API Reference

AWS Mainframe Modernization

API Version 2021-04-28

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AWS Mainframe Modernization: API Reference

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Welcome

Important

AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

AWS Mainframe Modernization provides tools and resources to help you plan and implement migration and modernization from mainframes to AWS managed runtime environments. It provides tools for analyzing existing mainframe applications, developing or updating mainframe applications using COBOL or PL/I, and implementing an automated pipeline for continuous integration and continuous delivery (CI/CD) of the applications.

This document was last published on March 12, 2026.

Actions

The following actions are supported:

- CancelBatchJobExecution
- CreateApplication
- CreateDataSetExportTask
- CreateDataSetImportTask
- CreateDeployment
- CreateEnvironment
- DeleteApplication
- DeleteApplicationFromEnvironment
- DeleteEnvironment
- GetApplication
- GetApplicationVersion
- GetBatchJobExecution
- GetDataSetDetails
- GetDataSetExportTask
- GetDataSetImportTask
- GetDeployment
- GetEnvironment
- GetSignedBluinsightsUrl
- ListApplications
- ListApplicationVersions
- ListBatchJobDefinitions
- ListBatchJobExecutions
- ListBatchJobRestartPoints
- ListDataSetExportHistory
- ListDataSetImportHistory
- ListDataSets
- ListDeployments

- ListEngineVersions
- ListEnvironments
- ListTagsForResource
- StartApplication
- StartBatchJob
- StopApplication
- TagResource
- UntagResource
- UpdateApplication
- UpdateEnvironment

CancelBatchJobExecution

> **Important**
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Cancels the running of a specific batch job execution.

Request Syntax

```
POST /applications/applicationId/batch-job-executions/executionId/cancel HTTP/1.1
Content-type: application/json

{
   "authSecretsManagerArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application.

Pattern: `\S{1,80}`

Required: Yes

executionId

The unique identifier of the batch job execution.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

authSecretsManagerArn

The AWS Secrets Manager containing user's credentials for authentication and authorization for Cancel Batch Job Execution operation.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

Response Syntax

```
HTTP/1.1 200
```

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

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

CreateApplication

> **Important**
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Creates a new application with given parameters. Requires an existing runtime environment and application definition file.

Request Syntax

```
POST /applications HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "definition": { ... },
   "description": "string",
   "engineType": "string",
   "kmsKeyId": "string",
   "name": "string",
   "roleArn": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

A client token is a unique, case-sensitive string of up to 128 ASCII characters with ASCII values of 33-126 inclusive. It's generated by the client to ensure idempotent operations, allowing for safe retries without unintended side effects.

Type: String

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

Pattern: `[!-~]+`

Required: No

definition

The application definition for this application. You can specify either inline JSON or an S3 bucket location.

Type: Definition object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

description

The description of the application.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

engineType

The type of the target platform for this application.

Type: String

Valid Values: `microfocus | bluage`

Required: Yes

kmsKeyId

The identifier of a customer managed key.

Type: String

Required: No

name

The unique identifier of the application.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

roleArn

The Amazon Resource Name (ARN) that identifies a role that the application uses to access AWS resources that are not part of the application or are in a different AWS account.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]|):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+=,@.-]{0,1023}`

Required: No

tags

A list of tags to apply to the application.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `(?!aws:).+`

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

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "applicationArn": "string",
   "applicationId": "string",
   "applicationVersion": 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.

applicationArn

The Amazon Resource Name (ARN) of the application.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]|):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+=,@.-]{0,1023}`

applicationId

The unique application identifier.

Type: String

Pattern: `\S{1,80}`

applicationVersion

The version number of the application.

Type: Integer

Valid Range: Minimum value of 1.

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ServiceQuotaExceededException

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar

to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

One or more quotas for AWS Mainframe Modernization exceeds the limit.

quotaCode

The identifier of the exceeded quota.

resourceId

The ID of the resource that is exceeding the quota limit.

resourceType

The type of resource that is exceeding the quota limit for AWS Mainframe Modernization.

serviceCode

A code that identifies the service that the exceeded quota belongs to.

HTTP Status Code: 402

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

CreateDataSetExportTask

> **Important**
>
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Starts a data set export task for a specific application.

Request Syntax

```
POST /applications/applicationId/dataset-export-task HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "exportConfig": { ... },
   "kmsKeyId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application for which you want to export data sets.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure the idempotency of the request to create a data set export. The service generates the clientToken when the API call is triggered. The token expires after one hour, so if you retry the API within this timeframe with the same clientToken, you will get the same response. The service also handles deleting the clientToken after it expires.

Type: String

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

Pattern: `[!-~]+`

Required: No

exportConfig

The data set export task configuration.

Type: DataSetExportConfig object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

kmsKeyId

The identifier of a customer managed key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z0-9:/_-]+`

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "taskId": "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.

taskId

The task identifier. This operation is asynchronous. Use this identifier with the GetDataSetExportTask operation to obtain the status of this task.

Type: String

Pattern: `\S{1,80}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

> **Important**
>
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One or more quotas for AWS Mainframe Modernization exceeds the limit.

quotaCode

The identifier of the exceeded quota.

resourceId

The ID of the resource that is exceeding the quota limit.

resourceType

The type of resource that is exceeding the quota limit for AWS Mainframe Modernization.

serviceCode

A code that identifies the service that the exceeded quota belongs to.

HTTP Status Code: 402

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2

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

CreateDataSetImportTask

> **Important**
>
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Starts a data set import task for a specific application.

Request Syntax

```
POST /applications/applicationId/dataset-import-task HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "importConfig": { ... }
}
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application for which you want to import data sets.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure the idempotency of the request to create a data set import. The service generates the clientToken when the API call is triggered. The token expires after one hour, so if you retry the API within this timeframe with the same clientToken, you will get the same response. The service also handles deleting the clientToken after it expires.

Type: String

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

Pattern: `[!-~]+`

Required: No

importConfig

The data set import task configuration.

Type: DataSetImportConfig object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "taskId": "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.

taskId

The task identifier. This operation is asynchronous. Use this identifier with the GetDataSetImportTask operation to obtain the status of this task.

Type: String

Pattern: `\S{1,80}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

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One or more quotas for AWS Mainframe Modernization exceeds the limit.

quotaCode

The identifier of the exceeded quota.

resourceId

The ID of the resource that is exceeding the quota limit.

resourceType

The type of resource that is exceeding the quota limit for AWS Mainframe Modernization.

serviceCode

A code that identifies the service that the exceeded quota belongs to.

HTTP Status Code: 402

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

- AWS SDK for Ruby V3

CreateDeployment

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Creates and starts a deployment to deploy an application into a runtime environment.

Request Syntax

```
POST /applications/applicationId/deployments HTTP/1.1
Content-type: application/json

{
   "applicationVersion": number,
   "clientToken": "string",
   "environmentId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The application identifier.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

applicationVersion

The version of the application to deploy.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

clientToken

Unique, case-sensitive identifier you provide to ensure the idempotency of the request to create a deployment. The service generates the clientToken when the API call is triggered. The token expires after one hour, so if you retry the API within this timeframe with the same clientToken, you will get the same response. The service also handles deleting the clientToken after it expires.

Type: String

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

Pattern: `[!-~]+`

Required: No

environmentId

The identifier of the runtime environment where you want to deploy this application.

Type: String

Pattern: `\S{1,80}`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "deploymentId": "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.

deploymentId

The unique identifier of the deployment.

Type: String

Pattern: `\S{1,80}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

One or more quotas for AWS Mainframe Modernization exceeds the limit.

quotaCode

The identifier of the exceeded quota.

resourceId

The ID of the resource that is exceeding the quota limit.

resourceType

The type of resource that is exceeding the quota limit for AWS Mainframe Modernization.

serviceCode

A code that identifies the service that the exceeded quota belongs to.

HTTP Status Code: 402

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2

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

CreateEnvironment

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Creates a runtime environment for a given runtime engine.

Request Syntax

```
POST /environments HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "description": "string",
   "engineType": "string",
   "engineVersion": "string",
   "highAvailabilityConfig": {
      "desiredCapacity": number
   },
   "instanceType": "string",
   "kmsKeyId": "string",
   "name": "string",
   "networkType": "string",
   "preferredMaintenanceWindow": "string",
   "publiclyAccessible": boolean,
   "securityGroupIds": [ "string" ],
   "storageConfigurations": [
      { ... }
   ],
   "subnetIds": [ "string" ],
   "tags": {
      "string" : "string"
```

```
    }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure the idempotency of the request to create an environment. The service generates the clientToken when the API call is triggered. The token expires after one hour, so if you retry the API within this timeframe with the same clientToken, you will get the same response. The service also handles deleting the clientToken after it expires.

