



API Reference

# Amazon MSK Connect



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# Amazon MSK Connect: API Reference

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# Welcome

This document was last published on January 8, 2026.

# Actions

The following actions are supported:

- [CreateConnector](#)
- [CreateCustomPlugin](#)
- [CreateWorkerConfiguration](#)
- [DeleteConnector](#)
- [DeleteCustomPlugin](#)
- [DeleteWorkerConfiguration](#)
- [DescribeConnector](#)
- [DescribeConnectorOperation](#)
- [DescribeCustomPlugin](#)
- [DescribeWorkerConfiguration](#)
- [ListConnectorOperations](#)
- [ListConnectors](#)
- [ListCustomPlugins](#)
- [ListTagsForResource](#)
- [ListWorkerConfigurations](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateConnector](#)

# CreateConnector

Creates a connector using the specified properties.

## Request Syntax

```
POST /v1/connectors HTTP/1.1
Content-type: application/json
```

```
{
  "capacity": {
    "autoScaling": {
      "maxWorkerCount": number,
      "mcuCount": number,
      "minWorkerCount": number,
      "scaleInPolicy": {
        "cpuUtilizationPercentage": number
      },
      "scaleOutPolicy": {
        "cpuUtilizationPercentage": number
      }
    },
    "provisionedCapacity": {
      "mcuCount": number,
      "workerCount": number
    }
  },
  "connectorConfiguration": {
    "string" : "string"
  },
  "connectorDescription": "string",
  "connectorName": "string",
  "kafkaCluster": {
    "apacheKafkaCluster": {
      "bootstrapServers": "string",
      "vpc": {
        "securityGroups": [ "string" ],
        "subnets": [ "string" ]
      }
    }
  },
  "kafkaClusterClientAuthentication": {
    "authenticationType": "string"
  }
}
```

```
},
"kafkaClusterEncryptionInTransit": {
  "encryptionType": "string"
},
"kafkaConnectVersion": "string",
"logDelivery": {
  "workerLogDelivery": {
    "cloudWatchLogs": {
      "enabled": boolean,
      "logGroup": "string"
    },
    "firehose": {
      "deliveryStream": "string",
      "enabled": boolean
    },
    "s3": {
      "bucket": "string",
      "enabled": boolean,
      "prefix": "string"
    }
  }
},
"networkType": "string",
"plugins": [
  {
    "customPlugin": {
      "customPluginArn": "string",
      "revision": number
    }
  }
],
"serviceExecutionRoleArn": "string",
"tags": {
  "string" : "string"
},
"workerConfiguration": {
  "revision": number,
  "workerConfigurationArn": "string"
}
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### capacity

Information about the capacity allocated to the connector. Exactly one of the two properties must be specified.

Type: [Capacity](#) object

Required: Yes

### connectorConfiguration

A map of keys to values that represent the configuration for the connector.

Type: String to string map

Required: Yes

### connectorDescription

A summary description of the connector.

Type: String

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

Required: No

### connectorName

The name of the connector.

Type: String

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

Required: Yes

## **kafkaCluster**

Specifies which Apache Kafka cluster to connect to.

Type: [KafkaCluster](#) object

Required: Yes

## **kafkaClusterClientAuthentication**

Details of the client authentication used by the Apache Kafka cluster.

Type: [KafkaClusterClientAuthentication](#) object

Required: Yes

## **kafkaClusterEncryptionInTransit**

Details of encryption in transit to the Apache Kafka cluster.

Type: [KafkaClusterEncryptionInTransit](#) object

Required: Yes

## **kafkaConnectVersion**

The version of Kafka Connect. It has to be compatible with both the Apache Kafka cluster's version and the plugins.

Type: String

Required: Yes

## **logDelivery**

Details about log delivery.

Type: [LogDelivery](#) object

Required: No

## **networkType**

The network type of the connector. It gives connectors connectivity to either IPv4 (IPV4) or IPv4 and IPv6 (DUAL) destinations. Defaults to IPV4.

Type: String

Valid Values: IPV4 | DUAL

Required: No

## plugins

### Important

Amazon MSK Connect does not currently support specifying multiple plugins as a list. To use more than one plugin for your connector, you can create a single custom plugin using a ZIP file that bundles multiple plugins together.

Specifies which plugin to use for the connector. You must specify a single-element list containing one customPlugin object.

Type: Array of [Plugin](#) objects

Required: Yes

## serviceExecutionRoleArn

The Amazon Resource Name (ARN) of the IAM role used by the connector to access the Amazon Web Services resources that it needs. The types of resources depends on the logic of the connector. For example, a connector that has Amazon S3 as a destination must have permissions that allow it to write to the S3 destination bucket.

Type: String

Required: Yes

## tags

The tags you want to attach to the connector.

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.

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

Required: No

## workerConfiguration

Specifies which worker configuration to use with the connector.

Type: [WorkerConfiguration](#) object

Required: No

## Response Syntax

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

{
  "connectorArn": "string",
  "connectorName": "string",
  "connectorState": "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.

### connectorArn

The Amazon Resource Name (ARN) that Amazon assigned to the connector.

Type: String

### connectorName

The name of the connector.

Type: String

### connectorState

The state of the connector.

Type: String

Valid Values: RUNNING | CREATING | UPDATING | DELETING | FAILED

## Errors

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

### BadRequestException

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

### ConflictException

HTTP Status Code 409: Conflict. A resource with this name already exists. Retry your request with another name.

HTTP Status Code: 409

### ForbiddenException

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

### InternalServerErrorException

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

### NotFoundException

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

### ServiceUnavailableException

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

### **TooManyRequestsException**

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

### **UnauthorizedException**

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

HTTP Status Code: 401

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateCustomPlugin

Creates a custom plugin using the specified properties.

## Request Syntax

