
Amazon AppIntegrations

Welcome

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Amazon AppIntegrations: Welcome

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Welcome

The Amazon AppIntegrations service enables you to configure and reuse connections to external applications.

For information about how you can use external applications with Amazon Connect, see [Set up pre-built integrations](#) and [Deliver information to agents using Amazon Connect Wisdom](#) in the *Amazon Connect Administrator Guide*.

This document was last published on November 25, 2021.

Actions

The following actions are supported:

- [CreateDataIntegration](#) (p. 3)
- [CreateEventIntegration](#) (p. 8)
- [DeleteDataIntegration](#) (p. 12)
- [DeleteEventIntegration](#) (p. 14)
- [GetDataIntegration](#) (p. 16)
- [GetEventIntegration](#) (p. 20)
- [ListDataIntegrationAssociations](#) (p. 23)
- [ListDataIntegrations](#) (p. 26)
- [ListEventIntegrationAssociations](#) (p. 29)
- [ListEventIntegrations](#) (p. 32)
- [ListTagsForResource](#) (p. 35)
- [TagResource](#) (p. 37)
- [UntagResource](#) (p. 39)
- [UpdateDataIntegration](#) (p. 41)
- [UpdateEventIntegration](#) (p. 44)

CreateDataIntegration

Creates and persists a DataIntegration resource.

Note

You cannot create a DataIntegration association for a DataIntegration that has been previously associated. Use a different DataIntegration, or recreate the DataIntegration using the CreateDataIntegration API.

Request Syntax

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

{
  "ClientToken": "string",
  "Description": "string",
  "KmsKey": "string",
  "Name": "string",
  "ScheduleConfig": {
    "FirstExecutionFrom": "string",
    "Object": "string",
    "ScheduleExpression": "string"
  },
  "SourceURI": "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 (p. 3)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

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

Pattern: .*

Required: No

Description (p. 3)

A description of the DataIntegration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: .*

Required: No

KmsKey (p. 3)

The KMS key for the DataIntegration.

Type: String

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

Pattern: `.*\S.*`

Required: Yes

Name (p. 3)

The name of the DataIntegration.

Type: String

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

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

Required: Yes

ScheduleConfig (p. 3)

The name of the data and how often it should be pulled from the source.

Type: [ScheduleConfiguration \(p. 54\)](#) object

Required: Yes

SourceURI (p. 3)

The URI of the data source.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `^\w+:\w+\/\w+\/[\w/!@#+=.-]+`

Required: Yes

Tags (p. 3)

One or more tags.

Type: String to string map

Map Entries: Maximum number of 200 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-._: /]+`