Type: String

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

Pattern: `[!-~]+`

Required: No

description

The description of the runtime environment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

engineType

The engine type for the runtime environment.

Type: String

Valid Values: `microfocus | bluage`

Required: Yes

engineVersion

The version of the engine type for the runtime environment.

Type: String

Pattern: `\S{1,10}`

Required: No

highAvailabilityConfig

The details of a high availability configuration for this runtime environment.

Type: HighAvailabilityConfig object

Required: No

instanceType

The type of instance for the runtime environment.

Type: String

Pattern: `\S{1,20}`

Required: Yes

kmsKeyId

The identifier of a customer managed key.

Type: String

Required: No

name

The name of the runtime environment. Must be unique within the account.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

networkType

The network type required for the runtime environment.

Type: String

Valid Values: `ipv4 | dual`

Required: No

preferredMaintenanceWindow

Configures the maintenance window that you want for the runtime environment. The maintenance window must have the format `ddd:hh24:mi-ddd:hh24:mi` and must be less than 24 hours. The following two examples are valid maintenance windows: `sun:23:45-mon:00:15` or `sat:01:00-sat:03:00`.

If you do not provide a value, a random system-generated value will be assigned.

Type: String

Pattern: `\S{1,50}`

Required: No

publiclyAccessible

Specifies whether the runtime environment is publicly accessible.

Type: Boolean

Required: No

securityGroupIds

The list of security groups for the VPC associated with this runtime environment.

Type: Array of strings

Pattern: `\S{1,50}`

Required: No

storageConfigurations

Optional. The storage configurations for this runtime environment.

Type: Array of StorageConfiguration objects

Required: No

subnetIds

The list of subnets associated with the VPC for this runtime environment.

Type: Array of strings

Pattern: `\S{1,50}`

Required: No

tags

The tags for the runtime environment.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `(?!aws:).+`

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

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "environmentId": "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.

environmentId

The unique identifier of the runtime environment.

Type: String

Pattern: `\S{1,80}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ServiceQuotaExceededException

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

One or more quotas for AWS Mainframe Modernization exceeds the limit.

quotaCode

The identifier of the exceeded quota.

resourceId

The ID of the resource that is exceeding the quota limit.

resourceType

The type of resource that is exceeding the quota limit for AWS Mainframe Modernization.

serviceCode

A code that identifies the service that the exceeded quota belongs to.

HTTP Status Code: 402

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

DeleteApplication

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Deletes a specific application. You cannot delete a running application.

Request Syntax

```
DELETE /applications/applicationId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application you want to delete.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

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

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

DeleteApplicationFromEnvironment

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Deletes a specific application from the specific runtime environment where it was previously deployed. You cannot delete a runtime environment using DeleteEnvironment if any application has ever been deployed to it. This API removes the association of the application with the runtime environment so you can delete the environment smoothly.

Request Syntax

```
DELETE /applications/applicationId/environment/environmentId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application you want to delete.

Pattern: `\S{1,80}`

Required: Yes

environmentId

The unique identifier of the runtime environment where the application was previously deployed.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

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

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

DeleteEnvironment

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Deletes a specific runtime environment. The environment cannot contain deployed applications. If it does, you must delete those applications before you delete the environment.

Request Syntax

```
DELETE /environments/environmentId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

environmentId

The unique identifier of the runtime environment you want to delete.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

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

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

GetApplication

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Describes the details of a specific application.

Request Syntax

```
GET /applications/applicationId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The identifier of the application.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "applicationArn": "string",
   "applicationId": "string",
   "creationTime": number,
   "deployedVersion": {
      "applicationVersion": number,
      "status": "string",
      "statusReason": "string"
   },
   "description": "string",
   "engineType": "string",
   "environmentId": "string",
   "kmsKeyId": "string",
   "lastStartTime": number,
   "latestVersion": {
      "applicationVersion": number,
      "creationTime": number,
      "status": "string",
      "statusReason": "string"
   },
   "listenerArns": [ "string" ],
   "listenerPorts": [ number ],
   "loadBalancerDnsName": "string",
   "logGroups": [
      {
         "logGroupName": "string",
         "logType": "string"
      }
   ],
   "name": "string",
   "roleArn": "string",
   "status": "string",
   "statusReason": "string",
   "tags": {
      "string" : "string"
   },
   "targetGroupArns": [ "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 application.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]|):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+=,@.-]{0,1023}`

applicationId

The identifier of the application.

Type: String

Pattern: `\S{1,80}`

creationTime

The timestamp when this application was created.

Type: Timestamp

deployedVersion

The version of the application that is deployed.

Type: DeployedVersionSummary object

description

The description of the application.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

engineType

The type of the target platform for the application.

Type: String

Valid Values: `microfocus | bluage`

environmentId

The identifier of the runtime environment where you want to deploy the application.

Type: String

Pattern: `\S{1,80}`

kmsKeyId

The identifier of a customer managed key.

Type: String

lastStartTime

The timestamp when you last started the application. Null until the application runs for the first time.

Type: Timestamp

latestVersion

The latest version of the application.

Type: ApplicationVersionSummary object

listenerArns

The Amazon Resource Name (ARN) for the network load balancer listener created in your AWS account. AWS Mainframe Modernization creates this listener for you the first time you deploy an application.

Type: Array of strings

Array Members: Minimum number of 1 item.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]|):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+=,@.-]{0,1023}`

listenerPorts

The port associated with the network load balancer listener created in your AWS account.

Type: Array of integers

Array Members: Minimum number of 1 item.

loadBalancerDnsName

The public DNS name of the load balancer created in your AWS account.

Type: String

Pattern: `\S{1,100}`

logGroups

The list of log summaries. Each log summary includes the log type as well as the log group identifier. These are CloudWatch logs. AWS Mainframe Modernization pushes the application log to CloudWatch under the customer's account.

Type: Array of LogGroupSummary objects

name

The unique identifier of the application.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

roleArn

The Amazon Resource Name (ARN) of the role associated with the application.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]|):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+=,@.-]{0,1023}`

status

The status of the application.

Type: String

Valid Values: `Creating | Created | Available | Ready | Starting | Running | Stopping | Stopped | Failed | Deleting | Deleting From Environment`

statusReason

The reason for the reported status.

Type: String

tags

A list of tags associated with the application.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `(?!aws:).+`

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

targetGroupArns

Returns the Amazon Resource Names (ARNs) of the target groups that are attached to the network load balancer.

Type: Array of strings

Array Members: Minimum number of 1 item.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]|):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+=,@.-]{0,1023}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

GetApplicationVersion

> **Important**
>
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Returns details about a specific version of a specific application.

Request Syntax

```
GET /applications/applicationId/versions/applicationVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application.

Pattern: `\S{1,80}`

Required: Yes

applicationVersion

The specific version of the application.

Valid Range: Minimum value of 1.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "applicationVersion": number,
   "creationTime": number,
   "definitionContent": "string",
   "description": "string",
   "name": "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.

applicationVersion

The specific version of the application.

Type: Integer

Valid Range: Minimum value of 1.

creationTime

The timestamp when the application version was created.

Type: Timestamp

definitionContent

The content of the application definition. This is a JSON object that contains the resource configuration and definitions that identify an application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65000.

description

The application description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

name

The name of the application version.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

status

The status of the application version.

Type: String

Valid Values: `Creating | Available | Failed`

statusReason

The reason for the reported status.

Type: String

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

GetBatchJobExecution

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Gets the details of a specific batch job execution for a specific application.

Request Syntax

```
GET /applications/applicationId/batch-job-executions/executionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The identifier of the application.

Pattern: `\S{1,80}`

Required: Yes

executionId

The unique identifier of the batch job execution.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "applicationId": "string",
   "batchJobIdentifier": { ... },
   "endTime": number,
   "executionId": "string",
   "jobId": "string",
   "jobName": "string",
   "jobStepRestartMarker": {
      "fromProcStep": "string",
      "fromStep": "string",
      "skip": boolean,
      "stepCheckpoint": number,
      "toProcStep": "string",
      "toStep": "string"
   },
   "jobType": "string",
   "jobUser": "string",
   "returnCode": "string",
   "startTime": number,
   "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.

applicationId

The identifier of the application.

Type: String

Pattern: `\S{1,80}`

batchJobIdentifier

The unique identifier of this batch job.

