supported authentication types.

Type: Array of strings

Valid Values: `BASIC | OAUTH2 | CUSTOM | IAM`

Required: Yes

SupportedComputeEnvironments

A list of supported compute environments.

Type: Array of strings

Valid Values: `SPARK | ATHENA | PYTHON`

Required: Yes

SupportedDataOperations

A list of supported data operations.

Type: Array of strings

Valid Values: `READ | WRITE`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

Catalog

The catalog object represents a logical grouping of databases in the AWS Glue Data Catalog or a federated source. You can now create a Redshift-federated catalog or a catalog containing resource links to Redshift databases in another account or region.

Contents

Name

The name of the catalog. Cannot be the same as the account ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `^(?!(.*[.\/\\]|aws:)).*$`

Required: Yes

AllowFullTableExternalDataAccess

Allows third-party engines to access data in Amazon S3 locations that are registered with Lake Formation.

Type: String

Valid Values: `True | False`

Required: No

CatalogId

The ID of the catalog. To grant access to the default catalog, this field should not be provided.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

CatalogProperties

A `CatalogProperties` object that specifies data lake access properties and other custom properties.

Type: CatalogPropertiesOutput object

Required: No

CreateDatabaseDefaultPermissions

An array of `PrincipalPermissions` objects. Creates a set of default permissions on the database(s) for principals. Used by AWS Lake Formation. Not used in the normal course of AWS Glue operations.

Type: Array of PrincipalPermissions objects

Required: No

CreateTableDefaultPermissions

An array of `PrincipalPermissions` objects. Creates a set of default permissions on the table(s) for principals. Used by AWS Lake Formation. Not used in the normal course of AWS Glue operations.

Type: Array of PrincipalPermissions objects

Required: No

CreateTime

The time at which the catalog was created.

Type: Timestamp

Required: No

Description

Description string, not more than 2048 bytes long, matching the URI address multi-line string pattern. A description of the catalog.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

FederatedCatalog

A `FederatedCatalog` object that points to an entity outside the AWS Glue Data Catalog.

Type: FederatedCatalog object

Required: No

Parameters

A map array of key-value pairs that define parameters and properties of the catalog.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

ResourceArn

The Amazon Resource Name (ARN) assigned to the catalog resource.

Type: String

Required: No

TargetRedshiftCatalog

A `TargetRedshiftCatalog` object that describes a target catalog for database resource linking.

Type: TargetRedshiftCatalog object

Required: No

UpdateTime

The time at which the catalog was last updated.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CatalogDeltaSource

Specifies a Delta Lake data source that is registered in the AWS Glue Data Catalog.

Contents

Database

The name of the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the Delta Lake data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalDeltaOptions

Specifies additional connection options.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

OutputSchemas

Specifies the data schema for the Delta Lake source.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CatalogEntry

Specifies a table definition in the AWS Glue Data Catalog.

Contents

DatabaseName

The database in which the table metadata resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the table in question.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CatalogHudiSource

Specifies a Hudi data source that is registered in the AWS Glue Data Catalog.

Contents

Database

The name of the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the Hudi data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalHudiOptions

Specifies additional connection options.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

OutputSchemas

Specifies the data schema for the Hudi source.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CatalogIcebergSource

Specifies an Apache Iceberg data source that is registered in the AWS Glue Data Catalog.

Contents

Database

The name of the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the Iceberg data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalIcebergOptions

Specifies additional connection options for the Iceberg data source.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

OutputSchemas

Specifies the data schema for the Iceberg source.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CatalogImportStatus

A structure containing migration status information.

Contents

ImportCompleted

`True` if the migration has completed, or `False` otherwise.

Type: Boolean

Required: No

ImportedBy

The name of the person who initiated the migration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ImportTime

The time that the migration was started.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CatalogInput

A structure that describes catalog properties.

Contents

AllowFullTableExternalDataAccess

Allows third-party engines to access data in Amazon S3 locations that are registered with Lake Formation.

Type: String

Valid Values: `True | False`

Required: No

CatalogProperties

A `CatalogProperties` object that specifies data lake access properties and other custom properties.

Type: CatalogProperties object

Required: No

CreateDatabaseDefaultPermissions

An array of `PrincipalPermissions` objects. Creates a set of default permissions on the database(s) for principals. Used by AWS Lake Formation. Typically should be explicitly set as an empty list.

Type: Array of PrincipalPermissions objects

Required: No

CreateTableDefaultPermissions

An array of `PrincipalPermissions` objects. Creates a set of default permissions on the table(s) for principals. Used by AWS Lake Formation. Typically should be explicitly set as an empty list.

Type: Array of PrincipalPermissions objects

Required: No

Description

Description string, not more than 2048 bytes long, matching the URI address multi-line string pattern. A description of the catalog.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

FederatedCatalog

A `FederatedCatalog` object. A `FederatedCatalog` structure that references an entity outside the AWS Glue Data Catalog, for example a Redshift database.

Type: FederatedCatalog object

Required: No

Parameters

A map array of key-value pairs that define the parameters and properties of the catalog.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

TargetRedshiftCatalog

A `TargetRedshiftCatalog` object that describes a target catalog for resource linking.

Type: TargetRedshiftCatalog object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CatalogKafkaSource

Specifies an Apache Kafka data store in the Data Catalog.

Contents

Database

The name of the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the data store.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

DataPreviewOptions

Specifies options related to data preview for viewing a sample of your data.

Type: StreamingDataPreviewOptions object

Required: No

DetectSchema

Whether to automatically determine the schema from the incoming data.

Type: Boolean

Required: No

StreamingOptions

Specifies the streaming options.

Type: KafkaStreamingSourceOptions object

Required: No

WindowSize

The amount of time to spend processing each micro batch.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CatalogKinesisSource

Specifies a Kinesis data source in the AWS Glue Data Catalog.

Contents

Database

The name of the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

DataPreviewOptions

Additional options for data preview.

Type: StreamingDataPreviewOptions object

Required: No

DetectSchema

Whether to automatically determine the schema from the incoming data.

Type: Boolean

Required: No

StreamingOptions

Additional options for the Kinesis streaming data source.

Type: KinesisStreamingSourceOptions object

Required: No

WindowSize

The amount of time to spend processing each micro batch.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CatalogProperties

A structure that specifies data lake access properties and other custom properties.

Contents

CustomProperties

Additional key-value properties for the catalog, such as column statistics optimizations.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

DataLakeAccessProperties

A `DataLakeAccessProperties` object that specifies properties to configure data lake access for your catalog resource in the AWS Glue Data Catalog.

Type: DataLakeAccessProperties object

Required: No

IcebergOptimizationProperties

A structure that specifies Iceberg table optimization properties for the catalog. This includes configuration for compaction, retention, and orphan file deletion operations that can be applied to Iceberg tables in this catalog.

Type: IcebergOptimizationProperties object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CatalogPropertiesOutput

Property attributes that include configuration properties for the catalog resource.

Contents

CustomProperties

Additional key-value properties for the catalog, such as column statistics optimizations.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

DataLakeAccessProperties

A `DataLakeAccessProperties` object with input properties to configure data lake access for your catalog resource in the AWS Glue Data Catalog.

Type: DataLakeAccessPropertiesOutput object

Required: No

IcebergOptimizationProperties

An `IcebergOptimizationPropertiesOutput` object that specifies Iceberg table optimization settings for the catalog, including configurations for compaction, retention, and orphan file deletion operations.

Type: IcebergOptimizationPropertiesOutput object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CatalogSchemaChangePolicy

A policy that specifies update behavior for the crawler.

Contents

EnableUpdateCatalog

Whether to use the specified update behavior when the crawler finds a changed schema.

Type: Boolean

Required: No

UpdateBehavior

The update behavior when the crawler finds a changed schema.

Type: String

Valid Values: `UPDATE_IN_DATABASE | LOG`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CatalogSource

Specifies a data store in the AWS Glue Data Catalog.

Contents

Database

The name of the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the data store.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

OutputSchemas

Specifies the data schema for the catalog source.

Type: Array of GlueSchema objects

Required: No

PartitionPredicate

Partitions satisfying this predicate are deleted. Files within the retention period in these partitions are not deleted.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CatalogTarget

Specifies an AWS Glue Data Catalog target.

Contents

DatabaseName

The name of the database to be synchronized.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Tables

A list of the tables to be synchronized.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

ConnectionName

The name of the connection for an Amazon S3-backed Data Catalog table to be a target of the crawl when using a `Catalog` connection type paired with a `NETWORK` Connection type.

Type: String

Required: No

DlqEventQueueArn

A valid Amazon dead-letter SQS ARN. For example, `arn:aws:sqs:region:account:deadLetterQueue`.

Type: String

Required: No

EventQueueArn

A valid Amazon SQS ARN. For example, `arn:aws:sqs:region:account:sqs`.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Classifier

Classifiers are triggered during a crawl task. A classifier checks whether a given file is in a format it can handle. If it is, the classifier creates a schema in the form of a `StructType` object that matches that data format.

You can use the standard classifiers that AWS Glue provides, or you can write your own classifiers to best categorize your data sources and specify the appropriate schemas to use for them. A classifier can be a `grok` classifier, an `XML` classifier, a `JSON` classifier, or a custom `CSV` classifier, as specified in one of the fields in the `Classifier` object.

Contents

CsvClassifier

A classifier for comma-separated values (CSV).

Type: CsvClassifier object

Required: No

GrokClassifier

A classifier that uses `grok`.

Type: GrokClassifier object

Required: No

JsonClassifier

A classifier for JSON content.

Type: JsonClassifier object

Required: No

XMLClassifier

A classifier for XML content.

Type: XMLClassifier object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ClientCredentialsProperties

OAuth2 client credentials configuration that defines the properties needed for the Client Credentials grant type flow.

Contents

ClientId

The OAuth2 client identifier provided by the authorization server.

Type: ConnectorProperty object

Required: No

ClientSecret

The OAuth2 client secret provided by the authorization server.

Type: ConnectorProperty object

Required: No

ContentType

The content type to use for token requests, such as application/x-www-form-urlencoded or application/json.

Type: String

Valid Values: `APPLICATION_JSON | URL_ENCODED`

Required: No

RequestMethod

The HTTP method to use when making token requests, typically POST.

Type: String

Valid Values: `GET | POST`

Required: No

Scope

The OAuth2 scope that defines the level of access requested for the client credentials flow.

Type: ConnectorProperty object

Required: No

TokenUrl

The token endpoint URL where the client will request access tokens using client credentials.

Type: ConnectorProperty object

Required: No

TokenUrlParameters

Additional parameters to include in token URL requests as key-value pairs.

Type: Array of ConnectorProperty objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CloudWatchEncryption

Specifies how Amazon CloudWatch data should be encrypted.

Contents

CloudWatchEncryptionMode

The encryption mode to use for CloudWatch data.

Type: String

Valid Values: `DISABLED | SSE-KMS`

Required: No

KmsKeyArn

The Amazon Resource Name (ARN) of the KMS key to be used to encrypt the data.

Type: String

Pattern: `^$|arn:aws[a-z0-9-]*:kms:.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodeGenConfigurationNode

`CodeGenConfigurationNode` enumerates all valid Node types. One and only one of its member variables can be populated.

Contents

Aggregate

Specifies a transform that groups rows by chosen fields and computes the aggregated value by specified function.

Type: Aggregate object

Required: No

AmazonRedshiftSource

Specifies a target that writes to a data source in Amazon Redshift.

Type: AmazonRedshiftSource object

Required: No

AmazonRedshiftTarget

Specifies a target that writes to a data target in Amazon Redshift.

Type: AmazonRedshiftTarget object

Required: No

ApplyMapping

Specifies a transform that maps data property keys in the data source to data property keys in the data target. You can rename keys, modify the data types for keys, and choose which keys to drop from the dataset.

Type: ApplyMapping object

Required: No

AthenaConnectorSource

Specifies a connector to an Amazon Athena data source.

Type: AthenaConnectorSource object

Required: No

CatalogDeltaSource

Specifies a Delta Lake data source that is registered in the AWS Glue Data Catalog.

Type: CatalogDeltaSource object

Required: No

CatalogHudiSource

Specifies a Hudi data source that is registered in the AWS Glue Data Catalog.

Type: CatalogHudiSource object

Required: No

CatalogIcebergSource

Specifies an Apache Iceberg data source that is registered in the AWS Glue Data Catalog.

Type: CatalogIcebergSource object

Required: No

CatalogKafkaSource

Specifies an Apache Kafka data store in the Data Catalog.

Type: CatalogKafkaSource object

Required: No

CatalogKinesisSource

Specifies a Kinesis data source in the AWS Glue Data Catalog.

Type: CatalogKinesisSource object

Required: No

CatalogSource

Specifies a data store in the AWS Glue Data Catalog.

Type: CatalogSource object

Required: No

CatalogTarget

Specifies a target that uses a AWS Glue Data Catalog table.

Type: BasicCatalogTarget object

Required: No

ConnectorDataSource

Specifies a source generated with standard connection options.

Type: ConnectorDataSource object

Required: No

ConnectorDataTarget

Specifies a target generated with standard connection options.

Type: ConnectorDataTarget object

Required: No

CustomCode

Specifies a transform that uses custom code you provide to perform the data transformation. The output is a collection of DynamicFrames.

Type: CustomCode object

Required: No

DirectJDBCSource

Specifies the direct JDBC source connection.

Type: DirectJDBCSource object

Required: No

DirectKafkaSource

Specifies an Apache Kafka data store.

Type: DirectKafkaSource object

Required: No

DirectKinesisSource

Specifies a direct Amazon Kinesis data source.

Type: DirectKinesisSource object

Required: No

DropDuplicates

Specifies a transform that removes rows of repeating data from a data set.

Type: DropDuplicates object

Required: No

DropFields

Specifies a transform that chooses the data property keys that you want to drop.

Type: DropFields object

Required: No

DropNullFields

Specifies a transform that removes columns from the dataset if all values in the column are 'null'. By default, AWS Glue Studio will recognize null objects, but some values such as empty strings, strings that are "null", -1 integers or other placeholders such as zeros, are not automatically recognized as nulls.

Type: DropNullFields object

Required: No

DynamicTransform

Specifies a custom visual transform created by a user.

Type: DynamicTransform object

Required: No

DynamoDBCatalogSource

Specifies a DynamoDBC Catalog data store in the AWS Glue Data Catalog.

Type: DynamoDBCatalogSource object

Required: No

DynamoDBELTConnectorSource

Specifies a DynamoDB ELT connector source for extracting data from DynamoDB tables.

Type: DynamoDBELTConnectorSource object

Required: No

EvaluateDataQuality

Specifies your data quality evaluation criteria.

Type: EvaluateDataQuality object

Required: No

EvaluateDataQualityMultiFrame

Specifies your data quality evaluation criteria. Allows multiple input data and returns a collection of Dynamic Frames.

Type: EvaluateDataQualityMultiFrame object

Required: No

FillMissingValues

Specifies a transform that locates records in the dataset that have missing values and adds a new field with a value determined by imputation. The input data set is used to train the machine learning model that determines what the missing value should be.

Type: FillMissingValues object

Required: No

Filter

Specifies a transform that splits a dataset into two, based on a filter condition.

Type: Filter object

Required: No

GovernedCatalogSource

Specifies a data source in a goverened Data Catalog.

Type: GovernedCatalogSource object

Required: No

GovernedCatalogTarget

Specifies a data target that writes to a goverened catalog.

Type: GovernedCatalogTarget object

Required: No

JDBCConnectorSource

Specifies a connector to a JDBC data source.

Type: JDBCConnectorSource object

Required: No

JDBCConnectorTarget

Specifies a data target that writes to Amazon S3 in Apache Parquet columnar storage.

Type: JDBCConnectorTarget object

Required: No

Join

Specifies a transform that joins two datasets into one dataset using a comparison phrase on the specified data property keys. You can use inner, outer, left, right, left semi, and left anti joins.

Type: Join object

Required: No

Merge

Specifies a transform that merges a `DynamicFrame` with a staging `DynamicFrame` based on the specified primary keys to identify records. Duplicate records (records with the same primary keys) are not de-duplicated.

Type: Merge object

Required: No

MicrosoftSQLServerCatalogSource

Specifies a Microsoft SQL server data source in the AWS Glue Data Catalog.

Type: MicrosoftSQLServerCatalogSource object

Required: No

MicrosoftSQLServerCatalogTarget

Specifies a target that uses Microsoft SQL.

Type: MicrosoftSQLServerCatalogTarget object

Required: No

MySQLCatalogSource

Specifies a MySQL data source in the AWS Glue Data Catalog.

Type: MySQLCatalogSource object

Required: No

MySQLCatalogTarget

Specifies a target that uses MySQL.

Type: MySQLCatalogTarget object

Required: No

OracleSQLCatalogSource

Specifies an Oracle data source in the AWS Glue Data Catalog.

Type: OracleSQLCatalogSource object

Required: No

OracleSQLCatalogTarget

Specifies a target that uses Oracle SQL.

Type: OracleSQLCatalogTarget object

Required: No

PIIDetection

Specifies a transform that identifies, removes or masks PII data.

Type: PIIDetection object

Required: No

PostgreSQLCatalogSource

Specifies a PostgresSQL data source in the AWS Glue Data Catalog.

Type: PostgreSQLCatalogSource object

Required: No

PostgreSQLCatalogTarget

Specifies a target that uses Postgres SQL.

Type: PostgreSQLCatalogTarget object

Required: No

Recipe

Specifies a AWS Glue DataBrew recipe node.

Type: Recipe object

Required: No

RedshiftSource

Specifies an Amazon Redshift data store.

Type: RedshiftSource object

Required: No

RedshiftTarget

Specifies a target that uses Amazon Redshift.

Type: RedshiftTarget object

Required: No

RelationalCatalogSource

Specifies a relational catalog data store in the AWS Glue Data Catalog.

Type: RelationalCatalogSource object

Required: No

RenameField

Specifies a transform that renames a single data property key.

Type: RenameField object

Required: No

Route

Specifies a route node that directs data to different output paths based on defined filtering conditions.

Type: Route object

Required: No

S3CatalogDeltaSource

Specifies a Delta Lake data source that is registered in the AWS Glue Data Catalog. The data source must be stored in Amazon S3.

Type: S3CatalogDeltaSource object

Required: No

S3CatalogHudiSource

Specifies a Hudi data source that is registered in the AWS Glue Data Catalog. The data source must be stored in Amazon S3.

Type: S3CatalogHudiSource object

Required: No

S3CatalogIcebergSource

Specifies an Apache Iceberg data source that is registered in the AWS Glue Data Catalog. The Iceberg data source must be stored in Amazon S3.

Type: S3CatalogIcebergSource object

Required: No

S3CatalogSource

Specifies an Amazon S3 data store in the AWS Glue Data Catalog.

Type: S3CatalogSource object

Required: No

S3CatalogTarget

Specifies a data target that writes to Amazon S3 using the AWS Glue Data Catalog.

Type: S3CatalogTarget object

Required: No

S3CsvSource

Specifies a command-separated value (CSV) data store stored in Amazon S3.

Type: S3CsvSource object

Required: No

S3DeltaCatalogTarget

Specifies a target that writes to a Delta Lake data source in the AWS Glue Data Catalog.

Type: S3DeltaCatalogTarget object

Required: No

S3DeltaDirectTarget

Specifies a target that writes to a Delta Lake data source in Amazon S3.

Type: S3DeltaDirectTarget object

Required: No

S3DeltaSource

Specifies a Delta Lake data source stored in Amazon S3.

Type: S3DeltaSource object

Required: No

S3DirectTarget

Specifies a data target that writes to Amazon S3.

Type: S3DirectTarget object

Required: No

S3ExcelSource

Defines configuration parameters for reading Excel files from Amazon S3.

Type: S3ExcelSource object

Required: No

S3GlueParquetTarget

Specifies a data target that writes to Amazon S3 in Apache Parquet columnar storage.

Type: S3GlueParquetTarget object

Required: No

S3HudiCatalogTarget

Specifies a target that writes to a Hudi data source in the AWS Glue Data Catalog.

Type: S3HudiCatalogTarget object

Required: No

S3HudiDirectTarget

Specifies a target that writes to a Hudi data source in Amazon S3.

Type: S3HudiDirectTarget object

Required: No

S3HudiSource

Specifies a Hudi data source stored in Amazon S3.

Type: S3HudiSource object

Required: No

S3HyperDirectTarget

Defines configuration parameters for writing data to Amazon S3 using HyperDirect optimization.

Type: S3HyperDirectTarget object

Required: No

S3IcebergCatalogTarget

Specifies an Apache Iceberg catalog target that writes data to Amazon S3 and registers the table in the AWS Glue Data Catalog.

Type: S3IcebergCatalogTarget object

Required: No

S3IcebergDirectTarget

Defines configuration parameters for writing data to Amazon S3 as an Apache Iceberg table.

Type: S3IcebergDirectTarget object

Required: No

S3JsonSource

Specifies a JSON data store stored in Amazon S3.

Type: S3JsonSource object

Required: No

S3ParquetSource

Specifies an Apache Parquet data store stored in Amazon S3.

Type: S3ParquetSource object

Required: No

SelectFields

Specifies a transform that chooses the data property keys that you want to keep.

Type: SelectFields object

Required: No

SelectFromCollection

Specifies a transform that chooses one `DynamicFrame` from a collection of `DynamicFrames`. The output is the selected `DynamicFrame`

Type: SelectFromCollection object

Required: No

SnowflakeSource

Specifies a Snowflake data source.

Type: SnowflakeSource object

Required: No

SnowflakeTarget

Specifies a target that writes to a Snowflake data source.

Type: SnowflakeTarget object

Required: No

SparkConnectorSource

Specifies a connector to an Apache Spark data source.

Type: SparkConnectorSource object

Required: No

SparkConnectorTarget

Specifies a target that uses an Apache Spark connector.

Type: SparkConnectorTarget object

Required: No

SparkSQL

Specifies a transform where you enter a SQL query using Spark SQL syntax to transform the data. The output is a single `DynamicFrame`.

Type: SparkSQL object

Required: No

Spigot

Specifies a transform that writes samples of the data to an Amazon S3 bucket.

Type: Spigot object

Required: No

SplitFields

Specifies a transform that splits data property keys into two `DynamicFrames`. The output is a collection of `DynamicFrames`: one with selected data property keys, and one with the remaining data property keys.

Type: SplitFields object

Required: No

Union

Specifies a transform that combines the rows from two or more datasets into a single result.

Type: Union object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodeGenEdge

Represents a directional edge in a directed acyclic graph (DAG).

Contents

Source

The ID of the node at which the edge starts.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z_][A-Za-z0-9_]*`

Required: Yes

Target

The ID of the node at which the edge ends.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z_][A-Za-z0-9_]*`

Required: Yes

TargetParameter

The target of the edge.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodeGenNode

Represents a node in a directed acyclic graph (DAG)

Contents

Args

Properties of the node, in the form of name-value pairs.

Type: Array of CodeGenNodeArg objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: Yes

Id

A node identifier that is unique within the node's graph.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z_][A-Za-z0-9_]*`

Required: Yes

NodeType

The type of node that this is.

Type: String

Required: Yes

LineNumber

The line number of the node.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodeGenNodeArg

An argument or property of a node.

Contents

Name

The name of the argument or property.

Type: String

Required: Yes

Value

The value of the argument or property.

Type: String

Required: Yes

Param

True if the value is used as a parameter.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Column

A column in a `Table`.

Contents

Name

The name of the `Column`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Comment

A free-form text comment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Parameters

These key-value pairs define properties associated with the column.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

Type

The data type of the `Column`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 131072.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ColumnError

Encapsulates a column name that failed and the reason for failure.

Contents

ColumnName

The name of the column that failed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Error

An error message with the reason for the failure of an operation.

Type: ErrorDetail object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ColumnImportance

A structure containing the column name and column importance score for a column.

Column importance helps you understand how columns contribute to your model, by identifying which columns in your records are more important than others.

Contents

ColumnName

The name of a column.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Importance

The column importance score for the column, as a decimal.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 1.0.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ColumnRowFilter

A filter that uses both column-level and row-level filtering.

Contents

ColumnName

A string containing the name of the column.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

RowFilterExpression

A string containing the row-level filter expression.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ColumnStatistics

Represents the generated column-level statistics for a table or partition.

Contents

AnalyzedTime

The timestamp of when column statistics were generated.

Type: Timestamp

Required: Yes

ColumnName

Name of column which statistics belong to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

ColumnType

The data type of the column.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

StatisticsData

A `ColumnStatisticData` object that contains the statistics data values.

Type: ColumnStatisticsData object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ColumnStatisticsData

Contains the individual types of column statistics data. Only one data object should be set and indicated by the Type attribute.

Contents

Type

The type of column statistics data.

Type: String

Valid Values: `BOOLEAN | DATE | DECIMAL | DOUBLE | LONG | STRING | BINARY`

Required: Yes

BinaryColumnStatisticsData

Binary column statistics data.

Type: BinaryColumnStatisticsData object

Required: No

BooleanColumnStatisticsData

Boolean column statistics data.

Type: BooleanColumnStatisticsData object

Required: No

DateColumnStatisticsData

Date column statistics data.

Type: DateColumnStatisticsData object

Required: No

DecimalColumnStatisticsData

Decimal column statistics data. UnscaledValues within are Base64-encoded binary objects storing big-endian, two's complement representations of the decimal's unscaled value.

Type: DecimalColumnStatisticsData object

Required: No

DoubleColumnStatisticsData

Double column statistics data.

Type: DoubleColumnStatisticsData object

Required: No

LongColumnStatisticsData

Long column statistics data.

Type: LongColumnStatisticsData object

Required: No

StringColumnStatisticsData

String column statistics data.

Type: StringColumnStatisticsData object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ColumnStatisticsError

Encapsulates a `ColumnStatistics` object that failed and the reason for failure.

Contents

ColumnStatistics

The `ColumnStatistics` of the column.

Type: ColumnStatistics object

Required: No

Error

An error message with the reason for the failure of an operation.

Type: ErrorDetail object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ColumnStatisticsTaskRun

The object that shows the details of the column stats run.

Contents

CatalogID

The ID of the Data Catalog where the table resides. If none is supplied, the AWS account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ColumnNameList

A list of the column names. If none is supplied, all column names for the table will be used by default.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ColumnStatisticsTaskRunId

The identifier for the particular column statistics task run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ComputationType

The type of column statistics computation.

Type: String

Valid Values: `FULL` | `INCREMENTAL`

Required: No

CreationTime

The time that this task was created.

Type: Timestamp

Required: No

CustomerId

The AWS account ID.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 12.

Required: No

DatabaseName

The database where the table resides.

Type: String

Required: No

DPUSeconds

The calculated DPU usage in seconds for all autoscaled workers.

Type: Double

Valid Range: Minimum value of 0.0.

Required: No

EndTime

The end time of the task.

Type: Timestamp

Required: No

ErrorMessage

The error message for the job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

LastUpdated

The last point in time when this task was modified.

Type: Timestamp

Required: No

NumberOfWorkers

The number of workers used to generate column statistics. The job is preconfigured to autoscale up to 25 instances.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

Role

The IAM role that the service assumes to generate statistics.

Type: String

Required: No

SampleSize

The percentage of rows used to generate statistics. If none is supplied, the entire table will be used to generate stats.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

SecurityConfiguration

Name of the security configuration that is used to encrypt CloudWatch logs for the column stats task run.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: No

StartTime

The start time of the task.

Type: Timestamp

Required: No

Status

The status of the task run.

Type: String

Valid Values: `STARTING | RUNNING | SUCCEEDED | FAILED | STOPPED`

Required: No

TableName

The name of the table for which column statistics is generated.

Type: String

Required: No

WorkerType

The type of workers being used for generating stats. The default is `g.1x`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ColumnStatisticsTaskSettings

The settings for a column statistics task.

Contents

CatalogID

The ID of the Data Catalog in which the database resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ColumnNameList

A list of column names for which to run statistics.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the database where the table resides.

Type: String

Required: No

LastExecutionAttempt

The last `ExecutionAttempt` for the column statistics task run.

Type: ExecutionAttempt object

Required: No

Role

The role used for running the column statistics.

Type: String

Required: No

SampleSize

The percentage of data to sample.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

Schedule

A schedule for running the column statistics, specified in CRON syntax.

Type: Schedule object

Required: No

ScheduleType

The type of schedule for a column statistics task. Possible values may be CRON or AUTO.

Type: String

Valid Values: `CRON | AUTO`

Required: No

SecurityConfiguration

Name of the security configuration that is used to encrypt CloudWatch logs.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: No

SettingSource

The source of setting the column statistics task. Possible values may be CATALOG or TABLE.

Type: String

Valid Values: CATALOG | TABLE

Required: No

TableName

The name of the table for which to generate column statistics.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CompactionConfiguration

The configuration for a compaction optimizer. This configuration defines how data files in your table will be compacted to improve query performance and reduce storage costs.

Contents

icebergConfiguration

The configuration for an Iceberg compaction optimizer.

Type: IcebergCompactionConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CompactionMetrics

A structure that contains compaction metrics for the optimizer run.

Contents

IcebergMetrics

A structure containing the Iceberg compaction metrics for the optimizer run.

Type: IcebergCompactionMetrics object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ComputeEnvironmentConfiguration

An object containing configuration for a compute environment (such as Spark, Python or Athena) returned by the `DescribeConnectionType` API.

Contents

ComputeEnvironment

The type of compute environment.

Type: String

Valid Values: `SPARK | ATHENA | PYTHON`

Required: Yes

ConnectionOptionNameOverrides

The connection option name overrides for the compute environment.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

ConnectionOptions

The parameters used as connection options for the compute environment.

Type: String to Property object map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

ConnectionPropertiesRequiredOverrides

The connection properties that are required as overrides for the compute environment.

Type: Array of strings

Required: Yes

ConnectionPropertyNameOverrides

The connection property name overrides for the compute environment.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Description

A description of the compute environment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: Yes

Name

A name for the compute environment configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

SupportedAuthenticationTypes

The supported authentication types for the compute environment.

Type: Array of strings

Valid Values: `BASIC | OAUTH2 | CUSTOM | IAM`

Required: Yes

PhysicalConnectionPropertiesRequired

Indicates whether `PhysicalConnectionProperties` are required for the compute environment.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Condition

Defines a condition under which a trigger fires.

Contents

CrawlerName

The name of the crawler to which this condition applies.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

CrawlState

The state of the crawler to which this condition applies.

Type: String

Valid Values: `RUNNING | CANCELLING | CANCELLED | SUCCEEDED | FAILED | ERROR`

Required: No

JobName

The name of the job whose `JobRuns` this condition applies to, and on which this trigger waits.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

LogicalOperator

A logical operator.

Type: String

Valid Values: EQUALS

Required: No

State

The condition state. Currently, the only job states that a trigger can listen for are SUCCEEDED, STOPPED, FAILED, and TIMEOUT. The only crawler states that a trigger can listen for are SUCCEEDED, FAILED, and CANCELLED.

Type: String

Valid Values: STARTING | RUNNING | STOPPING | STOPPED | SUCCEEDED | FAILED | TIMEOUT | ERROR | WAITING | EXPIRED

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConditionExpression

Condition expression defined in the AWS Glue Studio data preparation recipe node.

Contents

Condition

The condition of the condition expression.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[A-Z\_]+$`

Required: Yes

TargetColumn

The target column of the condition expressions.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

Value

The value of the condition expression.

Type: String

Length Constraints: Maximum length of 1024.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfigurationObject

Specifies the values that an admin sets for each job or session parameter configured in a AWS Glue usage profile.

Contents

AllowedValues

A list of allowed values for the parameter.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_.-]+`

Required: No

DefaultValue

A default value for the parameter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_.-]+`

Required: No

MaxValue

A maximum allowed value for the parameter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_.-]+`

Required: No

MinValue

A minimum allowed value for the parameter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_.-]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfusionMatrix

The confusion matrix shows you what your transform is predicting accurately and what types of errors it is making.

For more information, see Confusion matrix in Wikipedia.

Contents

NumFalseNegatives

The number of matches in the data that the transform didn't find, in the confusion matrix for your transform.

Type: Long

Required: No

NumFalsePositives

The number of nonmatches in the data that the transform incorrectly classified as a match, in the confusion matrix for your transform.

Type: Long

Required: No

NumTrueNegatives

The number of nonmatches in the data that the transform correctly rejected, in the confusion matrix for your transform.

Type: Long

Required: No

NumTruePositives

The number of matches in the data that the transform correctly found, in the confusion matrix for your transform.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Connection

Defines a connection to a data source.

Contents

AthenaProperties

Connection properties specific to the Athena compute environment.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

AuthenticationConfiguration

The authentication properties of the connection.

Type: AuthenticationConfiguration object

Required: No

CompatibleComputeEnvironments

A list of compute environments compatible with the connection.

Type: Array of strings

Valid Values: `SPARK | ATHENA | PYTHON`

Required: No

ConnectionProperties

These key-value pairs define parameters for the connection when using the version 1 Connection schema:

- `HOST` - The host URI: either the fully qualified domain name (FQDN) or the IPv4 address of the database host.

- PORT - The port number, between 1024 and 65535, of the port on which the database host is listening for database connections.
- USER_NAME - The name under which to log in to the database. The value string for USER_NAME is "USERNAME".
- PASSWORD - A password, if one is used, for the user name.
- ENCRYPTED_PASSWORD - When you enable connection password protection by setting ConnectionPasswordEncryption in the Data Catalog encryption settings, this field stores the encrypted password.
- JDBC_DRIVER_JAR_URI - The Amazon Simple Storage Service (Amazon S3) path of the JAR file that contains the JDBC driver to use.
- JDBC_DRIVER_CLASS_NAME - The class name of the JDBC driver to use.
- JDBC_ENGINE - The name of the JDBC engine to use.
- JDBC_ENGINE_VERSION - The version of the JDBC engine to use.
- CONFIG_FILES - (Reserved for future use.)
- INSTANCE_ID - The instance ID to use.
- JDBC_CONNECTION_URL - The URL for connecting to a JDBC data source.
- JDBC_ENFORCE_SSL - A case-insensitive Boolean string (true, false) specifying whether Secure Sockets Layer (SSL) with hostname matching is enforced for the JDBC connection on the client. The default is false.
- CUSTOM_JDBC_CERT - An Amazon S3 location specifying the customer's root certificate. AWS Glue uses this root certificate to validate the customer's certificate when connecting to the customer database. AWS Glue only handles X.509 certificates. The certificate provided must be DER-encoded and supplied in Base64 encoding PEM format.
- SKIP_CUSTOM_JDBC_CERT_VALIDATION - By default, this is false. AWS Glue validates the Signature algorithm and Subject Public Key Algorithm for the customer certificate. The only permitted algorithms for the Signature algorithm are SHA256withRSA, SHA384withRSA or SHA512withRSA. For the Subject Public Key Algorithm, the key length must be at least 2048. You can set the value of this property to true to skip AWS Glue's validation of the customer certificate.
- CUSTOM_JDBC_CERT_STRING - A custom JDBC certificate string which is used for domain match or distinguished name match to prevent a man-in-the-middle attack. In Oracle database, this is used as the SSL_SERVER_CERT_DN; in Microsoft SQL Server, this is used as the hostNameInCertificate.

- CONNECTION_URL - The URL for connecting to a general (non-JDBC) data source.
- SECRET_ID - The secret ID used for the secret manager of credentials.
- CONNECTOR_URL - The connector URL for a MARKETPLACE or CUSTOM connection.
- CONNECTOR_TYPE - The connector type for a MARKETPLACE or CUSTOM connection.
- CONNECTOR_CLASS_NAME - The connector class name for a MARKETPLACE or CUSTOM connection.
- KAFKA_BOOTSTRAP_SERVERS - A comma-separated list of host and port pairs that are the addresses of the Apache Kafka brokers in a Kafka cluster to which a Kafka client will connect to and bootstrap itself.
- KAFKA_SSL_ENABLED - Whether to enable or disable SSL on an Apache Kafka connection. Default value is "true".
- KAFKA_CUSTOM_CERT - The Amazon S3 URL for the private CA cert file (.pem format). The default is an empty string.
- KAFKA_SKIP_CUSTOM_CERT_VALIDATION - Whether to skip the validation of the CA cert file or not. AWS Glue validates for three algorithms: SHA256withRSA, SHA384withRSA and SHA512withRSA. Default value is "false".
- KAFKA_CLIENT_KEYSTORE - The Amazon S3 location of the client keystore file for Kafka client side authentication (Optional).
- KAFKA_CLIENT_KEYSTORE_PASSWORD - The password to access the provided keystore (Optional).
- KAFKA_CLIENT_KEY_PASSWORD - A keystore can consist of multiple keys, so this is the password to access the client key to be used with the Kafka server side key (Optional).
- ENCRYPTED_KAFKA_CLIENT_KEYSTORE_PASSWORD - The encrypted version of the Kafka client keystore password (if the user has the AWS Glue encrypt passwords setting selected).
- ENCRYPTED_KAFKA_CLIENT_KEY_PASSWORD - The encrypted version of the Kafka client key password (if the user has the AWS Glue encrypt passwords setting selected).
- KAFKA_SASL_MECHANISM - "SCRAM-SHA-512", "GSSAPI", "AWS_MSK_IAM", or "PLAIN". These are the supported SASL Mechanisms.
- KAFKA_SASL_PLAIN_USERNAME - A plaintext username used to authenticate with the "PLAIN" mechanism.
- KAFKA_SASL_PLAIN_PASSWORD - A plaintext password used to authenticate with the "PLAIN" mechanism.

- ENCRYPTED_KAFKA_SASL_PLAIN_PASSWORD - The encrypted version of the Kafka SASL PLAIN password (if the user has the AWS Glue encrypt passwords setting selected).
- KAFKA_SASL_SCRAM_USERNAME - A plaintext username used to authenticate with the "SCRAM-SHA-512" mechanism.
- KAFKA_SASL_SCRAM_PASSWORD - A plaintext password used to authenticate with the "SCRAM-SHA-512" mechanism.
- ENCRYPTED_KAFKA_SASL_SCRAM_PASSWORD - The encrypted version of the Kafka SASL SCRAM password (if the user has the AWS Glue encrypt passwords setting selected).
- KAFKA_SASL_SCRAM_SECRETS_ARN - The Amazon Resource Name of a secret in AWS Secrets Manager.
- KAFKA_SASL_GSSAPI_KEYTAB - The S3 location of a Kerberos `keytab` file. A keytab stores long-term keys for one or more principals. For more information, see MIT Kerberos Documentation: Keytab.
- KAFKA_SASL_GSSAPI_KRB5_CONF - The S3 location of a Kerberos `krb5.conf` file. A krb5.conf stores Kerberos configuration information, such as the location of the KDC server. For more information, see MIT Kerberos Documentation: krb5.conf.
- KAFKA_SASL_GSSAPI_SERVICE - The Kerberos service name, as set with `sasl.kerberos.service.name` in your Kafka Configuration.
- KAFKA_SASL_GSSAPI_PRINCIPAL - The name of the Kerberos princial used by AWS Glue. For more information, see Kafka Documentation: Configuring Kafka Brokers.
- ROLE_ARN - The role to be used for running queries.
- REGION - The AWS Region where queries will be run.
- WORKGROUP_NAME - The name of an Amazon Redshift serverless workgroup or Amazon Athena workgroup in which queries will run.
- CLUSTER_IDENTIFIER - The cluster identifier of an Amazon Redshift cluster in which queries will run.
- DATABASE - The Amazon Redshift database that you are connecting to.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 100 items.