```
POST /v1/custom-plugins HTTP/1.1
Content-type: application/json

{
  "contentType": "string",
  "description": "string",
  "location": {
    "s3Location": {
      "bucketArn": "string",
      "fileKey": "string",
      "objectVersion": "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.

### contentType

The type of the plugin file.

Type: String

Valid Values: JAR | ZIP

Required: Yes

## description

A summary description of the custom plugin.

Type: String

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

Required: No

## location

Information about the location of a custom plugin.

Type: [CustomPluginLocation](#) object

Required: Yes

## name

The name of the custom plugin.

Type: String

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

Required: Yes

## tags

The tags you want to attach to the custom plugin.

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.

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

Required: No

## Response Syntax

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

```
{
  "customPluginArn": "string",
  "customPluginState": "string",
  "name": "string",
  "revision": 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.

### customPluginArn

The Amazon Resource Name (ARN) that Amazon assigned to the custom plugin.

Type: String

### customPluginState

The state of the custom plugin.

Type: String

Valid Values: CREATING | CREATE\_FAILED | ACTIVE | UPDATING | UPDATE\_FAILED | DELETING

### name

The name of the custom plugin.

Type: String

### revision

The revision of the custom plugin.

Type: Long

## Errors

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

## **BadRequestException**

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

## **ConflictException**

HTTP Status Code 409: Conflict. A resource with this name already exists. Retry your request with another name.

HTTP Status Code: 409

## **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

## **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

## **NotFoundException**

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

## **ServiceUnavailableException**

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

## **TooManyRequestsException**

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

## UnauthorizedException

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

HTTP Status Code: 401

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateWorkerConfiguration

Creates a worker configuration using the specified properties.

## Request Syntax

```
POST /v1/worker-configurations HTTP/1.1
Content-type: application/json
```

```
{
  "description": "string",
  "name": "string",
  "propertiesFileContent": "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.

### description

A summary description of the worker configuration.

Type: String

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

Required: No

### name

The name of the worker configuration.

Type: String

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

Required: Yes

### propertiesFileContent

Base64 encoded contents of connect-distributed.properties file.

Type: String

Required: Yes

### tags

The tags you want to attach to the worker configuration.

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.

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

Required: No

## Response Syntax

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

{
  "creationTime": "string",
  "latestRevision": {
    "creationTime": "string",
    "description": "string",
    "revision": number
  },
  "name": "string",
  "workerConfigurationArn": "string",
  "workerConfigurationState": "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.

### creationTime

The time that the worker configuration was created.

Type: Timestamp

### latestRevision

The latest revision of the worker configuration.

Type: [WorkerConfigurationRevisionSummary](#) object

### name

The name of the worker configuration.

Type: String

### workerConfigurationArn

The Amazon Resource Name (ARN) that Amazon assigned to the worker configuration.

Type: String

### workerConfigurationState

The state of the worker configuration.

Type: String

Valid Values: ACTIVE | DELETING

## Errors

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

### **BadRequestException**

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

## **ConflictException**

HTTP Status Code 409: Conflict. A resource with this name already exists. Retry your request with another name.

HTTP Status Code: 409

## **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

## **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

## **NotFoundException**

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

## **ServiceUnavailableException**

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

## **TooManyRequestsException**

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

## **UnauthorizedException**

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

HTTP Status Code: 401

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteConnector

Deletes the specified connector.