Type: BatchJobIdentifier object

Note: This object is a Union. Only one member of this object can be specified or returned.

endTime

The timestamp when the batch job execution ended.

Type: Timestamp

executionId

The unique identifier for this batch job execution.

Type: String

Pattern: `\S{1,80}`

jobId

The unique identifier for this batch job.

Type: String

Pattern: `\S{1,100}`

jobName

The name of this batch job.

Type: String

Pattern: `\S{1,100}`

jobStepRestartMarker

The step/procedure step information for the restart batch job operation.

Type: JobStepRestartMarker object

jobType

The type of job.

Type: String

Valid Values: `VSE | JES2 | JES3`

jobUser

The user for the job.

Type: String

Pattern: `\S{1,100}`

returnCode

The batch job return code from either the Blu Age or Micro Focus runtime engines. For more information, see Batch return codes in the *IBM WebSphere Application Server* documentation.

Type: String

startTime

The timestamp when the batch job execution started.

Type: Timestamp

status

The status of the batch job execution.

Type: String

Valid Values: `Submitting | Holding | Dispatching | Running | Cancelling | Cancelled | Succeeded | Failed | Purged | Succeeded With Warning`

statusReason

The reason for the reported status.

Type: String

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

GetDataSetDetails

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Gets the details of a specific data set.

Request Syntax

```
GET /applications/applicationId/datasets/dataSetName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application that this data set is associated with.

Pattern: `\S{1,80}`

Required: Yes

dataSetName

The name of the data set.

Pattern: `\S{1,200}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "blocksize": number,
   "creationTime": number,
   "dataSetName": "string",
   "dataSetOrg": { ... },
   "fileSize": number,
   "lastReferencedTime": number,
   "lastUpdatedTime": number,
   "location": "string",
   "recordLength": 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.

blocksize

The size of the block on disk.

Type: Integer

creationTime

The timestamp when the data set was created.

Type: Timestamp

dataSetName

The name of the data set.

Type: String

Pattern: `\S{1,200}`

dataSetOrg

The type of data set. The only supported value is VSAM.

Type: DatasetDetailOrgAttributes object

Note: This object is a Union. Only one member of this object can be specified or returned.

fileSize

File size of the dataset.

Type: Long

lastReferencedTime

The last time the data set was referenced.

Type: Timestamp

lastUpdatedTime

The last time the data set was updated.

Type: Timestamp

location

The location where the data set is stored.

Type: String

Pattern: `\S{1,2000}`

recordLength

The length of records in the data set.

Type: Integer

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

ExecutionTimeoutException

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Failed to connect to server, or didn’t receive response within expected time period.

HTTP Status Code: 504

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceUnavailableException

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Server cannot process the request at the moment.

HTTP Status Code: 503

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

GetDataSetExportTask

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Gets the status of a data set import task initiated with the CreateDataSetExportTask operation.

Request Syntax

```
GET /applications/applicationId/dataset-export-tasks/taskId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The application identifier.

Pattern: `\S{1,80}`

Required: Yes

taskId

The task identifier returned by the CreateDataSetExportTask operation.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "kmsKeyArn": "string",
   "status": "string",
   "statusReason": "string",
   "summary": {
      "failed": number,
      "inProgress": number,
      "pending": number,
      "succeeded": number,
      "total": number
   },
   "taskId": "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.

kmsKeyArn

The identifier of a customer managed key used for exported data set encryption.

Type: String

status

The status of the task.

Type: String

Valid Values: `Creating | Running | Completed | Failed`

statusReason

If dataset export failed, the failure reason will show here.

Type: String

summary

A summary of the status of the task.

Type: DataSetExportSummary object

taskId

The task identifier.

Type: String

Pattern: `\S{1,80}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetDataSetImportTask

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Gets the status of a data set import task initiated with the CreateDataSetImportTask operation.

Request Syntax

```
GET /applications/applicationId/dataset-import-tasks/taskId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The application identifier.

Pattern: `\S{1,80}`

Required: Yes

taskId

The task identifier returned by the CreateDataSetImportTask operation.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "status": "string",
   "summary": {
      "failed": number,
      "inProgress": number,
      "pending": number,
      "succeeded": number,
      "total": number
   },
   "taskId": "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 of the task.

Type: String

Valid Values: `Creating | Running | Completed | Failed`

summary

A summary of the status of the task.

Type: DataSetImportSummary object

taskId

The task identifier.

Type: String

Pattern: `\S{1,80}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

GetDeployment

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Gets details of a specific deployment with a given deployment identifier.

Request Syntax

```
GET /applications/applicationId/deployments/deploymentId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application.

Pattern: `\S{1,80}`

Required: Yes

deploymentId

The unique identifier for the deployment.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "applicationId": "string",
   "applicationVersion": number,
   "creationTime": number,
   "deploymentId": "string",
   "environmentId": "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.

applicationId

The unique identifier of the application.

Type: String

Pattern: `\S{1,80}`

applicationVersion

The application version.

Type: Integer

Valid Range: Minimum value of 1.

creationTime

The timestamp when the deployment was created.

Type: Timestamp

deploymentId

The unique identifier of the deployment.

Type: String

Pattern: `\S{1,80}`

environmentId

The unique identifier of the runtime environment.

Type: String

Pattern: `\S{1,80}`

status

The status of the deployment.

Type: String

Valid Values: `Deploying | Succeeded | Failed | Updating Deployment`

statusReason

The reason for the reported status.

Type: String

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

GetEnvironment

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Describes a specific runtime environment.

Request Syntax

```
GET /environments/environmentId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

environmentId

The unique identifier of the runtime environment.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "actualCapacity": number,
   "creationTime": number,
   "description": "string",
   "engineType": "string",
   "engineVersion": "string",
   "environmentArn": "string",
   "environmentId": "string",
   "highAvailabilityConfig": {
      "desiredCapacity": number
   },
   "instanceType": "string",
   "kmsKeyId": "string",
   "loadBalancerArn": "string",
   "name": "string",
   "networkType": "string",
   "pendingMaintenance": {
      "engineVersion": "string",
      "schedule": {
         "endTime": number,
         "startTime": number
      }
   },
   "preferredMaintenanceWindow": "string",
   "publiclyAccessible": boolean,
   "securityGroupIds": [ "string" ],
   "status": "string",
   "statusReason": "string",
   "storageConfigurations": [
      { ... }
   ],
   "subnetIds": [ "string" ],
   "tags": {
      "string" : "string"
   },
   "vpcId": "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.

actualCapacity

The number of instances included in the runtime environment. A standalone runtime environment has a maximum of one instance. Currently, a high availability runtime environment has a maximum of two instances.

Type: Integer

creationTime

The timestamp when the runtime environment was created.

Type: Timestamp

description

The description of the runtime environment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

engineType

The target platform for the runtime environment.

Type: String

Valid Values: `microfocus | bluage`

engineVersion

The version of the runtime engine.

Type: String

Pattern: `\S{1,10}`

environmentArn

The Amazon Resource Name (ARN) of the runtime environment.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]|):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+=,@.-]{0,1023}`

environmentId

The unique identifier of the runtime environment.

Type: String

Pattern: `\S{1,80}`

highAvailabilityConfig

The desired capacity of the high availability configuration for the runtime environment.

Type: HighAvailabilityConfig object

instanceType

The type of instance underlying the runtime environment.

Type: String

Pattern: `\S{1,20}`

kmsKeyId

The identifier of a customer managed key.

Type: String

loadBalancerArn

The Amazon Resource Name (ARN) for the load balancer used with the runtime environment.

Type: String

name

The name of the runtime environment. Must be unique within the account.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

networkType

The network type supported by the runtime environment.

Type: String

Valid Values: `ipv4 | dual`

pendingMaintenance

Indicates the pending maintenance scheduled on this environment.

Type: PendingMaintenance object

preferredMaintenanceWindow

The maintenance window for the runtime environment. If you don't provide a value for the maintenance window, the service assigns a random value.

Type: String

Pattern: `\S{1,50}`

publiclyAccessible

Whether applications running in this runtime environment are publicly accessible.

Type: Boolean

securityGroupIds

The unique identifiers of the security groups assigned to this runtime environment.

Type: Array of strings

Pattern: `\S{1,50}`

status

The status of the runtime environment. If the AWS Mainframe Modernization environment is missing a connection to the customer owned dependent resource, the status will be `Unhealthy`.

Type: String

Valid Values: `Creating | Available | Updating | Deleting | Failed | UnHealthy`

statusReason

The reason for the reported status.

Type: String

storageConfigurations

The storage configurations defined for the runtime environment.

Type: Array of StorageConfiguration objects

subnetIds

The unique identifiers of the subnets assigned to this runtime environment.

Type: Array of strings

Pattern: `\S{1,50}`

tags

The tags defined for this runtime environment.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `(?!aws:).+`

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

vpcId

The unique identifier for the VPC used with this runtime environment.

Type: String

Pattern: `\S{1,50}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

GetSignedBluinsightsUrl

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Gets a single sign-on URL that can be used to connect to AWS Blu Insights.

Request Syntax

```
GET /signed-bi-url HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "signedBiUrl": "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.

signedBiUrl

Single sign-on AWS Blu Insights URL.