Valid Keys: `HOST | PORT | USERNAME | PASSWORD | ENCRYPTED_PASSWORD | JDBC_DRIVER_JAR_URI | JDBC_DRIVER_CLASS_NAME | JDBC_ENGINE | JDBC_ENGINE_VERSION | CONFIG_FILES | INSTANCE_ID |`

JDBC_CONNECTION_URL | JDBC_ENFORCE_SSL | CUSTOM_JDBC_CERT | SKIP_CUSTOM_JDBC_CERT_VALIDATION | CUSTOM_JDBC_CERT_STRING | CONNECTION_URL | KAFKA_BOOTSTRAP_SERVERS | KAFKA_SSL_ENABLED | KAFKA_CUSTOM_CERT | KAFKA_SKIP_CUSTOM_CERT_VALIDATION | KAFKA_CLIENT_KEYSTORE | KAFKA_CLIENT_KEYSTORE_PASSWORD | KAFKA_CLIENT_KEY_PASSWORD | ENCRYPTED_KAFKA_CLIENT_KEYSTORE_PASSWORD | ENCRYPTED_KAFKA_CLIENT_KEY_PASSWORD | KAFKA_SASL_MECHANISM | KAFKA_SASL_PLAIN_USERNAME | KAFKA_SASL_PLAIN_PASSWORD | ENCRYPTED_KAFKA_SASL_PLAIN_PASSWORD | KAFKA_SASL_SCRAM_USERNAME | KAFKA_SASL_SCRAM_PASSWORD | KAFKA_SASL_SCRAM_SECRETS_ARN | ENCRYPTED_KAFKA_SASL_SCRAM_PASSWORD | KAFKA_SASL_GSSAPI_KEYTAB | KAFKA_SASL_GSSAPI_KRB5_CONF | KAFKA_SASL_GSSAPI_SERVICE | KAFKA_SASL_GSSAPI_PRINCIPAL | SECRET_ID | CONNECTOR_URL | CONNECTOR_TYPE | CONNECTOR_CLASS_NAME | ENDPOINT | ENDPOINT_TYPE | ROLE_ARN | REGION | WORKGROUP_NAME | CLUSTER_IDENTIFIER | DATABASE

Value Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

ConnectionSchemaVersion

The version of the connection schema for this connection. Version 2 supports properties for specific compute environments.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 2.

Required: No

ConnectionType

The type of the connection. Currently, SFTP is not supported.

Type: String

Valid Values: JDBC | SFTP | MONGODB | KAFKA | NETWORK | MARKETPLACE | CUSTOM | SALESFORCE | VIEW_VALIDATION_REDSHIFT | VIEW_VALIDATION_ATHENA | GOOGLEADS | GOOGLESHEETS | GOOGLEANALYTICS4 | SERVICENOW | MARKETO | SAPODATA | ZENDESK | JIRACLOUD | NETSUITEERP | HUBSPOT | FACEBOOKADS

| INSTAGRAMADS | ZOHOCRM | SALESFORCEPARDOT | SALESFORCEMARKETINGCLOUD | ADOBEANALYTICS | SLACK | LINKEDIN | MIXPANEL | ASANA | STRIPE | SMARTSHEET | DATADOG | WOOCOMMERCE | INTERCOM | SNAPCHATADS | PAYPAL | QUICKBOOKS | FACEBOOKPAGEINSIGHTS | FRESHDESK | TWILIO | DOCUSIGNMONITOR | FRESHSALES | ZOOM | GOOGLESEARCHCONSOLE | SALESFORCECOMMERCECLOUD | SAPCONCUR | DYNATRACE | MICROSOFTDYNAMIC365FINANCEANDOPS | MICROSOFTTEAMS | BLACKBAUDRAISEREDGENXT | MAILCHIMP | GITLAB | PENDO | PRODUCTBOARD | CIRCLECI | PIPEDIVE | SENDGRID | AZURECOSMOS | AZURESQL | BIGQUERY | BLACKBAUD | CLOUDERAHIVE | CLOUDERAIMPALA | CLOUDWATCH | CLOUDWATCHMETRICS | CMDB | DATALAKEGEN2 | DB2 | DB2AS400 | DOCUMENTDB | DOMO | DYNAMODB | GOOGLECLOUDSTORAGE | HBASE | KUSTOMER | MICROSOFTDYNAMICS365CRM | MONDAY | MYSQL | OKTA | OPENSEARCH | ORACLE | PIPEDRIVE | POSTGRESQL | SAPHANA | SQLSERVER | SYNAPSE | TERADATA | TERADATANOS | TIMESTREAM | TPCDS | VERTICA

Required: No

CreationTime

The timestamp of the time that this connection definition was created.

Type: Timestamp

Required: No

Description

The description of the connection.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*

Required: No

LastConnectionValidationTime

A timestamp of the time this connection was last validated.

Type: Timestamp

Required: No

LastUpdatedBy

The user, group, or role that last updated this connection definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

LastUpdatedTime

The timestamp of the last time the connection definition was updated.

Type: Timestamp

Required: No

MatchCriteria

A list of criteria that can be used in selecting this connection.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Name

The name of the connection definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

PhysicalConnectionRequirements

The physical connection requirements, such as virtual private cloud (VPC) and `SecurityGroup`, that are needed to make this connection successfully.

Type: PhysicalConnectionRequirements object

Required: No

PythonProperties

Connection properties specific to the Python compute environment.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

SparkProperties

Connection properties specific to the Spark compute environment.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

Status

The status of the connection. Can be one of: `READY`, `IN_PROGRESS`, or `FAILED`.

Type: String

Valid Values: `READY | IN_PROGRESS | FAILED`

Required: No

StatusReason

The reason for the connection status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16384.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectionInput

A structure that is used to specify a connection to create or update.

Contents

ConnectionProperties

These key-value pairs define parameters for the connection.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 100 items.

Valid Keys: `HOST | PORT | USERNAME | PASSWORD | ENCRYPTED_PASSWORD | JDBC_DRIVER_JAR_URI | JDBC_DRIVER_CLASS_NAME | JDBC_ENGINE | JDBC_ENGINE_VERSION | CONFIG_FILES | INSTANCE_ID | JDBC_CONNECTION_URL | JDBC_ENFORCE_SSL | CUSTOM_JDBC_CERT | SKIP_CUSTOM_JDBC_CERT_VALIDATION | CUSTOM_JDBC_CERT_STRING | CONNECTION_URL | KAFKA_BOOTSTRAP_SERVERS | KAFKA_SSL_ENABLED | KAFKA_CUSTOM_CERT | KAFKA_SKIP_CUSTOM_CERT_VALIDATION | KAFKA_CLIENT_KEYSTORE | KAFKA_CLIENT_KEYSTORE_PASSWORD | KAFKA_CLIENT_KEY_PASSWORD | ENCRYPTED_KAFKA_CLIENT_KEYSTORE_PASSWORD | ENCRYPTED_KAFKA_CLIENT_KEY_PASSWORD | KAFKA_SASL_MECHANISM | KAFKA_SASL_PLAIN_USERNAME | KAFKA_SASL_PLAIN_PASSWORD | ENCRYPTED_KAFKA_SASL_PLAIN_PASSWORD | KAFKA_SASL_SCRAM_USERNAME | KAFKA_SASL_SCRAM_PASSWORD | KAFKA_SASL_SCRAM_SECRETS_ARN | ENCRYPTED_KAFKA_SASL_SCRAM_PASSWORD | KAFKA_SASL_GSSAPI_KEYTAB | KAFKA_SASL_GSSAPI_KRB5_CONF | KAFKA_SASL_GSSAPI_SERVICE | KAFKA_SASL_GSSAPI_PRINCIPAL | SECRET_ID | CONNECTOR_URL | CONNECTOR_TYPE | CONNECTOR_CLASS_NAME | ENDPOINT | ENDPOINT_TYPE | ROLE_ARN | REGION | WORKGROUP_NAME | CLUSTER_IDENTIFIER | DATABASE`

Value Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

ConnectionType

The type of the connection. Currently, these types are supported:

- JDBC - Designates a connection to a database through Java Database Connectivity (JDBC).

  JDBC Connections use the following ConnectionParameters.

  - Required: All of (HOST, PORT, JDBC_ENGINE) or JDBC_CONNECTION_URL.
  - Required: All of (USERNAME, PASSWORD) or SECRET_ID.
  - Optional: JDBC_ENFORCE_SSL, CUSTOM_JDBC_CERT, CUSTOM_JDBC_CERT_STRING, SKIP_CUSTOM_JDBC_CERT_VALIDATION. These parameters are used to configure SSL with JDBC.
- KAFKA - Designates a connection to an Apache Kafka streaming platform.

  KAFKA Connections use the following ConnectionParameters.

  - Required: KAFKA_BOOTSTRAP_SERVERS.
  - Optional: KAFKA_SSL_ENABLED, KAFKA_CUSTOM_CERT, KAFKA_SKIP_CUSTOM_CERT_VALIDATION. These parameters are used to configure SSL with KAFKA.
  - Optional: KAFKA_CLIENT_KEYSTORE, KAFKA_CLIENT_KEYSTORE_PASSWORD, KAFKA_CLIENT_KEY_PASSWORD, ENCRYPTED_KAFKA_CLIENT_KEYSTORE_PASSWORD, ENCRYPTED_KAFKA_CLIENT_KEY_PASSWORD. These parameters are used to configure TLS client configuration with SSL in KAFKA.
  - Optional: KAFKA_SASL_MECHANISM. Can be specified as SCRAM-SHA-512, GSSAPI, or AWS_MSK_IAM.
  - Optional: KAFKA_SASL_SCRAM_USERNAME, KAFKA_SASL_SCRAM_PASSWORD, ENCRYPTED_KAFKA_SASL_SCRAM_PASSWORD. These parameters are used to configure SASL/SCRAM-SHA-512 authentication with KAFKA.
  - Optional: KAFKA_SASL_GSSAPI_KEYTAB, KAFKA_SASL_GSSAPI_KRB5_CONF, KAFKA_SASL_GSSAPI_SERVICE, KAFKA_SASL_GSSAPI_PRINCIPAL. These parameters are used to configure SASL/GSSAPI authentication with KAFKA.
- MONGODB - Designates a connection to a MongoDB document database.

  MONGODB Connections use the following ConnectionParameters.

  - Required: CONNECTION_URL.
  - Required: All of (USERNAME, PASSWORD) or SECRET_ID.
- VIEW_VALIDATION_REDSHIFT - Designates a connection used for view validation by Amazon Redshift.

- VIEW_VALIDATION_ATHENA - Designates a connection used for view validation by Amazon Athena.
- NETWORK - Designates a network connection to a data source within an Amazon Virtual Private Cloud environment (Amazon VPC).

  NETWORK Connections do not require ConnectionParameters. Instead, provide a PhysicalConnectionRequirements.
- MARKETPLACE - Uses configuration settings contained in a connector purchased from AWS Marketplace to read from and write to data stores that are not natively supported by AWS Glue.

  MARKETPLACE Connections use the following ConnectionParameters.
  - Required: CONNECTOR_TYPE, CONNECTOR_URL, CONNECTOR_CLASS_NAME, CONNECTION_URL.
  - Required for JDBC CONNECTOR_TYPE connections: All of (USERNAME, PASSWORD) or SECRET_ID.
- CUSTOM - Uses configuration settings contained in a custom connector to read from and write to data stores that are not natively supported by AWS Glue.

For more information on the connection parameters needed for a particular connector, see the documentation for the connector in Adding an AWS Glue connectionin the AWS Glue User Guide.

SFTP is not supported.

For more information about how optional ConnectionProperties are used to configure features in AWS Glue, consult AWS Glue connection properties.

For more information about how optional ConnectionProperties are used to configure features in AWS Glue Studio, consult Using connectors and connections.

Type: String

Valid Values: JDBC | SFTP | MONGODB | KAFKA | NETWORK | MARKETPLACE | CUSTOM | SALESFORCE | VIEW_VALIDATION_REDSHIFT | VIEW_VALIDATION_ATHENA | GOOGLEADS | GOOGLESHEETS | GOOGLEANALYTICS4 | SERVICENOW | MARKETO | SAPODATA | ZENDESK | JIRACLOUD | NETSUITEERP | HUBSPOT | FACEBOOKADS | INSTAGRAMADS | ZOHOCRM | SALESFORCEPARDOT | SALESFORCEMARKETINGCLOUD

| ADOBEANALYTICS | SLACK | LINKEDIN | MIXPANEL | ASANA | STRIPE | SMARTSHEET | DATADOG | WOOCOMMERCE | INTERCOM | SNAPCHATADS | PAYPAL | QUICKBOOKS | FACEBOOKPAGEINSIGHTS | FRESHDESK | TWILIO | DOCUSIGNMONITOR | FRESHSALES | ZOOM | GOOGLESEARCHCONSOLE | SALESFORCECOMMERCECLOUD | SAPCONCUR | DYNATRACE | MICROSOFTDYNAMIC365FINANCEANDOPS | MICROSOFTTEAMS | BLACKBAUDRAISEREDGENXT | MAILCHIMP | GITLAB | PENDO | PRODUCTBOARD | CIRCLECI | PIPEDIVE | SENDGRID | AZURECOSMOS | AZURESQL | BIGQUERY | BLACKBAUD | CLOUDERAHIVE | CLOUDERAIMPALA | CLOUDWATCH | CLOUDWATCHMETRICS | CMDB | DATALAKEGEN2 | DB2 | DB2AS400 | DOCUMENTDB | DOMO | DYNAMODB | GOOGLECLOUDSTORAGE | HBASE | KUSTOMER | MICROSOFTDYNAMICS365CRM | MONDAY | MYSQL | OKTA | OPENSEARCH | ORACLE | PIPEDRIVE | POSTGRESQL | SAPHANA | SQLSERVER | SYNAPSE | TERADATA | TERADATANOS | TIMESTREAM | TPCDS | VERTICA

Required: Yes

Name

The name of the connection.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

AthenaProperties

Connection properties specific to the Athena compute environment.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

AuthenticationConfiguration

The authentication properties of the connection.

Type: AuthenticationConfigurationInput object

Required: No

Description

The description of the connection.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

MatchCriteria

A list of criteria that can be used in selecting this connection.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

PhysicalConnectionRequirements

The physical connection requirements, such as virtual private cloud (VPC) and `SecurityGroup`, that are needed to successfully make this connection.

Type: PhysicalConnectionRequirements object

Required: No

PythonProperties

Connection properties specific to the Python compute environment.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

SparkProperties

Connection properties specific to the Spark compute environment.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

ValidateCredentials

A flag to validate the credentials during create connection. Default is true.

Type: Boolean

Required: No

ValidateForComputeEnvironments

The compute environments that the specified connection properties are validated against.

Type: Array of strings

Valid Values: `SPARK | ATHENA | PYTHON`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectionPasswordEncryption

The data structure used by the Data Catalog to encrypt the password as part of `CreateConnection` or `UpdateConnection` and store it in the `ENCRYPTED_PASSWORD` field in the connection properties. You can enable catalog encryption or only password encryption.

When a `CreationConnection` request arrives containing a password, the Data Catalog first encrypts the password using your AWS KMS key. It then encrypts the whole connection object again if catalog encryption is also enabled.

This encryption requires that you set AWS KMS key permissions to enable or restrict access on the password key according to your security requirements. For example, you might want only administrators to have decrypt permission on the password key.

Contents

ReturnConnectionPasswordEncrypted

When the `ReturnConnectionPasswordEncrypted` flag is set to "true", passwords remain encrypted in the responses of `GetConnection` and `GetConnections`. This encryption takes effect independently from catalog encryption.

Type: Boolean

Required: Yes

AwsKmsKeyId

An AWS KMS key that is used to encrypt the connection password.

If connection password protection is enabled, the caller of `CreateConnection` and `UpdateConnection` needs at least `kms:Encrypt` permission on the specified AWS KMS key, to encrypt passwords before storing them in the Data Catalog.

You can set the decrypt permission to enable or restrict access on the password key according to your security requirements.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectionPropertiesConfiguration

Configuration that defines the base URL and additional request parameters needed during connection creation.

Contents

AdditionalRequestParameters

Key-value pairs of additional request parameters that may be needed during connection creation, such as API versions or service-specific configuration options.

Type: Array of ConnectorProperty objects

Required: No

Url

The base instance URL for the endpoint that this connection type will connect to.

Type: ConnectorProperty object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectionsList

Specifies the connections used by a job.

Contents

Connections

A list of connections used by the job.

Type: Array of strings

Array Members: Maximum number of 1000 items.

Length Constraints: Maximum length of 255.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectionTypeBrief

Brief information about a supported connection type returned by the `ListConnectionTypes` API.

Contents

Capabilities

The supported authentication types, data interface types (compute environments), and data operations of the connector.

Type: Capabilities object

Required: No

Categories

A list of categories that this connection type belongs to. Categories help users filter and find appropriate connection types based on their use cases.

Type: Array of strings

Required: No

ConnectionType

The name of the connection type.

Type: String

Valid Values: `JDBC | SFTP | MONGODB | KAFKA | NETWORK | MARKETPLACE | CUSTOM | SALESFORCE | VIEW_VALIDATION_REDSHIFT | VIEW_VALIDATION_ATHENA | GOOGLEADS | GOOGLESHEETS | GOOGLEANALYTICS4 | SERVICENOW | MARKETO | SAPODATA | ZENDESK | JIRACLOUD | NETSUITEERP | HUBSPOT | FACEBOOKADS | INSTAGRAMADS | ZOHOCRM | SALESFORCEPARDOT | SALESFORCEMARKETINGCLOUD | ADOBEANALYTICS | SLACK | LINKEDIN | MIXPANEL | ASANA | STRIPE | SMARTSHEET | DATADOG | WOOCOMMERCE | INTERCOM | SNAPCHATADS | PAYPAL | QUICKBOOKS | FACEBOOKPAGEINSIGHTS | FRESHDESK | TWILIO | DOCUSIGNMONITOR | FRESHSALES | ZOOM | GOOGLESEARCHCONSOLE | SALESFORCECOMMERCECLOUD | SAPCONCUR | DYNATRACE | MICROSOFTDYNAMIC365FINANCEANDOPS | MICROSOFTTEAMS | BLACKBAUDRAISEREDGENXT | MAILCHIMP | GITLAB | PENDO`

| PRODUCTBOARD | CIRCLECI | PIPEDIVE | SENDGRID | AZURECOSMOS | AZURESQL | BIGQUERY | BLACKBAUD | CLOUDERAHIVE | CLOUDERAIMPALA | CLOUDWATCH | CLOUDWATCHMETRICS | CMDB | DATALAKEGEN2 | DB2 | DB2AS400 | DOCUMENTDB | DOMO | DYNAMODB | GOOGLECLOUDSTORAGE | HBASE | KUSTOMER | MICROSOFTDYNAMICS365CRM | MONDAY | MYSQL | OKTA | OPENSEARCH | ORACLE | PIPEDRIVE | POSTGRESQL | SAPHANA | SQLSERVER | SYNAPSE | TERADATA | TERADATANOS | TIMESTREAM | TPCDS | VERTICA

Required: No

ConnectionTypeVariants

A list of variants available for this connection type. Different variants may provide specialized configurations for specific use cases or implementations of the same general connection type.

Type: Array of ConnectionTypeVariant objects

Required: No

Description

A description of the connection type.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

DisplayName

The human-readable name for the connection type that is displayed in the AWS Glue console.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

LogoUrl

The URL of the logo associated with a connection type.

Type: String

Required: No

Vendor

The name of the vendor or provider that created or maintains this connection type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectionTypeVariant

Represents a variant of a connection type in AWS Glue. Connection type variants provide specific configurations and behaviors for different implementations of the same general connection type.

Contents

ConnectionTypeVariantName

The unique identifier for the connection type variant. This name is used internally to identify the specific variant of a connection type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

Description

A detailed description of the connection type variant, including its purpose, use cases, and any specific configuration requirements.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

DisplayName

The human-readable name for the connection type variant that is displayed in the AWS Glue console.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

LogoUrl

The URL of the logo associated with a connection type variant.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectorAuthenticationConfiguration

Configuration that defines the supported authentication types and required properties for the connection type.

Contents

AuthenticationTypes

A list of authentication types supported by this connection type, such as Basic, OAuth2, or Custom authentication methods.

Type: Array of strings

Valid Values: `BASIC | OAUTH2 | CUSTOM | IAM`

Required: Yes

BasicAuthenticationProperties

Basic authentication configuration that defines the username and password properties for HTTP Basic authentication.

Type: BasicAuthenticationProperties object

Required: No

CustomAuthenticationProperties

Custom authentication configuration that allows for flexible authentication mechanisms beyond standard Basic and OAuth2 flows.

Type: CustomAuthenticationProperties object

Required: No

OAuth2Properties

OAuth2 configuration container that defines the authentication properties and flow-specific configurations for OAuth2-based connections.

Type: ConnectorOAuth2Properties object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectorAuthorizationCodeProperties

OAuth2 authorization code configuration that defines the properties needed for the Authorization Code grant type flow.

Contents

AuthorizationCode

The authorization code received from the authorization server after user consent.

Type: ConnectorProperty object

Required: No

AuthorizationCodeUrl

The authorization endpoint URL where users will be redirected to grant authorization.

Type: ConnectorProperty object

Required: No

ClientId

The OAuth2 client identifier provided by the authorization server.

Type: ConnectorProperty object

Required: No

ClientSecret

The OAuth2 client secret provided by the authorization server.

Type: ConnectorProperty object

Required: No

ContentType

The content type to use for token exchange requests, such as application/x-www-form-urlencoded or application/json.

Type: String

Valid Values: `APPLICATION_JSON | URL_ENCODED`

Required: No

Prompt

The OAuth2 prompt parameter that controls the authorization server's behavior during user authentication.

Type: ConnectorProperty object

Required: No

RedirectUri

The redirect URI that must match the URI registered with the authorization server.

Type: ConnectorProperty object

Required: No

RequestMethod

The HTTP method to use when making token exchange requests, typically POST.

Type: String

Valid Values: `GET | POST`

Required: No

Scope

The OAuth2 scope that defines the level of access requested for the authorization code flow.

Type: ConnectorProperty object

Required: No

TokenUrl

The token endpoint URL where the authorization code will be exchanged for an access token.

Type: ConnectorProperty object

Required: No

TokenUrlParameters

Additional parameters to include in token URL requests as key-value pairs.

Type: Array of ConnectorProperty objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectorDataSource

Specifies a source generated with standard connection options.

Contents

ConnectionType

The `connectionType`, as provided to the underlying AWS Glue library. This node type supports the following connection types:

- `opensearch`
- `azuresql`
- `azurecosmos`
- `bigquery`
- `saphana`
- `teradata`
- `vertica`

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Data

A map specifying connection options for the node. You can find standard connection options for the corresponding connection type in the Connection parameters section of the AWS Glue documentation.

Type: String to string map

Required: Yes

Name

The name of this source node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

OutputSchemas

Specifies the data schema for this source.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectorDataTarget

Specifies a target generated with standard connection options.

Contents

ConnectionType

The `connectionType`, as provided to the underlying AWS Glue library. This node type supports the following connection types:

- `opensearch`
- `azuresql`
- `azurecosmos`
- `bigquery`
- `saphana`
- `teradata`
- `vertica`

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Data

A map specifying connection options for the node. You can find standard connection options for the corresponding connection type in the Connection parameters section of the AWS Glue documentation.

Type: String to string map

Required: Yes

Name

The name of this target node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectorOAuth2Properties

OAuth2 configuration container that defines the authentication properties and flow-specific configurations for OAuth2-based connections.

Contents

OAuth2GrantType

The OAuth2 grant type to use for authentication, such as CLIENT_CREDENTIALS, JWT_BEARER, or AUTHORIZATION_CODE.

Type: String

Valid Values: `CLIENT_CREDENTIALS | JWT_BEARER | AUTHORIZATION_CODE`

Required: Yes

AuthorizationCodeProperties

Configuration properties specific to the OAuth2 Authorization Code grant type flow.

Type: ConnectorAuthorizationCodeProperties object

Required: No

ClientCredentialsProperties

Configuration properties specific to the OAuth2 Client Credentials grant type flow.

Type: ClientCredentialsProperties object

Required: No

JWTBearerProperties

Configuration properties specific to the OAuth2 JWT Bearer grant type flow.

Type: JWTBearerProperties object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectorProperty

Defines a property configuration for connection types, default values, and where the property should be used in requests.

Contents

Name

The name of the property.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

PropertyType

The data type of this property

Type: String

Valid Values: `USER_INPUT | SECRET | READ_ONLY | UNUSED | SECRET_OR_USER_INPUT`

Required: Yes

Required

Indicates whether the property is required.

Type: Boolean

Required: Yes

AllowedValues

A list of `AllowedValue` objects representing the values allowed for the property.

Type: Array of strings

Required: No

DefaultValue

The default value for the property.

Type: String

Required: No

KeyOverride

A key name to use when sending this property in API requests, if different from the display name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_-]+`

Required: No

PropertyLocation

Specifies where this property should be included in REST requests, such as in headers, query parameters, or request body.

Type: String

Valid Values: `HEADER | BODY | QUERY_PARAM | PATH`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Crawl

The details of a crawl in the workflow.

Contents

CompletedOn

The date and time on which the crawl completed.

Type: Timestamp

Required: No

ErrorMessage

The error message associated with the crawl.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

LogGroup

The log group associated with the crawl.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `[\.\-_/#A-Za-z0-9]+`

Required: No

LogStream

The log stream associated with the crawl.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `[^:*]*`

Required: No

StartedOn

The date and time on which the crawl started.

Type: Timestamp

Required: No

State

The state of the crawler.

Type: String

Valid Values: `RUNNING | CANCELLING | CANCELLED | SUCCEEDED | FAILED | ERROR`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Crawler

Specifies a crawler program that examines a data source and uses classifiers to try to determine its schema. If successful, the crawler records metadata concerning the data source in the AWS Glue Data Catalog.

Contents

Classifiers

A list of UTF-8 strings that specify the custom classifiers that are associated with the crawler.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Configuration

Crawler configuration information. This versioned JSON string allows users to specify aspects of a crawler's behavior. For more information, see Setting crawler configuration options.

Type: String

Required: No

CrawlElapsedTime

If the crawler is running, contains the total time elapsed since the last crawl began.

Type: Long

Required: No

CrawlerSecurityConfiguration

The name of the `SecurityConfiguration` structure to be used by this crawler.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: No

CreationTime

The time that the crawler was created.

Type: Timestamp

Required: No

DatabaseName

The name of the database in which the crawler's output is stored.

Type: String

Required: No

Description

A description of the crawler.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

LakeFormationConfiguration

Specifies whether the crawler should use AWS Lake Formation credentials for the crawler instead of the IAM role credentials.

Type: LakeFormationConfiguration object

Required: No

LastCrawl

The status of the last crawl, and potentially error information if an error occurred.

Type: LastCrawlInfo object

Required: No

LastUpdated

The time that the crawler was last updated.

Type: Timestamp

Required: No

LineageConfiguration

A configuration that specifies whether data lineage is enabled for the crawler.

Type: LineageConfiguration object

Required: No

Name

The name of the crawler.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

RecrawlPolicy

A policy that specifies whether to crawl the entire dataset again, or to crawl only folders that were added since the last crawler run.

Type: RecrawlPolicy object

Required: No

Role

The Amazon Resource Name (ARN) of an IAM role that's used to access customer resources, such as Amazon Simple Storage Service (Amazon S3) data.

Type: String

Required: No

Schedule

For scheduled crawlers, the schedule when the crawler runs.

Type: Schedule object

Required: No

SchemaChangePolicy

The policy that specifies update and delete behaviors for the crawler.

Type: SchemaChangePolicy object

Required: No

State

Indicates whether the crawler is running, or whether a run is pending.

Type: String

Valid Values: `READY | RUNNING | STOPPING`

Required: No

TablePrefix

The prefix added to the names of tables that are created.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: No

Targets

A collection of targets to crawl.

Type: CrawlerTargets object

Required: No

Version

The version of the crawler.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CrawlerHistory

Contains the information for a run of a crawler.

Contents

CrawlId

A UUID identifier for each crawl.

Type: String

Required: No

DPUHour

The number of data processing units (DPU) used in hours for the crawl.

Type: Double

Valid Range: Minimum value of 0.0.

Required: No

EndTime

The date and time on which the crawl ended.

Type: Timestamp

Required: No

ErrorMessage

If an error occurred, the error message associated with the crawl.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

LogGroup

The log group associated with the crawl.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `[\.\-_/#A-Za-z0-9]+`

Required: No

LogStream

The log stream associated with the crawl.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `[^:*]*`

Required: No

MessagePrefix

The prefix for a CloudWatch message about this crawl.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

StartTime

The date and time on which the crawl started.

Type: Timestamp

Required: No

State

The state of the crawl.

Type: String

Valid Values: `RUNNING | COMPLETED | FAILED | STOPPED`

Required: No

Summary

A run summary for the specific crawl in JSON. Contains the catalog tables and partitions that were added, updated, or deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CrawlerMetrics

Metrics for a specified crawler.

Contents

CrawlerName

The name of the crawler.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

LastRuntimeSeconds

The duration of the crawler's most recent run, in seconds.

Type: Double

Valid Range: Minimum value of 0.0.

Required: No

MedianRuntimeSeconds

The median duration of this crawler's runs, in seconds.

Type: Double

Valid Range: Minimum value of 0.0.

Required: No

StillEstimating

True if the crawler is still estimating how long it will take to complete this run.

Type: Boolean

Required: No

TablesCreated

The number of tables created by this crawler.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

TablesDeleted

The number of tables deleted by this crawler.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

TablesUpdated

The number of tables updated by this crawler.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

TimeLeftSeconds

The estimated time left to complete a running crawl.

Type: Double

Valid Range: Minimum value of 0.0.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CrawlerNodeDetails

The details of a Crawler node present in the workflow.

Contents

Crawls

A list of crawls represented by the crawl node.

Type: Array of Crawl objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CrawlerTargets

Specifies data stores to crawl.

Contents

CatalogTargets

Specifies AWS Glue Data Catalog targets.

Type: Array of CatalogTarget objects

Required: No

DeltaTargets

Specifies Delta data store targets.

Type: Array of DeltaTarget objects

Required: No

DynamoDBTargets

Specifies Amazon DynamoDB targets.

Type: Array of DynamoDBTarget objects

Required: No

HudiTargets

Specifies Apache Hudi data store targets.

Type: Array of HudiTarget objects

Required: No

IcebergTargets

Specifies Apache Iceberg data store targets.

Type: Array of IcebergTarget objects

Required: No

JdbcTargets

Specifies JDBC targets.

Type: Array of JdbcTarget objects

Required: No

MongoDBTargets

Specifies Amazon DocumentDB or MongoDB targets.

Type: Array of MongoDBTarget objects

Required: No

S3Targets

Specifies Amazon Simple Storage Service (Amazon S3) targets.

Type: Array of S3Target objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CrawlsFilter

A list of fields, comparators and value that you can use to filter the crawler runs for a specified crawler.

Contents

FieldName

A key used to filter the crawler runs for a specified crawler. Valid values for each of the field names are:

- `CRAWL_ID`: A string representing the UUID identifier for a crawl.
- `STATE`: A string representing the state of the crawl.
- `START_TIME` and `END_TIME`: The epoch timestamp in milliseconds.
- `DPU_HOUR`: The number of data processing unit (DPU) hours used for the crawl.

Type: String

Valid Values: `CRAWL_ID | STATE | START_TIME | END_TIME | DPU_HOUR`

Required: No

FieldValue

The value provided for comparison on the crawl field.

Type: String

Required: No

FilterOperator

A defined comparator that operates on the value. The available operators are:

- `GT`: Greater than.
- `GE`: Greater than or equal to.
- `LT`: Less than.
- `LE`: Less than or equal to.
- `EQ`: Equal to.
- `NE`: Not equal to.

Type: String

Valid Values: `GT | GE | LT | LE | EQ | NE`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CreateCsvClassifierRequest

Specifies a custom CSV classifier for `CreateClassifier` to create.

Contents

Name

The name of the classifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

AllowSingleColumn

Enables the processing of files that contain only one column.

Type: Boolean

Required: No

ContainsHeader

Indicates whether the CSV file contains a header.

Type: String

Valid Values: `UNKNOWN | PRESENT | ABSENT`

Required: No

CustomDatatypeConfigured

Enables the configuration of custom datatypes.

Type: Boolean

Required: No

CustomDatatypes

Creates a list of supported custom datatypes.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Delimiter

A custom symbol to denote what separates each column entry in the row.

Type: String

Length Constraints: Fixed length of 1.

Pattern: `[^\r\n]`

Required: No

DisableValueTrimming

Specifies not to trim values before identifying the type of column values. The default value is true.

Type: Boolean

Required: No

Header

A list of strings representing column names.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

QuoteSymbol

A custom symbol to denote what combines content into a single column value. Must be different from the column delimiter.

Type: String

Length Constraints: Fixed length of 1.

Pattern: `[^\r\n]`

Required: No

Serde

Sets the SerDe for processing CSV in the classifier, which will be applied in the Data Catalog. Valid values are `OpenCSVSerDe`, `LazySimpleSerDe`, and `None`. You can specify the `None` value when you want the crawler to do the detection.

Type: String

Valid Values: `OpenCSVSerDe | LazySimpleSerDe | None`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CreateGrokClassifierRequest

Specifies a `grok` classifier for `CreateClassifier` to create.

Contents

Classification

An identifier of the data format that the classifier matches, such as Twitter, JSON, Omniture logs, Amazon CloudWatch Logs, and so on.

Type: String

Required: Yes

GrokPattern

The grok pattern used by this classifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\t]*`

Required: Yes

Name

The name of the new classifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

CustomPatterns

Optional custom grok patterns used by this classifier.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16000.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CreateIcebergTableInput

The configuration parameters required to create a new Iceberg table in the AWS Glue Data Catalog, including table properties and metadata specifications.

Contents

Location

The S3 location where the Iceberg table data will be stored.

Type: String

Length Constraints: Maximum length of 2056.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: Yes

Schema

The schema definition that specifies the structure, field types, and metadata for the Iceberg table.

Type: IcebergSchema object

Required: Yes

PartitionSpec

The partitioning specification that defines how the Iceberg table data will be organized and partitioned for optimal query performance.

Type: IcebergPartitionSpec object

Required: No

Properties

Key-value pairs of additional table properties and configuration settings for the Iceberg table.

Type: String to string map

Required: No

WriteOrder

The sort order specification that defines how data should be ordered within each partition to optimize query performance.

Type: IcebergSortOrder object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CreateJsonClassifierRequest

Specifies a JSON classifier for `CreateClassifier` to create.

Contents

JsonPath

A `JsonPath` string defining the JSON data for the classifier to classify. AWS Glue supports a subset of JsonPath, as described in Writing JsonPath Custom Classifiers.

Type: String

Required: Yes

Name

The name of the classifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CreateXMLClassifierRequest

Specifies an XML classifier for `CreateClassifier` to create.

Contents

Classification

An identifier of the data format that the classifier matches.

Type: String

Required: Yes

Name

The name of the classifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

RowTag

The XML tag designating the element that contains each record in an XML document being parsed. This can't identify a self-closing element (closed by `/>`). An empty row element that contains only attributes can be parsed as long as it ends with a closing tag (for example, `<row item_a="A" item_b="B"></row>` is okay, but `<row item_a="A" item_b="B" />` is not).

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

CsvClassifier

A classifier for custom CSV content.

Contents

Name

The name of the classifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

AllowSingleColumn

Enables the processing of files that contain only one column.

Type: Boolean

Required: No

ContainsHeader

Indicates whether the CSV file contains a header.

Type: String

Valid Values: `UNKNOWN | PRESENT | ABSENT`

Required: No

CreationTime

The time that this classifier was registered.

Type: Timestamp

Required: No

CustomDatatypeConfigured

Enables the custom datatype to be configured.

Type: Boolean

Required: No

CustomDatatypes

A list of custom datatypes including "BINARY", "BOOLEAN", "DATE", "DECIMAL", "DOUBLE", "FLOAT", "INT", "LONG", "SHORT", "STRING", "TIMESTAMP".

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Delimiter

A custom symbol to denote what separates each column entry in the row.

Type: String

Length Constraints: Fixed length of 1.

Pattern: `[^\r\n]`

Required: No

DisableValueTrimming

Specifies not to trim values before identifying the type of column values. The default value is `true`.

Type: Boolean

Required: No

Header

A list of strings representing column names.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

LastUpdated

The time that this classifier was last updated.

Type: Timestamp

Required: No

QuoteSymbol

A custom symbol to denote what combines content into a single column value. It must be different from the column delimiter.

Type: String

Length Constraints: Fixed length of 1.

Pattern: `[^\r\n]`

Required: No

Serde

Sets the SerDe for processing CSV in the classifier, which will be applied in the Data Catalog. Valid values are `OpenCSVSerDe`, `LazySimpleSerDe`, and `None`. You can specify the `None` value when you want the crawler to do the detection.

Type: String

Valid Values: `OpenCSVSerDe | LazySimpleSerDe | None`

Required: No

Version

The version of this classifier.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CursorConfiguration

Cursor-based pagination configuration that defines how to handle pagination using cursor tokens or next page identifiers.

Contents

NextPage

The parameter name or JSON path that contains the cursor or token for retrieving the next page of results.

Type: ExtractedParameter object

Required: Yes

LimitParameter

The parameter name used to specify the maximum number of results to return per page.

Type: ExtractedParameter object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CustomAuthenticationProperties

Custom authentication configuration that allows for flexible authentication mechanisms beyond standard Basic and OAuth2 flows.

Contents

AuthenticationParameters

A map of custom authentication parameters that define the specific authentication mechanism and required properties.

Type: Array of ConnectorProperty objects

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CustomCode

Specifies a transform that uses custom code you provide to perform the data transformation. The output is a collection of DynamicFrames.

Contents

ClassName

The name defined for the custom code node class.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Code

The custom code that is used to perform the data transformation.

Type: String

Pattern: `[\s\S]*`

Required: Yes

Inputs

The data inputs identified by their node names.

Type: Array of strings

Array Members: Minimum number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

OutputSchemas

Specifies the data schema for the custom code transform.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CustomEntityType

An object representing a custom pattern for detecting sensitive data across the columns and rows of your structured data.

Contents

Name

A name for the custom pattern that allows it to be retrieved or deleted later. This name must be unique per AWS account.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

RegexString

A regular expression string that is used for detecting sensitive data in a custom pattern.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

ContextWords

A list of context words. If none of these context words are found within the vicinity of the regular expression the data will not be detected as sensitive data.

If no context words are passed only a regular expression is checked.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Database

The `Database` object represents a logical grouping of tables that might reside in a Hive metastore or an RDBMS.

Contents

Name

The name of the database. For Hive compatibility, this is folded to lowercase when it is stored.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

CatalogId

The ID of the Data Catalog in which the database resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

CreateTableDefaultPermissions

Creates a set of default permissions on the table for principals. Used by AWS Lake Formation. Not used in the normal course of AWS Glue operations.

Type: Array of PrincipalPermissions objects

Required: No

CreateTime

The time at which the metadata database was created in the catalog.

Type: Timestamp

Required: No

Description

A description of the database.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

FederatedDatabase

A `FederatedDatabase` structure that references an entity outside the AWS Glue Data Catalog.

Type: FederatedDatabase object

Required: No

LocationUri

The location of the database (for example, an HDFS path).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

Parameters

These key-value pairs define parameters and properties of the database.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

TargetDatabase

A `DatabaseIdentifier` structure that describes a target database for resource linking.