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "Arn": "string",
  "ClientToken": "string",
  "Description": "string",
  "Id": "string",
  "KmsKey": "string",
  "Name": "string",
  "ScheduleConfiguration": {
    "FirstExecutionFrom": "string",
    "Object": "string",
    "ScheduleExpression": "string"
  },
  "SourceURI": "string",
  "Tags": {
    "string" : "string"
  }
}
```

Response Elements

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

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

Arn (p. 4)

The Amazon Resource Name (ARN)

Type: String

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

Pattern: `^arn:aws:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/_+=,@.-]{0,1023}$`

ClientToken (p. 4)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

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

Pattern: `.*`

Description (p. 4)

A description of the DataIntegration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `.*`

Id (p. 4)

A unique identifier.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

KmsKey (p. 4)

The KMS key for the DataIntegration.

Type: String

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

Pattern: .*S.*

Name (p. 4)

The name of the DataIntegration.

Type: String

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

Pattern: ^[a-zA-Z0-9\._\-]+

ScheduleConfiguration (p. 4)

The name of the data and how often it should be pulled from the source.

Type: [ScheduleConfiguration \(p. 54\)](#) object

SourceURI (p. 4)

The URI of the data source.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: ^\w+:\/\/\w+\/[\w\/!@#+=.-]+

Tags (p. 4)

One or more tags.

Type: String to string map

Map Entries: Maximum number of 200 items.

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

Key Pattern: ^(?!aws:)[a-zA-Z+-._:\/]+

Value Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 57\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

DuplicateResourceException

A resource with the specified name already exists.

HTTP Status Code: 409

InternalServerError

Request processing failed due to an error or failure with the service.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceQuotaExceededException

The allowed quota for the resource has been exceeded.

HTTP Status Code: 429

ThrottlingException

The throttling limit has been exceeded.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateEventIntegration

Creates an EventIntegration, given a specified name, description, and a reference to an Amazon EventBridge bus in your account and a partner event source that pushes events to that bus. No objects are created in the your account, only metadata that is persisted on the EventIntegration control plane.

Request Syntax

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

{
  "ClientToken": "string",
  "Description": "string",
  "EventBridgeBus": "string",
  "EventFilter": {
    "Source": "string"
  },
  "Name": "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 (p. 8)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

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

Pattern: .*

Required: No

Description (p. 8)

The description of the event integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: .*

Required: No

EventBridgeBus (p. 8)

The EventBridge bus.

Type: String

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

Pattern: `^[a-zA-Z0-9\\/\._\-]+$`

Required: Yes

EventFilter (p. 8)

The event filter.

Type: [EventFilter \(p. 49\)](#) object

Required: Yes

Name (p. 8)

The name of the event integration.

Type: String

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

Pattern: `^[a-zA-Z0-9\\/\._\-]+$`

Required: Yes

Tags (p. 8)

One or more tags.

Type: String to string map

Map Entries: Maximum number of 200 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+*=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

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

{
  "EventIntegrationArn": "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.

EventIntegrationArn (p. 9)

The Amazon Resource Name (ARN) of the event integration.

Type: String

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

Pattern: `^arn:aws:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[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 \(p. 57\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

DuplicateResourceException

A resource with the specified name already exists.

HTTP Status Code: 409

InternalServiceError

Request processing failed due to an error or failure with the service.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceQuotaExceededException

The allowed quota for the resource has been exceeded.

HTTP Status Code: 429

ThrottlingException

The throttling limit has been exceeded.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

DeleteDataIntegration

Deletes the DataIntegration. Only DataIntegrations that don't have any DataIntegrationAssociations can be deleted. Deleting a DataIntegration also deletes the underlying Amazon AppFlow flow and service linked role.

Note

You cannot create a DataIntegration association for a DataIntegration that has been previously associated. Use a different DataIntegration, or recreate the DataIntegration using the [CreateDataIntegration](#) API.

Request Syntax

```
DELETE /dataIntegrations/Identifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Identifier (p. 12)

A unique identifier for the DataIntegration.

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

Pattern: `.*\S.*`

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 \(p. 57\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

Request processing failed due to an error or failure with the service.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The throttling limit has been exceeded.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteEventIntegration

Deletes the specified existing event integration. If the event integration is associated with clients, the request is rejected.

Request Syntax

```
DELETE /eventIntegrations/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name (p. 14)

The name of the event integration.

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

Pattern: `^[a-zA-Z0-9\._\-]+$`

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 \(p. 57\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

Request processing failed due to an error or failure with the service.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The throttling limit has been exceeded.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetDataIntegration

Returns information about the DataIntegration.

Note

You cannot create a DataIntegration association for a DataIntegration that has been previously associated. Use a different DataIntegration, or recreate the DataIntegration using the [CreateDataIntegration](#) API.

Request Syntax

```
GET /dataIntegrations/Identifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Identifier (p. 16)

A unique identifier.

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

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "Arn": "string",
  "Description": "string",
  "Id": "string",
  "KmsKey": "string",
  "Name": "string",
  "ScheduleConfiguration": {
    "FirstExecutionFrom": "string",
    "Object": "string",
    "ScheduleExpression": "string"
  },
  "SourceURI": "string",
  "Tags": {
    "string" : "string"
  }
}
```

Response Elements

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

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

Arn (p. 16)

The Amazon Resource Name (ARN) for the DataIntegration.

Type: String

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

Pattern: `^arn:aws:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=@.-]{0,1023}$`

Description (p. 16)

The KMS key for the DataIntegration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `.*`

Id (p. 16)

A unique identifier.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

KmsKey (p. 16)

The KMS key for the DataIntegration.

Type: String

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

Pattern: `.*\S.*`

Name (p. 16)

The name of the DataIntegration.

Type: String

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

Pattern: `^[a-zA-Z0-9\._\-]+$`

ScheduleConfiguration (p. 16)

The name of the data and how often it should be pulled from the source.

Type: [ScheduleConfiguration \(p. 54\)](#) object

SourceURI (p. 16)

The URI of the data source.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `^\w+:\w+\/\w+\/[\w/!@#+=.-]+$`

Tags (p. 16)

One or more tags.

Type: String to string map

Map Entries: Maximum number of 200 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-._: /]+`

Value Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 57\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

Request processing failed due to an error or failure with the service.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The throttling limit has been exceeded.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetEventIntegration

Returns information about the event integration.

Request Syntax

```
GET /eventIntegrations/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name (p. 20)

The name of the event integration.