Type: String

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

See Also

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

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

ListApplications

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Lists the applications associated with a specific AWS account. You can provide the unique identifier of a specific runtime environment in a query parameter to see all applications associated with that environment.

Request Syntax

```
GET /applications?
environmentId=environmentId&maxResults=maxResults&names=names&nextToken=nextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

environmentId

The unique identifier of the runtime environment where the applications are deployed.

Pattern: `\S{1,80}`

maxResults

The maximum number of applications to return.

Valid Range: Minimum value of 1. Maximum value of 2000.

names

The names of the applications.

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

nextToken

A pagination token to control the number of applications displayed in the list.

Pattern: `\S{1,2000}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "applications": [
      {
         "applicationArn": "string",
         "applicationId": "string",
         "applicationVersion": number,
         "creationTime": number,
         "deploymentStatus": "string",
         "description": "string",
         "engineType": "string",
         "environmentId": "string",
         "lastStartTime": number,
         "name": "string",
         "roleArn": "string",
         "status": "string",
         "versionStatus": "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.

applications

Returns a list of summary details for all the applications in a runtime environment.

Type: Array of ApplicationSummary objects

nextToken

A pagination token that's returned when the response doesn't contain all applications.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

ListApplicationVersions

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Returns a list of the application versions for a specific application.

Request Syntax

```
GET /applications/applicationId/versions?maxResults=maxResults&nextToken=nextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application.

Pattern: `\S{1,80}`

Required: Yes

maxResults

The maximum number of application versions to return.

Valid Range: Minimum value of 1. Maximum value of 2000.

nextToken

A pagination token returned from a previous call to this operation. This specifies the next item to return. To return to the beginning of the list, exclude this parameter.

Pattern: `\S{1,2000}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "applicationVersions": [
      {
         "applicationVersion": number,
         "creationTime": number,
         "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.

applicationVersions

The list of application versions.

Type: Array of ApplicationVersionSummary objects

nextToken

If there are more items to return, this contains a token that is passed to a subsequent call to this operation to retrieve the next set of items.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

ListBatchJobDefinitions

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Lists all the available batch job definitions based on the batch job resources uploaded during the application creation. You can use the batch job definitions in the list to start a batch job.

Request Syntax

```
GET /applications/applicationId/batch-job-definitions?
maxResults=maxResults&nextToken=nextToken&prefix=prefix HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The identifier of the application.

Pattern: `\S{1,80}`

Required: Yes

maxResults

The maximum number of batch job definitions to return.

Valid Range: Minimum value of 1. Maximum value of 2000.

nextToken

A pagination token returned from a previous call to this operation. This specifies the next item to return. To return to the beginning of the list, exclude this parameter.

Pattern: `\S{1,2000}`

prefix

If the batch job definition is a FileBatchJobDefinition, the prefix allows you to search on the file names of FileBatchJobDefinitions.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "batchJobDefinitions": [
      { ... }
   ],
   "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.

batchJobDefinitions

The list of batch job definitions.

Type: Array of BatchJobDefinition objects

nextToken

If there are more items to return, this contains a token that is passed to a subsequent call to this operation to retrieve the next set of items.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

- AWS SDK for Ruby V3

ListBatchJobExecutions

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Lists historical, current, and scheduled batch job executions for a specific application.

Request Syntax

```
GET /applications/applicationId/batch-job-executions?
executionIds=executionIds&jobName=jobName&maxResults=maxResults&nextToken=nextToken&startedAfte
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application.

Pattern: `\S{1,80}`

Required: Yes

executionIds

The unique identifier of each batch job execution.

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Pattern: `\S{1,80}`

jobName

The name of each batch job execution.

Pattern: `\S{1,100}`

maxResults

The maximum number of batch job executions to return.

Valid Range: Minimum value of 1. Maximum value of 2000.

nextToken

A pagination token to control the number of batch job executions displayed in the list.

Pattern: `\S{1,2000}`

startedAfter

The time after which the batch job executions started.

startedBefore

The time before the batch job executions started.

status

The status of the batch job executions.

Valid Values: `Submitting | Holding | Dispatching | Running | Cancelling | Cancelled | Succeeded | Failed | Purged | Succeeded With Warning`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "batchJobExecutions": [
```

```
        {
            "applicationId": "string",
            "batchJobIdentifier": { ... },
            "endTime": number,
            "executionId": "string",
            "jobId": "string",
            "jobName": "string",
            "jobType": "string",
            "returnCode": "string",
            "startTime": number,
            "status": "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.

batchJobExecutions

Returns a list of batch job executions for an application.

Type: Array of BatchJobExecutionSummary objects

nextToken

A pagination token that's returned when the response doesn't contain all batch job executions.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

ListBatchJobRestartPoints

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Lists all the job steps for a JCL file to restart a batch job. This is only applicable for Micro Focus engine with versions 8.0.6 and above.

Request Syntax

```
GET /applications/applicationId/batch-job-executions/executionId/steps?
authSecretsManagerArn=authSecretsManagerArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application.

Pattern: `\S{1,80}`

Required: Yes

authSecretsManagerArn

The AWS Secrets Manager containing user's credentials for authentication and authorization for List Batch Job Restart Points operation.

Length Constraints: Minimum length of 20. Maximum length of 2048.

executionId

The unique identifier of the batch job execution.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "batchJobSteps": [
      {
         "procStepName": "string",
         "procStepNumber": number,
         "stepCheckpoint": number,
         "stepCheckpointStatus": "string",
         "stepCheckpointTime": number,
         "stepCondCode": "string",
         "stepName": "string",
         "stepNumber": number,
         "stepRestartable": 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.

batchJobSteps

Returns all the batch job steps and related information for a batch job that previously ran.

Type: Array of JobStep objects

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

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

ListDataSetExportHistory

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Lists the data set exports for the specified application.

Request Syntax

```
GET /applications/applicationId/dataset-export-tasks?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application.

Pattern: `\S{1,80}`

Required: Yes

maxResults

The maximum number of objects to return.

Valid Range: Minimum value of 1. Maximum value of 2000.

nextToken

A pagination token returned from a previous call to this operation. This specifies the next item to return. To return to the beginning of the list, exclude this parameter.

Pattern: `\S{1,2000}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "dataSetExportTasks": [
      {
         "status": "string",
         "statusReason": "string",
         "summary": {
            "failed": number,
            "inProgress": number,
            "pending": number,
            "succeeded": number,
            "total": number
         },
         "taskId": "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.

dataSetExportTasks

The data set export tasks.

Type: Array of DataSetExportTask objects

nextToken

If there are more items to return, this contains a token that is passed to a subsequent call to this operation to retrieve the next set of items.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

- AWS SDK for Ruby V3

ListDataSetImportHistory

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Lists the data set imports for the specified application.

Request Syntax

```
GET /applications/applicationId/dataset-import-tasks?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application.

Pattern: `\S{1,80}`

Required: Yes

maxResults

The maximum number of objects to return.

Valid Range: Minimum value of 1. Maximum value of 2000.

nextToken

A pagination token returned from a previous call to this operation. This specifies the next item to return. To return to the beginning of the list, exclude this parameter.

Pattern: `\S{1,2000}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "dataSetImportTasks": [
      {
         "status": "string",
         "statusReason": "string",
         "summary": {
            "failed": number,
            "inProgress": number,
            "pending": number,
            "succeeded": number,
            "total": number
         },
         "taskId": "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.

dataSetImportTasks

The data set import tasks.

Type: Array of DataSetImportTask objects

nextToken

If there are more items to return, this contains a token that is passed to a subsequent call to this operation to retrieve the next set of items.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

- AWS SDK for Ruby V3

ListDataSets

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Lists the data sets imported for a specific application. In AWS Mainframe Modernization, data sets are associated with applications deployed on runtime environments. This is known as importing data sets. Currently, AWS Mainframe Modernization can import data sets into catalogs using CreateDataSetImportTask.

Request Syntax

```
GET /applications/applicationId/datasets?
maxResults=maxResults&nameFilter=nameFilter&nextToken=nextToken&prefix=prefix HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application for which you want to list the associated data sets.