Type: DatabaseIdentifier object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DatabaseIdentifier

A structure that describes a target database for resource linking.

Contents

CatalogId

The ID of the Data Catalog in which the database resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the catalog database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Region

Region of the target database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DatabaseInput

The structure used to create or update a database.

Contents

Name

The name of the database. For Hive compatibility, this is folded to lowercase when it is stored.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

CreateTableDefaultPermissions

Creates a set of default permissions on the table for principals. Used by AWS Lake Formation. Not used in the normal course of AWS Glue operations.

Type: Array of PrincipalPermissions objects

Required: No

Description

A description of the database.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

FederatedDatabase

A `FederatedDatabase` structure that references an entity outside the AWS Glue Data Catalog.

Type: FederatedDatabase object

Required: No

LocationUri

The location of the database (for example, an HDFS path).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

Parameters

These key-value pairs define parameters and properties of the database.

These key-value pairs define parameters and properties of the database.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

TargetDatabase

A `DatabaseIdentifier` structure that describes a target database for resource linking.

Type: DatabaseIdentifier object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataCatalogEncryptionSettings

Contains configuration information for maintaining Data Catalog security.

Contents

ConnectionPasswordEncryption

When connection password protection is enabled, the Data Catalog uses a customer-provided key to encrypt the password as part of `CreateConnection` or `UpdateConnection` and store it in the `ENCRYPTED_PASSWORD` field in the connection properties. You can enable catalog encryption or only password encryption.

Type: ConnectionPasswordEncryption object

Required: No

EncryptionAtRest

Specifies the encryption-at-rest configuration for the Data Catalog.

Type: EncryptionAtRest object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataLakeAccessProperties

Input properties to configure data lake access for your catalog resource in the AWS Glue Data Catalog.

Contents

CatalogType

Specifies a federated catalog type for the native catalog resource. The currently supported type is `aws:redshift`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DataLakeAccess

Turns on or off data lake access for Apache Spark applications that access Amazon Redshift databases in the Data Catalog from any non-Redshift engine, such as Amazon Athena, Amazon EMR, or AWS Glue ETL.

Type: Boolean

Required: No

DataTransferRole

A role that will be assumed by AWS Glue for transferring data into/out of the staging bucket during a query.

Type: String

Pattern: `^arn:aws(-(cn|us-gov|iso(-[bef])?))?:iam::[0-9]{12}:role/.+`

Required: No

KmsKey

An encryption key that will be used for the staging bucket that will be created along with the catalog.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataLakeAccessPropertiesOutput

The output properties of the data lake access configuration for your catalog resource in the AWS Glue Data Catalog.

Contents

CatalogType

Specifies a federated catalog type for the native catalog resource. The currently supported type is `aws:redshift`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DataLakeAccess

Turns on or off data lake access for Apache Spark applications that access Amazon Redshift databases in the Data Catalog.

Type: Boolean

Required: No

DataTransferRole

A role that will be assumed by AWS Glue for transferring data into/out of the staging bucket during a query.

Type: String

Pattern: `^arn:aws(-(cn|us-gov|iso(-[bef])?))?:iam::[0-9]{12}:role/.+`

Required: No

KmsKey

An encryption key that will be used for the staging bucket that will be created along with the catalog.

Type: String

Required: No

ManagedWorkgroupName

The managed Redshift Serverless compute name that is created for your catalog resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ManagedWorkgroupStatus

The managed Redshift Serverless compute status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

RedshiftDatabaseName

The default Redshift database resource name in the managed compute.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

StatusMessage

A message that gives more detailed information about the managed workgroup status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataLakePrincipal

The AWS Lake Formation principal.

Contents

DataLakePrincipalIdentifier

An identifier for the AWS Lake Formation principal.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DatapointInclusionAnnotation

An Inclusion Annotation.

Contents

InclusionAnnotation

The inclusion annotation value to apply to the statistic.

Type: String

Valid Values: `INCLUDE | EXCLUDE`

Required: No

ProfileId

The ID of the data quality profile the statistic belongs to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

StatisticId

The Statistic ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityAggregatedMetrics

A summary of metrics showing the total counts of processed rows and rules, including their pass/fail statistics based on row-level results.

Contents

TotalRowsFailed

The total number of rows that failed one or more data quality rules.

Type: Double

Required: No

TotalRowsPassed

The total number of rows that passed all applicable data quality rules.

Type: Double

Required: No

TotalRowsProcessed

The total number of rows that were processed during the data quality evaluation.

Type: Double

Required: No

TotalRulesFailed

The total number of data quality rules that failed their evaluation criteria.

Type: Double

Required: No

TotalRulesPassed

The total number of data quality rules that passed their evaluation criteria.

Type: Double

Required: No

TotalRulesProcessed

The total number of data quality rules that were evaluated.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityAnalyzerResult

Describes the result of the evaluation of a data quality analyzer.

Contents

Description

A description of the data quality analyzer.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

EvaluatedMetrics

A map of metrics associated with the evaluation of the analyzer.

Type: String to double map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

EvaluationMessage

An evaluation message.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

Name

The name of the data quality analyzer.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityEncryption

Specifies how Data Quality assets in your account should be encrypted.

Contents

DataQualityEncryptionMode

The encryption mode to use for encrypting Data Quality assets. These assets include data quality rulesets, results, statistics, anomaly detection models and observations.

Valid values are `SSEKMS` for encryption using a customer-managed KMS key, or `DISABLED`.

Type: String

Valid Values: `DISABLED | SSE-KMS`

Required: No

KmsKeyArn

The Amazon Resource Name (ARN) of the KMS key to be used to encrypt the data.

Type: String

Pattern: `^$|arn:aws[a-z0-9-]*:kms:.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityEvaluationRunAdditionalRunOptions

Additional run options you can specify for an evaluation run.

Contents

CloudWatchMetricsEnabled

Whether or not to enable CloudWatch metrics.

Type: Boolean

Required: No

CompositeRuleEvaluationMethod

Set the evaluation method for composite rules in the ruleset to ROW/COLUMN

Type: String

Valid Values: `COLUMN | ROW`

Required: No

ResultsS3Prefix

Prefix for Amazon S3 to store results.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityGlueTable

The database and table in the AWS Glue Data Catalog that is used for input or output data for Data Quality Operations.

Contents

DatabaseName

A database name in the AWS Glue Data Catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

A table name in the AWS Glue Data Catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

AdditionalOptions

Additional options for the table. Currently there are two keys supported:

- `pushDownPredicate`: to filter on partitions without having to list and read all the files in your dataset.
- `catalogPartitionPredicate`: to use server-side partition pruning using partition indexes in the AWS Glue Data Catalog.

Type: String to string map

Map Entries: Maximum number of 10 items.

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Value Length Constraints: Minimum length of 0. Maximum length of 2048.

Value Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*

Required: No

CatalogId

A unique identifier for the AWS Glue Data Catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: No

ConnectionName

The name of the connection to the AWS Glue Data Catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*

Required: No

PreProcessingQuery

SQL Query of SparkSQL format that can be used to pre-process the data for the table in AWS Glue Data Catalog, before running the Data Quality Operation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityMetricValues

Describes the data quality metric value according to the analysis of historical data.

Contents

ActualValue

The actual value of the data quality metric.

Type: Double

Required: No

ExpectedValue

The expected value of the data quality metric according to the analysis of historical data.

Type: Double

Required: No

LowerLimit

The lower limit of the data quality metric value according to the analysis of historical data.

Type: Double

Required: No

UpperLimit

The upper limit of the data quality metric value according to the analysis of historical data.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityObservation

Describes the observation generated after evaluating the rules and analyzers.

Contents

Description

A description of the data quality observation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

MetricBasedObservation

An object of type `MetricBasedObservation` representing the observation that is based on evaluated data quality metrics.

Type: MetricBasedObservation object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityResult

Describes a data quality result.

Contents

AggregatedMetrics

A summary of `DataQualityAggregatedMetrics` objects showing the total counts of processed rows and rules, including their pass/fail statistics based on row-level results.

Type: DataQualityAggregatedMetrics object

Required: No

AnalyzerResults

A list of `DataQualityAnalyzerResult` objects representing the results for each analyzer.

Type: Array of DataQualityAnalyzerResult objects

Array Members: Minimum number of 0 items. Maximum number of 2000 items.

Required: No

CompletedOn

The date and time when this data quality run completed.

Type: Timestamp

Required: No

DataSource

The table associated with the data quality result, if any.

Type: DataSource object

Required: No

EvaluationContext

In the context of a job in AWS Glue Studio, each node in the canvas is typically assigned some sort of name and data quality nodes will have names. In the case of multiple nodes, the `evaluationContext` can differentiate the nodes.

Type: String

Required: No

JobName

The job name associated with the data quality result, if any.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

JobRunId

The job run ID associated with the data quality result, if any.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Observations

A list of `DataQualityObservation` objects representing the observations generated after evaluating the rules and analyzers.

Type: Array of DataQualityObservation objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

ProfileId

The Profile ID for the data quality result.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ResultId

A unique result ID for the data quality result.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

RuleResults

A list of `DataQualityRuleResult` objects representing the results for each rule.

Type: Array of DataQualityRuleResult objects

Array Members: Minimum number of 0 items. Maximum number of 2000 items.

Required: No

RulesetEvaluationRunId

The unique run ID for the ruleset evaluation for this data quality result.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

RulesetName

The name of the ruleset associated with the data quality result.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Score

An aggregate data quality score. Represents the ratio of rules that passed to the total number of rules.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 1.0.

Required: No

StartedOn

The date and time when this data quality run started.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityResultDescription

Describes a data quality result.

Contents

DataSource

The table name associated with the data quality result.

Type: DataSource object

Required: No

JobName

The job name associated with the data quality result.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

JobRunId

The job run ID associated with the data quality result.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ResultId

The unique result ID for this data quality result.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

StartedOn

The time that the run started for this data quality result.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityResultFilterCriteria

Criteria used to return data quality results.

Contents

DataSource

Filter results by the specified data source. For example, retrieving all results for an AWS Glue table.

Type: DataSource object

Required: No

JobName

Filter results by the specified job name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

JobRunId

Filter results by the specified job run ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

StartedAfter

Filter results by runs that started after this time.

Type: Timestamp

Required: No

StartedBefore

Filter results by runs that started before this time.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityRuleRecommendationRunDescription

Describes the result of a data quality rule recommendation run.

Contents

DataSource

The data source (AWS Glue table) associated with the recommendation run.

Type: DataSource object

Required: No

RunId

The unique run identifier associated with this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

StartedOn

The date and time when this run started.

Type: Timestamp

Required: No

Status

The status for this run.

Type: String

Valid Values: `STARTING | RUNNING | STOPPING | STOPPED | SUCCEEDED | FAILED | TIMEOUT`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityRuleRecommendationRunFilter

A filter for listing data quality recommendation runs.

Contents

DataSource

Filter based on a specified data source (AWS Glue table).

Type: DataSource object

Required: Yes

StartedAfter

Filter based on time for results started after provided time.

Type: Timestamp

Required: No

StartedBefore

Filter based on time for results started before provided time.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityRuleResult

Describes the result of the evaluation of a data quality rule.

Contents

Description

A description of the data quality rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

EvaluatedMetrics

A map of metrics associated with the evaluation of the rule.

Type: String to double map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

EvaluatedRule

The evaluated rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

EvaluationMessage

An evaluation message.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

Labels

A map containing labels assigned to the data quality rule.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Minimum length of 1. Maximum length of 255.

Value Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Name

The name of the data quality rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Result

A pass or fail status for the rule.

Type: String

Valid Values: `PASS | FAIL | ERROR`

Required: No

RuleMetrics

A map containing metrics associated with the evaluation of the rule based on row-level results.

Type: String to double map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityRulesetEvaluationRunDescription

Describes the result of a data quality ruleset evaluation run.

Contents

DataSource

The data source (an AWS Glue table) associated with the run.

Type: DataSource object

Required: No

RunId

The unique run identifier associated with this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

StartedOn

The date and time when the run started.

Type: Timestamp

Required: No

Status

The status for this run.

Type: String

Valid Values: `STARTING | RUNNING | STOPPING | STOPPED | SUCCEEDED | FAILED | TIMEOUT`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityRulesetEvaluationRunFilter

The filter criteria.

Contents

DataSource

Filter based on a data source (an AWS Glue table) associated with the run.

Type: DataSource object

Required: Yes

StartedAfter

Filter results by runs that started after this time.

Type: Timestamp

Required: No

StartedBefore

Filter results by runs that started before this time.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityRulesetFilterCriteria

The criteria used to filter data quality rulesets.

Contents

CreatedAfter

Filter on rulesets created after this date.

Type: Timestamp

Required: No

CreatedBefore

Filter on rulesets created before this date.

Type: Timestamp

Required: No

Description

The description of the ruleset filter criteria.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

LastModifiedAfter

Filter on rulesets last modified after this date.

Type: Timestamp

Required: No

LastModifiedBefore

Filter on rulesets last modified before this date.

Type: Timestamp

Required: No

Name

The name of the ruleset filter criteria.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

TargetTable

The name and database name of the target table.

Type: DataQualityTargetTable object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityRulesetListDetails

Describes a data quality ruleset returned by `GetDataQualityRuleset`.

Contents

CreatedOn

The date and time the data quality ruleset was created.

Type: Timestamp

Required: No

Description

A description of the data quality ruleset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

LastModifiedOn

The date and time the data quality ruleset was last modified.

Type: Timestamp

Required: No

Name

The name of the data quality ruleset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

RecommendationRunId

When a ruleset was created from a recommendation run, this run ID is generated to link the two together.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

RuleCount

The number of rules in the ruleset.

Type: Integer

Required: No

TargetTable

An object representing an AWS Glue table.

Type: DataQualityTargetTable object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataQualityTargetTable

An object representing an AWS Glue table.

Contents

DatabaseName

The name of the database where the AWS Glue table exists.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

The name of the AWS Glue table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

CatalogId

The catalog id where the AWS Glue table exists.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataSource

A data source (an AWS Glue table) for which you want data quality results.

Contents

DataQualityGlueTable

An AWS Glue table for Data Quality Operations.

Type: DataQualityGlueTable object

Required: No

GlueTable

An AWS Glue table.

Type: GlueTable object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Datatype

A structure representing the datatype of the value.

Contents

Id

The datatype of the value.

Type: String

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Label

A label assigned to the datatype.

Type: String

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DateColumnStatisticsData

Defines column statistics supported for timestamp data columns.

Contents

NumberOfDistinctValues

The number of distinct values in a column.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

NumberOfNulls

The number of null values in the column.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

MaximumValue

The highest value in the column.

Type: Timestamp

Required: No

MinimumValue

The lowest value in the column.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DDBELTCatalogAdditionalOptions

Specifies additional options for DynamoDB ELT catalog operations.

Contents

DynamodbExport

Specifies the DynamoDB export configuration for the ELT operation.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

DynamodbUnnestDDBJson

Specifies whether to unnest DynamoDB JSON format. When set to `true`, nested JSON structures in DynamoDB items are flattened.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DDBELTConnectionOptions

Specifies connection options for DynamoDB ELT (Extract, Load, Transform) operations. This structure contains configuration parameters for connecting to and extracting data from DynamoDB tables using the ELT connector.

Contents

DynamodbTableArn

The Amazon Resource Name (ARN) of the DynamoDB table to extract data from. This parameter specifies the source table for the ELT operation.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

DynamodbExport

Specifies the export type for DynamoDB data extraction. This parameter determines how data is exported from the DynamoDB table during the ELT process.

Type: String

Valid Values: `ddb | s3`

Required: No

DynamodbS3Bucket

The name of the Amazon S3 bucket used for intermediate storage during the DynamoDB ELT process. This bucket is used to temporarily store exported DynamoDB data before it is processed by the ELT job.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

DynamodbS3BucketOwner

The AWS account ID of the owner of the S3 bucket specified in `DynamodbS3Bucket`. This parameter is required when the S3 bucket is owned by a different AWS account than the one running the ELT job, enabling cross-account access to the intermediate storage bucket.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

DynamodbS3Prefix

The S3 object key prefix for files stored in the intermediate S3 bucket during the DynamoDB ELT process. This prefix helps organize and identify the temporary files created during data extraction.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

DynamodbStsRoleArn

The Amazon Resource Name (ARN) of the AWS Security Token Service (STS) role to assume for accessing DynamoDB and S3 resources during the ELT operation. This role must have the necessary permissions to read from the DynamoDB table and write to the intermediate S3 bucket.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

DynamodbUnnestDDBJson

A boolean value that specifies whether to unnest DynamoDB JSON format during data extraction. When set to `true`, the connector will flatten nested JSON structures from DynamoDB items. When set to `false`, the original DynamoDB JSON structure is preserved.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DecimalColumnStatisticsData

Defines column statistics supported for fixed-point number data columns.

Contents

NumberOfDistinctValues

The number of distinct values in a column.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

NumberOfNulls

The number of null values in the column.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

MaximumValue

The highest value in the column.

Type: DecimalNumber object

Required: No

MinimumValue

The lowest value in the column.

Type: DecimalNumber object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DecimalNumber

Contains a numeric value in decimal format.

Contents

Scale

The scale that determines where the decimal point falls in the unscaled value.

Type: Integer

Required: Yes

UnscaledValue

The unscaled numeric value.

Type: Base64-encoded binary data object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DeltaTarget

Specifies a Delta data store to crawl one or more Delta tables.

Contents

ConnectionName

The name of the connection to use to connect to the Delta table target.

Type: String

Required: No

CreateNativeDeltaTable

Specifies whether the crawler will create native tables, to allow integration with query engines that support querying of the Delta transaction log directly.

Type: Boolean

Required: No

DeltaTables

A list of the Amazon S3 paths to the Delta tables.

Type: Array of strings

Required: No

WriteManifest

Specifies whether to write the manifest files to the Delta table path.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DevEndpoint

A development endpoint where a developer can remotely debug extract, transform, and load (ETL) scripts.

Contents

Arguments

A map of arguments used to configure the `DevEndpoint`.

Valid arguments are:

- `"--enable-glue-datacatalog": ""`

You can specify a version of Python support for development endpoints by using the `Arguments` parameter in the `CreateDevEndpoint` or `UpdateDevEndpoint` APIs. If no arguments are provided, the version defaults to Python 2.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 100 items.

Required: No

AvailabilityZone

The AWS Availability Zone where this `DevEndpoint` is located.

Type: String

Required: No

CreatedTimestamp

The point in time at which this DevEndpoint was created.

Type: Timestamp

Required: No

EndpointName

The name of the `DevEndpoint`.

Type: String

Required: No

ExtraJarsS3Path

The path to one or more Java `.jar` files in an S3 bucket that should be loaded in your `DevEndpoint`.

> **Note**
>
> You can only use pure Java/Scala libraries with a `DevEndpoint`.

Type: String

Required: No

ExtraPythonLibsS3Path

The paths to one or more Python libraries in an Amazon S3 bucket that should be loaded in your `DevEndpoint`. Multiple values must be complete paths separated by a comma.

> **Note**
>
> You can only use pure Python libraries with a `DevEndpoint`. Libraries that rely on C extensions, such as the pandas Python data analysis library, are not currently supported.

Type: String

Required: No

FailureReason

The reason for a current failure in this `DevEndpoint`.

Type: String

Required: No

GlueVersion

Glue version determines the versions of Apache Spark and Python that AWS Glue supports. The Python version indicates the version supported for running your ETL scripts on development endpoints.

For more information about the available AWS Glue versions and corresponding Spark and Python versions, see Glue version in the developer guide.

Development endpoints that are created without specifying a Glue version default to Glue 0.9.

You can specify a version of Python support for development endpoints by using the `Arguments` parameter in the `CreateDevEndpoint` or `UpdateDevEndpoint` APIs. If no arguments are provided, the version defaults to Python 2.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `^(\w+\.)+\w+$`

Required: No

LastModifiedTimestamp

The point in time at which this `DevEndpoint` was last modified.

Type: Timestamp

Required: No

LastUpdateStatus

The status of the last update.

Type: String

Required: No

NumberOfNodes

The number of AWS Glue Data Processing Units (DPUs) allocated to this `DevEndpoint`.

Type: Integer

Required: No

NumberOfWorkers

The number of workers of a defined `workerType` that are allocated to the development endpoint.

The maximum number of workers you can define are 299 for `G.1X`, and 149 for `G.2X`.

Type: Integer

Required: No

PrivateAddress

A private IP address to access the `DevEndpoint` within a VPC if the `DevEndpoint` is created within one. The `PrivateAddress` field is present only when you create the `DevEndpoint` within your VPC.

Type: String

Required: No

PublicAddress

The public IP address used by this `DevEndpoint`. The `PublicAddress` field is present only when you create a non-virtual private cloud (VPC) `DevEndpoint`.

Type: String

Required: No

PublicKey

The public key to be used by this `DevEndpoint` for authentication. This attribute is provided for backward compatibility because the recommended attribute to use is public keys.

Type: String

Required: No

PublicKeys

A list of public keys to be used by the `DevEndpoints` for authentication. Using this attribute is preferred over a single public key because the public keys allow you to have a different private key per client.

> **Note**
>
> If you previously created an endpoint with a public key, you must remove that key to be able to set a list of public keys. Call the `UpdateDevEndpoint` API operation with the

public key content in the `deletePublicKeys` attribute, and the list of new keys in the `addPublicKeys` attribute.

Type: Array of strings

Array Members: Maximum number of 5 items.

Required: No

RoleArn

The Amazon Resource Name (ARN) of the IAM role used in this `DevEndpoint`.

Type: String

Pattern: `arn:aws:iam::\d{12}:role/.*`

Required: No

SecurityConfiguration

The name of the `SecurityConfiguration` structure to be used with this `DevEndpoint`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

SecurityGroupIds

A list of security group identifiers used in this `DevEndpoint`.

Type: Array of strings

Required: No

Status

The current status of this `DevEndpoint`.

Type: String

Required: No

SubnetId

The subnet ID for this `DevEndpoint`.

Type: String

Required: No

VpcId

The ID of the virtual private cloud (VPC) used by this `DevEndpoint`.

Type: String

Required: No

WorkerType

The type of predefined worker that is allocated to the development endpoint. Accepts a value of Standard, G.1X, or G.2X.

- For the `Standard` worker type, each worker provides 4 vCPU, 16 GB of memory and a 50GB disk, and 2 executors per worker.
- For the `G.1X` worker type, each worker maps to 1 DPU (4 vCPU, 16 GB of memory, 64 GB disk), and provides 1 executor per worker. We recommend this worker type for memory-intensive jobs.
- For the `G.2X` worker type, each worker maps to 2 DPU (8 vCPU, 32 GB of memory, 128 GB disk), and provides 1 executor per worker. We recommend this worker type for memory-intensive jobs.

Known issue: when a development endpoint is created with the `G.2X` `WorkerType` configuration, the Spark drivers for the development endpoint will run on 4 vCPU, 16 GB of memory, and a 64 GB disk.

Type: String

Valid Values: `Standard | G.1X | G.2X | G.025X | G.4X | G.8X | Z.2X`

Required: No

YarnEndpointAddress

The YARN endpoint address used by this `DevEndpoint`.

Type: String

Required: No

ZeppelinRemoteSparkInterpreterPort

The Apache Zeppelin port for the remote Apache Spark interpreter.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DevEndpointCustomLibraries

Custom libraries to be loaded into a development endpoint.

Contents

ExtraJarsS3Path

The path to one or more Java `.jar` files in an S3 bucket that should be loaded in your `DevEndpoint`.

> **Note**
>
> You can only use pure Java/Scala libraries with a `DevEndpoint`.

Type: String

Required: No

ExtraPythonLibsS3Path

The paths to one or more Python libraries in an Amazon Simple Storage Service (Amazon S3) bucket that should be loaded in your `DevEndpoint`. Multiple values must be complete paths separated by a comma.

> **Note**
>
> You can only use pure Python libraries with a `DevEndpoint`. Libraries that rely on C extensions, such as the pandas Python data analysis library, are not currently supported.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DirectJDBCSource

Specifies the direct JDBC source connection.

Contents

ConnectionName

The connection name of the JDBC source.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

ConnectionType

The connection type of the JDBC source.

Type: String

Valid Values: `sqlserver | mysql | oracle | postgresql | redshift`

Required: Yes

Database

The database of the JDBC source connection.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the JDBC source connection.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The table of the JDBC source connection.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

OutputSchemas

Specifies the data schema for the direct JDBC source.

Type: Array of GlueSchema objects

Required: No

RedshiftTmpDir

The temp directory of the JDBC Redshift source.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DirectKafkaSource

Specifies an Apache Kafka data store.

Contents

Name

The name of the data store.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

DataPreviewOptions

Specifies options related to data preview for viewing a sample of your data.

Type: StreamingDataPreviewOptions object

Required: No

DetectSchema

Whether to automatically determine the schema from the incoming data.

Type: Boolean

Required: No

StreamingOptions

Specifies the streaming options.

Type: KafkaStreamingSourceOptions object

Required: No

WindowSize

The amount of time to spend processing each micro batch.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DirectKinesisSource

Specifies a direct Amazon Kinesis data source.

Contents

Name

The name of the data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

DataPreviewOptions

Additional options for data preview.

Type: StreamingDataPreviewOptions object

Required: No

DetectSchema

Whether to automatically determine the schema from the incoming data.

Type: Boolean

Required: No

StreamingOptions

Additional options for the Kinesis streaming data source.

Type: KinesisStreamingSourceOptions object

Required: No

WindowSize

The amount of time to spend processing each micro batch.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DirectSchemaChangePolicy

A policy that specifies update behavior for the crawler.

Contents

Database

Specifies the database that the schema change policy applies to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

EnableUpdateCatalog

Whether to use the specified update behavior when the crawler finds a changed schema.

Type: Boolean

Required: No

Table

Specifies the table in the database that the schema change policy applies to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

UpdateBehavior

The update behavior when the crawler finds a changed schema.

Type: String

Valid Values: `UPDATE_IN_DATABASE | LOG`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DoubleColumnStatisticsData

Defines column statistics supported for floating-point number data columns.

Contents

NumberOfDistinctValues

The number of distinct values in a column.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

NumberOfNulls

The number of null values in the column.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

MaximumValue

The highest value in the column.

Type: Double

Required: No

MinimumValue

The lowest value in the column.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DQResultsPublishingOptions

Options to configure how your data quality evaluation results are published.

Contents

CloudWatchMetricsEnabled

Enable metrics for your data quality results.

Type: Boolean

Required: No

EvaluationContext

The context of the evaluation.

Type: String

Pattern: `[A-Za-z0-9_-]*`

Required: No

ResultsPublishingEnabled

Enable publishing for your data quality results.

Type: Boolean

Required: No

ResultsS3Prefix

The Amazon S3 prefix prepended to the results.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DQStopJobOnFailureOptions

Options to configure how your job will stop if your data quality evaluation fails.

Contents

StopJobOnFailureTiming

When to stop job if your data quality evaluation fails. Options are Immediate or AfterDataLoad.

Type: String

Valid Values: `Immediate | AfterDataLoad`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DropDuplicates

Specifies a transform that removes rows of repeating data from a data set.

Contents

Inputs

The data inputs identified by their node names.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Columns

The name of the columns to be merged or removed if repeating.

Type: Array of arrays of strings

Pattern: `[A-Za-z0-9_-]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DropFields

Specifies a transform that chooses the data property keys that you want to drop.

Contents

Inputs

The data inputs identified by their node names.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Paths

A JSON path to a variable in the data structure.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DropNullFields

Specifies a transform that removes columns from the dataset if all values in the column are 'null'. By default, AWS Glue Studio will recognize null objects, but some values such as empty strings, strings that are "null", -1 integers or other placeholders such as zeros, are not automatically recognized as nulls.

Contents

Inputs

The data inputs identified by their node names.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

NullCheckBoxList

A structure that represents whether certain values are recognized as null values for removal.

Type: NullCheckBoxList object

Required: No

NullTextList

A structure that specifies a list of NullValueField structures that represent a custom null value such as zero or other value being used as a null placeholder unique to the dataset.

The `DropNullFields` transform removes custom null values only if both the value of the null placeholder and the datatype match the data.

Type: Array of NullValueField objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DynamicTransform

Specifies the set of parameters needed to perform the dynamic transform.

Contents

FunctionName

Specifies the name of the function of the dynamic transform.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

Specifies the inputs for the dynamic transform that are required.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

Specifies the name of the dynamic transform.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Path

Specifies the path of the dynamic transform source and config files.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

TransformName

Specifies the name of the dynamic transform as it appears in the AWS Glue Studio visual editor.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

OutputSchemas

Specifies the data schema for the dynamic transform.

Type: Array of GlueSchema objects

Required: No

Parameters

Specifies the parameters of the dynamic transform.

Type: Array of TransformConfigParameter objects

Required: No

Version

This field is not used and will be deprecated in future release.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DynamoDBCatalogSource

Specifies a DynamoDB data source in the AWS Glue Data Catalog.

Contents

Database

The name of the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalOptions

Specifies additional connection options for the DynamoDB data source.

Type: DDBELTCatalogAdditionalOptions object

Required: No

PitrEnabled

Specifies whether Point-in-Time Recovery (PITR) is enabled for the DynamoDB table. When set to `true`, allows reading from a specific point in time. The default value is `false`.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DynamoDBELTConnectorSource

Specifies a DynamoDB ELT connector source for extracting data from DynamoDB tables.

Contents

Name

The name of the DynamoDB ELT connector source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

ConnectionOptions

The connection options for the DynamoDB ELT connector source.

Type: DDBELTConnectionOptions object

Required: No

OutputSchemas

Specifies the data schema for the DynamoDB ELT connector source.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DynamoDBTarget

Specifies an Amazon DynamoDB table to crawl.

Contents

Path

The name of the DynamoDB table to crawl.

Type: String

Required: No

scanAll

Indicates whether to scan all the records, or to sample rows from the table. Scanning all the records can take a long time when the table is not a high throughput table.

A value of `true` means to scan all records, while a value of `false` means to sample the records. If no value is specified, the value defaults to `true`.

Type: Boolean

Required: No

scanRate

The percentage of the configured read capacity units to use by the AWS Glue crawler. Read capacity units is a term defined by DynamoDB, and is a numeric value that acts as rate limiter for the number of reads that can be performed on that table per second.

The valid values are null or a value between 0.1 to 1.5. A null value is used when user does not provide a value, and defaults to 0.5 of the configured Read Capacity Unit (for provisioned tables), or 0.25 of the max configured Read Capacity Unit (for tables using on-demand mode).

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Edge

An edge represents a directed connection between two AWS Glue components that are part of the workflow the edge belongs to.

Contents

DestinationId

The unique of the node within the workflow where the edge ends.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

SourceId

The unique of the node within the workflow where the edge starts.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EncryptionAtRest

Specifies the encryption-at-rest configuration for the Data Catalog.

Contents

CatalogEncryptionMode

The encryption-at-rest mode for encrypting Data Catalog data.

Type: String

Valid Values: `DISABLED | SSE-KMS | SSE-KMS-WITH-SERVICE-ROLE`

Required: Yes

CatalogEncryptionServiceRole

The role that AWS Glue assumes to encrypt and decrypt the Data Catalog objects on the caller's behalf.

Type: String

Pattern: `^arn:aws(-(cn|us-gov|iso(-[bef])?))?:iam::[0-9]{12}:role/.+`

Required: No

SseAwsKmsKeyId

The ID of the AWS KMS key to use for encryption at rest.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EncryptionConfiguration

Specifies an encryption configuration.

Contents

CloudWatchEncryption

The encryption configuration for Amazon CloudWatch.

Type: CloudWatchEncryption object

Required: No

DataQualityEncryption

The encryption configuration for AWS Glue Data Quality assets.

Type: DataQualityEncryption object

Required: No

JobBookmarksEncryption

The encryption configuration for job bookmarks.

Type: JobBookmarksEncryption object

Required: No

S3Encryption

The encryption configuration for Amazon Simple Storage Service (Amazon S3) data.

Type: Array of S3Encryption objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

Entity

An entity supported by a given `ConnectionType`.

Contents

Category

The type of entities that are present in the response. This value depends on the source connection. For example this is `SObjects` for Salesforce and `databases` or `schemas` or `tables` for sources like Amazon Redshift.

Type: String

Required: No

CustomProperties

An optional map of keys which may be returned for an entity by a connector.

Type: String to string map

Required: No

Description

A description of the entity.

Type: String

Required: No

EntityName

The name of the entity.

Type: String

Required: No

IsParentEntity

A Boolean value which helps to determine whether there are sub objects that can be listed.

Type: Boolean

Required: No

Label

Label used for the entity.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EntityConfiguration

Configuration that defines how to interact with a specific data entity through the REST API, including its access patterns and schema definition.

Contents

Schema

The schema definition for this entity, including field names, types, and other metadata that describes the structure of the data.

Type: String to FieldDefinition object map

Key Length Constraints: Minimum length of 1.

Required: No

SourceConfiguration

The source configuration that defines how to make requests to access this entity's data through the REST API.

Type: SourceConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ErrorDetail

Contains details about an error.

Contents

ErrorCode

The code associated with this error.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ErrorMessage

A message describing the error.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ErrorDetails

An object containing error details.

Contents

ErrorCode

The error code for an error.

Type: String

Required: No

ErrorMessage

The error message for an error.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EvaluateDataQuality

Specifies your data quality evaluation criteria.

Contents

Inputs

The inputs of your data quality evaluation.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data quality evaluation.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Ruleset

The ruleset for your data quality evaluation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `([\u0020-\u007E\r\s\n])*`

Required: Yes

Output

The output of your data quality evaluation.

Type: String

Valid Values: `PrimaryInput | EvaluationResults`

Required: No

PublishingOptions

Options to configure how your results are published.

Type: DQResultsPublishingOptions object

Required: No

StopJobOnFailureOptions

Options to configure how your job will stop if your data quality evaluation fails.

Type: DQStopJobOnFailureOptions object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EvaluateDataQualityMultiFrame

Specifies your data quality evaluation criteria.

Contents

Inputs

The inputs of your data quality evaluation. The first input in this list is the primary data source.

Type: Array of strings

Array Members: Minimum number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data quality evaluation.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Ruleset

The ruleset for your data quality evaluation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `([\u0020-\u007E\r\s\n])*`

Required: Yes

AdditionalDataSources

The aliases of all data sources except primary.

Type: String to string map

Key Pattern: `([^\r\n])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

AdditionalOptions

Options to configure runtime behavior of the transform.

Type: String to string map

Valid Keys: `performanceTuning.caching | observations.scope | compositeRuleEvaluation.method`

Required: No

PublishingOptions

Options to configure how your results are published.

Type: DQResultsPublishingOptions object

Required: No

StopJobOnFailureOptions

Options to configure how your job will stop if your data quality evaluation fails.

Type: DQStopJobOnFailureOptions object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EvaluationMetrics

Evaluation metrics provide an estimate of the quality of your machine learning transform.

Contents

TransformType

The type of machine learning transform.

Type: String

Valid Values: `FIND_MATCHES`

Required: Yes

FindMatchesMetrics

The evaluation metrics for the find matches algorithm.

Type: FindMatchesMetrics object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EventBatchingCondition

Batch condition that must be met (specified number of events received or batch time window expired) before EventBridge event trigger fires.

Contents

BatchSize

Number of events that must be received from Amazon EventBridge before EventBridge event trigger fires.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: Yes

BatchWindow

Window of time in seconds after which EventBridge event trigger fires. Window starts when first event is received.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 900.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ExecutionAttempt

A run attempt for a column statistics task run.

Contents

ColumnStatisticsTaskRunId

A task run ID for the last column statistics task run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ErrorMessage

An error message associated with the last column statistics task run.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

ExecutionTimestamp

A timestamp when the last column statistics task run occurred.

Type: Timestamp

Required: No

Status

The status of the last column statistics task run.

Type: String

Valid Values: `FAILED | STARTED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ExecutionProperty

An execution property of a job.

Contents

MaxConcurrentRuns

The maximum number of concurrent runs allowed for the job. The default is 1. An error is returned when this threshold is reached. The maximum value you can specify is controlled by a service limit.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ExportLabelsTaskRunProperties

Specifies configuration properties for an exporting labels task run.

Contents

OutputS3Path

The Amazon Simple Storage Service (Amazon S3) path where you will export the labels.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ExtractedParameter

Parameter extraction configuration that defines how to extract and map values from API responses to request parameters.

Contents

DefaultValue

The default value to use if the parameter cannot be extracted from the response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `.*[^<>&'"].*`

Required: No

Key

The parameter key name that will be used in subsequent requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_-]+`

Required: No

PropertyLocation

Specifies where this extracted parameter should be placed in subsequent requests, such as in headers, query parameters, or request body.

Type: String

Valid Values: `HEADER | BODY | QUERY_PARAM | PATH`

Required: No

Value

The JSON path or extraction mapping that defines how to extract the parameter value from API responses.

Type: ResponseExtractionMapping object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FederatedCatalog

A catalog that points to an entity outside the AWS Glue Data Catalog.

Contents

ConnectionName

The name of the connection to an external data source, for example a Redshift-federated catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ConnectionType

The type of connection used to access the federated catalog, specifying the protocol or method for connection to the external data source.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Identifier

A unique identifier for the federated catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FederatedDatabase

A database that points to an entity outside the AWS Glue Data Catalog.

Contents

ConnectionName

The name of the connection to the external metastore.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ConnectionType

The type of connection used to access the federated database, such as JDBC, ODBC, or other supported connection protocols.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Identifier

A unique identifier for the federated database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FederatedTable

A table that points to an entity outside the AWS Glue Data Catalog.

Contents

ConnectionName

The name of the connection to the external metastore.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ConnectionType

The type of connection used to access the federated table, specifying the protocol or method for connecting to the external data source.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseIdentifier

A unique identifier for the federated database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Identifier

A unique identifier for the federated table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Field

The `Field` object has information about the different properties associated with a field in the connector.

Contents

CustomProperties

Optional map of keys which may be returned.

Type: String to string map

Required: No

Description

A description of the field.

Type: String

Required: No

FieldName

A unique identifier for the field.

Type: String

Required: No

FieldType

The type of data in the field.

Type: String

Valid Values: `INT | SMALLINT | BIGINT | FLOAT | LONG | DATE | BOOLEAN | MAP | ARRAY | STRING | TIMESTAMP | DECIMAL | BYTE | SHORT | DOUBLE | STRUCT | BINARY | UNION`

Required: No

IsCreateable

Indicates whether this field can be created as part of a destination write.

Type: Boolean

Required: No

IsDefaultOnCreate

Indicates whether this field is populated automatically when the object is created, such as a created at timestamp.

Type: Boolean

Required: No

IsFilterable

Indicates whether this field can used in a filter clause (`WHERE` clause) of a SQL statement when querying data.

Type: Boolean

Required: No

IsNullable

Indicates whether this field can be nullable or not.

Type: Boolean

Required: No

IsPartitionable

Indicates whether a given field can be used in partitioning the query made to SaaS.

Type: Boolean

Required: No

IsPrimaryKey

Indicates whether this field can used as a primary key for the given entity.

Type: Boolean

Required: No

IsRetrievable

Indicates whether this field can be added in Select clause of SQL query or whether it is retrievable or not.

Type: Boolean

Required: No

IsUpdateable

Indicates whether this field can be updated as part of a destination write.

Type: Boolean

Required: No

IsUpsertable

Indicates whether this field can be upserted as part of a destination write.

Type: Boolean

Required: No

Label

A readable label used for the field.