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

Pattern: `^[a-zA-Z0-9\._\-]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "Description": "string",
  "EventBridgeBus": "string",
  "EventFilter": {
    "Source": "string"
  },
  "EventIntegrationArn": "string",
  "Name": "string",
  "Tags": {
    "string" : "string"
  }
}
```

Response Elements

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

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

Description (p. 20)

The description of the event integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: .*

EventBridgeBus (p. 20)

The EventBridge bus.

Type: String

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

Pattern: `^[a-zA-Z0-9\\/\._\-]+`\$

EventFilter (p. 20)

The event filter.

Type: [EventFilter \(p. 49\)](#) object

EventIntegrationArn (p. 20)

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

Type: String

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

Pattern: `^arn:aws:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=@.-]{0,1023}`\$

Name (p. 20)

The name of the event integration.

Type: String

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

Pattern: `^[a-zA-Z0-9\\/\._\-]+`\$

Tags (p. 20)

One or more tags.

Type: String to string map

Map Entries: Maximum number of 200 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-._: /]+$`

Value Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 57\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

Request processing failed due to an error or failure with the service.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The throttling limit has been exceeded.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListDataIntegrationAssociations

Returns a paginated list of DataIntegration associations in the account.

Note

You cannot create a DataIntegration association for a DataIntegration that has been previously associated. Use a different DataIntegration, or recreate the DataIntegration using the [CreateDataIntegration](#) API.

Request Syntax

```
GET /dataIntegrations/Identifier/associations?maxResults=MaxResults&nextToken=NextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Identifier (p. 23)

A unique identifier for the DataIntegration.

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

Pattern: `.*\S.*`

Required: Yes

MaxResults (p. 23)

The maximum number of results to return per page.

Valid Range: Minimum value of 1. Maximum value of 50.

NextToken (p. 23)

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `.*`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "DataIntegrationAssociations": [
    {
      "ClientId": "string",
```

```
        "DataIntegrationArn": "string",  
        "DataIntegrationAssociationArn": "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.

DataIntegrationAssociations (p. 23)

The Amazon Resource Name (ARN) and unique ID of the DataIntegration association.

Type: Array of [DataIntegrationAssociationSummary](#) (p. 47) objects

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

NextToken (p. 23)

If there are additional results, this is the token for the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: .*

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 57).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

Request processing failed due to an error or failure with the service.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The throttling limit has been exceeded.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListDataIntegrations

Returns a paginated list of DataIntegrations in the account.

Note

You cannot create a DataIntegration association for a DataIntegration that has been previously associated. Use a different DataIntegration, or recreate the DataIntegration using the [CreateDataIntegration](#) API.

Request Syntax

```
GET /dataIntegrations?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults (p. 26)

The maximum number of results to return per page.

Valid Range: Minimum value of 1. Maximum value of 50.

NextToken (p. 26)

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: .*

Request Body

The request does not have a request body.

Response Syntax

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

{
  "DataIntegrations": [
    {
      "Arn": "string",
      "Name": "string",
      "SourceURI": "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.

DataIntegrations (p. 26)

The DataIntegrations associated with this account.

Type: Array of [DataIntegrationSummary \(p. 48\)](#) objects

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

NextToken (p. 26)

If there are additional results, this is the token for the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: .*

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 57\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

Request processing failed due to an error or failure with the service.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The throttling limit has been exceeded.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListEventIntegrationAssociations

Returns a paginated list of event integration associations in the account.

Request Syntax

```
GET /eventIntegrations/Name/associations?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name (p. 29)

The name of the event integration.

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

Pattern: `^[a-zA-Z0-9\._\-]+$`

Required: Yes

MaxResults (p. 29)

The maximum number of results to return per page.

Valid Range: Minimum value of 1. Maximum value of 50.