Pattern: `\S{1,80}`

Required: Yes

maxResults

The maximum number of objects to return.

Valid Range: Minimum value of 1. Maximum value of 2000.

nameFilter

Filter dataset name matching the specified pattern. Can use * and % as wild cards.

Pattern: `\S{1,200}`

nextToken

A pagination token returned from a previous call to this operation. This specifies the next item to return. To return to the beginning of the list, exclude this parameter.

Pattern: `\S{1,2000}`

prefix

The prefix of the data set name, which you can use to filter the list of data sets.

Pattern: `\S{1,200}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "dataSets": [
      {
         "creationTime": number,
         "dataSetName": "string",
         "dataSetOrg": "string",
         "format": "string",
         "lastReferencedTime": number,
         "lastUpdatedTime": 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.

dataSets

The list of data sets, containing information including the creation time, the data set name, the data set organization, the data set format, and the last time the data set was referenced or updated.

Type: Array of DataSetSummary objects

nextToken

If there are more items to return, this contains a token that is passed to a subsequent call to this operation to retrieve the next set of items.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

ExecutionTimeoutException

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Failed to connect to server, or didn't receive response within expected time period.

HTTP Status Code: 504

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceUnavailableException

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Server cannot process the request at the moment.

HTTP Status Code: 503

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

ListDeployments

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Returns a list of all deployments of a specific application. A deployment is a combination of a specific application and a specific version of that application. Each deployment is mapped to a particular application version.

Request Syntax

```
GET /applications/applicationId/deployments?maxResults=maxResults&nextToken=nextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The application identifier.

Pattern: `\S{1,80}`

Required: Yes

maxResults

The maximum number of objects to return.

Valid Range: Minimum value of 1. Maximum value of 2000.

nextToken

A pagination token returned from a previous call to this operation. This specifies the next item to return. To return to the beginning of the list, exclude this parameter.

Pattern: `\S{1,2000}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "deployments": [
      {
         "applicationId": "string",
         "applicationVersion": number,
         "creationTime": number,
         "deploymentId": "string",
         "environmentId": "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.

deployments

The list of deployments that is returned.

Type: Array of DeploymentSummary objects

nextToken

If there are more items to return, this contains a token that is passed to a subsequent call to this operation to retrieve the next set of items.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

- AWS SDK for Ruby V3

ListEngineVersions

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Lists the available engine versions.

Request Syntax

```
GET /engine-versions?engineType=engineType&maxResults=maxResults&nextToken=nextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

engineType

The type of target platform.

Valid Values: `microfocus | bluage`

maxResults

The maximum number of objects to return.

Valid Range: Minimum value of 1. Maximum value of 2000.

nextToken

A pagination token returned from a previous call to this operation. This specifies the next item to return. To return to the beginning of the list, exclude this parameter.

Pattern: `\S{1,2000}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "engineVersions": [
      {
         "engineType": "string",
         "engineVersion": "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.

engineVersions

Returns the engine versions.

Type: Array of EngineVersionsSummary objects

nextToken

If there are more items to return, this contains a token that is passed to a subsequent call to this operation to retrieve the next set of items.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

ListEnvironments

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Lists the runtime environments.

Request Syntax

```
GET /environments?
engineType=engineType&maxResults=maxResults&names=names&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

engineType

The engine type for the runtime environment.

Valid Values: `microfocus | bluage`

maxResults

The maximum number of runtime environments to return.

Valid Range: Minimum value of 1. Maximum value of 2000.

names

The names of the runtime environments. Must be unique within the account.

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

nextToken

A pagination token to control the number of runtime environments displayed in the list.

Pattern: `\S{1,2000}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "environments": [
      {
         "creationTime": number,
         "engineType": "string",
         "engineVersion": "string",
         "environmentArn": "string",
         "environmentId": "string",
         "instanceType": "string",
         "name": "string",
         "networkType": "string",
         "status": "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.

environments

Returns a list of summary details for all the runtime environments in your account.

Type: Array of EnvironmentSummary objects

nextToken

A pagination token that's returned when the response doesn't contain all the runtime environments.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

ListTagsForResource

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Lists the tags for the specified resource.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the resource.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]|):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+=,@.-]{0,1023}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "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 tags for the resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `(?!aws:).+`

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

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

StartApplication

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Starts an application that is currently stopped.

Request Syntax

```
POST /applications/applicationId/start HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application you want to start.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

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

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

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

StartBatchJob

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Starts a batch job and returns the unique identifier of this execution of the batch job. The associated application must be running in order to start the batch job.

Request Syntax

```
POST /applications/applicationId/batch-job HTTP/1.1
Content-type: application/json

{
   "authSecretsManagerArn": "string",
   "batchJobIdentifier": { ... },
   "jobParams": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application associated with this batch job.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

authSecretsManagerArn

The AWS Secrets Manager containing user's credentials for authentication and authorization for Start Batch Job execution operation.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

batchJobIdentifier

The unique identifier of the batch job.

Type: BatchJobIdentifier object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

jobParams

The collection of batch job parameters. For details about limits for keys and values, see Coding variables in JCL.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 500 items.

Key Length Constraints: Minimum length of 1. Maximum length of 32.

Key Pattern: `[A-Za-z][A-Za-z0-9]{1,31}`

Value Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "executionId": "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.

executionId

The unique identifier of this execution of the batch job.

Type: String

Pattern: `\S{1,80}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

StopApplication

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Stops a running application.

Request Syntax

```
POST /applications/applicationId/stop HTTP/1.1
Content-type: application/json

{
   "forceStop": boolean
}
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application you want to stop.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

forceStop

Stopping an application process can take a long time. Setting this parameter to true lets you force stop the application so you don't need to wait until the process finishes to apply another action on the application. The default value is false.

Type: Boolean

Required: No

Response Syntax

```
HTTP/1.1 200
```

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

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Adds one or more tags to the specified resource.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

{
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the resource.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]|):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+=,@.-]{0,1023}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

The tags to add to the resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `(?!aws:).+`

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

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

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

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

One or more quotas for AWS Mainframe Modernization exceeds the limit.

quotaCode

The identifier of the exceeded quota.

resourceId

The ID of the resource that is exceeding the quota limit.

resourceType

The type of resource that is exceeding the quota limit for AWS Mainframe Modernization.

serviceCode

A code that identifies the service that the exceeded quota belongs to.

HTTP Status Code: 402

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

- AWS SDK for Go v2
- AWS SDK for Java 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

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Removes one or more tags from the specified resource.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the resource.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]|):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+=,@.-]{0,1023}`

Required: Yes

tagKeys

The keys of the tags to remove.

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

Pattern: `(?!aws:).+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

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

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

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

UpdateApplication

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Updates an application and creates a new version.

Request Syntax

```
PATCH /applications/applicationId HTTP/1.1
Content-type: application/json

{
   "currentApplicationVersion": number,
   "definition": { ... },
   "description": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

applicationId

The unique identifier of the application you want to update.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

currentApplicationVersion

The current version of the application to update.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

definition

The application definition for this application. You can specify either inline JSON or an S3 bucket location.

Type: Definition object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

description

The description of the application to update.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "applicationVersion": 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.

applicationVersion

The new version of the application.

Type: Integer

Valid Range: Minimum value of 1.

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

UpdateEnvironment

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Updates the configuration details for a specific runtime environment.

Request Syntax

```
PATCH /environments/environmentId HTTP/1.1
Content-type: application/json

{
   "applyDuringMaintenanceWindow": boolean,
   "desiredCapacity": number,
   "engineVersion": "string",
   "forceUpdate": boolean,
   "instanceType": "string",
   "preferredMaintenanceWindow": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

environmentId

The unique identifier of the runtime environment that you want to update.

Pattern: `\S{1,80}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

applyDuringMaintenanceWindow

Indicates whether to update the runtime environment during the maintenance window. The default is false. Currently, AWS Mainframe Modernization accepts the `engineVersion` parameter only if `applyDuringMaintenanceWindow` is true. If any parameter other than `engineVersion` is provided in `UpdateEnvironmentRequest`, it will fail if `applyDuringMaintenanceWindow` is set to true.

Type: Boolean

Required: No

desiredCapacity

The desired capacity for the runtime environment to update. The minimum possible value is 0 and the maximum is 100.