Type: String

Required: No

NativeDataType

The data type returned by the SaaS API, such as “picklist” or “textarea” from Salesforce.

Type: String

Required: No

ParentField

A parent field name for a nested field.

Type: String

Required: No

SupportedFilterOperators

Indicates the support filter operators for this field.

Type: Array of strings

Valid Values: `LESS_THAN | GREATER_THAN | BETWEEN | EQUAL_TO | NOT_EQUAL_TO | GREATER_THAN_OR_EQUAL_TO | LESS_THAN_OR_EQUAL_TO | CONTAINS | ORDER_BY`

Required: No

SupportedValues

A list of supported values for the field.

Type: Array of strings

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FieldDefinition

Defines a field in an entity schema for REST connector data sources, specifying the field name and data type.

Contents

FieldDataType

The data type of the field.

Type: String

Valid Values: `INT | SMALLINT | BIGINT | FLOAT | LONG | DATE | BOOLEAN | MAP | ARRAY | STRING | TIMESTAMP | DECIMAL | BYTE | SHORT | DOUBLE | STRUCT | BINARY | UNION`

Required: Yes

Name

The name of the field in the entity schema.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FillMissingValues

Specifies a transform that locates records in the dataset that have missing values and adds a new field with a value determined by imputation. The input data set is used to train the machine learning model that determines what the missing value should be.

Contents

ImputedPath

A JSON path to a variable in the data structure for the dataset that is imputed.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

The data inputs identified by their node names.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

FilledPath

A JSON path to a variable in the data structure for the dataset that is filled.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Filter

Specifies a transform that splits a dataset into two, based on a filter condition.

Contents

Filters

Specifies a filter expression.

Type: Array of FilterExpression objects

Required: Yes

Inputs

The data inputs identified by their node names.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

LogicalOperator

The operator used to filter rows by comparing the key value to a specified value.

Type: String

Valid Values: `AND | OR`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FilterExpression

Specifies a filter expression.

Contents

Operation

The type of operation to perform in the expression.

Type: String

Valid Values: `EQ | LT | GT | LTE | GTE | REGEX | ISNULL`

Required: Yes

Values

A list of filter values.

Type: Array of FilterValue objects

Required: Yes

Negated

Whether the expression is to be negated.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FilterValue

Represents a single entry in the list of values for a `FilterExpression`.

Contents

Type

The type of filter value.

Type: String

Valid Values: `COLUMNEXTRACTED | CONSTANT`

Required: Yes

Value

The value to be associated.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FindMatchesMetrics

The evaluation metrics for the find matches algorithm. The quality of your machine learning transform is measured by getting your transform to predict some matches and comparing the results to known matches from the same dataset. The quality metrics are based on a subset of your data, so they are not precise.

Contents

AreaUnderPRCurve

The area under the precision/recall curve (AUPRC) is a single number measuring the overall quality of the transform, that is independent of the choice made for precision vs. recall. Higher values indicate that you have a more attractive precision vs. recall tradeoff.

For more information, see Precision and recall in Wikipedia.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 1.0.

Required: No

ColumnImportances

A list of `ColumnImportance` structures containing column importance metrics, sorted in order of descending importance.

Type: Array of ColumnImportance objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

ConfusionMatrix

The confusion matrix shows you what your transform is predicting accurately and what types of errors it is making.

For more information, see Confusion matrix in Wikipedia.

Type: ConfusionMatrix object

Required: No

F1

The maximum F1 metric indicates the transform's accuracy between 0 and 1, where 1 is the best accuracy.

For more information, see F1 score in Wikipedia.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 1.0.

Required: No

Precision

The precision metric indicates when often your transform is correct when it predicts a match. Specifically, it measures how well the transform finds true positives from the total true positives possible.

For more information, see Precision and recall in Wikipedia.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 1.0.

Required: No

Recall

The recall metric indicates that for an actual match, how often your transform predicts the match. Specifically, it measures how well the transform finds true positives from the total records in the source data.

For more information, see Precision and recall in Wikipedia.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 1.0.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FindMatchesParameters

The parameters to configure the find matches transform.

Contents

AccuracyCostTradeoff

The value that is selected when tuning your transform for a balance between accuracy and cost. A value of 0.5 means that the system balances accuracy and cost concerns. A value of 1.0 means a bias purely for accuracy, which typically results in a higher cost, sometimes substantially higher. A value of 0.0 means a bias purely for cost, which results in a less accurate `FindMatches` transform, sometimes with unacceptable accuracy.

Accuracy measures how well the transform finds true positives and true negatives. Increasing accuracy requires more machine resources and cost. But it also results in increased recall.

Cost measures how many compute resources, and thus money, are consumed to run the transform.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 1.0.

Required: No

EnforceProvidedLabels

The value to switch on or off to force the output to match the provided labels from users. If the value is `True`, the `find matches` transform forces the output to match the provided labels. The results override the normal conflation results. If the value is `False`, the `find matches` transform does not ensure all the labels provided are respected, and the results rely on the trained model.

Note that setting this value to true may increase the conflation execution time.

Type: Boolean

Required: No

PrecisionRecallTradeoff

The value selected when tuning your transform for a balance between precision and recall. A value of 0.5 means no preference; a value of 1.0 means a bias purely for precision, and a value

of 0.0 means a bias for recall. Because this is a tradeoff, choosing values close to 1.0 means very low recall, and choosing values close to 0.0 results in very low precision.

The precision metric indicates how often your model is correct when it predicts a match.

The recall metric indicates that for an actual match, how often your model predicts the match.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 1.0.

Required: No

PrimaryKeyColumnName

The name of a column that uniquely identifies rows in the source table. Used to help identify matching records.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FindMatchesTaskRunProperties

Specifies configuration properties for a Find Matches task run.

Contents

JobId

The job ID for the Find Matches task run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

JobName

The name assigned to the job for the Find Matches task run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

JobRunId

The job run ID for the Find Matches task run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GetConnectionsFilter

Filters the connection definitions that are returned by the `GetConnections` API operation.

Contents

ConnectionSchemaVersion

Denotes if the connection was created with schema version 1 or 2.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 2.

Required: No

ConnectionType

The type of connections to return. Currently, SFTP is not supported.

Type: String

Valid Values: `JDBC | SFTP | MONGODB | KAFKA | NETWORK | MARKETPLACE | CUSTOM | SALESFORCE | VIEW_VALIDATION_REDSHIFT | VIEW_VALIDATION_ATHENA | GOOGLEADS | GOOGLESHEETS | GOOGLEANALYTICS4 | SERVICENOW | MARKETO | SAPODATA | ZENDESK | JIRACLOUD | NETSUITEERP | HUBSPOT | FACEBOOKADS | INSTAGRAMADS | ZOHOCRM | SALESFORCEPARDOT | SALESFORCEMARKETINGCLOUD | ADOBEANALYTICS | SLACK | LINKEDIN | MIXPANEL | ASANA | STRIPE | SMARTSHEET | DATADOG | WOOCOMMERCE | INTERCOM | SNAPCHATADS | PAYPAL | QUICKBOOKS | FACEBOOKPAGEINSIGHTS | FRESHDESK | TWILIO | DOCUSIGNMONITOR | FRESHSALES | ZOOM | GOOGLESEARCHCONSOLE | SALESFORCECOMMERCECLOUD | SAPCONCUR | DYNATRACE | MICROSOFTDYNAMIC365FINANCEANDOPS | MICROSOFTTEAMS | BLACKBAUDRAISEREDGENXT | MAILCHIMP | GITLAB | PENDO | PRODUCTBOARD | CIRCLECI | PIPEDIVE | SENDGRID | AZURECOSMOS | AZURESQL | BIGQUERY | BLACKBAUD | CLOUDERAHIVE | CLOUDERAIMPALA | CLOUDWATCH | CLOUDWATCHMETRICS | CMDB | DATALAKEGEN2 | DB2 | DB2AS400 | DOCUMENTDB | DOMO | DYNAMODB | GOOGLECLOUDSTORAGE | HBASE | KUSTOMER | MICROSOFTDYNAMICS365CRM | MONDAY | MYSQL | OKTA | OPENSEARCH | ORACLE | PIPEDRIVE | POSTGRESQL | SAPHANA | SQLSERVER | SYNAPSE | TERADATA | TERADATANOS | TIMESTREAM | TPCDS | VERTICA`

Required: No

MatchCriteria

A criteria string that must match the criteria recorded in the connection definition for that connection definition to be returned.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GluePolicy

A structure for returning a resource policy.

Contents

CreateTime

The date and time at which the policy was created.

Type: Timestamp

Required: No

PolicyHash

Contains the hash value associated with this policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

PolicyInJson

Contains the requested policy document, in JSON format.

Type: String

Length Constraints: Minimum length of 2.

Required: No

UpdateTime

The date and time at which the policy was last updated.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GlueSchema

Specifies a user-defined schema when a schema cannot be determined by AWS Glue.

Contents

Columns

Specifies the column definitions that make up a AWS Glue schema.

Type: Array of GlueStudioSchemaColumn objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GlueStudioSchemaColumn

Specifies a single column in a AWS Glue schema definition.

Contents

Name

The name of the column in the AWS Glue Studio schema.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

GlueStudioType

The data type of the column as defined in AWS Glue Studio.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 131072.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Type

The hive type for this column in the AWS Glue Studio schema.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 131072.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GlueTable

The database and table in the AWS Glue Data Catalog that is used for input or output data.

Contents

DatabaseName

A database name in the AWS Glue Data Catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

TableName

A table name in the AWS Glue Data Catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

AdditionalOptions

Additional options for the table. Currently there are two keys supported:

- `pushDownPredicate`: to filter on partitions without having to list and read all the files in your dataset.
- `catalogPartitionPredicate`: to use server-side partition pruning using partition indexes in the AWS Glue Data Catalog.

Type: String to string map

Map Entries: Maximum number of 10 items.

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Minimum length of 0. Maximum length of 2048.

Value Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

CatalogId

A unique identifier for the AWS Glue Data Catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ConnectionName

The name of the connection to the AWS Glue Data Catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GovernedCatalogSource

Specifies the data store in the governed AWS Glue Data Catalog.

Contents

Database

The database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the data store.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The database table to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalOptions

Specifies additional connection options.

Type: S3SourceAdditionalOptions object

Required: No

PartitionPredicate

Partitions satisfying this predicate are deleted. Files within the retention period in these partitions are not deleted. Set to "" – empty by default.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GovernedCatalogTarget

Specifies a data target that writes to Amazon S3 using the AWS Glue Data Catalog.

Contents

Database

The name of the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

PartitionKeys

Specifies native partitioning using a sequence of keys.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

SchemaChangePolicy

A policy that specifies update behavior for the governed catalog.

Type: CatalogSchemaChangePolicy object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GrokClassifier

A classifier that uses `grok` patterns.

Contents

Classification

An identifier of the data format that the classifier matches, such as Twitter, JSON, Omniture logs, and so on.

Type: String

Required: Yes

GrokPattern

The grok pattern applied to a data store by this classifier. For more information, see built-in patterns in Writing Custom Classifiers.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\t]*`

Required: Yes

Name

The name of the classifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

CreationTime

The time that this classifier was registered.

Type: Timestamp

Required: No

CustomPatterns

Optional custom grok patterns defined by this classifier. For more information, see custom patterns in Writing Custom Classifiers.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16000.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

LastUpdated

The time that this classifier was last updated.

Type: Timestamp

Required: No

Version

The version of this classifier.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GroupFilters

Specifies a group of filters with a logical operator that determines how the filters are combined to evaluate routing conditions.

Contents

Filters

A list of filter expressions that define the conditions for this group.

Type: Array of FilterExpression objects

Required: Yes

GroupName

The name of the filter group.

Type: String

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

LogicalOperator

The logical operator used to combine the filters in this group. Determines whether all filters must match (AND) or any filter can match (OR).

Type: String

Valid Values: `AND | OR`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

HudiTarget

Specifies an Apache Hudi data source.

Contents

ConnectionName

The name of the connection to use to connect to the Hudi target. If your Hudi files are stored in buckets that require VPC authorization, you can set their connection properties here.

Type: String

Required: No

Exclusions

A list of glob patterns used to exclude from the crawl. For more information, see Catalog Tables with a Crawler.

Type: Array of strings

Required: No

MaximumTraversalDepth

The maximum depth of Amazon S3 paths that the crawler can traverse to discover the Hudi metadata folder in your Amazon S3 path. Used to limit the crawler run time.

Type: Integer

Required: No

Paths

An array of Amazon S3 location strings for Hudi, each indicating the root folder with which the metadata files for a Hudi table resides. The Hudi folder may be located in a child folder of the root folder.

The crawler will scan all folders underneath a path for a Hudi folder.

Type: Array of strings

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergCompactionConfiguration

The configuration for an Iceberg compaction optimizer. This configuration defines parameters for optimizing the layout of data files in Iceberg tables.

Contents

deleteFileThreshold

The minimum number of deletes that must be present in a data file to make it eligible for compaction. This parameter helps optimize compaction by focusing on files that contain a significant number of delete operations, which can improve query performance by removing deleted records. If an input is not provided, the default value 1 will be used.

Type: Integer

Required: No

minInputFiles

The minimum number of data files that must be present in a partition before compaction will actually compact files. This parameter helps control when compaction is triggered, preventing unnecessary compaction operations on partitions with few files. If an input is not provided, the default value 100 will be used.

Type: Integer

Required: No

strategy

The strategy to use for compaction. Valid values are:

- `binpack`: Combines small files into larger files, typically targeting sizes over 100MB, while applying any pending deletes. This is the recommended compaction strategy for most use cases.
- `sort`: Organizes data based on specified columns which are sorted hierarchically during compaction, improving query performance for filtered operations. This strategy is recommended when your queries frequently filter on specific columns. To use this strategy, you must first define a sort order in your Iceberg table properties using the `sort_order` table property.

- `z-order`: Optimizes data organization by blending multiple attributes into a single scalar value that can be used for sorting, allowing efficient querying across multiple dimensions. This strategy is recommended when you need to query data across multiple dimensions simultaneously. To use this strategy, you must first define a sort order in your Iceberg table properties using the `sort_order` table property.

If an input is not provided, the default value 'binpack' will be used.

Type: String

Valid Values: `binpack | sort | z-order`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergCompactionMetrics

Compaction metrics for Iceberg for the optimizer run.

Contents

DpuHours

The number of DPU hours consumed by the job.

Type: Double

Required: No

JobDurationInHour

The duration of the job in hours.

Type: Double

Required: No

NumberOfBytesCompacted

The number of bytes removed by the compaction job run.

Type: Long

Required: No

NumberOfDpus

The number of DPUs consumed by the job, rounded up to the nearest whole number.

Type: Integer

Required: No

NumberOfFilesCompacted

The number of files removed by the compaction job run.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergEncryptedKey

Encryption key structure used for Iceberg table encryption. Contains the key ID, encrypted key metadata, optional reference to the encrypting key, and additional properties for the table's encryption scheme.

Contents

EncryptedKeyMetadata

Encrypted key and metadata, base64 encoded. The format of encrypted key metadata is determined by the table's encryption scheme and can be a wrapped format specific to the table's KMS provider.

Type: String

Length Constraints: Maximum length of 2056.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: Yes

KeyId

Unique identifier of the encryption key used for Iceberg table encryption. This ID is used to reference the key in table metadata and track which key was used to encrypt specific data.

Type: String

Length Constraints: Maximum length of 2056.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: Yes

EncryptedById

Optional ID of the key used to encrypt or wrap the key metadata in Iceberg table encryption. This field references another encryption key that was used to encrypt the current key's metadata.

Type: String

Length Constraints: Maximum length of 2056.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

Properties

A string to string map of additional metadata used by the table's encryption scheme. These properties provide additional context and configuration for the encryption key implementation.

Type: String to string map

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergInput

A structure that defines an Apache Iceberg metadata table to create in the catalog.

Contents

MetadataOperation

A required metadata operation. Can only be set to CREATE.

Type: String

Valid Values: CREATE

Required: Yes

CreateIcebergTableInput

The configuration parameters required to create a new Iceberg table in the AWS Glue Data Catalog, including table properties and metadata specifications.

Type: CreateIcebergTableInput object

Required: No

Version

The table version for the Iceberg table. Defaults to 2.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergOptimizationProperties

A structure that specifies Iceberg table optimization properties for the catalog, including configurations for compaction, retention, and orphan file deletion operations.

Contents

Compaction

A map of key-value pairs that specify configuration parameters for Iceberg table compaction operations, which optimize the layout of data files to improve query performance.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

OrphanFileDeletion

A map of key-value pairs that specify configuration parameters for Iceberg orphan file deletion operations, which identify and remove files that are no longer referenced by the table metadata.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

Retention

A map of key-value pairs that specify configuration parameters for Iceberg table retention operations, which manage the lifecycle of table snapshots to control storage costs.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

RoleArn

The Amazon Resource Name (ARN) of the IAM role that will be assumed to perform Iceberg table optimization operations.

Type: String

Pattern: `^arn:aws(-(cn|us-gov|iso(-[bef])?))?:iam::[0-9]{12}:role/.+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergOptimizationPropertiesOutput

A structure that contains the output properties of Iceberg table optimization configuration for your catalog resource in the AWS Glue Data Catalog.

Contents

Compaction

A map of key-value pairs that specify configuration parameters for Iceberg table compaction operations, which optimize the layout of data files to improve query performance.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

LastUpdatedTime

The timestamp when the Iceberg optimization properties were last updated.

Type: Timestamp

Required: No

OrphanFileDeletion

A map of key-value pairs that specify configuration parameters for Iceberg orphan file deletion operations, which identify and remove files that are no longer referenced by the table metadata.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

Retention

A map of key-value pairs that specify configuration parameters for Iceberg table retention operations, which manage the lifecycle of table snapshots to control storage costs.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

RoleArn

The Amazon Resource Name (ARN) of the IAM role that is used to perform Iceberg table optimization operations.

Type: String

Pattern: `^arn:aws(-(cn|us-gov|iso(-[bef])?))?:iam::[0-9]{12}:role/.+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergOrphanFileDeletionConfiguration

The configuration for an Iceberg orphan file deletion optimizer.

Contents

location

Specifies a directory in which to look for files (defaults to the table's location). You may choose a sub-directory rather than the top-level table location.

Type: String

Required: No

orphanFileRetentionPeriodInDays

The number of days that orphan files should be retained before file deletion. If an input is not provided, the default value 3 will be used.

Type: Integer

Required: No

runRateInHours

The interval in hours between orphan file deletion job runs. This parameter controls how frequently the orphan file deletion optimizer will run to clean up orphan files. The value must be between 3 and 168 hours (7 days). If an input is not provided, the default value 24 will be used.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

IcebergOrphanFileDeletionMetrics

Orphan file deletion metrics for Iceberg for the optimizer run.

Contents

DpuHours

The number of DPU hours consumed by the job.

Type: Double

Required: No

JobDurationInHour

The duration of the job in hours.

Type: Double

Required: No

NumberOfDpus

The number of DPUs consumed by the job, rounded up to the nearest whole number.

Type: Integer

Required: No

NumberOfOrphanFilesDeleted

The number of orphan files deleted by the orphan file deletion job run.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergPartitionField

Defines a single partition field within an Iceberg partition specification, including the source field, transformation function, partition name, and unique identifier.

Contents

Name

The name of the partition field as it will appear in the partitioned table structure.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

SourceId

The identifier of the source field from the table schema that this partition field is based on.

Type: Integer

Required: Yes

Transform

The transformation function applied to the source field to create the partition, such as identity, bucket, truncate, year, month, day, or hour.

Type: String

Required: Yes

FieldId

The unique identifier assigned to this partition field within the Iceberg table's partition specification.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergPartitionSpec

Defines the partitioning specification for an Iceberg table, determining how table data will be organized and partitioned for optimal query performance.

Contents

Fields

The list of partition fields that define how the table data should be partitioned, including source fields and their transformations.

Type: Array of IcebergPartitionField objects

Required: Yes

SpecId

The unique identifier for this partition specification within the Iceberg table's metadata history.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergRetentionConfiguration

The configuration for an Iceberg snapshot retention optimizer.

Contents

cleanExpiredFiles

If set to false, snapshots are only deleted from table metadata, and the underlying data and metadata files are not deleted.

Type: Boolean

Required: No

numberOfSnapshotsToRetain

The number of Iceberg snapshots to retain within the retention period. If an input is not provided, the corresponding Iceberg table configuration field will be used or if not present, the default value 1 will be used.

Type: Integer

Required: No

runRateInHours

The interval in hours between retention job runs. This parameter controls how frequently the retention optimizer will run to clean up expired snapshots. The value must be between 3 and 168 hours (7 days). If an input is not provided, the default value 24 will be used.

Type: Integer

Required: No

snapshotRetentionPeriodInDays

The number of days to retain the Iceberg snapshots. If an input is not provided, the corresponding Iceberg table configuration field will be used or if not present, the default value 5 will be used.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergRetentionMetrics

Snapshot retention metrics for Iceberg for the optimizer run.

Contents

DpuHours

The number of DPU hours consumed by the job.

Type: Double

Required: No

JobDurationInHour

The duration of the job in hours.

Type: Double

Required: No

NumberOfDataFilesDeleted

The number of data files deleted by the retention job run.

Type: Long

Required: No

NumberOfDpus

The number of DPUs consumed by the job, rounded up to the nearest whole number.

Type: Integer

Required: No

NumberOfManifestFilesDeleted

The number of manifest files deleted by the retention job run.

Type: Long

Required: No

NumberOfManifestListsDeleted

The number of manifest lists deleted by the retention job run.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergSchema

Defines the schema structure for an Iceberg table, including field definitions, data types, and schema metadata.

Contents

Fields

The list of field definitions that make up the table schema, including field names, types, and metadata.

Type: Array of IcebergStructField objects

Required: Yes

IdentifierFieldIds

The list of field identifiers that uniquely identify records in the table, used for row-level operations and deduplication.

Type: Array of integers

Required: No

SchemaId

The unique identifier for this schema version within the Iceberg table's schema evolution history.

Type: Integer

Required: No

Type

The root type of the schema structure, typically "struct" for Iceberg table schemas.

Type: String

Valid Values: `struct`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergSortField

Defines a single field within an Iceberg sort order specification, including the source field, transformation, sort direction, and null value ordering.

Contents

Direction

The sort direction for this field, either ascending or descending.

Type: String

Valid Values: `asc | desc`

Required: Yes

NullOrder

The ordering behavior for null values in this field, specifying whether nulls should appear first or last in the sort order.

Type: String

Valid Values: `nulls-first | nulls-last`

Required: Yes

SourceId

The identifier of the source field from the table schema that this sort field is based on.

Type: Integer

Required: Yes

Transform

The transformation function applied to the source field before sorting, such as identity, bucket, or truncate.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergSortOrder

Defines the sort order specification for an Iceberg table, determining how data should be ordered within partitions to optimize query performance.

Contents

Fields

The list of fields and their sort directions that define the ordering criteria for the Iceberg table data.

Type: Array of IcebergSortField objects

Required: Yes

OrderId

The unique identifier for this sort order specification within the Iceberg table's metadata.

Type: Integer

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergStructField

Defines a single field within an Iceberg table schema, including its identifier, name, data type, nullability, and documentation.

Contents

Id

The unique identifier assigned to this field within the Iceberg table schema, used for schema evolution and field tracking.

Type: Integer

Required: Yes

Name

The name of the field as it appears in the table schema and query operations.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Required

Indicates whether this field is required (non-nullable) or optional (nullable) in the table schema.

Type: Boolean

Required: Yes

Type

The data type definition for this field, specifying the structure and format of the data it contains.

Type: JSON value

Required: Yes

Doc

Optional documentation or description text that provides additional context about the purpose and usage of this field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

InitialDefault

Default value used to populate the field's value for all records that were written before the field was added to the schema. This enables backward compatibility when adding new fields to existing Iceberg tables.

Type: JSON value

Required: No

WriteDefault

Default value used to populate the field's value for any records written after the field was added to the schema, if the writer does not supply the field's value. This can be changed through schema evolution.

Type: JSON value

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergTableUpdate

Defines a complete set of updates to be applied to an Iceberg table, including schema changes, partitioning modifications, sort order adjustments, location updates, and property changes.

Contents

Location

The updated S3 location where the Iceberg table data will be stored.

Type: String

Length Constraints: Maximum length of 2056.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: Yes

Schema

The updated schema definition for the Iceberg table, specifying any changes to field structure, data types, or schema metadata.

Type: IcebergSchema object

Required: Yes

Action

The type of update action to be performed on the Iceberg table. Defines the specific operation such as adding schema, setting current schema, adding partition spec, or managing encryption keys.

Type: String

Valid Values: `add-schema | set-current-schema | add-spec | set-default-spec | add-sort-order | set-default-sort-order | set-location | set-properties | remove-properties | add-encryption-key | remove-encryption-key`

Required: No

EncryptionKey

Encryption key information associated with an Iceberg table update operation. Used when adding or removing encryption keys from the table metadata during table evolution.

Type: IcebergEncryptedKey object

Required: No

KeyId

Identifier of the encryption key involved in an Iceberg table update operation. References the specific key being added to or removed from the table's encryption configuration.

Type: String

Length Constraints: Maximum length of 2056.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

PartitionSpec

The updated partitioning specification that defines how the table data should be reorganized and partitioned.

Type: IcebergPartitionSpec object

Required: No

Properties

Updated key-value pairs of table properties and configuration settings for the Iceberg table.

Type: String to string map

Required: No

SortOrder

The updated sort order specification that defines how data should be ordered within partitions for optimal query performance.

Type: IcebergSortOrder object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcebergTarget

Specifies an Apache Iceberg data source where Iceberg tables are stored in Amazon S3.

Contents

ConnectionName

The name of the connection to use to connect to the Iceberg target.

Type: String

Required: No

Exclusions

A list of glob patterns used to exclude from the crawl. For more information, see Catalog Tables with a Crawler.

Type: Array of strings

Required: No

MaximumTraversalDepth

The maximum depth of Amazon S3 paths that the crawler can traverse to discover the Iceberg metadata folder in your Amazon S3 path. Used to limit the crawler run time.

Type: Integer

Required: No

Paths

One or more Amazon S3 paths that contains Iceberg metadata folders as `s3://bucket/prefix`.

Type: Array of strings

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ImportLabelsTaskRunProperties

Specifies configuration properties for an importing labels task run.

Contents

InputS3Path

The Amazon Simple Storage Service (Amazon S3) path from where you will import the labels.

Type: String

Required: No

Replace

Indicates whether to overwrite your existing labels.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InboundIntegration

A structure for an integration that writes data into a resource.

Contents

CreateTime

The time that the integration was created, in UTC.

Type: Timestamp

Required: Yes

IntegrationArn

The ARN of the zero-ETL integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

SourceArn

The ARN of the source resource for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

Status

The possible statuses are:

- CREATING: The integration is being created.
- ACTIVE: The integration creation succeeds.
- MODIFYING: The integration is being modified.
- FAILED: The integration creation fails.
- DELETING: The integration is deleted.

- SYNCING: The integration is synchronizing.
- NEEDS_ATTENTION: The integration needs attention, such as synchronization.

Type: String

Valid Values: `CREATING | ACTIVE | MODIFYING | FAILED | DELETING | SYNCING | NEEDS_ATTENTION`

Required: Yes

TargetArn

The ARN of the target resource for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

Errors

A list of errors associated with the integration.

Type: Array of IntegrationError objects

Required: No

IntegrationConfig

Properties associated with the integration.

Type: IntegrationConfig object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

Integration

Describes a zero-ETL integration.

Contents

CreateTime

The time that the integration was created, in UTC.

Type: Timestamp

Required: Yes

IntegrationArn

The Amazon Resource Name (ARN) for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

IntegrationName

A unique name for the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

SourceArn

The ARN for the source of the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

Status

The possible statuses are:

- CREATING: The integration is being created.
- ACTIVE: The integration creation succeeds.
- MODIFYING: The integration is being modified.
- FAILED: The integration creation fails.
- DELETING: The integration is deleted.
- SYNCING: The integration is synchronizing.
- NEEDS_ATTENTION: The integration needs attention, such as synchronization.

Type: String

Valid Values: `CREATING | ACTIVE | MODIFYING | FAILED | DELETING | SYNCING | NEEDS_ATTENTION`

Required: Yes

TargetArn

The ARN for the target of the integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

AdditionalEncryptionContext

An optional set of non-secret key–value pairs that contains additional contextual information for encryption. This can only be provided if `KMSKeyId` is provided.

Type: String to string map

Required: No

DataFilter

Selects source tables for the integration using Maxwell filter syntax.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

Description

A description for the integration.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\S\s]*`

Required: No

Errors

A list of errors associated with the integration.

Type: Array of IntegrationError objects

Required: No

IntegrationConfig

Properties associated with the integration.

Type: IntegrationConfig object

Required: No

KmsKeyId

The ARN of a KMS key used for encrypting the channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

Tags

Metadata assigned to the resource consisting of a list of key-value pairs.

Type: Array of Tag objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntegrationConfig

Properties associated with the integration.

Contents

ContinuousSync

Enables continuous synchronization for on-demand data extractions from SaaS applications to AWS data services like Amazon Redshift and Amazon S3.

Type: Boolean

Required: No

RefreshInterval

Specifies the frequency at which CDC (Change Data Capture) pulls or incremental loads should occur. This parameter provides flexibility to align the refresh rate with your specific data update patterns, system load considerations, and performance optimization goals. Time increment can be set from 15 minutes to 8640 minutes (six days).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

SourceProperties

A collection of key-value pairs that specify additional properties for the integration source. These properties provide configuration options that can be used to customize the behavior of the ODB source during data integration operations.

Type: String to string map

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntegrationError

An error associated with a zero-ETL integration.

Contents

ErrorCode

The code associated with this error.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

ErrorMessage

A message describing the error.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntegrationFilter

A filter that can be used when invoking a `DescribeIntegrations` request.

Contents

Name

The name of the filter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

Values

A list of filter values.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntegrationPartition

A structure that describes how data is partitioned on the target.

Contents

ConversionSpec

Specifies the timestamp format of the source data. Valid values are:

- `epoch_sec` - Unix epoch timestamp in seconds
- `epoch_milli` - Unix epoch timestamp in milliseconds
- `iso` - ISO 8601 formatted timestamp

> **Note**
>
> Only specify `ConversionSpec` when using timestamp-based partition functions (year, month, day, or hour). AWS Glue Zero-ETL uses this parameter to correctly transform source data into timestamp format before partitioning.
> Do not use high-cardinality columns with the `identity` partition function. High-cardinality columns include:
>
> - Primary keys
> - Timestamp fields (such as `LastModifiedTimestamp`, `CreatedDate`)
> - System-generated timestamps
>
> Using high-cardinality columns with identity partitioning creates many small partitions, which can significantly degrade ingestion performance.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

FieldName

The field name used to partition data on the target. Avoid using columns that have unique values for each row (for example, `LastModifiedTimestamp`, `SystemModTimeStamp`) as the partition column. These columns are not suitable for partitioning because they create a large number of small partitions, which can lead to performance issues.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

FunctionSpec

Specifies the function used to partition data on the target. The accepted values for this parameter are:

- `identity` - Uses source values directly without transformation
- `year` - Extracts the year from timestamp values (e.g., 2023)
- `month` - Extracts the month from timestamp values (e.g., 2023-01)
- `day` - Extracts the day from timestamp values (e.g., 2023-01-15)
- `hour` - Extracts the hour from timestamp values (e.g., 2023-01-15-14)

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntegrationResourceProperty

A structure representing an integration resource property.

Contents

ResourceArn

The connection ARN of the source, or the database ARN of the target.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

ResourcePropertyArn

The resource ARN created through this create API. The format is something like arn:aws:glue:<region>:<account_id>:integrationresourceproperty/*

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

SourceProcessingProperties

The resource properties associated with the integration source.

Type: SourceProcessingProperties object

Required: No

TargetProcessingProperties

The resource properties associated with the integration target.

Type: TargetProcessingProperties object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntegrationResourcePropertyFilter

A filter for integration resource properties.

Contents

Name

The name of the filter. Supported filter keys are `SourceArn` and `TargetArn`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

Values

A list of filter values.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JDBCConnectorOptions

Additional connection options for the connector.

Contents

DataTypeMapping

Custom data type mapping that builds a mapping from a JDBC data type to an AWS Glue data type. For example, the option `"dataTypeMapping":{"FLOAT":"STRING"}` maps data fields of JDBC type `FLOAT` into the Java `String` type by calling the `ResultSet.getString()` method of the driver, and uses it to build the AWS Glue record. The `ResultSet` object is implemented by each driver, so the behavior is specific to the driver you use. Refer to the documentation for your JDBC driver to understand how the driver performs the conversions.

Type: String to string map

Valid Keys: `ARRAY | BIGINT | BINARY | BIT | BLOB | BOOLEAN | CHAR | CLOB | DATALINK | DATE | DECIMAL | DISTINCT | DOUBLE | FLOAT | INTEGER | JAVA_OBJECT | LONGNVARCHAR | LONGVARBINARY | LONGVARCHAR | NCHAR | NCLOB | NULL | NUMERIC | NVARCHAR | OTHER | REAL | REF | REF_CURSOR | ROWID | SMALLINT | SQLXML | STRUCT | TIME | TIME_WITH_TIMEZONE | TIMESTAMP | TIMESTAMP_WITH_TIMEZONE | TINYINT | VARBINARY | VARCHAR`

Valid Values: `DATE | STRING | TIMESTAMP | INT | FLOAT | LONG | BIGDECIMAL | BYTE | SHORT | DOUBLE`

Required: No

FilterPredicate

Extra condition clause to filter data from source. For example:

```
BillingCity='Mountain View'
```

When using a query instead of a table name, you should validate that the query works with the specified `filterPredicate`.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

JobBookmarkKeys

The name of the job bookmark keys on which to sort.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

JobBookmarkKeysSortOrder

Specifies an ascending or descending sort order.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

LowerBound

The minimum value of `partitionColumn` that is used to decide partition stride.

Type: Long

Valid Range: Minimum value of 0.

Required: No

NumPartitions

The number of partitions. This value, along with `lowerBound` (inclusive) and `upperBound` (exclusive), form partition strides for generated `WHERE` clause expressions that are used to split the `partitionColumn`.

Type: Long

Valid Range: Minimum value of 0.

Required: No

PartitionColumn

The name of an integer column that is used for partitioning. This option works only when it's included with `lowerBound`, `upperBound`, and `numPartitions`. This option works the same way as in the Spark SQL JDBC reader.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

UpperBound

The maximum value of `partitionColumn` that is used to decide partition stride.

Type: Long

Valid Range: Minimum value of 0.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JDBCConnectorSource

Specifies a connector to a JDBC data source.

Contents

ConnectionName

The name of the connection that is associated with the connector.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

ConnectionType

The type of connection, such as marketplace.jdbc or custom.jdbc, designating a connection to a JDBC data store.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

ConnectorName

The name of a connector that assists with accessing the data store in AWS Glue Studio.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

AdditionalOptions

Additional connection options for the connector.

Type: JDBCConnectorOptions object

Required: No

ConnectionTable

The name of the table in the data source.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

OutputSchemas

Specifies the data schema for the custom JDBC source.

Type: Array of GlueSchema objects

Required: No

Query

The table or SQL query to get the data from. You can specify either `ConnectionTable` or `query`, but not both.

Type: String

Pattern: `([\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\s])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JDBCConnectorTarget

Specifies a data target that writes to Amazon S3 in Apache Parquet columnar storage.

Contents

ConnectionName

The name of the connection that is associated with the connector.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

ConnectionTable

The name of the table in the data target.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

ConnectionType

The type of connection, such as marketplace.jdbc or custom.jdbc, designating a connection to a JDBC data target.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

ConnectorName

The name of a connector that will be used.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

AdditionalOptions

Additional connection options for the connector.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

OutputSchemas

Specifies the data schema for the JDBC target.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JdbcTarget

Specifies a JDBC data store to crawl.

Contents

ConnectionName

The name of the connection to use to connect to the JDBC target.

Type: String

Required: No

EnableAdditionalMetadata

Specify a value of `RAWTYPES` or `COMMENTS` to enable additional metadata in table responses. `RAWTYPES` provides the native-level datatype. `COMMENTS` provides comments associated with a column or table in the database.

If you do not need additional metadata, keep the field empty.

Type: Array of strings

Valid Values: `COMMENTS | RAWTYPES`

Required: No

Exclusions

A list of glob patterns used to exclude from the crawl. For more information, see Catalog Tables with a Crawler.

Type: Array of strings

Required: No

Path

The path of the JDBC target.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Job

Specifies a job definition.

Contents

AllocatedCapacity

This field is deprecated. Use `MaxCapacity` instead.

The number of AWS Glue data processing units (DPUs) allocated to runs of this job. You can allocate a minimum of 2 DPUs; the default is 10. A DPU is a relative measure of processing power that consists of 4 vCPUs of compute capacity and 16 GB of memory. For more information, see the AWS Glue pricing page.

Type: Integer

Required: No

CodeGenConfigurationNodes

The representation of a directed acyclic graph on which both the Glue Studio visual component and Glue Studio code generation is based.

Type: String to CodeGenConfigurationNode object map

Key Pattern: `[A-Za-z0-9_-]*`

Required: No

Command

The `JobCommand` that runs this job.

Type: JobCommand object

Required: No

Connections

The connections used for this job.

Type: ConnectionsList object

Required: No

CreatedOn

The time and date that this job definition was created.

Type: Timestamp

Required: No

DefaultArguments

The default arguments for every run of this job, specified as name-value pairs.

You can specify arguments here that your own job-execution script consumes, as well as arguments that AWS Glue itself consumes.

Job arguments may be logged. Do not pass plaintext secrets as arguments. Retrieve secrets from a AWS Glue Connection, AWS Secrets Manager or other secret management mechanism if you intend to keep them within the Job.

For information about how to specify and consume your own Job arguments, see the Calling AWS Glue APIs in Python topic in the developer guide.

For information about the arguments you can provide to this field when configuring Spark jobs, see the Special Parameters Used by AWS Glue topic in the developer guide.

For information about the arguments you can provide to this field when configuring Ray jobs, see Using job parameters in Ray jobs in the developer guide.

Type: String to string map

Required: No

Description

A description of the job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

ExecutionClass

Indicates whether the job is run with a standard or flexible execution class. The standard execution class is ideal for time-sensitive workloads that require fast job startup and dedicated resources.

The flexible execution class is appropriate for time-insensitive jobs whose start and completion times may vary.

Only jobs with AWS Glue version 3.0 and above and command type `glueetl` will be allowed to set `ExecutionClass` to `FLEX`. The flexible execution class is available for Spark jobs.

Type: String

Length Constraints: Maximum length of 16.

Valid Values: `FLEX | STANDARD`

Required: No

ExecutionProperty

An `ExecutionProperty` specifying the maximum number of concurrent runs allowed for this job.

Type: ExecutionProperty object

Required: No

GlueVersion

In Spark jobs, `GlueVersion` determines the versions of Apache Spark and Python that AWS Glue available in a job. The Python version indicates the version supported for jobs of type Spark.

Ray jobs should set `GlueVersion` to `4.0` or greater. However, the versions of Ray, Python and additional libraries available in your Ray job are determined by the `Runtime` parameter of the Job command.

For more information about the available AWS Glue versions and corresponding Spark and Python versions, see Glue version in the developer guide.