NextToken (p. 29)

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `.*`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "EventIntegrationAssociations": [
    {
      "ClientAssociationMetadata": {
        "string": "string"
      },
      "ClientId": "string",
      "EventBridgeRuleName": "string",
      "EventIntegrationAssociationArn": "string",
      "EventIntegrationAssociationId": "string",
```

```
    "EventIntegrationName": "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.

EventIntegrationAssociations (p. 29)

The event integration associations.

Type: Array of [EventIntegrationAssociation \(p. 52\)](#) objects

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

NextToken (p. 29)

If there are additional results, this is the token for the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: .*

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 57\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServiceError

Request processing failed due to an error or failure with the service.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The throttling limit has been exceeded.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListEventIntegrations

Returns a paginated list of event integrations in the account.

Request Syntax

```
GET /eventIntegrations?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults (p. 32)

The maximum number of results to return per page.

Valid Range: Minimum value of 1. Maximum value of 50.

NextToken (p. 32)

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: .*

Request Body

The request does not have a request body.

Response Syntax

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

{
  "EventIntegrations": [
    {
      "Description": "string",
      "EventBridgeBus": "string",
      "EventFilter": {
        "Source": "string"
      },
      "EventIntegrationArn": "string",
      "Name": "string",
      "Tags": {
        "string": "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.

EventIntegrations (p. 32)

The event integrations.

Type: Array of [EventIntegration \(p. 50\)](#) objects

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

NextToken (p. 32)

If there are additional results, this is the token for the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: .*

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 57\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

Request processing failed due to an error or failure with the service.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ThrottlingException

The throttling limit has been exceeded.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

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 \(p. 35\)](#)

The Amazon Resource Name (ARN) of the resource.

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

Pattern: `^arn:aws:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[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 \(p. 35\)](#)

Information about the tags.

Type: String to string map

Map Entries: Maximum number of 200 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-._: /]+$`

Value Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 57\)](#).

InternalServerError

Request processing failed due to an error or failure with the service.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The throttling limit has been exceeded.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Adds the specified 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 (p. 37)

The Amazon Resource Name (ARN) of the resource.

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

Pattern: `^arn:aws:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=@.-]{0,1023}$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags (p. 37)

One or more tags.

Type: String to string map

Map Entries: Maximum number of 200 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-._: /]+`

Value Length Constraints: 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 \(p. 57\)](#).

InternalServerError

Request processing failed due to an error or failure with the service.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The throttling limit has been exceeded.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Removes the specified 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 (p. 39)

The Amazon Resource Name (ARN) of the resource.

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

Pattern: `^arn:aws:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=@.-]{0,1023}$`

Required: Yes

tagKeys (p. 39)

The tag keys.

Array Members: Minimum number of 1 item. Maximum number of 200 items.

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

Pattern: `^(?!aws:)[a-zA-Z+-._: /]+$`

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 \(p. 57\)](#).

InternalServerError

Request processing failed due to an error or failure with the service.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The throttling limit has been exceeded.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateDataIntegration

Updates the description of a DataIntegration.

Note

You cannot create a DataIntegration association for a DataIntegration that has been previously associated. Use a different DataIntegration, or recreate the DataIntegration using the [CreateDataIntegration](#) API.

Request Syntax

```
PATCH /dataIntegrations/Identifier HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request uses the following URI parameters.

Identifier (p. 41)

A unique identifier for the DataIntegration.

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

Pattern: `.*\S.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 41)

A description of the DataIntegration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `.*`

Required: No

Name (p. 41)

The name of the DataIntegration.

Type: String

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

Pattern: `^[a-zA-Z0-9\._\-]+`

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 \(p. 57\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

Request processing failed due to an error or failure with the service.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The throttling limit has been exceeded.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

UpdateEventIntegration

Updates the description of an event integration.

Request Syntax

```
PATCH /eventIntegrations/Name HTTP/1.1  
Content-type: application/json
```

```
{  
  "Description": "string"  
}
```

URI Request Parameters

The request uses the following URI parameters.

Name (p. 44)

The name of the event integration.