Type: Integer

Required: No

engineVersion

The version of the runtime engine for the runtime environment.

Type: String

Pattern: `\S{1,10}`

Required: No

forceUpdate

Forces the updates on the environment. This option is needed if the applications in the environment are not stopped or if there are ongoing application-related activities in the environment.

If you use this option, be aware that it could lead to data corruption in the applications, and that you might need to perform repair and recovery procedures for the applications.

This option is not needed if the attribute being updated is `preferredMaintenanceWindow`.

Type: Boolean

Required: No

instanceType

The instance type for the runtime environment to update.

Type: String

Pattern: `\S{1,20}`

Required: No

preferredMaintenanceWindow

Configures the maintenance window that you want for the runtime environment. The maintenance window must have the format `ddd:hh24:mi-ddd:hh24:mi` and must be less than 24 hours. The following two examples are valid maintenance windows: `sun:23:45-mon:00:15` or `sat:01:00-sat:03:00`.

If you do not provide a value, a random system-generated value will be assigned.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "environmentId": "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.

environmentId

The unique identifier of the runtime environment that was updated.

Type: String

Pattern: `\S{1,80}`

Errors

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

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred during the processing of the request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

resourceId

The ID of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

One or more quotas for AWS Mainframe Modernization exceeds the limit.

quotaCode

The identifier of the exceeded quota.

resourceId

The ID of the resource that is exceeding the quota limit.

resourceType

The type of resource that is exceeding the quota limit for AWS Mainframe Modernization.

serviceCode

A code that identifies the service that the exceeded quota belongs to.

HTTP Status Code: 402

ThrottlingException

The number of requests made exceeds the limit.

quotaCode

The identifier of the throttled request.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The identifier of the service that the throttled request was made to.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

fieldList

The list of fields that failed service validation.

reason

The reason why it failed service validation.

HTTP Status Code: 400

See Also

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

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

- AlternateKey
- ApplicationSummary
- ApplicationVersionSummary
- BatchJobDefinition
- BatchJobExecutionSummary
- BatchJobIdentifier
- DataSet
- DatasetDetailOrgAttributes
- DataSetExportConfig
- DataSetExportItem
- DataSetExportSummary
- DataSetExportTask
- DataSetImportConfig
- DataSetImportItem
- DataSetImportSummary
- DataSetImportTask
- DatasetOrgAttributes
- DataSetSummary
- Definition
- DeployedVersionSummary

- DeploymentSummary
- EfsStorageConfiguration
- EngineVersionsSummary
- EnvironmentSummary
- ExternalLocation
- FileBatchJobDefinition
- FileBatchJobIdentifier
- FsxStorageConfiguration
- GdgAttributes
- GdgDetailAttributes
- HighAvailabilityConfig
- JobIdentifier
- JobStep
- JobStepRestartMarker
- LogGroupSummary
- MaintenanceSchedule
- PendingMaintenance
- PoAttributes
- PoDetailAttributes
- PrimaryKey
- PsAttributes
- PsDetailAttributes
- RecordLength
- RestartBatchJobIdentifier
- S3BatchJobIdentifier
- ScriptBatchJobDefinition
- ScriptBatchJobIdentifier
- StorageConfiguration
- ValidationExceptionField
- VsamAttributes

- VsamDetailAttributes

AlternateKey

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Defines an alternate key. This value is optional. A legacy data set might not have any alternate key defined but if those alternate keys definitions exist, provide them, as some applications will make use of them.

Contents

length

A strictly positive integer value representing the length of the alternate key.

Type: Integer

Required: Yes

offset

A positive integer value representing the offset to mark the start of the alternate key part in the record byte array.

Type: Integer

Required: Yes

allowDuplicates

Indicates whether the alternate key values are supposed to be unique for the given data set.

Type: Boolean

Required: No

name

The name of the alternate key.

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

ApplicationSummary

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

A subset of the possible application attributes. Used in the application list.

Contents

applicationArn

The Amazon Resource Name (ARN) of the application.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]|):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+=,@.-]{0,1023}`

Required: Yes

applicationId

The unique identifier of the application.

Type: String

Pattern: `\S{1,80}`

Required: Yes

applicationVersion

The version of the application.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

creationTime

The timestamp when the application was created.

Type: Timestamp

Required: Yes

engineType

The type of the target platform for this application.

Type: String

Valid Values: `microfocus | bluage`

Required: Yes

name

The name of the application.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

status

The status of the application.

Type: String

Valid Values: `Creating | Created | Available | Ready | Starting | Running | Stopping | Stopped | Failed | Deleting | Deleting From Environment`

Required: Yes

deploymentStatus

Indicates either an ongoing deployment or if the application has ever deployed successfully.

Type: String

Valid Values: `Deploying | Deployed`

Required: No

description

The description of the application.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

environmentId

The unique identifier of the runtime environment that hosts this application.

Type: String

Pattern: `\S{1,80}`

Required: No

lastStartTime

The timestamp when you last started the application. Null until the application runs for the first time.

Type: Timestamp

Required: No

roleArn

The Amazon Resource Name (ARN) of the role associated with the application.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]|):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+=,@.-]{0,1023}`

Required: No

versionStatus

Indicates the status of the latest version of the application.

Type: String

Valid Values: `Creating | Available | 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

ApplicationVersionSummary

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Defines an application version summary.

Contents

applicationVersion

The application version.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

creationTime

The timestamp when the application version was created.

Type: Timestamp

Required: Yes

status

The status of the application.

Type: String

Valid Values: `Creating | Available | Failed`

Required: Yes

statusReason

The reason for the reported status.

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

BatchJobDefinition

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Defines the details of a batch job.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

fileBatchJobDefinition

Specifies a file containing a batch job definition.

Type: FileBatchJobDefinition object

Required: No

scriptBatchJobDefinition

A script containing a batch job definition.

Type: ScriptBatchJobDefinition 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

BatchJobExecutionSummary

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

A subset of the possible batch job attributes. Used in the batch job list.

Contents

applicationId

The unique identifier of the application that hosts this batch job.

Type: String

Pattern: `\S{1,80}`

Required: Yes

executionId

The unique identifier of this execution of the batch job.

Type: String

Pattern: `\S{1,80}`

Required: Yes

startTime

The timestamp when a particular batch job execution started.

Type: Timestamp

Required: Yes

status

The status of a particular batch job execution.

Type: String

Valid Values: `Submitting | Holding | Dispatching | Running | Cancelling | Cancelled | Succeeded | Failed | Purged | Succeeded With Warning`

Required: Yes

batchJobIdentifier

The unique identifier of this batch job.

Type: BatchJobIdentifier object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

endTime

The timestamp when this batch job execution ended.

Type: Timestamp

Required: No

jobId

The unique identifier of a particular batch job.

Type: String

Pattern: `\S{1,100}`

Required: No

jobName

The name of a particular batch job.

Type: String

Pattern: `\S{1,100}`

Required: No

jobType

The type of a particular batch job execution.

Type: String

Valid Values: `VSE | JES2 | JES3`

Required: No

returnCode

The batch job return code from either the Blu Age or Micro Focus runtime engines. For more information, see Batch return codes in the *IBM WebSphere Application Server* documentation.

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

BatchJobIdentifier

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Identifies a specific batch job.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

fileBatchJobIdentifier

Specifies a file associated with a specific batch job.

Type: FileBatchJobIdentifier object

Required: No

restartBatchJobIdentifier

Specifies the required information for restart, including `executionId` and `JobStepRestartMarker`.

Type: RestartBatchJobIdentifier object

Required: No

s3BatchJobIdentifier

Specifies an Amazon S3 location that identifies the batch jobs that you want to run. Use this identifier to run ad hoc batch jobs.

Type: S3BatchJobIdentifier object

Required: No

scriptBatchJobIdentifier

A batch job identifier in which the batch job to run is identified by the script name.

Type: ScriptBatchJobIdentifier 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

DataSet

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Defines a data set.

Contents

datasetName

The logical identifier for a specific data set (in mainframe format).

Type: String

Required: Yes

datasetOrg

The type of dataset. The only supported value is VSAM.

Type: DatasetOrgAttributes object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

recordLength

The length of a record.

Type: RecordLength object

Required: Yes

relativePath

The relative location of the data set in the database or file system.

Type: String

Required: No

storageType

The storage type of the data set: database or file system. For Micro Focus, database corresponds to datastore and file system corresponds to EFS/FSX. For Blu Age, there is no support of file system and database corresponds to Blusam.