Jobs that are created without specifying a Glue version default to Glue 0.9.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `^(\w+\.)+\w+$`

Required: No

JobMode

A mode that describes how a job was created. Valid values are:

- `SCRIPT` - The job was created using the AWS Glue Studio script editor.
- `VISUAL` - The job was created using the AWS Glue Studio visual editor.
- `NOTEBOOK` - The job was created using an interactive sessions notebook.

When the `JobMode` field is missing or null, `SCRIPT` is assigned as the default value.

Type: String

Valid Values: `SCRIPT | VISUAL | NOTEBOOK`

Required: No

JobRunQueuingEnabled

Specifies whether job run queuing is enabled for the job runs for this job.

A value of true means job run queuing is enabled for the job runs. If false or not populated, the job runs will not be considered for queueing.

If this field does not match the value set in the job run, then the value from the job run field will be used.

Type: Boolean

Required: No

LastModifiedOn

The last point in time when this job definition was modified.

Type: Timestamp

Required: No

LogUri

This field is reserved for future use.

Type: String

Required: No

MaintenanceWindow

This field specifies a day of the week and hour for a maintenance window for streaming jobs. AWS Glue periodically performs maintenance activities. During these maintenance windows, AWS Glue will need to restart your streaming jobs.

AWS Glue will restart the job within 3 hours of the specified maintenance window. For instance, if you set up the maintenance window for Monday at 10:00AM GMT, your jobs will be restarted between 10:00AM GMT to 1:00PM GMT.

Type: String

Pattern: `^(Sun|Mon|Tue|Wed|Thu|Fri|Sat):([01]?[0-9]|2[0-3])$`

Required: No

MaxCapacity

For Glue version 1.0 or earlier jobs, using the standard worker type, the number of AWS Glue data processing units (DPUs) that can be allocated when this job runs. A DPU is a relative measure of processing power that consists of 4 vCPUs of compute capacity and 16 GB of memory. For more information, see the AWS Glue pricing page.

For Glue version 2.0 or later jobs, you cannot specify a `Maximum capacity`. Instead, you should specify a `Worker type` and the `Number of workers`.

Do not set `MaxCapacity` if using `WorkerType` and `NumberOfWorkers`.

The value that can be allocated for `MaxCapacity` depends on whether you are running a Python shell job, an Apache Spark ETL job, or an Apache Spark streaming ETL job:

- When you specify a Python shell job (`JobCommand.Name`="pythonshell"), you can allocate either 0.0625 or 1 DPU. The default is 0.0625 DPU.
- When you specify an Apache Spark ETL job (`JobCommand.Name`="glueetl") or Apache Spark streaming ETL job (`JobCommand.Name`="gluestreaming"), you can allocate from 2 to 100 DPUs. The default is 10 DPUs. This job type cannot have a fractional DPU allocation.

Type: Double

Required: No

MaxRetries

The maximum number of times to retry this job after a JobRun fails.

Type: Integer

Required: No

Name

The name you assign to this job definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

NonOverridableArguments

Arguments for this job that are not overridden when providing job arguments in a job run, specified as name-value pairs.

Type: String to string map

Required: No

NotificationProperty

Specifies configuration properties of a job notification.

Type: NotificationProperty object

Required: No

NumberOfWorkers

The number of workers of a defined `workerType` that are allocated when a job runs.

Type: Integer

Required: No

ProfileName

The name of an AWS Glue usage profile associated with the job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Role

The name or Amazon Resource Name (ARN) of the IAM role associated with this job.

Type: String

Required: No

SecurityConfiguration

The name of the `SecurityConfiguration` structure to be used with this job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

SourceControlDetails

The details for a source control configuration for a job, allowing synchronization of job artifacts to or from a remote repository.

Type: SourceControlDetails object

Required: No

Timeout

The job timeout in minutes. This is the maximum time that a job run can consume resources before it is terminated and enters `TIMEOUT` status.

Jobs must have timeout values less than 7 days or 10080 minutes. Otherwise, the jobs will throw an exception.

When the value is left blank, the timeout is defaulted to 2880 minutes.

Any existing AWS Glue jobs that had a timeout value greater than 7 days will be defaulted to 7 days. For instance if you have specified a timeout of 20 days for a batch job, it will be stopped on the 7th day.

For streaming jobs, if you have set up a maintenance window, it will be restarted during the maintenance window after 7 days.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

WorkerType

The type of predefined worker that is allocated when a job runs.

AWS Glue provides multiple worker types to accommodate different workload requirements:

G Worker Types (General-purpose compute workers):

- G.1X: 1 DPU (4 vCPUs, 16 GB memory, 94GB disk)
- G.2X: 2 DPU (8 vCPUs, 32 GB memory, 138GB disk)
- G.4X: 4 DPU (16 vCPUs, 64 GB memory, 256GB disk)
- G.8X: 8 DPU (32 vCPUs, 128 GB memory, 512GB disk)
- G.12X: 12 DPU (48 vCPUs, 192 GB memory, 768GB disk)
- G.16X: 16 DPU (64 vCPUs, 256 GB memory, 1024GB disk)

R Worker Types (Memory-optimized workers):

- R.1X: 1 M-DPU (4 vCPUs, 32 GB memory)
- R.2X: 2 M-DPU (8 vCPUs, 64 GB memory)
- R.4X: 4 M-DPU (16 vCPUs, 128 GB memory)
- R.8X: 8 M-DPU (32 vCPUs, 256 GB memory)

Type: String

Valid Values: `Standard | G.1X | G.2X | G.025X | G.4X | G.8X | Z.2X`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JobBookmarkEntry

Defines a point that a job can resume processing.

Contents

Attempt

The attempt ID number.

Type: Integer

Required: No

JobBookmark

The bookmark itself.

Type: String

Required: No

JobName

The name of the job in question.

Type: String

Required: No

PreviousRunId

The unique run identifier associated with the previous job run.

Type: String

Required: No

Run

The run ID number.

Type: Integer

Required: No

RunId

The run ID number.

Type: String

Required: No

Version

The version of the job.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JobBookmarksEncryption

Specifies how job bookmark data should be encrypted.

Contents

JobBookmarksEncryptionMode

The encryption mode to use for job bookmarks data.

Type: String

Valid Values: `DISABLED | CSE-KMS`

Required: No

KmsKeyArn

The Amazon Resource Name (ARN) of the KMS key to be used to encrypt the data.

Type: String

Pattern: `^$|arn:aws[a-z0-9-]*:kms:.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JobCommand

Specifies code that runs when a job is run.

Contents

Name

The name of the job command. For an Apache Spark ETL job, this must be `glueetl`. For a Python shell job, it must be `pythonshell`. For an Apache Spark streaming ETL job, this must be `gluestreaming`. For a Ray job, this must be `glueray`.

Type: String

Required: No

PythonVersion

The Python version being used to run a Python shell job. Allowed values are 2 or 3.

Type: String

Pattern: `^([2-3]|3[.]9)$`

Required: No

Runtime

In Ray jobs, Runtime is used to specify the versions of Ray, Python and additional libraries available in your environment. This field is not used in other job types. For supported runtime environment values, see Supported Ray runtime environments in the AWS Glue Developer Guide.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `.*`

Required: No

ScriptLocation

Specifies the Amazon Simple Storage Service (Amazon S3) path to a script that runs a job.

Type: String

Length Constraints: Maximum length of 400000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JobNodeDetails

The details of a Job node present in the workflow.

Contents

JobRuns

The information for the job runs represented by the job node.

Type: Array of JobRun objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JobRun

Contains information about a job run.

Contents

AllocatedCapacity

This field is deprecated. Use `MaxCapacity` instead.

The number of AWS Glue data processing units (DPUs) allocated to this JobRun. From 2 to 100 DPUs can be allocated; the default is 10. A DPU is a relative measure of processing power that consists of 4 vCPUs of compute capacity and 16 GB of memory. For more information, see the AWS Glue pricing page.

Type: Integer

Required: No

Arguments

The job arguments associated with this run. For this job run, they replace the default arguments set in the job definition itself.

You can specify arguments here that your own job-execution script consumes, as well as arguments that AWS Glue itself consumes.

Job arguments may be logged. Do not pass plaintext secrets as arguments. Retrieve secrets from a AWS Glue Connection, AWS Secrets Manager or other secret management mechanism if you intend to keep them within the Job.

For information about how to specify and consume your own Job arguments, see the Calling AWS Glue APIs in Python topic in the developer guide.

For information about the arguments you can provide to this field when configuring Spark jobs, see the Special Parameters Used by AWS Glue topic in the developer guide.

For information about the arguments you can provide to this field when configuring Ray jobs, see Using job parameters in Ray jobs in the developer guide.

Type: String to string map

Required: No

Attempt

The number of the attempt to run this job.

Type: Integer

Required: No

CompletedOn

The date and time that this job run completed.

Type: Timestamp

Required: No

DPUSeconds

This field can be set for either job runs with execution class `FLEX` or when Auto Scaling is enabled, and represents the total time each executor ran during the lifecycle of a job run in seconds, multiplied by a DPU factor (1 for `G.1X`, 2 for `G.2X`, or 0.25 for `G.025X` workers). This value may be different than the `executionEngineRuntime` * `MaxCapacity` as in the case of Auto Scaling jobs, as the number of executors running at a given time may be less than the `MaxCapacity`. Therefore, it is possible that the value of `DPUSeconds` is less than `executionEngineRuntime` * `MaxCapacity`.

Type: Double

Required: No

ErrorMessage

An error message associated with this job run.

Type: String

Required: No

ExecutionClass

Indicates whether the job is run with a standard or flexible execution class. The standard execution-class is ideal for time-sensitive workloads that require fast job startup and dedicated resources.

The flexible execution class is appropriate for time-insensitive jobs whose start and completion times may vary.

Only jobs with AWS Glue version 3.0 and above and command type `glueetl` will be allowed to set `ExecutionClass` to `FLEX`. The flexible execution class is available for Spark jobs.

Type: String

Length Constraints: Maximum length of 16.

Valid Values: `FLEX | STANDARD`

Required: No

ExecutionRoleSessionPolicy

This inline session policy to the StartJobRun API allows you to dynamically restrict the permissions of the specified execution role for the scope of the job, without requiring the creation of additional IAM roles.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 2048.

Required: No

ExecutionTime

The amount of time (in seconds) that the job run consumed resources.

Type: Integer

Required: No

GlueVersion

In Spark jobs, `GlueVersion` determines the versions of Apache Spark and Python that AWS Glue available in a job. The Python version indicates the version supported for jobs of type Spark.

Ray jobs should set `GlueVersion` to `4.0` or greater. However, the versions of Ray, Python and additional libraries available in your Ray job are determined by the `Runtime` parameter of the Job command.

For more information about the available AWS Glue versions and corresponding Spark and Python versions, see Glue version in the developer guide.

Jobs that are created without specifying a Glue version default to Glue 0.9.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `^(\w+\.)+\w+$`

Required: No

Id

The ID of this job run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

JobMode

A mode that describes how a job was created. Valid values are:

- `SCRIPT` - The job was created using the AWS Glue Studio script editor.
- `VISUAL` - The job was created using the AWS Glue Studio visual editor.
- `NOTEBOOK` - The job was created using an interactive sessions notebook.

When the `JobMode` field is missing or null, `SCRIPT` is assigned as the default value.

Type: String

Valid Values: `SCRIPT | VISUAL | NOTEBOOK`

Required: No

JobName

The name of the job definition being used in this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

JobRunQueuingEnabled

Specifies whether job run queuing is enabled for the job run.

A value of true means job run queuing is enabled for the job run. If false or not populated, the job run will not be considered for queueing.

Type: Boolean

Required: No

JobRunState

The current state of the job run. For more information about the statuses of jobs that have terminated abnormally, see AWS Glue Job Run Statuses.

Type: String

Valid Values: `STARTING | RUNNING | STOPPING | STOPPED | SUCCEEDED | FAILED | TIMEOUT | ERROR | WAITING | EXPIRED`

Required: No

LastModifiedOn

The last time that this job run was modified.

Type: Timestamp

Required: No

LogGroupName

The name of the log group for secure logging that can be server-side encrypted in Amazon CloudWatch using AWS KMS. This name can be `/aws-glue/jobs/`, in which case the default encryption is `NONE`. If you add a role name and `SecurityConfiguration` name (in other words, `/aws-glue/jobs-yourRoleName-yourSecurityConfigurationName/`), then that security configuration is used to encrypt the log group.

Type: String

Required: No

MaintenanceWindow

This field specifies a day of the week and hour for a maintenance window for streaming jobs. AWS Glue periodically performs maintenance activities. During these maintenance windows, AWS Glue will need to restart your streaming jobs.

AWS Glue will restart the job within 3 hours of the specified maintenance window. For instance, if you set up the maintenance window for Monday at 10:00AM GMT, your jobs will be restarted between 10:00AM GMT to 1:00PM GMT.

Type: String

Pattern: `^(Sun|Mon|Tue|Wed|Thu|Fri|Sat):([01]?[0-9]|2[0-3])$`

Required: No

MaxCapacity

For Glue version 1.0 or earlier jobs, using the standard worker type, the number of AWS Glue data processing units (DPUs) that can be allocated when this job runs. A DPU is a relative measure of processing power that consists of 4 vCPUs of compute capacity and 16 GB of memory. For more information, see the AWS Glue pricing page.

For Glue version 2.0+ jobs, you cannot specify a `Maximum capacity`. Instead, you should specify a `Worker type` and the `Number of workers`.

Do not set `MaxCapacity` if using `WorkerType` and `NumberOfWorkers`.

The value that can be allocated for `MaxCapacity` depends on whether you are running a Python shell job, an Apache Spark ETL job, or an Apache Spark streaming ETL job:

- When you specify a Python shell job (`JobCommand.Name="pythonshell"`), you can allocate either 0.0625 or 1 DPU. The default is 0.0625 DPU.
- When you specify an Apache Spark ETL job (`JobCommand.Name="glueetl"`) or Apache Spark streaming ETL job (`JobCommand.Name="gluestreaming"`), you can allocate from 2 to 100 DPUs. The default is 10 DPUs. This job type cannot have a fractional DPU allocation.

Type: Double

Required: No

NotificationProperty

Specifies configuration properties of a job run notification.

Type: NotificationProperty object

Required: No

NumberOfWorkers

The number of workers of a defined `workerType` that are allocated when a job runs.

Type: Integer

Required: No

PredecessorRuns

A list of predecessors to this job run.

Type: Array of Predecessor objects

Required: No

PreviousRunId

The ID of the previous run of this job. For example, the `JobRunId` specified in the `StartJobRun` action.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ProfileName

The name of an AWS Glue usage profile associated with the job run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

SecurityConfiguration

The name of the `SecurityConfiguration` structure to be used with this job run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

StartedOn

The date and time at which this job run was started.

Type: Timestamp

Required: No

StateDetail

This field holds details that pertain to the state of a job run. The field is nullable.

For example, when a job run is in a WAITING state as a result of job run queuing, the field has the reason why the job run is in that state.

Type: String

Length Constraints: Maximum length of 400000.

Required: No

Timeout

The `JobRun` timeout in minutes. This is the maximum time that a job run can consume resources before it is terminated and enters `TIMEOUT` status. This value overrides the timeout value set in the parent job.

Jobs must have timeout values less than 7 days or 10080 minutes. Otherwise, the jobs will throw an exception.

When the value is left blank, the timeout is defaulted to 2880 minutes.

Any existing AWS Glue jobs that had a timeout value greater than 7 days will be defaulted to 7 days. For instance if you have specified a timeout of 20 days for a batch job, it will be stopped on the 7th day.

For streaming jobs, if you have set up a maintenance window, it will be restarted during the maintenance window after 7 days.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

TriggerName

The name of the trigger that started this job run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

WorkerType

The type of predefined worker that is allocated when a job runs. Accepts a value of G.1X, G.2X, G.4X, G.8X or G.025X for Spark jobs. Accepts the value Z.2X for Ray jobs.

- For the `G.1X` worker type, each worker maps to 1 DPU (4 vCPUs, 16 GB of memory) with 94GB disk, and provides 1 executor per worker. We recommend this worker type for workloads such as data transforms, joins, and queries, to offers a scalable and cost effective way to run most jobs.
- For the `G.2X` worker type, each worker maps to 2 DPU (8 vCPUs, 32 GB of memory) with 138GB disk, and provides 1 executor per worker. We recommend this worker type for workloads such as data transforms, joins, and queries, to offers a scalable and cost effective way to run most jobs.
- For the `G.4X` worker type, each worker maps to 4 DPU (16 vCPUs, 64 GB of memory) with 256GB disk, and provides 1 executor per worker. We recommend this worker type for jobs

whose workloads contain your most demanding transforms, aggregations, joins, and queries. This worker type is available only for AWS Glue version 3.0 or later Spark ETL jobs in the following AWS Regions: US East (Ohio), US East (N. Virginia), US West (Oregon), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Europe (Frankfurt), Europe (Ireland), and Europe (Stockholm).

- For the `G.8X` worker type, each worker maps to 8 DPU (32 vCPUs, 128 GB of memory) with 512GB disk, and provides 1 executor per worker. We recommend this worker type for jobs whose workloads contain your most demanding transforms, aggregations, joins, and queries. This worker type is available only for AWS Glue version 3.0 or later Spark ETL jobs, in the same AWS Regions as supported for the `G.4X` worker type.
- For the `G.025X` worker type, each worker maps to 0.25 DPU (2 vCPUs, 4 GB of memory) with 84GB disk, and provides 1 executor per worker. We recommend this worker type for low volume streaming jobs. This worker type is only available for AWS Glue version 3.0 or later streaming jobs.
- For the `Z.2X` worker type, each worker maps to 2 M-DPU (8vCPUs, 64 GB of memory) with 128 GB disk, and provides up to 8 Ray workers based on the autoscaler.

Type: String

Valid Values: `Standard | G.1X | G.2X | G.025X | G.4X | G.8X | Z.2X`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JobUpdate

Specifies information used to update an existing job definition. The previous job definition is completely overwritten by this information.

Contents

AllocatedCapacity

This field is deprecated. Use `MaxCapacity` instead.

The number of AWS Glue data processing units (DPUs) to allocate to this job. You can allocate a minimum of 2 DPUs; the default is 10. A DPU is a relative measure of processing power that consists of 4 vCPUs of compute capacity and 16 GB of memory. For more information, see the AWS Glue pricing page.

Type: Integer

Required: No

CodeGenConfigurationNodes

The representation of a directed acyclic graph on which both the Glue Studio visual component and Glue Studio code generation is based.

Type: String to CodeGenConfigurationNode object map

Key Pattern: `[A-Za-z0-9_-]*`

Required: No

Command

The `JobCommand` that runs this job (required).

Type: JobCommand object

Required: No

Connections

The connections used for this job.

Type: ConnectionsList object

Required: No

DefaultArguments

The default arguments for every run of this job, specified as name-value pairs.

You can specify arguments here that your own job-execution script consumes, as well as arguments that AWS Glue itself consumes.

Job arguments may be logged. Do not pass plaintext secrets as arguments. Retrieve secrets from a AWS Glue Connection, AWS Secrets Manager or other secret management mechanism if you intend to keep them within the Job.

For information about how to specify and consume your own Job arguments, see the Calling AWS Glue APIs in Python topic in the developer guide.

For information about the arguments you can provide to this field when configuring Spark jobs, see the Special Parameters Used by AWS Glue topic in the developer guide.

For information about the arguments you can provide to this field when configuring Ray jobs, see Using job parameters in Ray jobs in the developer guide.

Type: String to string map

Required: No

Description

Description of the job being defined.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

ExecutionClass

Indicates whether the job is run with a standard or flexible execution class. The standard execution-class is ideal for time-sensitive workloads that require fast job startup and dedicated resources.

The flexible execution class is appropriate for time-insensitive jobs whose start and completion times may vary.

Only jobs with AWS Glue version 3.0 and above and command type `glueetl` will be allowed to set `ExecutionClass` to `FLEX`. The flexible execution class is available for Spark jobs.

Type: String

Length Constraints: Maximum length of 16.

Valid Values: `FLEX | STANDARD`

Required: No

ExecutionProperty

An `ExecutionProperty` specifying the maximum number of concurrent runs allowed for this job.

Type: ExecutionProperty object

Required: No

GlueVersion

In Spark jobs, `GlueVersion` determines the versions of Apache Spark and Python that AWS Glue available in a job. The Python version indicates the version supported for jobs of type Spark.

Ray jobs should set `GlueVersion` to `4.0` or greater. However, the versions of Ray, Python and additional libraries available in your Ray job are determined by the `Runtime` parameter of the Job command.

For more information about the available AWS Glue versions and corresponding Spark and Python versions, see Glue version in the developer guide.

Jobs that are created without specifying a Glue version default to Glue 0.9.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `^(\w+\.)+\w+$`

Required: No

JobMode

A mode that describes how a job was created. Valid values are:

- `SCRIPT` - The job was created using the AWS Glue Studio script editor.
- `VISUAL` - The job was created using the AWS Glue Studio visual editor.
- `NOTEBOOK` - The job was created using an interactive sessions notebook.

When the `JobMode` field is missing or null, `SCRIPT` is assigned as the default value.

Type: String

Valid Values: `SCRIPT | VISUAL | NOTEBOOK`

Required: No

JobRunQueuingEnabled

Specifies whether job run queuing is enabled for the job runs for this job.

A value of true means job run queuing is enabled for the job runs. If false or not populated, the job runs will not be considered for queueing.

If this field does not match the value set in the job run, then the value from the job run field will be used.

Type: Boolean

Required: No

LogUri

This field is reserved for future use.

Type: String

Required: No

MaintenanceWindow

This field specifies a day of the week and hour for a maintenance window for streaming jobs. AWS Glue periodically performs maintenance activities. During these maintenance windows, AWS Glue will need to restart your streaming jobs.

AWS Glue will restart the job within 3 hours of the specified maintenance window. For instance, if you set up the maintenance window for Monday at 10:00AM GMT, your jobs will be restarted between 10:00AM GMT to 1:00PM GMT.

Type: String

Pattern: `^(Sun|Mon|Tue|Wed|Thu|Fri|Sat):([01]?[0-9]|2[0-3])$`

Required: No

MaxCapacity

For Glue version 1.0 or earlier jobs, using the standard worker type, the number of AWS Glue data processing units (DPUs) that can be allocated when this job runs. A DPU is a relative measure of processing power that consists of 4 vCPUs of compute capacity and 16 GB of memory. For more information, see the AWS Glue pricing page.

For Glue version 2.0+ jobs, you cannot specify a `Maximum capacity`. Instead, you should specify a `Worker type` and the `Number of workers`.

Do not set `MaxCapacity` if using `WorkerType` and `NumberOfWorkers`.

The value that can be allocated for `MaxCapacity` depends on whether you are running a Python shell job, an Apache Spark ETL job, or an Apache Spark streaming ETL job:

- When you specify a Python shell job (`JobCommand.Name="pythonshell"`), you can allocate either 0.0625 or 1 DPU. The default is 0.0625 DPU.
- When you specify an Apache Spark ETL job (`JobCommand.Name="glueetl"`) or Apache Spark streaming ETL job (`JobCommand.Name="gluestreaming"`), you can allocate from 2 to 100 DPUs. The default is 10 DPUs. This job type cannot have a fractional DPU allocation.

Type: Double

Required: No

MaxRetries

The maximum number of times to retry this job if it fails.

Type: Integer

Required: No

NonOverridableArguments

Arguments for this job that are not overridden when providing job arguments in a job run, specified as name-value pairs.

Type: String to string map

Required: No

NotificationProperty

Specifies the configuration properties of a job notification.

Type: NotificationProperty object

Required: No

NumberOfWorkers

The number of workers of a defined `workerType` that are allocated when a job runs.

Type: Integer

Required: No

Role

The name or Amazon Resource Name (ARN) of the IAM role associated with this job (required).

Type: String

Required: No

SecurityConfiguration

The name of the `SecurityConfiguration` structure to be used with this job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

SourceControlDetails

The details for a source control configuration for a job, allowing synchronization of job artifacts to or from a remote repository.

Type: SourceControlDetails object

Required: No

Timeout

The job timeout in minutes. This is the maximum time that a job run can consume resources before it is terminated and enters `TIMEOUT` status.

Jobs must have timeout values less than 7 days or 10080 minutes. Otherwise, the jobs will throw an exception.

When the value is left blank, the timeout is defaulted to 2880 minutes.

Any existing AWS Glue jobs that had a timeout value greater than 7 days will be defaulted to 7 days. For instance if you have specified a timeout of 20 days for a batch job, it will be stopped on the 7th day.

For streaming jobs, if you have set up a maintenance window, it will be restarted during the maintenance window after 7 days.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

WorkerType

The type of predefined worker that is allocated when a job runs. Accepts a value of G.1X, G.2X, G.4X, G.8X or G.025X for Spark jobs. Accepts the value Z.2X for Ray jobs. For more information, see Defining job properties for Spark jobs

Type: String

Valid Values: `Standard | G.1X | G.2X | G.025X | G.4X | G.8X | Z.2X`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Join

Specifies a transform that joins two datasets into one dataset using a comparison phrase on the specified data property keys. You can use inner, outer, left, right, left semi, and left anti joins.

Contents

Columns

A list of the two columns to be joined.

Type: Array of JoinColumn objects

Array Members: Fixed number of 2 items.

Required: Yes

Inputs

The data inputs identified by their node names.

Type: Array of strings

Array Members: Fixed number of 2 items.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

JoinType

Specifies the type of join to be performed on the datasets.

Type: String

Valid Values: `equijoin | left | right | outer | leftsemi | leftanti`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JoinColumn

Specifies a column to be joined.

Contents

From

The column to be joined.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Keys

The key of the column to be joined.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JsonClassifier

A classifier for `JSON` content.

Contents

JsonPath

A `JsonPath` string defining the JSON data for the classifier to classify. AWS Glue supports a subset of JsonPath, as described in Writing JsonPath Custom Classifiers.

Type: String

Required: Yes

Name

The name of the classifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

CreationTime

The time that this classifier was registered.

Type: Timestamp

Required: No

LastUpdated

The time that this classifier was last updated.

Type: Timestamp

Required: No

Version

The version of this classifier.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JWTBearerProperties

JWT bearer token configuration that defines the properties needed for the JWT Bearer grant type flow.

Contents

ContentType

The content type to use for JWT bearer token requests, such as application/x-www-form-urlencoded or application/json.

Type: String

Valid Values: `APPLICATION_JSON | URL_ENCODED`

Required: No

JwtToken

The JWT token to be used in the bearer token grant flow for authentication.

Type: ConnectorProperty object

Required: No

RequestMethod

The HTTP method to use when making JWT bearer token requests, typically POST.

Type: String

Valid Values: `GET | POST`

Required: No

TokenUrl

The token endpoint URL where the JWT bearer token will be exchanged for an access token.

Type: ConnectorProperty object

Required: No

TokenUrlParameters

Additional parameters to include in token URL requests as key-value pairs.

Type: Array of ConnectorProperty objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

KafkaStreamingSourceOptions

Additional options for streaming.

Contents

AddRecordTimestamp

When this option is set to 'true', the data output will contain an additional column named "__src_timestamp" that indicates the time when the corresponding record received by the topic. The default value is 'false'. This option is supported in AWS Glue version 4.0 or later.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

Assign

The specific `TopicPartitions` to consume. You must specify at least one of `"topicName"`, `"assign"` or `"subscribePattern"`.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

BootstrapServers

A list of bootstrap server URLs, for example, as `b-1.vpc-test-2.o4q88o.c6.kafka.us-east-1.amazonaws.com:9094`. This option must be specified in the API call or defined in the table metadata in the Data Catalog.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

Classification

An optional classification.

Type: String

Pattern: ([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*

Required: No

ConnectionName

The name of the connection.

Type: String

Pattern: ([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*

Required: No

Delimiter

Specifies the delimiter character.

Type: String

Pattern: ([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*

Required: No

EmitConsumerLagMetrics

When this option is set to 'true', for each batch, it will emit the metrics for the duration between the oldest record received by the topic and the time it arrives in AWS Glue to CloudWatch. The metric's name is "glue.driver.streaming.maxConsumerLagInMs". The default value is 'false'. This option is supported in AWS Glue version 4.0 or later.

Type: String

Pattern: ([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*

Required: No

EndingOffsets

The end point when a batch query is ended. Possible values are either `"latest"` or a JSON string that specifies an ending offset for each `TopicPartition`.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

IncludeHeaders

Whether to include the Kafka headers. When the option is set to "true", the data output will contain an additional column named "glue_streaming_kafka_headers" with type `Array[Struct(key: String, value: String)]`. The default value is "false". This option is available in AWS Glue version 3.0 or later only.

Type: Boolean

Required: No

MaxOffsetsPerTrigger

The rate limit on the maximum number of offsets that are processed per trigger interval. The specified total number of offsets is proportionally split across `topicPartitions` of different volumes. The default value is null, which means that the consumer reads all offsets until the known latest offset.

Type: Long

Valid Range: Minimum value of 0.

Required: No

MinPartitions

The desired minimum number of partitions to read from Kafka. The default value is null, which means that the number of spark partitions is equal to the number of Kafka partitions.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

NumRetries

The number of times to retry before failing to fetch Kafka offsets. The default value is 3.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

PollTimeoutMs

The timeout in milliseconds to poll data from Kafka in Spark job executors. The default value is 512.

Type: Long

Valid Range: Minimum value of 0.

Required: No

RetryIntervalMs

The time in milliseconds to wait before retrying to fetch Kafka offsets. The default value is 10.

Type: Long

Valid Range: Minimum value of 0.

Required: No

SecurityProtocol

The protocol used to communicate with brokers. The possible values are `"SSL"` or `"PLAINTEXT"`.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

StartingOffsets

The starting position in the Kafka topic to read data from. The possible values are `"earliest"` or `"latest"`. The default value is `"latest"`.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

StartingTimestamp

The timestamp of the record in the Kafka topic to start reading data from. The possible values are a timestamp string in UTC format of the pattern `yyyy-mm-ddTHH:MM:SSZ` (where Z represents a UTC timezone offset with a +/-. For example: "2023-04-04T08:00:00+08:00").

Only one of `StartingTimestamp` or `StartingOffsets` must be set.

Type: Timestamp

Required: No

SubscribePattern

A Java regex string that identifies the topic list to subscribe to. You must specify at least one of `"topicName"`, `"assign"` or `"subscribePattern"`.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

TopicName

The topic name as specified in Apache Kafka. You must specify at least one of `"topicName"`, `"assign"` or `"subscribePattern"`.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

KeySchemaElement

A partition key pair consisting of a name and a type.

Contents

Name

The name of a partition key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Type

The type of a partition key.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 131072.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

KinesisStreamingSourceOptions

Additional options for the Amazon Kinesis streaming data source.

Contents

AddIdleTimeBetweenReads

Adds a time delay between two consecutive getRecords operations. The default value is `"False"`. This option is only configurable for AWS Glue version 2.0 and above.

Type: Boolean

Required: No

AddRecordTimestamp

When this option is set to 'true', the data output will contain an additional column named "__src_timestamp" that indicates the time when the corresponding record received by the stream. The default value is 'false'. This option is supported in AWS Glue version 4.0 or later.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

AvoidEmptyBatches

Avoids creating an empty microbatch job by checking for unread data in the Kinesis data stream before the batch is started. The default value is `"False"`.

Type: Boolean

Required: No

Classification

An optional classification.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

Delimiter

Specifies the delimiter character.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

DescribeShardInterval

The minimum time interval between two ListShards API calls for your script to consider resharding. The default value is `1s`.

Type: Long

Valid Range: Minimum value of 0.

Required: No

EmitConsumerLagMetrics

When this option is set to 'true', for each batch, it will emit the metrics for the duration between the oldest record received by the stream and the time it arrives in AWS Glue to CloudWatch. The metric's name is "glue.driver.streaming.maxConsumerLagInMs". The default value is 'false'. This option is supported in AWS Glue version 4.0 or later.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

EndpointUrl

The URL of the Kinesis endpoint.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

FanoutConsumerARN

The Amazon Resource Name (ARN) of the Kinesis Data Streams enhanced fan-out consumer. When specified, enables enhanced fan-out for dedicated throughput and lower latency data consumption.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

IdleTimeBetweenReadsInMs

The minimum time delay between two consecutive getRecords operations, specified in ms. The default value is `1000`. This option is only configurable for AWS Glue version 2.0 and above.

Type: Long

Valid Range: Minimum value of 0.

Required: No

MaxFetchRecordsPerShard

The maximum number of records to fetch per shard in the Kinesis data stream per microbatch. Note: The client can exceed this limit if the streaming job has already read extra records from Kinesis (in the same get-records call). If `MaxFetchRecordsPerShard` needs to be strict then it needs to be a multiple of `MaxRecordPerRead`. The default value is `100000`.

Type: Long

Valid Range: Minimum value of 0.

Required: No

MaxFetchTimeInMs

The maximum time spent for the job executor to read records for the current batch from the Kinesis data stream, specified in milliseconds (ms). Multiple `GetRecords` API calls may be made within this time. The default value is `1000`.

Type: Long

Valid Range: Minimum value of 0.

Required: No

MaxRecordPerRead

The maximum number of records to fetch from the Kinesis data stream in each getRecords operation. The default value is 10000.

Type: Long

Valid Range: Minimum value of 0.

Required: No

MaxRetryIntervalMs

The maximum cool-off time period (specified in ms) between two retries of a Kinesis Data Streams API call. The default value is 10000.

Type: Long

Valid Range: Minimum value of 0.

Required: No

NumRetries

The maximum number of retries for Kinesis Data Streams API requests. The default value is 3.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

RetryIntervalMs

The cool-off time period (specified in ms) before retrying the Kinesis Data Streams API call. The default value is 1000.

Type: Long

Valid Range: Minimum value of 0.

Required: No

RoleArn

The Amazon Resource Name (ARN) of the role to assume using AWS Security Token Service (AWS STS). This role must have permissions for describe or read record operations for the Kinesis data stream. You must use this parameter when accessing a data stream in a different account. Used in conjunction with `"awsSTSSessionName"`.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

RoleSessionName

An identifier for the session assuming the role using AWS STS. You must use this parameter when accessing a data stream in a different account. Used in conjunction with `"awsSTSRoleARN"`.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

StartingPosition

The starting position in the Kinesis data stream to read data from. The possible values are `"latest"`, `"trim_horizon"`, `"earliest"`, or a timestamp string in UTC format in the pattern `yyyy-mm-ddTHH:MM:SSZ` (where `Z` represents a UTC timezone offset with a +/-. For example: "2023-04-04T08:00:00-04:00"). The default value is `"latest"`.

Note: Using a value that is a timestamp string in UTC format for "startingPosition" is supported only for AWS Glue version 4.0 or later.

Type: String

Valid Values: `latest | trim_horizon | earliest | timestamp`

Required: No

StartingTimestamp

The timestamp of the record in the Kinesis data stream to start reading data from. The possible values are a timestamp string in UTC format of the pattern `yyyy-mm-ddTHH:MM:SSZ` (where Z represents a UTC timezone offset with a +/-. For example: "2023-04-04T08:00:00+08:00").

Type: Timestamp

Required: No

StreamArn

The Amazon Resource Name (ARN) of the Kinesis data stream.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

StreamName

The name of the Kinesis data stream.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LabelingSetGenerationTaskRunProperties

Specifies configuration properties for a labeling set generation task run.

Contents

OutputS3Path

The Amazon Simple Storage Service (Amazon S3) path where you will generate the labeling set.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LakeFormationConfiguration

Specifies AWS Lake Formation configuration settings for the crawler.

Contents

AccountId

Required for cross account crawls. For same account crawls as the target data, this can be left as null.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 12.

Required: No

UseLakeFormationCredentials

Specifies whether to use AWS Lake Formation credentials for the crawler instead of the IAM role credentials.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LastActiveDefinition

When there are multiple versions of a blueprint and the latest version has some errors, this attribute indicates the last successful blueprint definition that is available with the service.

Contents

BlueprintLocation

Specifies a path in Amazon S3 where the blueprint is published by the AWS Glue developer.

Type: String

Required: No

BlueprintServiceLocation

Specifies a path in Amazon S3 where the blueprint is copied when you create or update the blueprint.

Type: String

Required: No

Description

The description of the blueprint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

LastModifiedOn

The date and time the blueprint was last modified.

Type: Timestamp

Required: No

ParameterSpec

A JSON string specifying the parameters for the blueprint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LastCrawlInfo

Status and error information about the most recent crawl.

Contents

ErrorMessage

If an error occurred, the error information about the last crawl.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

LogGroup

The log group for the last crawl.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `[\.\-_/#A-Za-z0-9]+`

Required: No

LogStream

The log stream for the last crawl.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `[^:*]*`

Required: No

MessagePrefix

The prefix for a message about this crawl.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

StartTime

The time at which the crawl started.

Type: Timestamp

Required: No

Status

Status of the last crawl.

Type: String

Valid Values: `SUCCEEDED | CANCELLED | FAILED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LineageConfiguration

Specifies data lineage configuration settings for the crawler.

Contents

CrawlerLineageSettings

Specifies whether data lineage is enabled for the crawler. Valid values are:

- ENABLE: enables data lineage for the crawler
- DISABLE: disables data lineage for the crawler

Type: String

Valid Values: `ENABLE | DISABLE`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Location

The location of resources.

Contents

DynamoDB

An Amazon DynamoDB table location.

Type: Array of CodeGenNodeArg objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

Jdbc

A JDBC location.

Type: Array of CodeGenNodeArg objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

S3

An Amazon Simple Storage Service (Amazon S3) location.

Type: Array of CodeGenNodeArg objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

LongColumnStatisticsData

Defines column statistics supported for integer data columns.

Contents

NumberOfDistinctValues

The number of distinct values in a column.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

NumberOfNulls

The number of null values in the column.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

MaximumValue

The highest value in the column.

Type: Long

Required: No

MinimumValue

The lowest value in the column.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Mapping

Specifies the mapping of data property keys.

Contents

Children

Only applicable to nested data structures. If you want to change the parent structure, but also one of its children, you can fill out this data strucutre. It is also `Mapping`, but its `FromPath` will be the parent's `FromPath` plus the `FromPath` from this structure.

For the children part, suppose you have the structure:

```
{ "FromPath": "OuterStructure", "ToKey": "OuterStructure", "ToType":
"Struct", "Dropped": false, "Chidlren": [{ "FromPath": "inner", "ToKey":
"inner", "ToType": "Double", "Dropped": false, }] }
```

You can specify a `Mapping` that looks like:

```
{ "FromPath": "OuterStructure", "ToKey": "OuterStructure", "ToType":
"Struct", "Dropped": false, "Chidlren": [{ "FromPath": "inner", "ToKey":
"inner", "ToType": "Double", "Dropped": false, }] }
```

Type: Array of Mapping objects

Required: No

Dropped

If true, then the column is removed.

Type: Boolean

Required: No

FromPath

The table or column to be modified.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

FromType

The type of the data to be modified.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

ToKey

After the apply mapping, what the name of the column should be. Can be the same as `FromPath`.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

ToType

The data type that the data is to be modified to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

MappingEntry

Defines a mapping.

Contents

SourcePath

The source path.

Type: String

Required: No

SourceTable

The name of the source table.

Type: String

Required: No

SourceType

The source type.

Type: String

Required: No

TargetPath

The target path.

Type: String

Required: No

TargetTable

The target table.

Type: String

Required: No

TargetType

The target type.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MaterializedViewRefreshTaskRun

The object that shows the details of the materialized view refresh task run.

Contents

CatalogId

The ID of the Catalog where the materialized view table resides. If none is supplied, the account ID is used by default.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

CreationTime

The time that this task was created.