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

Pattern: `^[a-zA-Z0-9\./\._\-\]+$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 44)

The description of the event integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `.*`

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 \(p. 57\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

Request processing failed due to an error or failure with the service.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The throttling limit has been exceeded.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Data Types

The Amazon AppIntegrations Service 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:

- [DataIntegrationAssociationSummary](#) (p. 47)
- [DataIntegrationSummary](#) (p. 48)
- [EventFilter](#) (p. 49)
- [EventIntegration](#) (p. 50)
- [EventIntegrationAssociation](#) (p. 52)
- [ScheduleConfiguration](#) (p. 54)

DataIntegrationAssociationSummary

Summary information about the DataIntegration association.

Contents

ClientId

The identifier for the client that is associated with the DataIntegration association.

Type: String

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

Pattern: .*

Required: No

DataIntegrationArn

The Amazon Resource Name (ARN) of the DataIntegration.

Type: String

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

Pattern: `^arn:aws:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=@.-]{0,1023}$`

Required: No

DataIntegrationAssociationArn

The Amazon Resource Name (ARN) of the DataIntegration association.

Type: String

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

Pattern: `^arn:aws:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=@.-]{0,1023}$`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DataIntegrationSummary

Summary information about the DataIntegration.

Contents

Arn

The Amazon Resource Name (ARN) of the DataIntegration.

Type: String

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

Pattern: `^arn:aws:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=@.-]{0,1023}$`

Required: No

Name

The name of the DataIntegration.

Type: String

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

Pattern: `^[a-zA-Z0-9\\/\._\-]+$`

Required: No

SourceURI

The URI of the data source.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `^\w+\\:\/\w+\/[\w/!@#+=.-]+$`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

EventFilter

The event filter.

Contents

Source

The source of the events.

Type: String

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

Pattern: `^aws\.partner\/.*$`

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

EventIntegration

The event integration.

Contents

Description

The event integration description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: .*

Required: No

EventBridgeBus

The Amazon EventBridge bus for the event integration.

Type: String

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

Pattern: ^[a-zA-Z0-9\._\-]+\$

Required: No

EventFilter

The event integration filter.

Type: [EventFilter](#) (p. 49) object

Required: No

EventIntegrationArn

The Amazon Resource Name (ARN) of the event integration.

Type: String

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

Pattern: ^arn:aws:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=@.-]{0,1023}\$

Required: No

Name

The name of the event integration.

Type: String

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

Pattern: ^[a-zA-Z0-9\._\-]+\$

Required: No

Tags

The tags.

Type: String to string map

Map Entries: Maximum number of 200 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+ -= ._: /]+$`

Value Length Constraints: Maximum length of 256.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

EventIntegrationAssociation

The event integration association.

Contents

ClientAssociationMetadata

The metadata associated with the client.

Type: String to string map

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

Key Pattern: `.*\S.*`

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

Value Pattern: `.*\S.*`

Required: No

ClientId

The identifier for the client that is associated with the event integration.

Type: String

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

Pattern: `.*`

Required: No

EventBridgeRuleName

The name of the EventBridge rule.

Type: String

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

Pattern: `^[a-zA-Z0-9\./\._\-\]+$`

Required: No

EventIntegrationAssociationArn

The Amazon Resource Name (ARN) for the event integration association.

Type: String

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

Pattern: `^arn:aws:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9_/.-]{0,1023}$`

Required: No

EventIntegrationAssociationId

The identifier for the event integration association.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

EventIntegrationName

The name of the event integration.

Type: String

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

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

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ScheduleConfiguration

The name of the data and how often it should be pulled from the source.

Contents

FirstExecutionFrom

The start date for objects to import in the first flow run as an Unix/epoch timestamp in milliseconds or in ISO-8601 format.

Type: String

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

Pattern: `.*\S.*`

Required: Yes

Object

The name of the object to pull from the data source.

Type: String

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

Pattern: `^[a-zA-Z0-9\._\-]+`

Required: Yes

ScheduleExpression

How often the data should be pulled from data source.

Type: String

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

Pattern: `.*\S.*`

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 Go](#)
- [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 [Signature Version 4 Signing Process](#) in the *Amazon Web Services General Reference*.

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 [Task 2: Create a String to Sign for Signature Version 4](#) in the *Amazon Web Services General Reference*.

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'THHMMSS'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 [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

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 Security Token Service, go to [AWS Services That Work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, 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 [Task 1: Create a Canonical Request For Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

InvalidQueryParameter

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400