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

DatasetDetailOrgAttributes

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Additional details about the data set. Different attributes correspond to different data set organizations. The values are populated based on datasetOrg, storageType and backend (Blu Age or Micro Focus).

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

gdg

The generation data group of the data set.

Type: GdgDetailAttributes object

Required: No

po

The details of a PO type data set.

Type: PoDetailAttributes object

Required: No

ps

The details of a PS type data set.

Type: PsDetailAttributes object

Required: No

vsam

The details of a VSAM data set.

Type: VsamDetailAttributes 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

DataSetExportConfig

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Identifies one or more data sets you want to import with the CreateDataSetExportTask operation.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

dataSets

The data sets.

Type: Array of DataSetExportItem objects

Array Members: Minimum number of 1 item. Maximum number of 1024 items.

Required: No

s3Location

The Amazon S3 location of the data sets.

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

DataSetExportItem

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Identifies a specific data set to export from an external location.

Contents

datasetName

The data set.

Type: String

Pattern: `\S{1,200}`

Required: Yes

externalLocation

The location of the data set.

Type: ExternalLocation object

Note: This object is a Union. Only one member of this object can be specified or returned.

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

DataSetExportSummary

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Represents a summary of data set exports.

Contents

failed

The number of data set exports that have failed.

Type: Integer

Required: Yes

inProgress

The number of data set exports that are in progress.

Type: Integer

Required: Yes

pending

The number of data set exports that are pending.

Type: Integer

Required: Yes

succeeded

The number of data set exports that have succeeded.

Type: Integer

Required: Yes

total

The total number of data set exports.

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

DataSetExportTask

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Contains information about a data set export task.

Contents

status

The status of the data set export task.

Type: String

Valid Values: `Creating | Running | Completed | Failed`

Required: Yes

summary

A summary of the data set export task.

Type: DataSetExportSummary object

Required: Yes

taskId

The identifier of the data set export task.

Type: String

Pattern: `\S{1,80}`

Required: Yes

statusReason

If dataset exports failed, the failure reason will show here.

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

DataSetImportConfig

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Identifies one or more data sets you want to import with the CreateDataSetImportTask operation.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

dataSets

The data sets.

Type: Array of DataSetImportItem objects

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

Required: No

s3Location

The Amazon S3 location of the data sets.

Type: String

Pattern: `\S{1,2000}`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataSetImportItem

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Identifies a specific data set to import from an external location.

Contents

dataSet

The data set.

Type: DataSet object

Required: Yes

externalLocation

The location of the data set.

Type: ExternalLocation object

Note: This object is a Union. Only one member of this object can be specified or returned.

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

DataSetImportSummary

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Represents a summary of data set imports.

Contents

failed

The number of data set imports that have failed.

Type: Integer

Required: Yes

inProgress

The number of data set imports that are in progress.

Type: Integer

Required: Yes

pending

The number of data set imports that are pending.

Type: Integer

Required: Yes

succeeded

The number of data set imports that have succeeded.

Type: Integer

Required: Yes

total

The total number of data set imports.

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

DataSetImportTask

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Contains information about a data set import task.

Contents

status

The status of the data set import task.

Type: String

Valid Values: `Creating | Running | Completed | Failed`

Required: Yes

summary

A summary of the data set import task.

Type: DataSetImportSummary object

Required: Yes

taskId

The identifier of the data set import task.

Type: String

Pattern: `\S{1,80}`

Required: Yes

statusReason

If dataset import failed, the failure reason will show here.

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

DatasetOrgAttributes

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Additional details about the data set. Different attributes correspond to different data set organizations. The values are populated based on datasetOrg, storageType and backend (Blu Age or Micro Focus).

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

gdg

The generation data group of the data set.

Type: GdgAttributes object

Required: No

po

The details of a PO type data set.

Type: PoAttributes object

Required: No

ps

The details of a PS type data set.

Type: PsAttributes object

Required: No

vsam

The details of a VSAM data set.

Type: VsamAttributes 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

DataSetSummary

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

A subset of the possible data set attributes.

Contents

dataSetName

The name of the data set.

Type: String

Pattern: `\S{1,200}`

Required: Yes

creationTime

The timestamp when the data set was created.

Type: Timestamp

Required: No

dataSetOrg

The type of data set. The only supported value is VSAM.

Type: String

Pattern: `\S{1,20}`

Required: No

format

The format of the data set.

Type: String

Pattern: `\S{1,20}`

Required: No

lastReferencedTime

The last time the data set was referenced.

Type: Timestamp

Required: No

lastUpdatedTime

The last time the data set was 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

Definition

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

The application definition for a particular application.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

content

The content of the application definition. This is a JSON object that contains the resource configuration/definitions that identify an application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65000.

Required: No

s3Location

The S3 bucket that contains the application definition.

Type: String

Pattern: `\S{1,2000}`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DeployedVersionSummary

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Contains a summary of a deployed application.

Contents

applicationVersion

The version of the deployed application.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

status

The status of the deployment.

Type: String

Valid Values: `Deploying | Succeeded | Failed | Updating Deployment`

Required: Yes

statusReason

The reason for the reported status.

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

DeploymentSummary

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

A subset of information about a specific deployment.

Contents

applicationId

The unique identifier of the application.

Type: String

Pattern: `\S{1,80}`

Required: Yes

applicationVersion

The version of the application.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

creationTime

The timestamp when the deployment was created.

Type: Timestamp

Required: Yes

deploymentId

The unique identifier of the deployment.

Type: String

Pattern: `\S{1,80}`

Required: Yes

environmentId

The unique identifier of the runtime environment.

Type: String

Pattern: `\S{1,80}`

Required: Yes

status

The current status of the deployment.

Type: String

Valid Values: `Deploying | Succeeded | Failed | Updating Deployment`

Required: Yes

statusReason

The reason for the reported status.

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

EfsStorageConfiguration

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Defines the storage configuration for an Amazon EFS file system.

Contents

file-system-id

The file system identifier.

Type: String

Pattern: `\S{1,200}`

Required: Yes

mount-point

The mount point for the file system.

Type: String

Pattern: `\S{1,200}`

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

EngineVersionsSummary

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

A subset of information about the engine version for a specific application.

Contents

engineType

The type of target platform for the application.

Type: String

Required: Yes

engineVersion

The version of the engine type used by the application.

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

EnvironmentSummary

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Contains a subset of the possible runtime environment attributes. Used in the environment list.

Contents

creationTime

The timestamp when the runtime environment was created.

Type: Timestamp

Required: Yes

engineType

The target platform for the runtime environment.

Type: String

Valid Values: `microfocus | bluage`

Required: Yes

engineVersion

The version of the runtime engine.

Type: String

Pattern: `\S{1,10}`

Required: Yes

environmentArn

The Amazon Resource Name (ARN) of a particular runtime environment.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]|):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+=,@.-]{0,1023}`

Required: Yes

environmentId

The unique identifier of a particular runtime environment.

Type: String

Pattern: `\S{1,80}`

Required: Yes

instanceType

The instance type of the runtime environment.

Type: String

Pattern: `\S{1,20}`

Required: Yes

name

The name of the runtime environment.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

status

The status of the runtime environment

Type: String

Valid Values: `Creating | Available | Updating | Deleting | Failed | UnHealthy`

Required: Yes

networkType

The network type supported by the runtime environment.

Type: String

Valid Values: `ipv4 | dual`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ExternalLocation

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Defines an external storage location.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

s3Location

The URI of the Amazon S3 bucket.

Type: String

Pattern: `\S{1,2000}`

Required: No

See Also

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

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

FileBatchJobDefinition

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

A file containing a batch job definition.

Contents

fileName

The name of the file containing the batch job definition.

Type: String

Required: Yes

folderPath

The path to the file containing the batch job definition.

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

FileBatchJobIdentifier

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

A batch job identifier in which the batch job to run is identified by the file name and the relative path to the file name.

Contents

fileName

The file name for the batch job identifier.

Type: String

Required: Yes

folderPath

The relative path to the file name for the batch job identifier.

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

FsxStorageConfiguration

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Defines the storage configuration for an Amazon FSx file system.

Contents

file-system-id

The file system identifier.

Type: String

Pattern: `\S{1,200}`

Required: Yes

mount-point

The mount point for the file system.

Type: String

Pattern: `\S{1,200}`

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

GdgAttributes

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

The required attributes for a generation data group data set. A generation data set is one of a collection of successive, historically related, catalogued data sets that together are known as a generation data group (GDG). Use this structure when you want to import a GDG. For more information on GDG, see Generation data sets.