Type: Timestamp

Required: No

CustomerId

The AWS account ID.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 12.

Required: No

DatabaseName

The database where the materialized view table resides.

Type: String

Required: No

DPUSeconds

The calculated DPU usage in seconds for all autoscaled workers.

Type: Double

Valid Range: Minimum value of 0.0.

Required: No

EndTime

The end time of the task.

Type: Timestamp

Required: No

ErrorMessage

The error message for the job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

LastUpdated

The last point in time when this task was modified.

Type: Timestamp

Required: No

MaterializedViewRefreshTaskRunId

The identifier of the materialized view refresh task run.

Type: String

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}`

Required: No

ProcessedBytes

The number of bytes the refresh task run has scanned to refresh the materialized view.

Type: Long

Valid Range: Minimum value of 0.

Required: No

RefreshType

The type of the refresh task run. Either FULL or INCREMENTAL.

Type: String

Valid Values: `FULL | INCREMENTAL`

Required: No

Role

The IAM role that the service assumes to run the materialized view refresh.

Type: String

Required: No

StartTime

The start time of the task.

Type: Timestamp

Required: No

Status

The status of the task run.

Type: String

Valid Values: `STARTING | RUNNING | SUCCEEDED | FAILED | STOPPED`

Required: No

TableName

The name of the table for which the materialized view resides.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Merge

Specifies a transform that merges a `DynamicFrame` with a staging `DynamicFrame` based on the specified primary keys to identify records. Duplicate records (records with the same primary keys) are not de-duplicated.

Contents

Inputs

The data inputs identified by their node names.

Type: Array of strings

Array Members: Fixed number of 2 items.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

PrimaryKeys

The list of primary key fields to match records from the source and staging dynamic frames.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Source

The source `DynamicFrame` that will be merged with a staging `DynamicFrame`.

Type: String

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MetadataInfo

A structure containing metadata information for a schema version.

Contents

CreatedTime

The time at which the entry was created.

Type: String

Required: No

MetadataValue

The metadata key's corresponding value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z0-9+-=._/@]+`

Required: No

OtherMetadataValueList

Other metadata belonging to the same metadata key.

Type: Array of OtherMetadataValueListItem objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MetadataKeyValuePair

A structure containing a key value pair for metadata.

Contents

MetadataKey

A metadata key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9+-=._/@]+`

Required: No

MetadataValue

A metadata key's corresponding value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z0-9+-=._/@]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MetricBasedObservation

Describes the metric based observation generated based on evaluated data quality metrics.

Contents

MetricName

The name of the data quality metric used for generating the observation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

MetricValues

An object of type `DataQualityMetricValues` representing the analysis of the data quality metric value.

Type: DataQualityMetricValues object

Required: No

NewRules

A list of new data quality rules generated as part of the observation based on the data quality metric value.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

StatisticId

The Statistic ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MicrosoftSQLServerCatalogSource

Specifies a Microsoft SQL server data source in the AWS Glue Data Catalog.

Contents

Database

The name of the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MicrosoftSQLServerCatalogTarget

Specifies a target that uses Microsoft SQL.

Contents

Database

The name of the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MLTransform

A structure for a machine learning transform.

Contents

CreatedOn

A timestamp. The time and date that this machine learning transform was created.

Type: Timestamp

Required: No

Description

A user-defined, long-form description text for the machine learning transform. Descriptions are not guaranteed to be unique and can be changed at any time.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

EvaluationMetrics

An `EvaluationMetrics` object. Evaluation metrics provide an estimate of the quality of your machine learning transform.

Type: EvaluationMetrics object

Required: No

GlueVersion

This value determines which version of AWS Glue this machine learning transform is compatible with. Glue 1.0 is recommended for most customers. If the value is not set, the Glue compatibility defaults to Glue 0.9. For more information, see AWS Glue Versions in the developer guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `^(\w+\.)+\w+$`

Required: No

InputRecordTables

A list of AWS Glue table definitions used by the transform.

Type: Array of GlueTable objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: No

LabelCount

A count identifier for the labeling files generated by AWS Glue for this transform. As you create a better transform, you can iteratively download, label, and upload the labeling file.

Type: Integer

Required: No

LastModifiedOn

A timestamp. The last point in time when this machine learning transform was modified.

Type: Timestamp

Required: No

MaxCapacity

The number of AWS Glue data processing units (DPUs) that are allocated to task runs for this transform. You can allocate from 2 to 100 DPUs; the default is 10. A DPU is a relative measure of processing power that consists of 4 vCPUs of compute capacity and 16 GB of memory. For more information, see the AWS Glue pricing page.

`MaxCapacity` is a mutually exclusive option with `NumberOfWorkers` and `WorkerType`.

- If either `NumberOfWorkers` or `WorkerType` is set, then `MaxCapacity` cannot be set.
- If `MaxCapacity` is set then neither `NumberOfWorkers` or `WorkerType` can be set.
- If `WorkerType` is set, then `NumberOfWorkers` is required (and vice versa).
- `MaxCapacity` and `NumberOfWorkers` must both be at least 1.

When the `WorkerType` field is set to a value other than `Standard`, the `MaxCapacity` field is set automatically and becomes read-only.

Type: Double

Required: No

MaxRetries

The maximum number of times to retry after an `MLTaskRun` of the machine learning transform fails.

Type: Integer

Required: No

Name

A user-defined name for the machine learning transform. Names are not guaranteed unique and can be changed at any time.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

NumberOfWorkers

The number of workers of a defined `workerType` that are allocated when a task of the transform runs.

If `WorkerType` is set, then `NumberOfWorkers` is required (and vice versa).

Type: Integer

Required: No

Parameters

A `TransformParameters` object. You can use parameters to tune (customize) the behavior of the machine learning transform by specifying what data it learns from and your preference on various tradeoffs (such as precious vs. recall, or accuracy vs. cost).

Type: TransformParameters object

Required: No

Role

The name or Amazon Resource Name (ARN) of the IAM role with the required permissions. The required permissions include both AWS Glue service role permissions to AWS Glue resources, and Amazon S3 permissions required by the transform.

- This role needs AWS Glue service role permissions to allow access to resources in AWS Glue. See Attach a Policy to IAM Users That Access AWS Glue.
- This role needs permission to your Amazon Simple Storage Service (Amazon S3) sources, targets, temporary directory, scripts, and any libraries used by the task run for this transform.

Type: String

Required: No

Schema

A map of key-value pairs representing the columns and data types that this transform can run against. Has an upper bound of 100 columns.

Type: Array of SchemaColumn objects

Array Members: Maximum number of 100 items.

Required: No

Status

The current status of the machine learning transform.

Type: String

Valid Values: `NOT_READY | READY | DELETING`

Required: No

Timeout

The timeout in minutes of the machine learning transform.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

TransformEncryption

The encryption-at-rest settings of the transform that apply to accessing user data. Machine learning transforms can access user data encrypted in Amazon S3 using KMS.

Type: TransformEncryption object

Required: No

TransformId

The unique transform ID that is generated for the machine learning transform. The ID is guaranteed to be unique and does not change.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

WorkerType

The type of predefined worker that is allocated when a task of this transform runs. Accepts a value of Standard, G.1X, or G.2X.

- For the `Standard` worker type, each worker provides 4 vCPU, 16 GB of memory and a 50GB disk, and 2 executors per worker.
- For the `G.1X` worker type, each worker provides 4 vCPU, 16 GB of memory and a 64GB disk, and 1 executor per worker.
- For the `G.2X` worker type, each worker provides 8 vCPU, 32 GB of memory and a 128GB disk, and 1 executor per worker.

`MaxCapacity` is a mutually exclusive option with `NumberOfWorkers` and `WorkerType`.

- If either `NumberOfWorkers` or `WorkerType` is set, then `MaxCapacity` cannot be set.
- If `MaxCapacity` is set then neither `NumberOfWorkers` or `WorkerType` can be set.
- If `WorkerType` is set, then `NumberOfWorkers` is required (and vice versa).

- `MaxCapacity` and `NumberOfWorkers` must both be at least 1.

Type: String

Valid Values: `Standard | G.1X | G.2X | G.025X | G.4X | G.8X | Z.2X`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MLUserDataEncryption

The encryption-at-rest settings of the transform that apply to accessing user data.

Contents

MlUserDataEncryptionMode

The encryption mode applied to user data. Valid values are:

- DISABLED: encryption is disabled
- SSEKMS: use of server-side encryption with AWS Key Management Service (SSE-KMS) for user data stored in Amazon S3.

Type: String

Valid Values: `DISABLED | SSE-KMS`

Required: Yes

KmsKeyId

The ID for the customer-provided KMS key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MongoDBTarget

Specifies an Amazon DocumentDB or MongoDB data store to crawl.

Contents

ConnectionName

The name of the connection to use to connect to the Amazon DocumentDB or MongoDB target.

Type: String

Required: No

Path

The path of the Amazon DocumentDB or MongoDB target (database/collection).

Type: String

Required: No

ScanAll

Indicates whether to scan all the records, or to sample rows from the table. Scanning all the records can take a long time when the table is not a high throughput table.

A value of `true` means to scan all records, while a value of `false` means to sample the records. If no value is specified, the value defaults to `true`.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MySQLCatalogSource

Specifies a MySQL data source in the AWS Glue Data Catalog.

Contents

Database

The name of the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MySQLCatalogTarget

Specifies a target that uses MySQL.

Contents

Database

The name of the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Node

A node represents an AWS Glue component (trigger, crawler, or job) on a workflow graph.

Contents

CrawlerDetails

Details of the crawler when the node represents a crawler.

Type: CrawlerNodeDetails object

Required: No

JobDetails

Details of the Job when the node represents a Job.

Type: JobNodeDetails object

Required: No

Name

The name of the AWS Glue component represented by the node.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

TriggerDetails

Details of the Trigger when the node represents a Trigger.

Type: TriggerNodeDetails object

Required: No

Type

The type of AWS Glue component represented by the node.

Type: String

Valid Values: `CRAWLER | JOB | TRIGGER`

Required: No

UniqueId

The unique Id assigned to the node within the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NotificationProperty

Specifies configuration properties of a notification.

Contents

NotifyDelayAfter

After a job run starts, the number of minutes to wait before sending a job run delay notification.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NullCheckBoxList

Represents whether certain values are recognized as null values for removal.

Contents

IsEmpty

Specifies that an empty string is considered as a null value.

Type: Boolean

Required: No

IsNegOne

Specifies that an integer value of -1 is considered as a null value.

Type: Boolean

Required: No

IsNullString

Specifies that a value spelling out the word 'null' is considered as a null value.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NullValueField

Represents a custom null value such as a zeros or other value being used as a null placeholder unique to the dataset.

Contents

Datatype

The datatype of the value.

Type: Datatype object

Required: Yes

Value

The value of the null placeholder.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OAuth2ClientApplication

The OAuth2 client app used for the connection.

Contents

AWSManagedClientApplicationReference

The reference to the SaaS-side client app that is AWS managed.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: \S+

Required: No

UserManagedClientApplicationClientId

The client application clientID if the ClientAppType is USER_MANAGED.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: \S+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OAuth2Credentials

The credentials used when the authentication type is OAuth2 authentication.

Contents

AccessToken

The access token used when the authentication type is OAuth2.

Type: String

Length Constraints: Maximum length of 4096.

Pattern: `^[\x20-\x7E]*$`

Required: No

JwtToken

The JSON Web Token (JWT) used when the authentication type is OAuth2.

Type: String

Length Constraints: Maximum length of 8000.

Pattern: `^([a-zA-Z0-9_=]+)\.([a-zA-Z0-9_=]+)\.([a-zA-Z0-9_\-\+\/=]*)`

Required: No

RefreshToken

The refresh token used when the authentication type is OAuth2.

Type: String

Length Constraints: Maximum length of 4096.

Pattern: `^[\x20-\x7E]*$`

Required: No

UserManagedClientApplicationClientSecret

The client application client secret if the client application is user managed.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `^[\x20-\x7E]*$`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OAuth2Properties

A structure containing properties for OAuth2 authentication.

Contents

OAuth2ClientApplication

The client application type. For example, AWS_MANAGED or USER_MANAGED.

Type: OAuth2ClientApplication object

Required: No

OAuth2GrantType

The OAuth2 grant type. For example, `AUTHORIZATION_CODE`, `JWT_BEARER`, or `CLIENT_CREDENTIALS`.

Type: String

Valid Values: `AUTHORIZATION_CODE | CLIENT_CREDENTIALS | JWT_BEARER`

Required: No

TokenUrl

The URL of the provider's authentication server, to exchange an authorization code for an access token.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `^(https?)://[-a-zA-Z0-9+&@#/%?=~_|!:,.;]*[-a-zA-Z0-9+&@#/%=~_|]`

Required: No

TokenUrlParametersMap

A map of parameters that are added to the token `GET` request.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OAuth2PropertiesInput

A structure containing properties for OAuth2 in the CreateConnection request.

Contents

AuthorizationCodeProperties

The set of properties required for the the OAuth2 `AUTHORIZATION_CODE` grant type.

Type: AuthorizationCodeProperties object

Required: No

OAuth2ClientApplication

The client application type in the CreateConnection request. For example, `AWS_MANAGED` or `USER_MANAGED`.

Type: OAuth2ClientApplication object

Required: No

OAuth2Credentials

The credentials used when the authentication type is OAuth2 authentication.

Type: OAuth2Credentials object

Required: No

OAuth2GrantType

The OAuth2 grant type in the CreateConnection request. For example, `AUTHORIZATION_CODE`, `JWT_BEARER`, or `CLIENT_CREDENTIALS`.

Type: String

Valid Values: `AUTHORIZATION_CODE | CLIENT_CREDENTIALS | JWT_BEARER`

Required: No

TokenUrl

The URL of the provider's authentication server, to exchange an authorization code for an access token.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `^(https?)://[-a-zA-Z0-9+&@#/%?=~_|!:,.;]*[-a-zA-Z0-9+&@#/%=~_|]`

Required: No

TokenUrlParametersMap

A map of parameters that are added to the token `GET` request.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OffsetConfiguration

Offset-based pagination configuration that defines how to handle pagination using numeric offsets and limits.

Contents

LimitParameter

The parameter name used to specify the maximum number of results to return per page.

Type: ExtractedParameter object

Required: Yes

OffsetParameter

The parameter name used to specify the starting position or offset for retrieving results.

Type: ExtractedParameter object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OpenTableFormatInput

A structure representing an open format table.

Contents

IcebergInput

Specifies an `IcebergInput` structure that defines an Apache Iceberg metadata table.

Type: IcebergInput object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Option

Specifies an option value.

Contents

Description

Specifies the description of the option.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

Label

Specifies the label of the option.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

Value

Specifies the value of the option.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OracleSQLCatalogSource

Specifies an Oracle data source in the AWS Glue Data Catalog.

Contents

Database

The name of the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OracleSQLCatalogTarget

Specifies a target that uses Oracle SQL.

Contents

Database

The name of the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Order

Specifies the sort order of a sorted column.

Contents

Column

The name of the column.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

SortOrder

Indicates that the column is sorted in ascending order (`== 1`), or in descending order (`==0`).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OrphanFileDeletionConfiguration

The configuration for an orphan file deletion optimizer.

Contents

icebergConfiguration

The configuration for an Iceberg orphan file deletion optimizer.

Type: IcebergOrphanFileDeletionConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OrphanFileDeletionMetrics

A structure that contains orphan file deletion metrics for the optimizer run.

Contents

IcebergMetrics

A structure containing the Iceberg orphan file deletion metrics for the optimizer run.

Type: IcebergOrphanFileDeletionMetrics object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OtherMetadataValueListItem

A structure containing other metadata for a schema version belonging to the same metadata key.

Contents

CreatedTime

The time at which the entry was created.

Type: String

Required: No

MetadataValue

The metadata key's corresponding value for the other metadata belonging to the same metadata key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z0-9+-=._/@]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PaginationConfiguration

Configuration that defines how to handle paginated responses from REST APIs, supporting different pagination strategies used by various services.

Contents

CursorConfiguration

Configuration for cursor-based pagination, where the API provides a cursor or token to retrieve the next page of results.

Type: CursorConfiguration object

Required: No

OffsetConfiguration

Configuration for offset-based pagination, where the API uses numeric offsets and limits to control which results are returned.

Type: OffsetConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Partition

Represents a slice of table data.

Contents

CatalogId

The ID of the Data Catalog in which the partition resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

CreationTime

The time at which the partition was created.

Type: Timestamp

Required: No

DatabaseName

The name of the catalog database in which to create the partition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

LastAccessTime

The last time at which the partition was accessed.

Type: Timestamp

Required: No

LastAnalyzedTime

The last time at which column statistics were computed for this partition.

Type: Timestamp

Required: No

Parameters

These key-value pairs define partition parameters.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

StorageDescriptor

Provides information about the physical location where the partition is stored.

Type: StorageDescriptor object

Required: No

TableName

The name of the database table in which to create the partition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Values

The values of the partition.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PartitionError

Contains information about a partition error.

Contents

ErrorDetail

The details about the partition error.

Type: ErrorDetail object

Required: No

PartitionValues

The values that define the partition.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PartitionIndex

A structure for a partition index.

Contents

IndexName

The name of the partition index.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Keys

The keys for the partition index.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PartitionIndexDescriptor

A descriptor for a partition index in a table.

Contents

IndexName

The name of the partition index.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

IndexStatus

The status of the partition index.

The possible statuses are:

- CREATING: The index is being created. When an index is in a CREATING state, the index or its table cannot be deleted.
- ACTIVE: The index creation succeeds.
- FAILED: The index creation fails.
- DELETING: The index is deleted from the list of indexes.

Type: String

Valid Values: `CREATING | ACTIVE | DELETING | FAILED`

Required: Yes

Keys

A list of one or more keys, as `KeySchemaElement` structures, for the partition index.

Type: Array of KeySchemaElement objects

Array Members: Minimum number of 1 item.

Required: Yes

BackfillErrors

A list of errors that can occur when registering partition indexes for an existing table.

Type: Array of BackfillError objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PartitionInput

The structure used to create and update a partition.

Contents

LastAccessTime

The last time at which the partition was accessed.

Type: Timestamp

Required: No

LastAnalyzedTime

The last time at which column statistics were computed for this partition.

Type: Timestamp

Required: No

Parameters

These key-value pairs define partition parameters.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

StorageDescriptor

Provides information about the physical location where the partition is stored.

Type: StorageDescriptor object

Required: No

Values

The values of the partition. Although this parameter is not required by the SDK, you must specify this parameter for a valid input.

The values for the keys for the new partition must be passed as an array of String objects that must be ordered in the same order as the partition keys appearing in the Amazon S3 prefix. Otherwise AWS Glue will add the values to the wrong keys.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PartitionValueList

Contains a list of values defining partitions.

Contents

Values

The list of values.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PhysicalConnectionRequirements

The OAuth client app in GetConnection response.

Contents

AvailabilityZone

The connection's Availability Zone.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

SecurityGroupIdList

The security group ID list used by the connection.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

SubnetId

The subnet ID used by the connection.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PIIDetection

Specifies a transform that identifies, removes or masks PII data.

Contents

EntityTypesToDetect

Indicates the types of entities the PIIDetection transform will identify as PII data.

PII type entities include: PERSON_NAME, DATE, USA_SNN, EMAIL, USA_ITIN, USA_PASSPORT_NUMBER, PHONE_NUMBER, BANK_ACCOUNT, IP_ADDRESS, MAC_ADDRESS, USA_CPT_CODE, USA_HCPCS_CODE, USA_NATIONAL_DRUG_CODE, USA_MEDICARE_BENEFICIARY_IDENTIFIER, USA_HEALTH_INSURANCE_CLAIM_NUMBER,CREDIT_CARD,USA_NATIONAL_PROVIDER_IDENTIFIER,USA

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

The node ID inputs to the transform.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

PiiType

Indicates the type of PIIDetection transform.

Type: String

Valid Values: `RowAudit | RowHashing | RowMasking | RowPartialMasking | ColumnAudit | ColumnHashing | ColumnMasking`

Required: Yes

DetectionParameters

Additional parameters for configuring PII detection behavior and sensitivity settings.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

DetectionSensitivity

The sensitivity level for PII detection. Higher sensitivity levels detect more potential PII but may result in more false positives.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

MaskValue

Indicates the value that will replace the detected entity.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[*A-Za-z0-9_-]*`

Required: No

MatchPattern

A regular expression pattern used to identify additional PII content beyond the standard detection algorithms.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

NumLeftCharsToExclude

The number of characters to exclude from redaction on the left side of detected PII content. This allows preserving context around the sensitive data.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

NumRightCharsToExclude

The number of characters to exclude from redaction on the right side of detected PII content. This allows preserving context around the sensitive data.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

OutputColumnName

Indicates the output column name that will contain any entity type detected in that row.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

RedactChar

The character used to replace detected PII content when redaction is enabled. The default redaction character is *.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

RedactText

Specifies whether to redact the detected PII text. When set to `true`, PII content is replaced with redaction characters.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

SampleFraction

Indicates the fraction of the data to sample when scanning for PII entities.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 1.

Required: No

ThresholdFraction

Indicates the fraction of the data that must be met in order for a column to be identified as PII data.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 1.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PostgreSQLCatalogSource

Specifies a PostgresSQL data source in the AWS Glue Data Catalog.

Contents

Database

The name of the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PostgreSQLCatalogTarget

Specifies a target that uses Postgres SQL.

Contents

Database

The name of the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Predecessor

A job run that was used in the predicate of a conditional trigger that triggered this job run.

Contents

JobName

The name of the job definition used by the predecessor job run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

RunId

The job-run ID of the predecessor job run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Predicate

Defines the predicate of the trigger, which determines when it fires.

Contents

Conditions

A list of the conditions that determine when the trigger will fire.

Type: Array of Condition objects

Array Members: Maximum number of 500 items.

Required: No

Logical

An optional field if only one condition is listed. If multiple conditions are listed, then this field is required.

Type: String

Valid Values: `AND` | `ANY`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PrincipalPermissions

Permissions granted to a principal.

Contents

Permissions

The permissions that are granted to the principal.

Type: Array of strings

Valid Values: `ALL | SELECT | ALTER | DROP | DELETE | INSERT | CREATE_DATABASE | CREATE_TABLE | DATA_LOCATION_ACCESS`

Required: No

Principal

The principal who is granted permissions.

Type: DataLakePrincipal object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProfileConfiguration

Specifies the job and session values that an admin configures in an AWS Glue usage profile.

Contents

JobConfiguration

A key-value map of configuration parameters for AWS Glue jobs.

Type: String to ConfigurationObject object map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

SessionConfiguration

A key-value map of configuration parameters for AWS Glue sessions.

Type: String to ConfigurationObject object map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Property

An object that defines a connection type for a compute environment.

Contents

Description

A description of the property.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: Yes

Name

The name of the property.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

PropertyTypes

Describes the type of property.

Type: Array of strings

Valid Values: `USER_INPUT | SECRET | READ_ONLY | UNUSED | SECRET_OR_USER_INPUT`

Required: Yes

Required

Indicates whether the property is required.

Type: Boolean

Required: Yes

AllowedValues

A list of `AllowedValue` objects representing the values allowed for the property.

Type: Array of AllowedValue objects

Required: No

DataOperationScopes

Indicates which data operations are applicable to the property.

Type: Array of strings

Valid Values: `READ | WRITE`

Required: No

DefaultValue

The default value for the property.

Type: String

Required: No

KeyOverride

A key name to use when sending this property in API requests, if different from the display name.

Type: String

Required: No

PropertyLocation

Specifies where this property should be included in REST requests, such as in headers, query parameters, or request body.

Type: String

Valid Values: `HEADER | BODY | QUERY_PARAM | PATH`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PropertyPredicate

Defines a property predicate.

Contents

Comparator

The comparator used to compare this property to others.

Type: String

Valid Values: `EQUALS | GREATER_THAN | LESS_THAN | GREATER_THAN_EQUALS | LESS_THAN_EQUALS`

Required: No

Key

The key of the property.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

Value

The value of the property.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

QuerySessionContext

A structure used as a protocol between query engines and Lake Formation or AWS Glue. Contains both a Lake Formation generated authorization identifier and information from the request's authorization context.

For more information about how to utilize QuerySessionContext, see Lake Formation workflow for application integration API operations in the developer guide.

Contents

AdditionalContext

An opaque string-string map passed by the query engine.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

ClusterId

An identifier string for the consumer cluster.

Type: String

Required: No

QueryAuthorizationId

A cryptographically generated query identifier generated by AWS Glue or Lake Formation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

QueryId

A unique identifier generated by the query engine for the query.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

QueryStartTime

A timestamp provided by the query engine for when the query started.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Recipe

A AWS Glue Studio node that uses a AWS Glue DataBrew recipe in AWS Glue jobs.

Contents

Inputs

The nodes that are inputs to the recipe node, identified by id.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the AWS Glue Studio node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

RecipeReference

A reference to the DataBrew recipe used by the node.

Type: RecipeReference object

Required: No

RecipeSteps

Transform steps used in the recipe node.

Type: Array of RecipeStep objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RecipeAction

Actions defined in the AWS Glue Studio data preparation recipe node.

Contents

Operation

The operation of the recipe action.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[A-Z\_]+$`

Required: Yes

Parameters

The parameters of the recipe action.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `^[A-Za-z0-9]+$`

Value Length Constraints: Minimum length of 1. Maximum length of 32768.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RecipeReference

A reference to a AWS Glue DataBrew recipe.

Contents

RecipeArn

The ARN of the DataBrew recipe.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

RecipeVersion

The RecipeVersion of the DataBrew recipe.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RecipeStep

A recipe step used in a AWS Glue Studio data preparation recipe node.

Contents

Action

The transformation action of the recipe step.

Type: RecipeAction object

Required: Yes

ConditionExpressions

The condition expressions for the recipe step.

Type: Array of ConditionExpression objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RecrawlPolicy

When crawling an Amazon S3 data source after the first crawl is complete, specifies whether to crawl the entire dataset again or to crawl only folders that were added since the last crawler run. For more information, see Incremental Crawls in AWS Glue in the developer guide.

Contents

RecrawlBehavior

Specifies whether to crawl the entire dataset again or to crawl only folders that were added since the last crawler run.

A value of `CRAWL_EVERYTHING` specifies crawling the entire dataset again.

A value of `CRAWL_NEW_FOLDERS_ONLY` specifies crawling only folders that were added since the last crawler run.

A value of `CRAWL_EVENT_MODE` specifies crawling only the changes identified by Amazon S3 events.

Type: String

Valid Values: `CRAWL_EVERYTHING | CRAWL_NEW_FOLDERS_ONLY | CRAWL_EVENT_MODE`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RedshiftSource

Specifies an Amazon Redshift data store.

Contents

Database

The database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the Amazon Redshift data store.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The database table to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

RedshiftTmpDir

The Amazon S3 path where temporary data can be staged when copying out of the database.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

TmpDirIAMRole

The IAM role with permissions.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RedshiftTarget

Specifies a target that uses Amazon Redshift.

Contents

Database

The name of the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

RedshiftTmpDir

The Amazon S3 path where temporary data can be staged when copying out of the database.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

TmpDirIAMRole

The IAM role with permissions.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

UpsertRedshiftOptions

The set of options to configure an upsert operation when writing to a Redshift target.

Type: UpsertRedshiftTargetOptions object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RegistryId

A wrapper structure that may contain the registry name and Amazon Resource Name (ARN).

Contents

RegistryArn

Arn of the registry to be updated. One of `RegistryArn` or `RegistryName` has to be provided.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

Required: No

RegistryName

Name of the registry. Used only for lookup. One of `RegistryArn` or `RegistryName` has to be provided.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RegistryListItem

A structure containing the details for a registry.

Contents

CreatedTime

The data the registry was created.

Type: String

Required: No

Description

A description of the registry.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

RegistryArn

The Amazon Resource Name (ARN) of the registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

Required: No

RegistryName

The name of the registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

Required: No

Status

The status of the registry.

Type: String

Valid Values: `AVAILABLE | DELETING`

Required: No

UpdatedTime

The date the registry was updated.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RelationalCatalogSource

Specifies a Relational database data source in the AWS Glue Data Catalog.

Contents

Database

The name of the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RenameField

Specifies a transform that renames a single data property key.

Contents

Inputs

The data inputs identified by their node names.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

SourcePath

A JSON path to a variable in the data structure for the source data.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

TargetPath

A JSON path to a variable in the data structure for the target data.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceUri

The URIs for function resources.

Contents

ResourceType

The type of the resource.

Type: String

Valid Values: `JAR | FILE | ARCHIVE`

Required: No

Uri

The URI for accessing the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResponseConfiguration

Configuration that defines how to parse JSON responses from REST API calls, including paths to result data and error information.

Contents

ResultPath

The JSON path expression that identifies where the actual result data is located within the API response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `\$(\.[a-zA-Z0-9_.@\[\]\(\)-]+)*`

Required: Yes

ErrorPath

The JSON path expression that identifies where error information is located within API responses when requests fail.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `\$(\.[a-zA-Z0-9_.@\[\]\(\)-]+)*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResponseExtractionMapping

Configuration that defines how to extract values from HTTP response content or headers for use in subsequent requests or parameter mapping.

Contents

ContentPath

A JSON path expression that specifies how to extract a value from the response body content.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `\$(\.[a-zA-Z0-9_.@\[\]\(\)-]+)*`

Required: No

HeaderKey

The name of an HTTP response header from which to extract the value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_-]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RestConfiguration

Configuration that defines HTTP request and response handling, validation endpoints, and entity configurations for REST API interactions.

Contents

EntityConfigurations

A map of entity configurations that define how to interact with different data entities available through the REST API, including their schemas and access patterns.

Type: String to EntityConfiguration object map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[a-zA-Z0-9_ -]+`

Required: No

GlobalSourceConfiguration

Global configuration settings that apply to all REST API requests for this connection type, including common request methods, paths, and parameters.

Type: SourceConfiguration object

Required: No

ValidationEndpointConfiguration

Configuration for the endpoint used to validate connection credentials and test connectivity during connection creation.

Type: SourceConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RetentionConfiguration

The configuration for a snapshot retention optimizer.

Contents

icebergConfiguration

The configuration for an Iceberg snapshot retention optimizer.

Type: IcebergRetentionConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RetentionMetrics

A structure that contains retention metrics for the optimizer run.

Contents

IcebergMetrics

A structure containing the Iceberg retention metrics for the optimizer run.

Type: IcebergRetentionMetrics object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Route

Specifies a route node that directs data to different output paths based on defined filtering conditions.

Contents

GroupFiltersList

A list of group filters that define the routing conditions and criteria for directing data to different output paths.

Type: Array of GroupFilters objects

Required: Yes

Inputs

The input connection for the route node.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the route node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RunIdentifier

A run identifier.

Contents

JobRunId

The Job Run ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

RunId

The Run ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RunMetrics

Metrics for the optimizer run.

This structure is deprecated. See the individual metric members for compaction, retention, and orphan file deletion.

Contents

JobDurationInHour

The duration of the job in hours.

Type: String

Required: No

NumberOfBytesCompacted

The number of bytes removed by the compaction job run.

Type: String

Required: No

NumberOfDpus

The number of DPUs consumed by the job, rounded up to the nearest whole number.

Type: String

Required: No

NumberOfFilesCompacted

The number of files removed by the compaction job run.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3CatalogDeltaSource

Specifies a Delta Lake data source that is registered in the AWS Glue Data Catalog. The data source must be stored in Amazon S3.

Contents

Database

The name of the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the Delta Lake data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalDeltaOptions

Specifies additional connection options.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

OutputSchemas

Specifies the data schema for the Delta Lake source.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3CatalogHudiSource

Specifies a Hudi data source that is registered in the AWS Glue Data Catalog. The Hudi data source must be stored in Amazon S3.

Contents

Database

The name of the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the Hudi data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalHudiOptions

Specifies additional connection options.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

OutputSchemas

Specifies the data schema for the Hudi source.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3CatalogIcebergSource

Specifies an Apache Iceberg data source that is registered in the AWS Glue Data Catalog. The Iceberg data source must be stored in Amazon S3.

Contents

Database

The name of the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the Iceberg data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalIcebergOptions

Specifies additional connection options for the Iceberg data source.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

OutputSchemas

Specifies the data schema for the Iceberg source.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3CatalogSource

Specifies an Amazon S3 data store in the AWS Glue Data Catalog.

Contents

Database

The database to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the data store.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The database table to read from.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalOptions

Specifies additional connection options.

Type: S3SourceAdditionalOptions object

Required: No

PartitionPredicate

Partitions satisfying this predicate are deleted. Files within the retention period in these partitions are not deleted. Set to "" – empty by default.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3CatalogTarget

Specifies a data target that writes to Amazon S3 using the AWS Glue Data Catalog.

Contents

Database

The name of the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AutoDataQuality

Specifies whether to automatically enable data quality evaluation for the S3 catalog target. When set to `true`, data quality checks are performed automatically during the write operation.

Type: AutoDataQuality object

Required: No

PartitionKeys

Specifies native partitioning using a sequence of keys.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

SchemaChangePolicy

A policy that specifies update behavior for the crawler.

Type: CatalogSchemaChangePolicy object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3CsvSource

Specifies a command-separated value (CSV) data store stored in Amazon S3.

Contents

Name

The name of the data store.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Paths

A list of the Amazon S3 paths to read from.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

QuoteChar

Specifies the character to use for quoting. The default is a double quote: `'"'`. Set this to `-1` to turn off quoting entirely.

Type: String

Valid Values: `quote | quillemet | single_quote | disabled`

Required: Yes

Separator

Specifies the delimiter character. The default is a comma: ",", but any other character can be specified.

Type: String

Valid Values: `comma | ctrla | pipe | semicolon | tab`

Required: Yes

AdditionalOptions

Specifies additional connection options.

Type: S3DirectSourceAdditionalOptions object

Required: No

CompressionType

Specifies how the data is compressed. This is generally not necessary if the data has a standard file extension. Possible values are `"gzip"` and `"bzip"`).

Type: String

Valid Values: `gzip | bzip2`

Required: No

Escaper

Specifies a character to use for escaping. This option is used only when reading CSV files. The default value is none. If enabled, the character which immediately follows is used as-is, except for a small set of well-known escapes (`\n`, `\r`, `\t`, and `\0`).

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

Exclusions

A string containing a JSON list of Unix-style glob patterns to exclude. For example, "[\"**.pdf\"]" excludes all PDF files.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

GroupFiles

Grouping files is turned on by default when the input contains more than 50,000 files. To turn on grouping with fewer than 50,000 files, set this parameter to "inPartition". To disable grouping when there are more than 50,000 files, set this parameter to `"none"`.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

GroupSize

The target group size in bytes. The default is computed based on the input data size and the size of your cluster. When there are fewer than 50,000 input files, `"groupFiles"` must be set to `"inPartition"` for this to take effect.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

MaxBand

This option controls the duration in milliseconds after which the s3 listing is likely to be consistent. Files with modification timestamps falling within the last maxBand milliseconds are tracked specially when using JobBookmarks to account for Amazon S3 eventual consistency. Most users don't need to set this option. The default is 900000 milliseconds, or 15 minutes.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

MaxFilesInBand

This option specifies the maximum number of files to save from the last maxBand seconds. If this number is exceeded, extra files are skipped and only processed in the next job run.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

Multiline

A Boolean value that specifies whether a single record can span multiple lines. This can occur when a field contains a quoted new-line character. You must set this option to True if any record spans multiple lines. The default value is `False`, which allows for more aggressive file-splitting during parsing.

Type: Boolean

Required: No

OptimizePerformance

A Boolean value that specifies whether to use the advanced SIMD CSV reader along with Apache Arrow based columnar memory formats. Only available in AWS Glue version 3.0.

Type: Boolean

Required: No

OutputSchemas

Specifies the data schema for the S3 CSV source.

Type: Array of GlueSchema objects

Required: No

Recurse

If set to true, recursively reads files in all subdirectories under the specified paths.

Type: Boolean

Required: No

SkipFirst

A Boolean value that specifies whether to skip the first data line. The default value is `False`.

Type: Boolean

Required: No

WithHeader

A Boolean value that specifies whether to treat the first line as a header. The default value is `False`.

Type: Boolean

Required: No

WriteHeader

A Boolean value that specifies whether to write the header to output. The default value is `True`.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3DeltaCatalogTarget

Specifies a target that writes to a Delta Lake data source in the AWS Glue Data Catalog.

Contents

Database

The name of the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalOptions

Specifies additional connection options for the connector.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

AutoDataQuality

Specifies whether to automatically enable data quality evaluation for the S3 Delta catalog target. When set to `true`, data quality checks are performed automatically during the write operation.

Type: AutoDataQuality object

Required: No

OutputSchemas

Specifies the data schema for the S3 Delta catalog target.

Type: Array of GlueSchema objects

Required: No

PartitionKeys

Specifies native partitioning using a sequence of keys.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

SchemaChangePolicy

A policy that specifies update behavior for the crawler.

Type: CatalogSchemaChangePolicy object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3DeltaDirectTarget

Specifies a target that writes to a Delta Lake data source in Amazon S3.

Contents

Compression

Specifies how the data is compressed. This is generally not necessary if the data has a standard file extension. Possible values are `"gzip"` and `"bzip"`).

Type: String

Valid Values: `uncompressed | snappy`

Required: Yes

Format

Specifies the data output format for the target.

Type: String

Valid Values: `json | csv | avro | orc | parquet | hudi | delta | iceberg | hyper | xml`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Path

The Amazon S3 path of your Delta Lake data source to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalOptions

Specifies additional connection options for the connector.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

AutoDataQuality

Specifies whether to automatically enable data quality evaluation for the S3 Delta direct target. When set to `true`, data quality checks are performed automatically during the write operation.

Type: AutoDataQuality object

Required: No

NumberTargetPartitions

Specifies the number of target partitions for distributing Delta Lake dataset files across Amazon S3.

Type: String

Required: No

PartitionKeys

Specifies native partitioning using a sequence of keys.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

SchemaChangePolicy

A policy that specifies update behavior for the crawler.

Type: DirectSchemaChangePolicy object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3DeltaSource

Specifies a Delta Lake data source stored in Amazon S3.

Contents

Name

The name of the Delta Lake source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Paths

A list of the Amazon S3 paths to read from.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalDeltaOptions

Specifies additional connection options.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

AdditionalOptions

Specifies additional options for the connector.

Type: S3DirectSourceAdditionalOptions object

Required: No

OutputSchemas

Specifies the data schema for the Delta Lake source.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3DirectSourceAdditionalOptions

Specifies additional connection options for the Amazon S3 data store.

Contents

BoundedFiles

Sets the upper limit for the target number of files that will be processed.

Type: Long

Required: No

BoundedSize

Sets the upper limit for the target size of the dataset in bytes that will be processed.

Type: Long

Required: No

EnableSamplePath

Sets option to enable a sample path.

Type: Boolean

Required: No

SamplePath

If enabled, specifies the sample path.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3DirectTarget

Specifies a data target that writes to Amazon S3.

Contents

Format

Specifies the data output format for the target.

Type: String

Valid Values: `json | csv | avro | orc | parquet | hudi | delta | iceberg | hyper | xml`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Path

A single Amazon S3 path to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AutoDataQuality

Specifies whether to automatically enable data quality evaluation for the S3 direct target. When set to `true`, data quality checks are performed automatically during the write operation.

Type: AutoDataQuality object

Required: No

Compression

Specifies how the data is compressed. This is generally not necessary if the data has a standard file extension. Possible values are `"gzip"` and `"bzip"`).

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

NumberTargetPartitions

Specifies the number of target partitions when writing data directly to Amazon S3.