## Request Syntax

```
DELETE /v1/connectors/connectorArn?currentVersion=currentVersion HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### connectorArn

The Amazon Resource Name (ARN) of the connector that you want to delete.

Required: Yes

### currentVersion

The current version of the connector that you want to delete.

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "connectorArn": "string",
  "connectorState": "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.

### connectorArn

The Amazon Resource Name (ARN) of the connector that you requested to delete.

Type: String

### connectorState

The state of the connector that you requested to delete.

Type: String

Valid Values: RUNNING | CREATING | UPDATING | DELETING | FAILED

## Errors

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

### **BadRequestException**

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

### **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

### **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

### **NotFoundException**

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

### **ServiceUnavailableException**

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

### **TooManyRequestsException**

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

### **UnauthorizedException**

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

HTTP Status Code: 401

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteCustomPlugin

Deletes a custom plugin.

## Request Syntax

```
DELETE /v1/custom-plugins/customPluginArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### customPluginArn

The Amazon Resource Name (ARN) of the custom plugin that you want to delete.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "customPluginArn": "string",
  "customPluginState": "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.

### customPluginArn

The Amazon Resource Name (ARN) of the custom plugin that you requested to delete.

Type: String

### customPluginState

The state of the custom plugin.

Type: String

Valid Values: CREATING | CREATE\_FAILED | ACTIVE | UPDATING | UPDATE\_FAILED | DELETING

## Errors

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

### **BadRequestException**

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

### **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

### **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

### **NotFoundException**

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

### **ServiceUnavailableException**

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

### **TooManyRequestsException**

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

### **UnauthorizedException**

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

HTTP Status Code: 401

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteWorkerConfiguration

Deletes the specified worker configuration.

## Request Syntax

```
DELETE /v1/worker-configurations/workerConfigurationArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [workerConfigurationArn](#)

The Amazon Resource Name (ARN) of the worker configuration that you want to delete.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "workerConfigurationArn": "string",
  "workerConfigurationState": "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.

### [workerConfigurationArn](#)

The Amazon Resource Name (ARN) of the worker configuration that you requested to delete.

Type: String

### **workerConfigurationState**

The state of the worker configuration.

Type: String

Valid Values: ACTIVE | DELETING

## **Errors**

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

### **BadRequestException**

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

### **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

### **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

### **NotFoundException**

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

### **ServiceUnavailableException**

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

### **TooManyRequestsException**

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

### **UnauthorizedException**

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

HTTP Status Code: 401

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeConnector

Returns summary information about the connector.

## Request Syntax

```
GET /v1/connectors/connectorArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### connectorArn

The Amazon Resource Name (ARN) of the connector that you want to describe.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "capacity": {
    "autoScaling": {
      "maxWorkerCount": number,
      "mcuCount": number,
      "minWorkerCount": number,
      "scaleInPolicy": {
        "cpuUtilizationPercentage": number
      },
      "scaleOutPolicy": {
        "cpuUtilizationPercentage": number
      }
    },
    "provisionedCapacity": {
```

```

        "mcuCount": number,
        "workerCount": number
    }
},
"connectorArn": "string",
"connectorConfiguration": {
    "string" : "string"
},
"connectorDescription": "string",
"connectorName": "string",
"connectorState": "string",
"creationTime": "string",
"currentVersion": "string",
"kafkaCluster": {
    "apacheKafkaCluster": {
        "bootstrapServers": "string",
        "vpc": {
            "securityGroups": [ "string" ],
            "subnets": [ "string" ]
        }
    }
},
"kafkaClusterClientAuthentication": {
    "authenticationType": "string"
},
"kafkaClusterEncryptionInTransit": {
    "encryptionType": "string"
},
"kafkaConnectVersion": "string",
"logDelivery": {
    "workerLogDelivery": {
        "cloudWatchLogs": {
            "enabled": boolean,
            "logGroup": "string"
        },
        "firehose": {
            "deliveryStream": "string",
            "enabled": boolean
        },
        "s3": {
            "bucket": "string",
            "enabled": boolean,
            "prefix": "string"
        }
    }
}

```

```
    }
  },
  "networkType": "string",
  "plugins": [
    {
      "customPlugin": {
        "customPluginArn": "string",
        "revision": number
      }
    }
  ],
  "serviceExecutionRoleArn": "string",
  "stateDescription": {
    "code": "string",
    "message": "string"
  },
  "workerConfiguration": {
    "revision": number,
    "workerConfigurationArn": "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.

### capacity

Information about the capacity of the connector, whether it is auto scaled or provisioned.

Type: [CapacityDescription](#) object

### connectorArn

The Amazon Resource Name (ARN) of the connector.

Type: String

### connectorConfiguration

A map of keys to values that represent the configuration for the connector.

Type: String to string map

### **connectorDescription**

A summary description of the connector.

Type: String

### **connectorName**

The name of the connector.

Type: String

### **connectorState**

The state of the connector.

Type: String

Valid Values: RUNNING | CREATING | UPDATING | DELETING | FAILED

### **creationTime**

The time the connector was created.

Type: Timestamp

### **currentVersion**

The current version of the connector.

Type: String

### **kafkaCluster**

The Apache Kafka cluster that the connector is connected to.