Contents

limit

The maximum number of generation data sets, up to 255, in a GDG.

Type: Integer

Required: No

rollDisposition

The disposition of the data set in 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

GdgDetailAttributes

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

The required attributes for a generation data group data set. A generation data set is one of a collection of successive, historically related, catalogued data sets that together are known as a generation data group (GDG). Use this structure when you want to import a GDG. For more information on GDG, see Generation data sets.

Contents

limit

The maximum number of generation data sets, up to 255, in a GDG.

Type: Integer

Required: No

rollDisposition

The disposition of the data set in the catalog.

Type: String

Pattern: `\S{1,50}`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

HighAvailabilityConfig

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Defines the details of a high availability configuration.

Contents

desiredCapacity

The number of instances in a high availability configuration. The minimum possible value is 1 and the maximum is 100.

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

JobIdentifier

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

Identifies a specific batch job.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

fileName

The name of the file that contains the batch job definition.

Type: String

Required: No

scriptName

The name of the script that contains the batch job definition.

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

JobStep

Provides information related to a job step.

Contents

procStepName

The name of a procedure step.

Type: String

Required: No

procStepNumber

The number of a procedure step.

Type: Integer

Required: No

stepCheckpoint

A registered step-level checkpoint identifier that can be used for restarting an AWS Blu Age application batch job.

Type: Integer

Required: No

stepCheckpointStatus

The step-level checkpoint status for an AWS Blu Age application batch job.

Type: String

Required: No

stepCheckpointTime

The step-level checkpoint status for an AWS Blu Age application batch job.

Type: Timestamp

Required: No

stepCondCode

The condition code of a step.

Type: String

Required: No

stepName

The name of a step.

Type: String

Required: No

stepNumber

The number of a step.

Type: Integer

Required: No

stepRestartable

Specifies if a step can be restarted or 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

JobStepRestartMarker

Provides step/procedure step information for a restart batch job operation.

Contents

fromStep

The step name that a batch job was restarted from.

Type: String

Required: Yes

fromProcStep

The procedure step name that a batch job was restarted from.

Type: String

Required: No

skip

The step-level checkpoint timestamp (creation or last modification) for an AWS Blu Age application batch job.

Type: Boolean

Required: No

stepCheckpoint

Skip selected step and issue a restart from immediate successor step for an AWS Blu Age application batch job.

Type: Integer

Required: No

toProcStep

The procedure step name that a batch job was restarted to.

Type: String

Required: No

toStep

The step name that a batch job was restarted to.

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

LogGroupSummary

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

A subset of the attributes that describe a log group. In CloudWatch a log group is a group of log streams that share the same retention, monitoring, and access control settings.

Contents

logGroupName

The name of the log group.

Type: String

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

Required: Yes

logType

The type of log.

Type: String

Pattern: `\S{1,20}`

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

MaintenanceSchedule

> **Important**
>
> AWS Mainframe Modernization Service (Managed Runtime Environment experience) will no longer be open to new customers starting on November 7, 2025. If you would like to use the service, please sign up prior to November 7, 2025. For capabilities similar to AWS Mainframe Modernization Service (Managed Runtime Environment experience) explore AWS Mainframe Modernization Service (Self-Managed Experience). Existing customers can continue to use the service as normal. For more information, see AWS Mainframe Modernization availability change.

The information about the maintenance schedule.

Contents

endTime

The time the scheduled maintenance is to end.

Type: Timestamp

Required: No

startTime

The time the scheduled maintenance is to start.

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

PendingMaintenance

> **Important**
>
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The scheduled maintenance for a runtime engine.

Contents

engineVersion

The specific runtime engine that the maintenance schedule applies to.

Type: String

Required: No

schedule

The maintenance schedule for the runtime engine version.

Type: MaintenanceSchedule 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

PoAttributes

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The supported properties for a PO type data set.

Contents

format

The format of the data set records.

Type: String

Required: Yes

memberFileExtensions

An array containing one or more filename extensions, allowing you to specify which files to be included as PDS member.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Pattern: `\S{1,20}`

Required: Yes

encoding

The character set encoding of the data 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

PoDetailAttributes

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The supported properties for a PO type data set.

Contents

encoding

The character set encoding of the data set.

Type: String

Required: Yes

format

The format of the data set records.

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

PrimaryKey

> **Important**
>
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The primary key for a KSDS data set.

Contents

length

A strictly positive integer value representing the length of the primary key.

Type: Integer

Required: Yes

offset

A positive integer value representing the offset to mark the start of the primary key in the record byte array.

Type: Integer

Required: Yes

name

A name for the Primary Key.

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

PsAttributes

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The supported properties for a PS type data set.

Contents

format

The format of the data set records.

Type: String

Required: Yes

encoding

The character set encoding of the data 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

PsDetailAttributes

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The supported properties for a PS type data set.

Contents

encoding

The character set encoding of the data set.

Type: String

Required: Yes

format

The format of the data set records.

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

RecordLength

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The length of the records in the data set.

Contents

max

The maximum record length. In case of fixed, both minimum and maximum are the same.

Type: Integer

Required: Yes

min

The minimum record length of a record.

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

RestartBatchJobIdentifier

> **Important**
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An identifier for the `StartBatchJob` API to show that it is a restart operation.

Contents

executionId

The `executionId` from the `StartBatchJob` response when the job ran for the first time.

Type: String

Pattern: `\S{1,80}`

Required: Yes

jobStepRestartMarker

The step/procedure step information for a restart batch job operation.

Type: JobStepRestartMarker 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

S3BatchJobIdentifier

A batch job identifier in which the batch jobs to run are identified by an Amazon S3 location.

Contents

bucket

The Amazon S3 bucket that contains the batch job definitions.

Type: String

Required: Yes

identifier

Identifies the batch job definition. This identifier can also point to any batch job definition that already exists in the application or to one of the batch job definitions within the directory that is specified in `keyPrefix`.

Type: JobIdentifier object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

keyPrefix

The key prefix that specifies the path to the folder in the S3 bucket that has the batch job definitions.

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

ScriptBatchJobDefinition

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A batch job definition contained in a script.

Contents

scriptName

The name of the script containing the batch job definition.

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

ScriptBatchJobIdentifier

> **Important**
>
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A batch job identifier in which the batch job to run is identified by the script name.

Contents

scriptName

The name of the script containing the batch job definition.

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

StorageConfiguration

> **Important**
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Defines the storage configuration for a runtime environment.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

efs

Defines the storage configuration for an Amazon EFS file system.

Type: EfsStorageConfiguration object

Required: No

fsx

Defines the storage configuration for an Amazon FSx file system.

Type: FsxStorageConfiguration 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

ValidationExceptionField

Contains information about a validation exception field.

Contents

message

The message of the exception field.

Type: String

Required: Yes

name

The name of the exception field.

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

VsamAttributes

> **Important**
>
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The attributes of a VSAM type data set.

Contents

format

The record format of the data set.

Type: String

Required: Yes

alternateKeys

The alternate key definitions, if any. A legacy dataset might not have any alternate key defined, but if those alternate keys definitions exist, provide them as some applications will make use of them.

Type: Array of AlternateKey objects

Required: No

compressed

Indicates whether indexes for this dataset are stored as compressed values. If you have a large data set (typically > 100 Mb), consider setting this flag to True.

Type: Boolean

Required: No

encoding

The character set used by the data set. Can be ASCII, EBCDIC, or unknown.

Type: String

Required: No

primaryKey

The primary key of the data set.

Type: PrimaryKey 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

VsamDetailAttributes

> **Important**
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The attributes of a VSAM type data set.

Contents

alternateKeys

The alternate key definitions, if any. A legacy dataset might not have any alternate key defined, but if those alternate keys definitions exist, provide them as some applications will make use of them.

Type: Array of AlternateKey objects

Required: No

cacheAtStartup

If set to True, enforces loading the data set into cache before it's used by the application.

Type: Boolean

Required: No

compressed

Indicates whether indexes for this dataset are stored as compressed values. If you have a large data set (typically > 100 Mb), consider setting this flag to True.

Type: Boolean

Required: No

encoding

The character set used by the data set. Can be ASCII, EBCDIC, or unknown.

Type: String

Pattern: `\S{1,20}`

Required: No

primaryKey

The primary key of the data set.

Type: PrimaryKey object

Required: No

recordFormat

The record format of the data set.

Type: String

Pattern: `\S{1,20}`

Required: No

See Also

For more information about using this API in 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: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

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

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

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

UnrecognizedClientException

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

UnknownOperationException

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 404

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400