Type: String

Required: No

OutputSchemas

Specifies the data schema for the S3 direct target.

Type: Array of GlueSchema objects

Required: No

PartitionKeys

Specifies native partitioning using a sequence of keys.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

SchemaChangePolicy

A policy that specifies update behavior for the crawler.

Type: DirectSchemaChangePolicy object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3Encryption

Specifies how Amazon Simple Storage Service (Amazon S3) data should be encrypted.

Contents

KmsKeyArn

The Amazon Resource Name (ARN) of the KMS key to be used to encrypt the data.

Type: String

Pattern: `^$|arn:aws[a-z0-9-]*:kms:.*`

Required: No

S3EncryptionMode

The encryption mode to use for Amazon S3 data.

Type: String

Valid Values: `DISABLED | SSE-KMS | SSE-S3`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3ExcelSource

Specifies an S3 Excel data source.

Contents

Name

The name of the S3 Excel data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Paths

The S3 paths where the Excel files are located.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalOptions

Additional configuration options for S3 direct source processing.

Type: S3DirectSourceAdditionalOptions object

Required: No

CompressionType

The compression format used for the Excel files.

Type: String

Valid Values: `snappy | lzo | gzip | brotli | lz4 | uncompressed | none`

Required: No

Exclusions

Patterns to exclude specific files or paths from processing.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

GroupFiles

Specifies how files should be grouped for processing.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

GroupSize

Defines the size of file groups for batch processing.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

MaxBand

The maximum number of processing bands to use.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

MaxFilesInBand

The maximum number of files to process in each band.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

NumberRows

The number of rows to process from each Excel file.

Type: Long

Required: No

OutputSchemas

The AWS Glue schemas to apply to the processed data.

Type: Array of GlueSchema objects

Required: No

Recurse

Indicates whether to recursively process subdirectories.

Type: Boolean

Required: No

SkipFooter

The number of rows to skip at the end of each Excel file.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3GlueParquetTarget

Specifies a data target that writes to Amazon S3 in Apache Parquet columnar storage.

Contents

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Path

A single Amazon S3 path to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AutoDataQuality

Specifies whether to automatically enable data quality evaluation for the S3 AWS Glue Parquet target. When set to `true`, data quality checks are performed automatically during the write operation.

Type: AutoDataQuality object

Required: No

Compression

Specifies how the data is compressed. This is generally not necessary if the data has a standard file extension. Possible values are `"gzip"` and `"bzip"`).

Type: String

Valid Values: `snappy | lzo | gzip | brotli | lz4 | uncompressed | none`

Required: No

NumberTargetPartitions

Specifies the number of target partitions for Parquet files when writing to Amazon S3 using AWS Glue.

Type: String

Required: No

PartitionKeys

Specifies native partitioning using a sequence of keys.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

SchemaChangePolicy

A policy that specifies update behavior for the crawler.

Type: DirectSchemaChangePolicy object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3HudiCatalogTarget

Specifies a target that writes to a Hudi data source in the AWS Glue Data Catalog.

Contents

AdditionalOptions

Specifies additional connection options for the connector.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Database

The name of the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table in the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AutoDataQuality

Specifies whether to automatically enable data quality evaluation for the S3 Hudi catalog target. When set to `true`, data quality checks are performed automatically during the write operation.

Type: AutoDataQuality object

Required: No

OutputSchemas

Specifies the data schema for the S3 Hudi catalog target.

Type: Array of GlueSchema objects

Required: No

PartitionKeys

Specifies native partitioning using a sequence of keys.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

SchemaChangePolicy

A policy that specifies update behavior for the crawler.

Type: CatalogSchemaChangePolicy object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3HudiDirectTarget

Specifies a target that writes to a Hudi data source in Amazon S3.

Contents

AdditionalOptions

Specifies additional connection options for the connector.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Compression

Specifies how the data is compressed. This is generally not necessary if the data has a standard file extension. Possible values are `"gzip"` and `"bzip"`).

Type: String

Valid Values: `gzip | lzo | uncompressed | snappy`

Required: Yes

Format

Specifies the data output format for the target.

Type: String

Valid Values: `json | csv | avro | orc | parquet | hudi | delta | iceberg | hyper | xml`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Path

The Amazon S3 path of your Hudi data source to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AutoDataQuality

Specifies whether to automatically enable data quality evaluation for the S3 Hudi direct target. When set to `true`, data quality checks are performed automatically during the write operation.

Type: AutoDataQuality object

Required: No

NumberTargetPartitions

Specifies the number of target partitions for distributing Hudi dataset files across Amazon S3.

Type: String

Required: No

PartitionKeys

Specifies native partitioning using a sequence of keys.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

SchemaChangePolicy

A policy that specifies update behavior for the crawler.

Type: DirectSchemaChangePolicy object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3HudiSource

Specifies a Hudi data source stored in Amazon S3.

Contents

Name

The name of the Hudi source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Paths

A list of the Amazon S3 paths to read from.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalHudiOptions

Specifies additional connection options.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

AdditionalOptions

Specifies additional options for the connector.

Type: S3DirectSourceAdditionalOptions object

Required: No

OutputSchemas

Specifies the data schema for the Hudi source.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3HyperDirectTarget

Specifies a HyperDirect data target that writes to Amazon S3.

Contents

Inputs

Specifies the input source for the HyperDirect target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The unique identifier for the HyperDirect target node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Path

The S3 location where the output data will be written.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AutoDataQuality

Specifies whether to automatically enable data quality evaluation for the S3 Hyper direct target. When set to `true`, data quality checks are performed automatically during the write operation.

Type: AutoDataQuality object

Required: No

Compression

The compression type to apply to the output data.

Type: String

Valid Values: `uncompressed`

Required: No

Format

Specifies the data output format for the HyperDirect target.

Type: String

Valid Values: `json | csv | avro | orc | parquet | hudi | delta | iceberg | hyper | xml`

Required: No

OutputSchemas

Specifies the data schema for the S3 Hyper direct target.

Type: Array of GlueSchema objects

Required: No

PartitionKeys

Defines the partitioning strategy for the output data.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

SchemaChangePolicy

Defines how schema changes are handled during write operations.

Type: DirectSchemaChangePolicy object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3IcebergCatalogTarget

Specifies an Apache Iceberg catalog target that writes data to Amazon S3 and registers the table in the AWS Glue Data Catalog.

Contents

Database

The name of the database to write to.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

The input connection for the Iceberg catalog target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the Iceberg catalog target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Table

The name of the table to write to in the catalog.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalOptions

Specifies additional connection options for the Iceberg catalog target.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

AutoDataQuality

Specifies whether to automatically enable data quality evaluation for the S3 Iceberg catalog target. When set to `true`, data quality checks are performed automatically during the write operation.

Type: AutoDataQuality object

Required: No

PartitionKeys

A list of partition keys for the Iceberg table.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

SchemaChangePolicy

The policy for handling schema changes in the catalog target.

Type: CatalogSchemaChangePolicy object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3IcebergDirectTarget

Specifies a target that writes to an Iceberg data source in Amazon S3.

Contents

Compression

Specifies the compression codec used for Iceberg table files in S3.

Type: String

Valid Values: `gzip | lzo | uncompressed | snappy`

Required: Yes

Format

Specifies the file format used for storing Iceberg table data (e.g., Parquet, ORC).

Type: String

Valid Values: `json | csv | avro | orc | parquet | hudi | delta | iceberg | hyper | xml`

Required: Yes

Inputs

Defines the single input source that provides data to this Iceberg target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

Specifies the unique identifier for the Iceberg target node in your data pipeline.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Path

Defines the S3 location where the Iceberg table data will be stored.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalOptions

Provides additional configuration options for customizing the Iceberg table behavior.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

AutoDataQuality

Specifies configuration options for automatic data quality evaluation in AWS Glue jobs. This structure enables automated data quality checks and monitoring during ETL operations, helping to ensure data integrity and reliability without manual intervention.

Type: AutoDataQuality object

Required: No

NumberTargetPartitions

Sets the number of target partitions for distributing Iceberg table files across S3.

Type: String

Required: No

OutputSchemas

Specifies the data schema for the S3 Iceberg direct target.

Type: Array of GlueSchema objects

Required: No

PartitionKeys

Specifies the columns used to partition the Iceberg table data in S3.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

SchemaChangePolicy

Defines how schema changes are handled when writing data to the Iceberg table.

Type: DirectSchemaChangePolicy object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3JsonSource

Specifies a JSON data store stored in Amazon S3.

Contents

Name

The name of the data store.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Paths

A list of the Amazon S3 paths to read from.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalOptions

Specifies additional connection options.

Type: S3DirectSourceAdditionalOptions object

Required: No

CompressionType

Specifies how the data is compressed. This is generally not necessary if the data has a standard file extension. Possible values are `"gzip"` and `"bzip"`).

Type: String

Valid Values: `gzip | bzip2`

Required: No

Exclusions

A string containing a JSON list of Unix-style glob patterns to exclude. For example, "[\"**.pdf\"]" excludes all PDF files.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

GroupFiles

Grouping files is turned on by default when the input contains more than 50,000 files. To turn on grouping with fewer than 50,000 files, set this parameter to "inPartition". To disable grouping when there are more than 50,000 files, set this parameter to `"none"`.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

GroupSize

The target group size in bytes. The default is computed based on the input data size and the size of your cluster. When there are fewer than 50,000 input files, `"groupFiles"` must be set to `"inPartition"` for this to take effect.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

JsonPath

A JsonPath string defining the JSON data.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

MaxBand

This option controls the duration in milliseconds after which the s3 listing is likely to be consistent. Files with modification timestamps falling within the last maxBand milliseconds are tracked specially when using JobBookmarks to account for Amazon S3 eventual consistency. Most users don't need to set this option. The default is 900000 milliseconds, or 15 minutes.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

MaxFilesInBand

This option specifies the maximum number of files to save from the last maxBand seconds. If this number is exceeded, extra files are skipped and only processed in the next job run.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

Multiline

A Boolean value that specifies whether a single record can span multiple lines. This can occur when a field contains a quoted new-line character. You must set this option to True if any record spans multiple lines. The default value is `False`, which allows for more aggressive file-splitting during parsing.

Type: Boolean

Required: No

OutputSchemas

Specifies the data schema for the S3 JSON source.

Type: Array of GlueSchema objects

Required: No

Recurse

If set to true, recursively reads files in all subdirectories under the specified paths.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3ParquetSource

Specifies an Apache Parquet data store stored in Amazon S3.

Contents

Name

The name of the data store.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Paths

A list of the Amazon S3 paths to read from.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

AdditionalOptions

Specifies additional connection options.

Type: S3DirectSourceAdditionalOptions object

Required: No

CompressionType

Specifies how the data is compressed. This is generally not necessary if the data has a standard file extension. Possible values are `"gzip"` and `"bzip"`).

Type: String

Valid Values: `snappy | lzo | gzip | brotli | lz4 | uncompressed | none`

Required: No

Exclusions

A string containing a JSON list of Unix-style glob patterns to exclude. For example, "[\"**.pdf\"]" excludes all PDF files.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

GroupFiles

Grouping files is turned on by default when the input contains more than 50,000 files. To turn on grouping with fewer than 50,000 files, set this parameter to "inPartition". To disable grouping when there are more than 50,000 files, set this parameter to `"none"`.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

GroupSize

The target group size in bytes. The default is computed based on the input data size and the size of your cluster. When there are fewer than 50,000 input files, `"groupFiles"` must be set to `"inPartition"` for this to take effect.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

MaxBand

This option controls the duration in milliseconds after which the s3 listing is likely to be consistent. Files with modification timestamps falling within the last maxBand milliseconds are tracked specially when using JobBookmarks to account for Amazon S3 eventual consistency. Most users don't need to set this option. The default is 900000 milliseconds, or 15 minutes.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

MaxFilesInBand

This option specifies the maximum number of files to save from the last maxBand seconds. If this number is exceeded, extra files are skipped and only processed in the next job run.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

OutputSchemas

Specifies the data schema for the S3 Parquet source.

Type: Array of GlueSchema objects

Required: No

Recurse

If set to true, recursively reads files in all subdirectories under the specified paths.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3SourceAdditionalOptions

Specifies additional connection options for the Amazon S3 data store.

Contents

BoundedFiles

Sets the upper limit for the target number of files that will be processed.

Type: Long

Required: No

BoundedSize

Sets the upper limit for the target size of the dataset in bytes that will be processed.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3Target

Specifies a data store in Amazon Simple Storage Service (Amazon S3).

Contents

ConnectionName

The name of a connection which allows a job or crawler to access data in Amazon S3 within an Amazon Virtual Private Cloud environment (Amazon VPC).

Type: String

Required: No

DlqEventQueueArn

A valid Amazon dead-letter SQS ARN. For example, `arn:aws:sqs:region:account:deadLetterQueue`.

Type: String

Required: No

EventQueueArn

A valid Amazon SQS ARN. For example, `arn:aws:sqs:region:account:sqs`.

Type: String

Required: No

Exclusions

A list of glob patterns used to exclude from the crawl. For more information, see Catalog Tables with a Crawler.

Type: Array of strings

Required: No

Path

The path to the Amazon S3 target.

Type: String

Required: No

SampleSize

Sets the number of files in each leaf folder to be crawled when crawling sample files in a dataset. If not set, all the files are crawled. A valid value is an integer between 1 and 249.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Schedule

A scheduling object using a `cron` statement to schedule an event.

Contents

ScheduleExpression

A `cron` expression used to specify the schedule (see Time-Based Schedules for Jobs and Crawlers. For example, to run something every day at 12:15 UTC, you would specify: `cron(15 12 * * ? *)`.

Type: String

Required: No

State

The state of the schedule.

Type: String

Valid Values: `SCHEDULED | NOT_SCHEDULED | TRANSITIONING`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SchemaChangePolicy

A policy that specifies update and deletion behaviors for the crawler.

Contents

DeleteBehavior

The deletion behavior when the crawler finds a deleted object.

Type: String

Valid Values: `LOG | DELETE_FROM_DATABASE | DEPRECATE_IN_DATABASE`

Required: No

UpdateBehavior

The update behavior when the crawler finds a changed schema.

Type: String

Valid Values: `LOG | UPDATE_IN_DATABASE`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SchemaColumn

A key-value pair representing a column and data type that this transform can run against. The `Schema` parameter of the `MLTransform` may contain up to 100 of these structures.

Contents

DataType

The type of data in the column.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 131072.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Name

The name of the column.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SchemaId

The unique ID of the schema in the AWS Glue schema registry.

Contents

RegistryName

The name of the schema registry that contains the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

Required: No

SchemaArn

The Amazon Resource Name (ARN) of the schema. One of `SchemaArn` or `SchemaName` has to be provided.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

Required: No

SchemaName

The name of the schema. One of `SchemaArn` or `SchemaName` has to be provided.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SchemaListItem

An object that contains minimal details for a schema.

Contents

CreatedTime

The date and time that a schema was created.

Type: String

Required: No

Description

A description for the schema.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

RegistryName

the name of the registry where the schema resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

Required: No

SchemaArn

The Amazon Resource Name (ARN) for the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

Required: No

SchemaName

The name of the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9-_$#.]+`

Required: No

SchemaStatus

The status of the schema.

Type: String

Valid Values: `AVAILABLE | PENDING | DELETING`

Required: No

UpdatedTime

The date and time that a schema was updated.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SchemaReference

An object that references a schema stored in the AWS Glue Schema Registry.

Contents

SchemaId

A structure that contains schema identity fields. Either this or the `SchemaVersionId` has to be provided.

Type: SchemaId object

Required: No

SchemaVersionId

The unique ID assigned to a version of the schema. Either this or the `SchemaId` has to be provided.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

SchemaVersionNumber

The version number of the schema.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SchemaVersionErrorItem

An object that contains the error details for an operation on a schema version.

Contents

ErrorDetails

The details of the error for the schema version.

Type: ErrorDetails object

Required: No

VersionNumber

The version number of the schema.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SchemaVersionListItem

An object containing the details about a schema version.

Contents

CreatedTime

The date and time the schema version was created.

Type: String

Required: No

SchemaArn

The Amazon Resource Name (ARN) of the schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Pattern: `arn:aws(-(cn|us-gov|iso(-[bef])?))?:glue:.*`

Required: No

SchemaVersionId

The unique identifier of the schema version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

Status

The status of the schema version.

Type: String

Valid Values: `AVAILABLE | PENDING | FAILURE | DELETING`

Required: No

VersionNumber

The version number of the schema.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SchemaVersionNumber

A structure containing the schema version information.

Contents

LatestVersion

The latest version available for the schema.

Type: Boolean

Required: No

VersionNumber

The version number of the schema.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SecurityConfiguration

Specifies a security configuration.

Contents

CreatedTimeStamp

The time at which this security configuration was created.

Type: Timestamp

Required: No

EncryptionConfiguration

The encryption configuration associated with this security configuration.

Type: EncryptionConfiguration object

Required: No

Name

The name of the security configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Segment

Defines a non-overlapping region of a table's partitions, allowing multiple requests to be run in parallel.

Contents

SegmentNumber

The zero-based index number of the segment. For example, if the total number of segments is 4, `SegmentNumber` values range from 0 through 3.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

TotalSegments

The total number of segments.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SelectFields

Specifies a transform that chooses the data property keys that you want to keep.

Contents

Inputs

The data inputs identified by their node names.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Paths

A JSON path to a variable in the data structure.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SelectFromCollection

Specifies a transform that chooses one `DynamicFrame` from a collection of `DynamicFrames`. The output is the selected `DynamicFrame`

Contents

Index

The index for the DynamicFrame to be selected.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

Inputs

The data inputs identified by their node names.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SerDeInfo

Information about a serialization/deserialization program (SerDe) that serves as an extractor and loader.

Contents

Name

Name of the SerDe.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Parameters

These key-value pairs define initialization parameters for the SerDe.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

SerializationLibrary

Usually the class that implements the SerDe. An example is `org.apache.hadoop.hive.serde2.columnar.ColumnarSerDe`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Session

The period in which a remote Spark runtime environment is running.

Contents

Command

The command object.See SessionCommand.

Type: SessionCommand object

Required: No

CompletedOn

The date and time that this session is completed.

Type: Timestamp

Required: No

Connections

The number of connections used for the session.

Type: ConnectionsList object

Required: No

CreatedOn

The time and date when the session was created.

Type: Timestamp

Required: No

DefaultArguments

A map array of key-value pairs. Max is 75 pairs.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 75 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[\.\-_A-Za-z0-9]+`

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Value Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

Description

The description of the session.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

DPUSeconds

The DPUs consumed by the session (formula: ExecutionTime * MaxCapacity).

Type: Double

Required: No

ErrorMessage

The error message displayed during the session.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

ExecutionTime

The total time the session ran for.

Type: Double

Required: No

GlueVersion

The AWS Glue version determines the versions of Apache Spark and Python that AWS Glue supports. The GlueVersion must be greater than 2.0.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `^(\w+\.)+\w+$`

Required: No

Id

The ID of the session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

IdleTimeout

The number of minutes when idle before the session times out.

Type: Integer

Required: No

MaxCapacity

The number of AWS Glue data processing units (DPUs) that can be allocated when the job runs. A DPU is a relative measure of processing power that consists of 4 vCPUs of compute capacity and 16 GB memory.

Type: Double

Required: No

NumberOfWorkers

The number of workers of a defined `WorkerType` to use for the session.

Type: Integer

Required: No

ProfileName

The name of an AWS Glue usage profile associated with the session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Progress

The code execution progress of the session.

Type: Double

Required: No

Role

The name or Amazon Resource Name (ARN) of the IAM role associated with the Session.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[^:]*:iam::[0-9]*:role/.+`

Required: No

SecurityConfiguration

The name of the SecurityConfiguration structure to be used with the session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Status

The session status.

Type: String

Valid Values: `PROVISIONING | READY | FAILED | TIMEOUT | STOPPING | STOPPED`

Required: No

WorkerType

The type of predefined worker that is allocated when a session runs. Accepts a value of `G.1X`, `G.2X`, `G.4X`, or `G.8X` for Spark sessions. Accepts the value `Z.2X` for Ray sessions.

Type: String

Valid Values: `Standard | G.1X | G.2X | G.025X | G.4X | G.8X | Z.2X`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SessionCommand

The `SessionCommand` that runs the job.

Contents

Name

Specifies the name of the SessionCommand. Can be 'glueetl' or 'gluestreaming'.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

PythonVersion

Specifies the Python version. The Python version indicates the version supported for jobs of type Spark.

Type: String

Pattern: `^([2-3]|3[.]9)$`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SkewedInfo

Specifies skewed values in a table. Skewed values are those that occur with very high frequency.

Contents

SkewedColumnNames

A list of names of columns that contain skewed values.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

SkewedColumnValueLocationMaps

A mapping of skewed values to the columns that contain them.

Type: String to string map

Required: No

SkewedColumnValues

A list of values that appear so frequently as to be considered skewed.

Type: Array of strings

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SnowflakeNodeData

Specifies configuration for Snowflake nodes in AWS Glue Studio.

Contents

Action

Specifies what action to take when writing to a table with preexisting data. Valid values: `append`, `merge`, `truncate`, `drop`.

Type: String

Required: No

AdditionalOptions

Specifies additional options passed to the Snowflake connector. If options are specified elsewhere in this node, this will take precedence.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

AutoPushdown

Specifies whether automatic query pushdown is enabled. If pushdown is enabled, then when a query is run on Spark, if part of the query can be "pushed down" to the Snowflake server, it is pushed down. This improves performance of some queries.

Type: Boolean

Required: No

Connection

Specifies a AWS Glue Data Catalog Connection to a Snowflake endpoint.

Type: Option object

Required: No

Database

Specifies a Snowflake database for your node to use.

Type: String

Required: No

IamRole

Not currently used.

Type: Option object

Required: No

MergeAction

Specifies a merge action. Valid values: `simple`, `custom`. If simple, merge behavior is defined by `MergeWhenMatched` and `MergeWhenNotMatched`. If custom, defined by `MergeClause`.

Type: String

Pattern: `[A-Za-z0-9_-]*`

Required: No

MergeClause

A SQL statement that specifies a custom merge behavior.

Type: String

Required: No

MergeWhenMatched

Specifies how to resolve records that match preexisting data when merging. Valid values: `update`, `delete`.

Type: String

Pattern: `[A-Za-z0-9_-]*`

Required: No

MergeWhenNotMatched

Specifies how to process records that do not match preexisting data when merging. Valid values: `insert`, `none`.

Type: String

Pattern: `[A-Za-z0-9_-]*`

Required: No

PostAction

A SQL string run after the Snowflake connector performs its standard actions.

Type: String

Required: No

PreAction

A SQL string run before the Snowflake connector performs its standard actions.

Type: String

Required: No

SampleQuery

A SQL string used to retrieve data with the `query` sourcetype.

Type: String

Required: No

Schema

Specifies a Snowflake database schema for your node to use.

Type: String

Required: No

SelectedColumns

Specifies the columns combined to identify a record when detecting matches for merges and upserts. A list of structures with `value`, `label` and `description` keys. Each structure describes a column.

Type: Array of Option objects

Required: No

SourceType

Specifies how retrieved data is specified. Valid values: `"table"`, `"query"`.

Type: String

Pattern: `[A-Za-z0-9_-]*`

Required: No

StagingTable

The name of a staging table used when performing `merge` or upsert `append` actions. Data is written to this table, then moved to `table` by a generated postaction.

Type: String

Required: No

Table

Specifies a Snowflake table for your node to use.

Type: String

Required: No

TableSchema

Manually defines the target schema for the node. A list of structures with `value` , `label` and `description` keys. Each structure defines a column.

Type: Array of Option objects

Required: No

TempDir

Not currently used.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

Upsert

Used when Action is append. Specifies the resolution behavior when a row already exists. If true, preexisting rows will be updated. If false, those rows will be inserted.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SnowflakeSource

Specifies a Snowflake data source.

Contents

Data

Configuration for the Snowflake data source.

Type: SnowflakeNodeData object

Required: Yes

Name

The name of the Snowflake data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

OutputSchemas

Specifies user-defined schemas for your output data.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SnowflakeTarget

Specifies a Snowflake target.

Contents

Data

Specifies the data of the Snowflake target node.

Type: SnowflakeNodeData object

Required: Yes

Name

The name of the Snowflake target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

SortCriterion

Specifies a field to sort by and a sort order.

Contents

FieldName

The name of the field on which to sort.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

Sort

An ascending or descending sort.

Type: String

Valid Values: `ASC | DESC`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SourceConfiguration

Configuration that defines how to make requests to endpoints, including request methods, paths, parameters, and response handling.

Contents

PaginationConfiguration

Configuration for handling paginated responses from the REST API, supporting both cursor-based and offset-based pagination strategies.

Type: PaginationConfiguration object

Required: No

RequestMethod

The HTTP method to use for requests to this endpoint, such as GET, POST.

Type: String

Valid Values: `GET | POST`

Required: No

RequestParameters

Configuration for request parameters that should be included in API calls, such as query parameters, headers, or body content.

Type: Array of ConnectorProperty objects

Required: No

RequestPath

The URL path for the REST endpoint, which may include parameter placeholders that will be replaced with actual values during requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `/[a-zA-Z0-9._~:/?#\[\]@!$&'()*+,;={}-]*`

Required: No

ResponseConfiguration

Configuration that defines how to parse and extract data from API responses, including success and error handling.

Type: ResponseConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SourceControlDetails

The details for a source control configuration for a job, allowing synchronization of job artifacts to or from a remote repository.

Contents

AuthStrategy

The type of authentication, which can be an authentication token stored in AWS Secrets Manager, or a personal access token.

Type: String

Valid Values: `PERSONAL_ACCESS_TOKEN | AWS_SECRETS_MANAGER`

Required: No

AuthToken

The value of an authorization token.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

Branch

An optional branch in the remote repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

Folder

An optional folder in the remote repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

LastCommitId

The last commit ID for a commit in the remote repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

Owner

The owner of the remote repository that contains the job artifacts.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

Provider

The provider for the remote repository.

Type: String

Valid Values: `GITHUB | GITLAB | BITBUCKET | AWS_CODE_COMMIT`

Required: No

Repository

The name of the remote repository that contains the job artifacts.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SourceProcessingProperties

The resource properties associated with the integration source.

Contents

RoleArn

The IAM role to access the AWS Glue connection.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SourceTableConfig

Properties used by the source leg to process data from the source.

Contents

Fields

A list of fields used for column-level filtering. Currently unsupported.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

FilterPredicate

A condition clause used for row-level filtering. Currently unsupported.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

PrimaryKey

Provide the primary key set for this table. Currently supported specifically for SAP `Entity0f` entities upon request. Contact AWS Support to make this feature available.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

RecordUpdateField

Incremental pull timestamp-based field. Currently unsupported.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SparkConnectorSource

Specifies a connector to an Apache Spark data source.

Contents

ConnectionName

The name of the connection that is associated with the connector.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

ConnectionType

The type of connection, such as marketplace.spark or custom.spark, designating a connection to an Apache Spark data store.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

ConnectorName

The name of a connector that assists with accessing the data store in AWS Glue Studio.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Name

The name of the data source.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

AdditionalOptions

Additional connection options for the connector.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

OutputSchemas

Specifies data schema for the custom spark source.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SparkConnectorTarget

Specifies a target that uses an Apache Spark connector.

Contents

ConnectionName

The name of a connection for an Apache Spark connector.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

ConnectionType

The type of connection, such as marketplace.spark or custom.spark, designating a connection to an Apache Spark data store.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

ConnectorName

The name of an Apache Spark connector.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Inputs

The nodes that are inputs to the data target.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the data target.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

AdditionalOptions

Additional connection options for the connector.

Type: String to string map

Key Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Value Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

OutputSchemas

Specifies the data schema for the custom spark target.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SparkSQL

Specifies a transform where you enter a SQL query using Spark SQL syntax to transform the data. The output is a single `DynamicFrame`.

Contents

Inputs

The data inputs identified by their node names. You can associate a table name with each input node to use in the SQL query. The name you choose must meet the Spark SQL naming restrictions.

Type: Array of strings

Array Members: Minimum number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

SqlAliases

A list of aliases. An alias allows you to specify what name to use in the SQL for a given input. For example, you have a datasource named "MyDataSource". If you specify `From` as MyDataSource, and `Alias` as SqlName, then in your SQL you can do:

```
select * from SqlName
```

and that gets data from MyDataSource.

Type: Array of SqlAlias objects

Required: Yes

SqlQuery

A SQL query that must use Spark SQL syntax and return a single data set.

Type: String

Pattern: `([\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\s])*`

Required: Yes

OutputSchemas

Specifies the data schema for the SparkSQL transform.

Type: Array of GlueSchema objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Spigot

Specifies a transform that writes samples of the data to an Amazon S3 bucket.

Contents

Inputs

The data inputs identified by their node names.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Path

A path in Amazon S3 where the transform will write a subset of records from the dataset to a JSON file in an Amazon S3 bucket.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Prob

The probability (a decimal value with a maximum value of 1) of picking any given record. A value of 1 indicates that each row read from the dataset should be included in the sample output.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 1.

Required: No

Topk

Specifies a number of records to write starting from the beginning of the dataset.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SplitFields

Specifies a transform that splits data property keys into two `DynamicFrames`. The output is a collection of `DynamicFrames`: one with selected data property keys, and one with the remaining data property keys.

Contents

Inputs

The data inputs identified by their node names.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

Paths

A JSON path to a variable in the data structure.

Type: Array of arrays of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SqlAlias

Represents a single entry in the list of values for `SqlAliases`.

Contents

Alias

A temporary name given to a table, or a column in a table.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

From

A table, or a column in a table.

Type: String

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StartingEventBatchCondition

The batch condition that started the workflow run. Either the number of events in the batch size arrived, in which case the BatchSize member is non-zero, or the batch window expired, in which case the BatchWindow member is non-zero.

Contents

BatchSize

Number of events in the batch.

Type: Integer

Required: No

BatchWindow

Duration of the batch window in seconds.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Statement

The statement or request for a particular action to occur in a session.

Contents

Code

The execution code of the statement.

Type: String

Required: No

CompletedOn

The unix time and date that the job definition was completed.

Type: Long

Required: No

Id

The ID of the statement.

Type: Integer

Required: No

Output

The output in JSON.

Type: StatementOutput object

Required: No

Progress

The code execution progress.

Type: Double

Required: No

StartedOn

The unix time and date that the job definition was started.

Type: Long

Required: No

State

The state while request is actioned.

Type: String

Valid Values: `WAITING | RUNNING | AVAILABLE | CANCELLING | CANCELLED | ERROR`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StatementOutput

The code execution output in JSON format.

Contents

Data

The code execution output.

Type: StatementOutputData object

Required: No

ErrorName

The name of the error in the output.

Type: String

Required: No

ErrorValue

The error value of the output.

Type: String

Required: No

ExecutionCount

The execution count of the output.

Type: Integer

Required: No

Status

The status of the code execution output.

Type: String

Valid Values: `WAITING | RUNNING | AVAILABLE | CANCELLING | CANCELLED | ERROR`

Required: No

Traceback

The traceback of the output.

Type: Array of strings

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StatementOutputData

The code execution output in JSON format.

Contents

TextPlain

The code execution output in text format.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StatisticAnnotation

A Statistic Annotation.

Contents

InclusionAnnotation

The inclusion annotation applied to the statistic.

Type: TimestampedInclusionAnnotation object

Required: No

ProfileId

The Profile ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

StatisticId

The Statistic ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

StatisticRecordedOn

The timestamp when the annotated statistic was recorded.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StatisticModelResult

The statistic model result.

Contents

ActualValue

The actual value.

Type: Double

Required: No

Date

The date.

Type: Timestamp

Required: No

InclusionAnnotation

The inclusion annotation.

Type: String

Valid Values: `INCLUDE | EXCLUDE`

Required: No

LowerBound

The lower bound.

Type: Double

Required: No

PredictedValue

The predicted value.

Type: Double

Required: No

UpperBound

The upper bound.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StatisticSummary

Summary information about a statistic.

Contents

ColumnsReferenced

The list of columns referenced by the statistic.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DoubleValue

The value of the statistic.

Type: Double

Required: No

EvaluationLevel

The evaluation level of the statistic. Possible values: `Dataset`, `Column`, `Multicolumn`.

Type: String

Valid Values: `Dataset | Column | Multicolumn`

Required: No

InclusionAnnotation

The inclusion annotation for the statistic.

Type: TimestampedInclusionAnnotation object

Required: No

ProfileId

The Profile ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

RecordedOn

The timestamp when the statistic was recorded.

Type: Timestamp

Required: No

ReferencedDatasets

The list of datasets referenced by the statistic.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

RunIdentifier

The Run Identifier

Type: RunIdentifier object

Required: No

StatisticId

The Statistic ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

StatisticName

The name of the statistic.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[A-Z][A-Za-z\.]+`

Required: No

StatisticProperties

A `StatisticPropertiesMap`, which contains a `NameString` and `DescriptionString`

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Minimum length of 0. Maximum length of 2048.

Value Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StatusDetails

A structure containing information about an asynchronous change to a table.

Contents

RequestedChange

A `Table` object representing the requested changes.

Type: Table object

Required: No

ViewValidations

A list of `ViewValidation` objects that contain information for an analytical engine to validate a view.

Type: Array of ViewValidation objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StorageDescriptor

Describes the physical storage of table data.

Contents

AdditionalLocations

A list of locations that point to the path where a Delta table is located.

Type: Array of strings

Length Constraints: Maximum length of 2056.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

BucketColumns

A list of reducer grouping columns, clustering columns, and bucketing columns in the table.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Columns

A list of the `Columns` in the table.

Type: Array of Column objects

Required: No

Compressed

`True` if the data in the table is compressed, or `False` if not.

Type: Boolean

Required: No

InputFormat

The input format: `SequenceFileInputFormat` (binary), or `TextInputFormat`, or a custom format.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Location

The physical location of the table. By default, this takes the form of the warehouse location, followed by the database location in the warehouse, followed by the table name.

Type: String

Length Constraints: Maximum length of 2056.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

NumberOfBuckets

Must be specified if the table contains any dimension columns.

Type: Integer

Required: No

OutputFormat

The output format: `SequenceFileOutputFormat` (binary), or `IgnoreKeyTextOutputFormat`, or a custom format.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Parameters

The user-supplied properties in key-value form.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

SchemaReference

An object that references a schema stored in the AWS Glue Schema Registry.

When creating a table, you can pass an empty list of columns for the schema, and instead use a schema reference.

Type: SchemaReference object

Required: No

SerdeInfo

The serialization/deserialization (SerDe) information.

Type: SerDeInfo object

Required: No

SkewedInfo

The information about values that appear frequently in a column (skewed values).

Type: SkewedInfo object

Required: No

SortColumns

A list specifying the sort order of each bucket in the table.

Type: Array of Order objects

Required: No

StoredAsSubDirectories

`True` if the table data is stored in subdirectories, or `False` if not.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StreamingDataPreviewOptions

Specifies options related to data preview for viewing a sample of your data.

Contents

PollingTime

The polling time in milliseconds.

Type: Long

Valid Range: Minimum value of 10.

Required: No

RecordPollingLimit

The limit to the number of records polled.

Type: Long

Valid Range: Minimum value of 1.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StringColumnStatisticsData

Defines column statistics supported for character sequence data values.

Contents

AverageLength

The average string length in the column.

Type: Double

Valid Range: Minimum value of 0.0.

Required: Yes

MaximumLength

The size of the longest string in the column.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

NumberOfDistinctValues

The number of distinct values in a column.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

NumberOfNulls

The number of null values in the column.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SupportedDialect

A structure specifying the dialect and dialect version used by the query engine.

Contents

Dialect

The dialect of the query engine.

Type: String

Valid Values: `REDSHIFT | ATHENA | SPARK`

Required: No

DialectVersion

The version of the dialect of the query engine. For example, 3.0.0.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Table

Represents a collection of related data organized in columns and rows.

Contents

Name

The table name. For Hive compatibility, this must be entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

CatalogId

The ID of the Data Catalog in which the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

CreatedBy

The person or entity who created the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

CreateTime

The time when the table definition was created in the Data Catalog.

Type: Timestamp

Required: No

DatabaseName

The name of the database where the table metadata resides. For Hive compatibility, this must be all lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Description

A description of the table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

FederatedTable

A `FederatedTable` structure that references an entity outside the AWS Glue Data Catalog.

Type: FederatedTable object

Required: No

IsMaterializedView

Indicates a table is a `MaterializedView`.

Type: Boolean

Required: No

IsMultiDialectView

Specifies whether the view supports the SQL dialects of one or more different query engines and can therefore be read by those engines.

Type: Boolean

Required: No

IsRegisteredWithLakeFormation

Indicates whether the table has been registered with AWS Lake Formation.

Type: Boolean

Required: No

LastAccessTime

The last time that the table was accessed. This is usually taken from HDFS, and might not be reliable.

Type: Timestamp

Required: No

LastAnalyzedTime

The last time that column statistics were computed for this table.

Type: Timestamp

Required: No

Owner

The owner of the table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Parameters

These key-value pairs define properties associated with the table.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

PartitionKeys

A list of columns by which the table is partitioned. Only primitive types are supported as partition keys.

When you create a table used by Amazon Athena, and you do not specify any `partitionKeys`, you must at least set the value of `partitionKeys` to an empty list. For example:

`"PartitionKeys": []`

Type: Array of Column objects

Required: No

Retention

The retention time for this table.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

Status

Indicates the the state of an asynchronous change to a table.

Type: TableStatus object

Required: No

StorageDescriptor

A storage descriptor containing information about the physical storage of this table.

Type: StorageDescriptor object

Required: No

TableType

The type of this table. AWS Glue will create tables with the EXTERNAL_TABLE type. Other services, such as Athena, may create tables with additional table types.

AWS Glue related table types:

EXTERNAL_TABLE

Hive compatible attribute - indicates a non-Hive managed table.

GOVERNED

Used by AWS Lake Formation. The AWS Glue Data Catalog understands GOVERNED.

Type: String

Length Constraints: Maximum length of 255.

Required: No

TargetTable

A `TableIdentifier` structure that describes a target table for resource linking.

Type: TableIdentifier object

Required: No

UpdateTime

The last time that the table was updated.

Type: Timestamp

Required: No

VersionId

The ID of the table version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ViewDefinition

A structure that contains all the information that defines the view, including the dialect or dialects for the view, and the query.

Type: ViewDefinition object

Required: No

ViewExpandedText

Included for Apache Hive compatibility. Not used in the normal course of AWS Glue operations.

Type: String

Length Constraints: Maximum length of 409600.

Required: No

ViewOriginalText

Included for Apache Hive compatibility. Not used in the normal course of AWS Glue operations. If the table is a `VIRTUAL_VIEW`, certain Athena configuration encoded in base64.

Type: String

Length Constraints: Maximum length of 409600.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

TableError

An error record for table operations.

Contents

ErrorDetail

The details about the error.

Type: ErrorDetail object

Required: No

TableName

The name of the table. For Hive compatibility, this must be entirely lowercase.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TableIdentifier

A structure that describes a target table for resource linking.

Contents

CatalogId

The ID of the Data Catalog in which the table resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

DatabaseName

The name of the catalog database that contains the target table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Name

The name of the target table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Region

Region of the target table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TableInput

A structure used to define a table.

Contents

Name

The table name. For Hive compatibility, this is folded to lowercase when it is stored.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Description

A description of the table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

LastAccessTime

The last time that the table was accessed.

Type: Timestamp

Required: No

LastAnalyzedTime

The last time that column statistics were computed for this table.

Type: Timestamp

Required: No

Owner

The table owner. Included for Apache Hive compatibility. Not used in the normal course of AWS Glue operations.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Parameters

These key-value pairs define properties associated with the table.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 512000.

Required: No

PartitionKeys

A list of columns by which the table is partitioned. Only primitive types are supported as partition keys.

When you create a table used by Amazon Athena, and you do not specify any `partitionKeys`, you must at least set the value of `partitionKeys` to an empty list. For example:

`"PartitionKeys": []`

Type: Array of Column objects

Required: No

Retention

The retention time for this table.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

StorageDescriptor

A storage descriptor containing information about the physical storage of this table.

Type: StorageDescriptor object

Required: No

TableType

The type of this table. AWS Glue will create tables with the `EXTERNAL_TABLE` type. Other services, such as Athena, may create tables with additional table types.

AWS Glue related table types:

EXTERNAL_TABLE

Hive compatible attribute - indicates a non-Hive managed table.

GOVERNED

Used by AWS Lake Formation. The AWS Glue Data Catalog understands `GOVERNED`.

Type: String

Length Constraints: Maximum length of 255.

Required: No

TargetTable

A `TableIdentifier` structure that describes a target table for resource linking.

Type: TableIdentifier object

Required: No

ViewDefinition

A structure that contains all the information that defines the view, including the dialect or dialects for the view, and the query.

Type: ViewDefinitionInput object

Required: No

ViewExpandedText

Included for Apache Hive compatibility. Not used in the normal course of AWS Glue operations.

Type: String

Length Constraints: Maximum length of 409600.

Required: No

ViewOriginalText

Included for Apache Hive compatibility. Not used in the normal course of AWS Glue operations. If the table is a `VIRTUAL_VIEW`, certain Athena configuration encoded in base64.

Type: String

Length Constraints: Maximum length of 409600.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TableOptimizer

Contains details about an optimizer associated with a table.

Contents

configuration

A `TableOptimizerConfiguration` object that was specified when creating or updating a table optimizer.

Type: TableOptimizerConfiguration object

Required: No

configurationSource

Specifies the source of the optimizer configuration. This indicates how the table optimizer was configured and which entity or service initiated the configuration.

Type: String

Valid Values: `catalog | table`

Required: No

lastRun

A `TableOptimizerRun` object representing the last run of the table optimizer.

Type: TableOptimizerRun object

Required: No

type

The type of table optimizer. The valid values are:

- `compaction`: for managing compaction with a table optimizer.
- `retention`: for managing the retention of snapshot with a table optimizer.
- `orphan_file_deletion`: for managing the deletion of orphan files with a table optimizer.

Type: String

Valid Values: `compaction | retention | orphan_file_deletion`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TableOptimizerConfiguration

Contains details on the configuration of a table optimizer. You pass this configuration when creating or updating a table optimizer.

Contents

compactionConfiguration

The configuration for a compaction optimizer. This configuration defines how data files in your table will be compacted to improve query performance and reduce storage costs.

Type: CompactionConfiguration object

Required: No

enabled

Whether table optimization is enabled.

Type: Boolean

Required: No

orphanFileDeletionConfiguration

The configuration for an orphan file deletion optimizer.

Type: OrphanFileDeletionConfiguration object

Required: No

retentionConfiguration

The configuration for a snapshot retention optimizer.

Type: RetentionConfiguration object

Required: No

roleArn

A role passed by the caller which gives the service permission to update the resources associated with the optimizer on the caller's behalf.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

vpcConfiguration

A `TableOptimizerVpcConfiguration` object representing the VPC configuration for a table optimizer.

This configuration is necessary to perform optimization on tables that are in a customer VPC.

Type: TableOptimizerVpcConfiguration object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TableOptimizerRun

Contains details for a table optimizer run.

Contents

compactionMetrics

A `CompactionMetrics` object containing metrics for the optimizer run.

Type: CompactionMetrics object

Required: No

compactionStrategy

The strategy used for the compaction run. Indicates which algorithm was applied to determine how files were selected and combined during the compaction process. Valid values are:

- `binpack`: Combines small files into larger files, typically targeting sizes over 100MB, while applying any pending deletes. This is the recommended compaction strategy for most use cases.
- `sort`: Organizes data based on specified columns which are sorted hierarchically during compaction, improving query performance for filtered operations. This strategy is recommended when your queries frequently filter on specific columns. To use this strategy, you must first define a sort order in your Iceberg table properties using the `sort_order` table property.
- `z-order`: Optimizes data organization by blending multiple attributes into a single scalar value that can be used for sorting, allowing efficient querying across multiple dimensions. This strategy is recommended when you need to query data across multiple dimensions simultaneously. To use this strategy, you must first define a sort order in your Iceberg table properties using the `sort_order` table property.

Type: String

Valid Values: `binpack | sort | z-order`

Required: No

endTimestamp

Represents the epoch timestamp at which the compaction job ended.

Type: Timestamp

Required: No

error

An error that occured during the optimizer run.

Type: String

Required: No

eventType

An event type representing the status of the table optimizer run.

Type: String

Valid Values: `starting | completed | failed | in_progress`

Required: No

metrics

A `RunMetrics` object containing metrics for the optimizer run.

This member is deprecated. See the individual metric members for compaction, retention, and orphan file deletion.

Type: RunMetrics object

Required: No

orphanFileDeletionMetrics

An `OrphanFileDeletionMetrics` object containing metrics for the optimizer run.

Type: OrphanFileDeletionMetrics object

Required: No

retentionMetrics

A `RetentionMetrics` object containing metrics for the optimizer run.

Type: RetentionMetrics object

Required: No

startTimestamp

Represents the epoch timestamp at which the compaction job was started within Lake Formation.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TableOptimizerVpcConfiguration

An object that describes the VPC configuration for a table optimizer.

This configuration is necessary to perform optimization on tables that are in a customer VPC.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

glueConnectionName

The name of the AWS Glue connection used for the VPC for the table optimizer.

Type: String

Length Constraints: Minimum length of 1.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TableStatus

A structure containing information about the state of an asynchronous change to a table.

Contents

Action

Indicates which action was called on the table, currently only `CREATE` or `UPDATE`.

Type: String

Valid Values: `UPDATE | CREATE`

Required: No

Details

A `StatusDetails` object with information about the requested change.

Type: StatusDetails object

Required: No

Error

An error that will only appear when the state is "FAILED". This is a parent level exception message, there may be different `Errors` for each dialect.

Type: ErrorDetail object

Required: No

RequestedBy

The ARN of the user who requested the asynchronous change.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

RequestTime

An ISO 8601 formatted date string indicating the time that the change was initiated.

Type: Timestamp

Required: No

State

A generic status for the change in progress, such as QUEUED, IN_PROGRESS, SUCCESS, or FAILED.

Type: String

Valid Values: `QUEUED | IN_PROGRESS | SUCCESS | STOPPED | FAILED`

Required: No

UpdatedBy

The ARN of the user to last manually alter the asynchronous change (requesting cancellation, etc).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

UpdateTime

An ISO 8601 formatted date string indicating the time that the state was last updated.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TableVersion

Specifies a version of a table.

Contents

Table

The table in question.

Type: Table object

Required: No

VersionId

The ID value that identifies this table version. A `VersionId` is a string representation of an integer. Each version is incremented by 1.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TableVersionError

An error record for table-version operations.

Contents

ErrorDetail

The details about the error.

Type: ErrorDetail object

Required: No

TableName

The name of the table in question.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

VersionId

The ID value of the version in question. A `VersionID` is a string representation of an integer. Each version is incremented by 1.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Tag

The Tag object represents a label that you can assign to an AWS resource. Each tag consists of a key and an optional value, both of which you define.

For more information about tags, and controlling access to resources in AWS Glue, see AWS Tags in AWS Glue and Specifying AWS Glue Resource ARNs in the developer guide.

Contents

key

The tag key. The key is required when you create a tag on an object. The key is case-sensitive, and must not contain the prefix aws.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

value

The tag value. The value is optional when you create a tag on an object. The value is case-sensitive, and must not contain the prefix aws.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TargetProcessingProperties

The resource properties associated with the integration target.

Contents

ConnectionName

The AWS Glue network connection to configure the AWS Glue job running in the customer VPC.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

EventBusArn

The ARN of an Eventbridge event bus to receive the integration status notification.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

KmsArn

The ARN of the KMS key used for encryption.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

RoleArn

The IAM role to access the AWS Glue database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TargetRedshiftCatalog

A structure that describes a target catalog for resource linking.

Contents

CatalogArn

The Amazon Resource Name (ARN) of the catalog resource.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TargetTableConfig

Properties used by the target leg to partition the data on the target.

Contents

PartitionSpec

Determines the file layout on the target.

Type: Array of IntegrationPartition objects

Required: No

TargetTableName

The optional name of a target table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

UnnestSpec

Specifies how nested objects are flattened to top-level elements. Valid values are: "TOPLEVEL", "FULL", or "NOUNNEST".

Type: String

Valid Values: `TOPLEVEL | FULL | NOUNNEST`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

TaskRun

The sampling parameters that are associated with the machine learning transform.

Contents

CompletedOn

The last point in time that the requested task run was completed.

Type: Timestamp

Required: No

ErrorString

The list of error strings associated with this task run.

Type: String

Required: No

ExecutionTime

The amount of time (in seconds) that the task run consumed resources.

Type: Integer

Required: No

LastModifiedOn

The last point in time that the requested task run was updated.

Type: Timestamp

Required: No

LogGroupName

The names of the log group for secure logging, associated with this task run.

Type: String

Required: No

Properties

Specifies configuration properties associated with this task run.

Type: TaskRunProperties object

Required: No

StartedOn

The date and time that this task run started.

Type: Timestamp

Required: No

Status

The current status of the requested task run.

Type: String

Valid Values: `STARTING | RUNNING | STOPPING | STOPPED | SUCCEEDED | FAILED | TIMEOUT`

Required: No

TaskRunId

The unique identifier for this task run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

TransformId

The unique identifier for the transform.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TaskRunFilterCriteria

The criteria that are used to filter the task runs for the machine learning transform.

Contents

StartedAfter

Filter on task runs started after this date.

Type: Timestamp

Required: No

StartedBefore

Filter on task runs started before this date.

Type: Timestamp

Required: No

Status

The current status of the task run.

Type: String

Valid Values: `STARTING | RUNNING | STOPPING | STOPPED | SUCCEEDED | FAILED | TIMEOUT`

Required: No

TaskRunType

The type of task run.

Type: String

Valid Values: `EVALUATION | LABELING_SET_GENERATION | IMPORT_LABELS | EXPORT_LABELS | FIND_MATCHES`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TaskRunProperties

The configuration properties for the task run.

Contents

ExportLabelsTaskRunProperties

The configuration properties for an exporting labels task run.

Type: ExportLabelsTaskRunProperties object

Required: No

FindMatchesTaskRunProperties

The configuration properties for a find matches task run.

Type: FindMatchesTaskRunProperties object

Required: No

ImportLabelsTaskRunProperties

The configuration properties for an importing labels task run.

Type: ImportLabelsTaskRunProperties object

Required: No

LabelingSetGenerationTaskRunProperties

The configuration properties for a labeling set generation task run.

Type: LabelingSetGenerationTaskRunProperties object

Required: No

TaskType

The type of task run.

Type: String

Valid Values: `EVALUATION | LABELING_SET_GENERATION | IMPORT_LABELS | EXPORT_LABELS | FIND_MATCHES`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TaskRunSortCriteria

The sorting criteria that are used to sort the list of task runs for the machine learning transform.

Contents

Column

The column to be used to sort the list of task runs for the machine learning transform.

Type: String

Valid Values: `TASK_RUN_TYPE | STATUS | STARTED`

Required: Yes

SortDirection

The sort direction to be used to sort the list of task runs for the machine learning transform.

Type: String

Valid Values: `DESCENDING | ASCENDING`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TestConnectionInput

A structure that is used to specify testing a connection to a service.

Contents

ConnectionProperties

The key-value pairs that define parameters for the connection.

JDBC connections use the following connection properties:

- Required: All of (`HOST`, `PORT`, `JDBC_ENGINE`) or `JDBC_CONNECTION_URL`.
- Required: All of (`USERNAME`, `PASSWORD`) or `SECRET_ID`.
- Optional: `JDBC_ENFORCE_SSL`, `CUSTOM_JDBC_CERT`, `CUSTOM_JDBC_CERT_STRING`, `SKIP_CUSTOM_JDBC_CERT_VALIDATION`. These parameters are used to configure SSL with JDBC.

SALESFORCE connections require the `AuthenticationConfiguration` member to be configured.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 100 items.

Valid Keys: `HOST | PORT | USERNAME | PASSWORD | ENCRYPTED_PASSWORD | JDBC_DRIVER_JAR_URI | JDBC_DRIVER_CLASS_NAME | JDBC_ENGINE | JDBC_ENGINE_VERSION | CONFIG_FILES | INSTANCE_ID | JDBC_CONNECTION_URL | JDBC_ENFORCE_SSL | CUSTOM_JDBC_CERT | SKIP_CUSTOM_JDBC_CERT_VALIDATION | CUSTOM_JDBC_CERT_STRING | CONNECTION_URL | KAFKA_BOOTSTRAP_SERVERS | KAFKA_SSL_ENABLED | KAFKA_CUSTOM_CERT | KAFKA_SKIP_CUSTOM_CERT_VALIDATION | KAFKA_CLIENT_KEYSTORE | KAFKA_CLIENT_KEYSTORE_PASSWORD | KAFKA_CLIENT_KEY_PASSWORD | ENCRYPTED_KAFKA_CLIENT_KEYSTORE_PASSWORD | ENCRYPTED_KAFKA_CLIENT_KEY_PASSWORD | KAFKA_SASL_MECHANISM | KAFKA_SASL_PLAIN_USERNAME | KAFKA_SASL_PLAIN_PASSWORD | ENCRYPTED_KAFKA_SASL_PLAIN_PASSWORD | KAFKA_SASL_SCRAM_USERNAME | KAFKA_SASL_SCRAM_PASSWORD | KAFKA_SASL_SCRAM_SECRETS_ARN | ENCRYPTED_KAFKA_SASL_SCRAM_PASSWORD | KAFKA_SASL_GSSAPI_KEYTAB`

| KAFKA_SASL_GSSAPI_KRB5_CONF | KAFKA_SASL_GSSAPI_SERVICE | KAFKA_SASL_GSSAPI_PRINCIPAL | SECRET_ID | CONNECTOR_URL | CONNECTOR_TYPE | CONNECTOR_CLASS_NAME | ENDPOINT | ENDPOINT_TYPE | ROLE_ARN | REGION | WORKGROUP_NAME | CLUSTER_IDENTIFIER | DATABASE

Value Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

ConnectionType

The type of connection to test. This operation is only available for the JDBC or SALESFORCE connection types.

Type: String

Valid Values: JDBC | SFTP | MONGODB | KAFKA | NETWORK | MARKETPLACE | CUSTOM | SALESFORCE | VIEW_VALIDATION_REDSHIFT | VIEW_VALIDATION_ATHENA | GOOGLEADS | GOOGLESHEETS | GOOGLEANALYTICS4 | SERVICENOW | MARKETO | SAPODATA | ZENDESK | JIRACLOUD | NETSUITEERP | HUBSPOT | FACEBOOKADS | INSTAGRAMADS | ZOHOCRM | SALESFORCEPARDOT | SALESFORCEMARKETINGCLOUD | ADOBEANALYTICS | SLACK | LINKEDIN | MIXPANEL | ASANA | STRIPE | SMARTSHEET | DATADOG | WOOCOMMERCE | INTERCOM | SNAPCHATADS | PAYPAL | QUICKBOOKS | FACEBOOKPAGEINSIGHTS | FRESHDESK | TWILIO | DOCUSIGNMONITOR | FRESHSALES | ZOOM | GOOGLESEARCHCONSOLE | SALESFORCECOMMERCECLOUD | SAPCONCUR | DYNATRACE | MICROSOFTDYNAMIC365FINANCEANDOPS | MICROSOFTTEAMS | BLACKBAUDRAISEREDGENXT | MAILCHIMP | GITLAB | PENDO | PRODUCTBOARD | CIRCLECI | PIPEDIVE | SENDGRID | AZURECOSMOS | AZURESQL | BIGQUERY | BLACKBAUD | CLOUDERAHIVE | CLOUDERAIMPALA | CLOUDWATCH | CLOUDWATCHMETRICS | CMDB | DATALAKEGEN2 | DB2 | DB2AS400 | DOCUMENTDB | DOMO | DYNAMODB | GOOGLECLOUDSTORAGE | HBASE | KUSTOMER | MICROSOFTDYNAMICS365CRM | MONDAY | MYSQL | OKTA | OPENSEARCH | ORACLE | PIPEDRIVE | POSTGRESQL | SAPHANA | SQLSERVER | SYNAPSE | TERADATA | TERADATANOS | TIMESTREAM | TPCDS | VERTICA

Required: Yes

AuthenticationConfiguration

A structure containing the authentication configuration in the TestConnection request. Required for a connection to Salesforce using OAuth authentication.

Type: AuthenticationConfigurationInput object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TimestampedInclusionAnnotation

A timestamped inclusion annotation.

Contents

LastModifiedOn

The timestamp when the inclusion annotation was last modified.

Type: Timestamp

Required: No

Value

The inclusion annotation value.

Type: String

Valid Values: `INCLUDE | EXCLUDE`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TimestampFilter

A timestamp filter.

Contents

RecordedAfter

The timestamp after which statistics should be included in the results.

Type: Timestamp

Required: No

RecordedBefore

The timestamp before which statistics should be included in the results.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TransformConfigParameter

Specifies the parameters in the config file of the dynamic transform.

Contents

Name

Specifies the name of the parameter in the config file of the dynamic transform.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: Yes

Type

Specifies the parameter type in the config file of the dynamic transform.

Type: String

Valid Values: `str | int | float | complex | bool | list | null`

Required: Yes

IsOptional

Specifies whether the parameter is optional or not in the config file of the dynamic transform.

Type: Boolean

Required: No

ListType

Specifies the list type of the parameter in the config file of the dynamic transform.

Type: String

Valid Values: `str | int | float | complex | bool | list | null`

Required: No

ValidationMessage

Specifies the validation message in the config file of the dynamic transform.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

ValidationRule

Specifies the validation rule in the config file of the dynamic transform.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

Value

Specifies the value of the parameter in the config file of the dynamic transform.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TransformEncryption

The encryption-at-rest settings of the transform that apply to accessing user data. Machine learning transforms can access user data encrypted in Amazon S3 using KMS.

Additionally, imported labels and trained transforms can now be encrypted using a customer provided KMS key.

Contents

MlUserDataEncryption

An `MLUserDataEncryption` object containing the encryption mode and customer-provided KMS key ID.

Type: MLUserDataEncryption object

Required: No

TaskRunSecurityConfigurationName

The name of the security configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TransformFilterCriteria

The criteria used to filter the machine learning transforms.

Contents

CreatedAfter

The time and date after which the transforms were created.

Type: Timestamp

Required: No

CreatedBefore

The time and date before which the transforms were created.

Type: Timestamp

Required: No

GlueVersion

This value determines which version of AWS Glue this machine learning transform is compatible with. Glue 1.0 is recommended for most customers. If the value is not set, the Glue compatibility defaults to Glue 0.9. For more information, see AWS Glue Versions in the developer guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `^(\w+\.)+\w+$`

Required: No

LastModifiedAfter

Filter on transforms last modified after this date.

Type: Timestamp

Required: No

LastModifiedBefore

Filter on transforms last modified before this date.

Type: Timestamp

Required: No

Name

A unique transform name that is used to filter the machine learning transforms.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Schema

Filters on datasets with a specific schema. The `Map<Column, Type>` object is an array of key-value pairs representing the schema this transform accepts, where `Column` is the name of a column, and `Type` is the type of the data such as an integer or string. Has an upper bound of 100 columns.

Type: Array of SchemaColumn objects

Array Members: Maximum number of 100 items.

Required: No

Status

Filters the list of machine learning transforms by the last known status of the transforms (to indicate whether a transform can be used or not). One of "NOT_READY", "READY", or "DELETING".

Type: String

Valid Values: `NOT_READY | READY | DELETING`

Required: No

TransformType

The type of machine learning transform that is used to filter the machine learning transforms.

Type: String

Valid Values: `FIND_MATCHES`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TransformParameters

The algorithm-specific parameters that are associated with the machine learning transform.

Contents

TransformType

The type of machine learning transform.

For information about the types of machine learning transforms, see Creating Machine Learning Transforms.

Type: String

Valid Values: `FIND_MATCHES`

Required: Yes

FindMatchesParameters

The parameters for the find matches algorithm.

Type: FindMatchesParameters object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TransformSortCriteria

The sorting criteria that are associated with the machine learning transform.

Contents

Column

The column to be used in the sorting criteria that are associated with the machine learning transform.

Type: String

Valid Values: `NAME | TRANSFORM_TYPE | STATUS | CREATED | LAST_MODIFIED`

Required: Yes

SortDirection

The sort direction to be used in the sorting criteria that are associated with the machine learning transform.

Type: String

Valid Values: `DESCENDING | ASCENDING`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Trigger

Information about a specific trigger.

Contents

Actions

The actions initiated by this trigger.

Type: Array of Action objects

Required: No

Description

A description of this trigger.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

EventBatchingCondition

Batch condition that must be met (specified number of events received or batch time window expired) before EventBridge event trigger fires.

Type: EventBatchingCondition object

Required: No

Id

Reserved for future use.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Name

The name of the trigger.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Predicate

The predicate of this trigger, which defines when it will fire.

Type: Predicate object

Required: No

Schedule

A `cron` expression used to specify the schedule (see Time-Based Schedules for Jobs and Crawlers. For example, to run something every day at 12:15 UTC, you would specify: `cron(15 12 * * ? *)`.

Type: String

Required: No

State

The current state of the trigger.

Type: String

Valid Values: `CREATING | CREATED | ACTIVATING | ACTIVATED | DEACTIVATING | DEACTIVATED | DELETING | UPDATING`

Required: No

Type

The type of trigger that this is.

Type: String

Valid Values: `SCHEDULED | CONDITIONAL | ON_DEMAND | EVENT`

Required: No

WorkflowName

The name of the workflow associated with the trigger.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TriggerNodeDetails

The details of a Trigger node present in the workflow.

Contents

Trigger

The information of the trigger represented by the trigger node.

Type: Trigger object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TriggerUpdate

A structure used to provide information used to update a trigger. This object updates the previous trigger definition by overwriting it completely.

Contents

Actions

The actions initiated by this trigger.

Type: Array of Action objects

Required: No

Description

A description of this trigger.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

EventBatchingCondition

Batch condition that must be met (specified number of events received or batch time window expired) before EventBridge event trigger fires.

Type: EventBatchingCondition object

Required: No

Name

Reserved for future use.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Predicate

The predicate of this trigger, which defines when it will fire.

Type: Predicate object

Required: No

Schedule

A `cron` expression used to specify the schedule (see Time-Based Schedules for Jobs and Crawlers. For example, to run something every day at 12:15 UTC, you would specify: `cron(15 12 * * ? *)`.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UnfilteredPartition

A partition that contains unfiltered metadata.

Contents

AuthorizedColumns

The list of columns the user has permissions to access.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

IsRegisteredWithLakeFormation

A Boolean value indicating that the partition location is registered with Lake Formation.

Type: Boolean

Required: No

Partition

The partition object.

Type: Partition object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Union

Specifies a transform that combines the rows from two or more datasets into a single result.

Contents

Inputs

The node ID inputs to the transform.

Type: Array of strings

Array Members: Fixed number of 2 items.

Pattern: `[A-Za-z0-9_-]*`

Required: Yes

Name

The name of the transform node.

Type: String

Pattern: `([^\r\n])*`

Required: Yes

UnionType

Indicates the type of Union transform.

Specify `ALL` to join all rows from data sources to the resulting DynamicFrame. The resulting union does not remove duplicate rows.

Specify `DISTINCT` to remove duplicate rows in the resulting DynamicFrame.

Type: String

Valid Values: `ALL | DISTINCT`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateCsvClassifierRequest

Specifies a custom CSV classifier to be updated.

Contents

Name

The name of the classifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

AllowSingleColumn

Enables the processing of files that contain only one column.

Type: Boolean

Required: No

ContainsHeader

Indicates whether the CSV file contains a header.

Type: String

Valid Values: `UNKNOWN | PRESENT | ABSENT`

Required: No

CustomDatatypeConfigured

Specifies the configuration of custom datatypes.

Type: Boolean

Required: No

CustomDatatypes

Specifies a list of supported custom datatypes.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Delimiter

A custom symbol to denote what separates each column entry in the row.

Type: String

Length Constraints: Fixed length of 1.

Pattern: `[^\r\n]`

Required: No

DisableValueTrimming

Specifies not to trim values before identifying the type of column values. The default value is true.

Type: Boolean

Required: No

Header

A list of strings representing column names.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

QuoteSymbol

A custom symbol to denote what combines content into a single column value. It must be different from the column delimiter.

Type: String

Length Constraints: Fixed length of 1.

Pattern: `[^\r\n]`

Required: No

Serde

Sets the SerDe for processing CSV in the classifier, which will be applied in the Data Catalog. Valid values are `OpenCSVSerDe`, `LazySimpleSerDe`, and `None`. You can specify the `None` value when you want the crawler to do the detection.

Type: String

Valid Values: `OpenCSVSerDe | LazySimpleSerDe | None`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateGrokClassifierRequest

Specifies a grok classifier to update when passed to `UpdateClassifier`.

Contents

Name

The name of the `GrokClassifier`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Classification

An identifier of the data format that the classifier matches, such as Twitter, JSON, Omniture logs, Amazon CloudWatch Logs, and so on.

Type: String

Required: No

CustomPatterns

Optional custom grok patterns used by this classifier.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16000.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

GrokPattern

The grok pattern used by this classifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateIcebergInput

Input parameters specific to updating Apache Iceberg tables in AWS Glue Data Catalog, containing the update operations to be applied to an existing Iceberg table.

Contents

UpdateIcebergTableInput

The specific update operations to be applied to the Iceberg table, containing a list of updates that define the new state of the table including schema, partitions, and properties.

Type: UpdateIcebergTableInput object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateIcebergTableInput

Contains the update operations to be applied to an existing Iceberg table inAWS Glue Data Catalog, defining the new state of the table metadata.

Contents

Updates

The list of table update operations that specify the changes to be made to the Iceberg table, including schema modifications, partition specifications, and table properties.

Type: Array of IcebergTableUpdate objects

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateJsonClassifierRequest

Specifies a JSON classifier to be updated.

Contents

Name

The name of the classifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

JsonPath

A `JsonPath` string defining the JSON data for the classifier to classify. AWS Glue supports a subset of JsonPath, as described in Writing JsonPath Custom Classifiers.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateOpenTableFormatInput

Input parameters for updating open table format tables in AWS GlueData Catalog, serving as a wrapper for format-specific update operations such as Apache Iceberg.

Contents

UpdateIcebergInput

Apache Iceberg-specific update parameters that define the table modifications to be applied, including schema changes, partition specifications, and table properties.

Type: UpdateIcebergInput object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateXMLClassifierRequest

Specifies an XML classifier to be updated.

Contents

Name

The name of the classifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

Classification

An identifier of the data format that the classifier matches.

Type: String

Required: No

RowTag

The XML tag designating the element that contains each record in an XML document being parsed. This cannot identify a self-closing element (closed by `/>`). An empty row element that contains only attributes can be parsed as long as it ends with a closing tag (for example, `<row item_a="A" item_b="B"></row>` is okay, but `<row item_a="A" item_b="B" />` is not).

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpsertRedshiftTargetOptions

The options to configure an upsert operation when writing to a Redshift target .

Contents

ConnectionName

The name of the connection to use to write to Redshift.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

TableLocation

The physical location of the Redshift table.

Type: String

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

UpsertKeys

The keys used to determine whether to perform an update or insert.

Type: Array of strings

Pattern: `([\u0009\u000B\u000C\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF])*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UsageProfileDefinition

Describes an AWS Glue usage profile.

Contents

CreatedOn

The date and time when the usage profile was created.

Type: Timestamp

Required: No

Description

A description of the usage profile.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\r\n\t]*`

Required: No

LastModifiedOn

The date and time when the usage profile was last modified.

Type: Timestamp

Required: No

Name

The name of the usage profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UserDefinedFunction

Represents the equivalent of a Hive user-defined function (UDF) definition.

Contents

CatalogId

The ID of the Data Catalog in which the function resides.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ClassName

The Java class that contains the function code.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

CreateTime

The time at which the function was created.

Type: Timestamp

Required: No

DatabaseName

The name of the catalog database that contains the function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

FunctionName

The name of the function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

FunctionType

The type of the function.

Type: String

Valid Values: `REGULAR_FUNCTION | AGGREGATE_FUNCTION | STORED_PROCEDURE`

Required: No

OwnerName

The owner of the function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

OwnerType

The owner type.

Type: String

Valid Values: `USER | ROLE | GROUP`

Required: No

ResourceUris

The resource URIs for the function.

Type: Array of ResourceUri objects

Array Members: Minimum number of 0 items. Maximum number of 1000 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UserDefinedFunctionInput

A structure used to create or update a user-defined function.

Contents

ClassName

The Java class that contains the function code.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

FunctionName

The name of the function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

FunctionType

The type of the function.

Type: String

Valid Values: `REGULAR_FUNCTION | AGGREGATE_FUNCTION | STORED_PROCEDURE`

Required: No

OwnerName

The owner of the function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

OwnerType

The owner type.

Type: String

Valid Values: `USER | ROLE | GROUP`

Required: No

ResourceUris

The resource URIs for the function.

Type: Array of ResourceUri objects

Array Members: Minimum number of 0 items. Maximum number of 1000 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ViewDefinition

A structure containing details for representations.

Contents

Definer

The definer of a view in SQL.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

IsProtected

You can set this flag as true to instruct the engine not to push user-provided operations into the logical plan of the view during query planning. However, setting this flag does not guarantee that the engine will comply. Refer to the engine's documentation to understand the guarantees provided, if any.

Type: Boolean

Required: No

LastRefreshType

Sets the method used for the most recent refresh.

Type: String

Valid Values: `FULL | INCREMENTAL`

Required: No

RefreshSeconds

Auto refresh interval in seconds for the materialized view. If not specified, the view will not automatically refresh.

Type: Long

Required: No

Representations

A list of representations.

Type: Array of ViewRepresentation objects

Array Members: Minimum number of 1 item. Maximum number of 1000 items.

Required: No

SubObjects

A list of table Amazon Resource Names (ARNs).

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

SubObjectVersionIds

List of the Apache Iceberg table versions referenced by the materialized view.

Type: Array of longs

Array Members: Minimum number of 0 items. Maximum number of 250 items.

Valid Range: Minimum value of -1.

Required: No

ViewVersionId

The ID value that identifies this view's version. For materialized views, the version ID is the Apache Iceberg table's snapshot ID.

Type: Long

Valid Range: Minimum value of -1.

Required: No

ViewVersionToken

The version ID of the Apache Iceberg table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ViewDefinitionInput

A structure containing details for creating or updating an AWS Glue view.

Contents

Definer

The definer of a view in SQL.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

IsProtected

You can set this flag as true to instruct the engine not to push user-provided operations into the logical plan of the view during query planning. However, setting this flag does not guarantee that the engine will comply. Refer to the engine's documentation to understand the guarantees provided, if any.

Type: Boolean

Required: No

LastRefreshType

The type of the materialized view's last refresh. Valid values: `Full`, `Incremental`.

Type: String

Valid Values: `FULL | INCREMENTAL`

Required: No

RefreshSeconds

Auto refresh interval in seconds for the materialized view. If not specified, the view will not automatically refresh.

Type: Long

Required: No

Representations

A list of structures that contains the dialect of the view, and the query that defines the view.

Type: Array of ViewRepresentationInput objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

SubObjects

A list of base table ARNs that make up the view.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

SubObjectVersionIds

List of the Apache Iceberg table versions referenced by the materialized view.

Type: Array of longs

Array Members: Minimum number of 0 items. Maximum number of 250 items.

Valid Range: Minimum value of -1.

Required: No

ViewVersionId

The ID value that identifies this view's version. For materialized views, the version ID is the Apache Iceberg table's snapshot ID.

Type: Long

Valid Range: Minimum value of -1.

Required: No

ViewVersionToken

The version ID of the Apache Iceberg table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ViewRepresentation

A structure that contains the dialect of the view, and the query that defines the view.

Contents

Dialect

The dialect of the query engine.

Type: String

Valid Values: `REDSHIFT | ATHENA | SPARK`

Required: No

DialectVersion

The version of the dialect of the query engine. For example, 3.0.0.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

IsStale

Dialects marked as stale are no longer valid and must be updated before they can be queried in their respective query engines.

Type: Boolean

Required: No

ValidationConnection

The name of the connection to be used to validate the specific representation of the view.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ViewExpandedText

The expanded SQL for the view. This SQL is used by engines while processing a query on a view. Engines may perform operations during view creation to transform `ViewOriginalText` to `ViewExpandedText`. For example:

- Fully qualified identifiers: `SELECT * from table1 -> SELECT * from db1.table1`

Type: String

Length Constraints: Maximum length of 409600.

Required: No

ViewOriginalText

The `SELECT` query provided by the customer during `CREATE VIEW DDL`. This SQL is not used during a query on a view (`ViewExpandedText` is used instead). `ViewOriginalText` is used for cases like `SHOW CREATE VIEW` where users want to see the original DDL command that created the view.

Type: String

Length Constraints: Maximum length of 409600.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ViewRepresentationInput

A structure containing details of a representation to update or create a Lake Formation view.

Contents

Dialect

A parameter that specifies the engine type of a specific representation.

Type: String

Valid Values: `REDSHIFT | ATHENA | SPARK`

Required: No

DialectVersion

A parameter that specifies the version of the engine of a specific representation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

ValidationConnection

The name of the connection to be used to validate the specific representation of the view.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

ViewExpandedText

A string that represents the SQL query that describes the view with expanded resource ARNs

Type: String

Length Constraints: Maximum length of 409600.

Required: No

ViewOriginalText

A string that represents the original SQL query that describes the view.

Type: String

Length Constraints: Maximum length of 409600.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ViewValidation

A structure that contains information for an analytical engine to validate a view, prior to persisting the view metadata. Used in the case of direct `UpdateTable` or `CreateTable` API calls.

Contents

Dialect

The dialect of the query engine.

Type: String

Valid Values: `REDSHIFT | ATHENA | SPARK`

Required: No

DialectVersion

The version of the dialect of the query engine. For example, 3.0.0.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

Error

An error associated with the validation.

Type: ErrorDetail object

Required: No

State

The state of the validation.

Type: String

Valid Values: `QUEUED | IN_PROGRESS | SUCCESS | STOPPED | FAILED`

Required: No

UpdateTime

The time of the last update.

Type: Timestamp

Required: No

ViewValidationText

The SELECT query that defines the view, as provided by the customer.

Type: String

Length Constraints: Maximum length of 409600.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Workflow

A workflow is a collection of multiple dependent AWS Glue jobs and crawlers that are run to complete a complex ETL task. A workflow manages the execution and monitoring of all its jobs and crawlers.

Contents

BlueprintDetails

This structure indicates the details of the blueprint that this particular workflow is created from.

Type: BlueprintDetails object

Required: No

CreatedOn

The date and time when the workflow was created.

Type: Timestamp

Required: No

DefaultRunProperties

A collection of properties to be used as part of each execution of the workflow. The run properties are made available to each job in the workflow. A job can modify the properties for the next jobs in the flow.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

Description

A description of the workflow.

Type: String

Required: No

Graph

The graph representing all the AWS Glue components that belong to the workflow as nodes and directed connections between them as edges.

Type: WorkflowGraph object

Required: No

LastModifiedOn

The date and time when the workflow was last modified.

Type: Timestamp

Required: No

LastRun

The information about the last execution of the workflow.

Type: WorkflowRun object

Required: No

MaxConcurrentRuns

You can use this parameter to prevent unwanted multiple updates to data, to control costs, or in some cases, to prevent exceeding the maximum number of concurrent runs of any of the component jobs. If you leave this parameter blank, there is no limit to the number of concurrent workflow runs.

Type: Integer

Required: No

Name

The name of the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

WorkflowGraph

A workflow graph represents the complete workflow containing all the AWS Glue components present in the workflow and all the directed connections between them.

Contents

Edges

A list of all the directed connections between the nodes belonging to the workflow.

Type: Array of Edge objects

Required: No

Nodes

A list of the the AWS Glue components belong to the workflow represented as nodes.

Type: Array of Node objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

WorkflowRun

A workflow run is an execution of a workflow providing all the runtime information.

Contents

CompletedOn

The date and time when the workflow run completed.

Type: Timestamp

Required: No

ErrorMessage

This error message describes any error that may have occurred in starting the workflow run. Currently the only error message is "Concurrent runs exceeded for workflow: `foo`."

Type: String

Required: No

Graph

The graph representing all the AWS Glue components that belong to the workflow as nodes and directed connections between them as edges.

Type: WorkflowGraph object

Required: No

Name

Name of the workflow that was run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

PreviousRunId

The ID of the previous workflow run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

StartedOn

The date and time when the workflow run was started.

Type: Timestamp

Required: No

StartingEventBatchCondition

The batch condition that started the workflow run.

Type: StartingEventBatchCondition object

Required: No

Statistics

The statistics of the run.

Type: WorkflowRunStatistics object

Required: No

Status

The status of the workflow run.

Type: String

Valid Values: `RUNNING | COMPLETED | STOPPING | STOPPED | ERROR`

Required: No

WorkflowRunId

The ID of this workflow run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

WorkflowRunProperties

The workflow run properties which were set during the run.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

WorkflowRunStatistics

Workflow run statistics provides statistics about the workflow run.

Contents

ErroredActions

Indicates the count of job runs in the ERROR state in the workflow run.

Type: Integer

Required: No

FailedActions

Total number of Actions that have failed.

Type: Integer

Required: No

RunningActions

Total number Actions in running state.

Type: Integer

Required: No

StoppedActions

Total number of Actions that have stopped.

Type: Integer

Required: No

SucceededActions

Total number of Actions that have succeeded.

Type: Integer

Required: No

TimeoutActions

Total number of Actions that timed out.

Type: Integer

Required: No

TotalActions

Total number of Actions in the workflow run.

Type: Integer

Required: No

WaitingActions

Indicates the count of job runs in WAITING state in the workflow run.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

XMLClassifier

A classifier for XML content.

Contents

Classification

An identifier of the data format that the classifier matches.

Type: String

Required: Yes

Name

The name of the classifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Required: Yes

CreationTime

The time that this classifier was registered.

Type: Timestamp

Required: No

LastUpdated

The time that this classifier was last updated.

Type: Timestamp

Required: No

RowTag

The XML tag designating the element that contains each record in an XML document being parsed. This can't identify a self-closing element (closed by />). An empty row element that

contains only attributes can be parsed as long as it ends with a closing tag (for example, `<row item_a="A" item_b="B"></row>` is okay, but `<row item_a="A" item_b="B" />` is not).

Type: String

Required: No

Version

The version of this classifier.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signing AWS API requests in the *IAM User Guide*.

Action

The action to be performed.

Type: string

Required: Yes

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key*/*YYYYMMDD*/*region*/*service*/aws4_request.

For more information, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Elements of an AWS API request signature in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see AWS services that work with IAM in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

InvalidAction

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

InvalidClientTokenId

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400