Type: [KafkaClusterDescription](#) object

### **kafkaClusterClientAuthentication**

The type of client authentication used to connect to the Apache Kafka cluster. The value is NONE when no client authentication is used.

Type: [KafkaClusterClientAuthenticationDescription](#) object

### **kafkaClusterEncryptionInTransit**

Details of encryption in transit to the Apache Kafka cluster.

Type: [KafkaClusterEncryptionInTransitDescription](#) object

### [kafkaConnectVersion](#)

The version of Kafka Connect. It has to be compatible with both the Apache Kafka cluster's version and the plugins.

Type: String

### [logDelivery](#)

Details about delivering logs to Amazon CloudWatch Logs.

Type: [LogDeliveryDescription](#) object

### [networkType](#)

The network type of the connector. It gives connectors connectivity to either IPv4 (IPV4) or IPv4 and IPv6 (DUAL) destinations. Defaults to IPV4.

Type: String

Valid Values: IPV4 | DUAL

### [plugins](#)

Specifies which plugins were used for this connector.

Type: Array of [PluginDescription](#) objects

### [serviceExecutionRoleArn](#)

The Amazon Resource Name (ARN) of the IAM role used by the connector to access Amazon Web Services resources.

Type: String

### [stateDescription](#)

Details about the state of a connector.

Type: [StateDescription](#) object

### [workerConfiguration](#)

Specifies which worker configuration was used for the connector.

Type: [WorkerConfigurationDescription](#) object

## Errors

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

### **BadRequestException**

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

### **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

### **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

### **NotFoundException**

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

### **ServiceUnavailableException**

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

### **TooManyRequestsException**

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

### **UnauthorizedException**

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

## HTTP Status Code: 401

### See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeConnectorOperation

Returns information about the specified connector's operations.

## Request Syntax

```
GET /v1/connectorOperations/connectorOperationArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### connectorOperationArn

ARN of the connector operation to be described.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "connectorArn": "string",
  "connectorOperationArn": "string",
  "connectorOperationState": "string",
  "connectorOperationType": "string",
  "creationTime": "string",
  "endTime": "string",
  "errorInfo": {
    "code": "string",
    "message": "string"
  },
  "operationSteps": [
    {
      "stepState": "string",
```

```
    "stepType": "string"
  },
],
"originConnectorConfiguration": {
  "string" : "string"
},
"originWorkerSetting": {
  "capacity": {
    "autoScaling": {
      "maxWorkerCount": number,
      "mcuCount": number,
      "minWorkerCount": number,
      "scaleInPolicy": {
        "cpuUtilizationPercentage": number
      },
      "scaleOutPolicy": {
        "cpuUtilizationPercentage": number
      }
    },
    "provisionedCapacity": {
      "mcuCount": number,
      "workerCount": number
    }
  }
},
"targetConnectorConfiguration": {
  "string" : "string"
},
"targetWorkerSetting": {
  "capacity": {
    "autoScaling": {
      "maxWorkerCount": number,
      "mcuCount": number,
      "minWorkerCount": number,
      "scaleInPolicy": {
        "cpuUtilizationPercentage": number
      },
      "scaleOutPolicy": {
        "cpuUtilizationPercentage": number
      }
    },
    "provisionedCapacity": {
      "mcuCount": number,
      "workerCount": 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.

### connectorArn

The Amazon Resource Name (ARN) of the connector.

Type: String

### connectorOperationArn

The Amazon Resource Name (ARN) of the connector operation.

Type: String

### connectorOperationState

The state of the connector operation.

Type: String

Valid Values: PENDING | UPDATE\_IN\_PROGRESS | UPDATE\_COMPLETE | UPDATE\_FAILED  
| ROLLBACK\_IN\_PROGRESS | ROLLBACK\_FAILED | ROLLBACK\_COMPLETE

### connectorOperationType

The type of connector operation performed.

Type: String

Valid Values: UPDATE\_WORKER\_SETTING | UPDATE\_CONNECTOR\_CONFIGURATION |  
ISOLATE\_CONNECTOR | RESTORE\_CONNECTOR

### creationTime

The time when the operation was created.

Type: Timestamp

### endTime

The time when the operation ended.

Type: Timestamp

### errorInfo

Details about the state of a resource.

Type: [StateDescription](#) object

### operationSteps

The array of operation steps taken.

Type: Array of [ConnectorOperationStep](#) objects

### originConnectorConfiguration

The origin connector configuration.

Type: String to string map

### originWorkerSetting

The origin worker setting.

Type: [WorkerSetting](#) object

### targetConnectorConfiguration

The target connector configuration.

Type: String to string map

### targetWorkerSetting

The target worker setting.

Type: [WorkerSetting](#) object

## Errors

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

## **BadRequestException**

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

## **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

## **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

## **NotFoundException**

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

## **ServiceUnavailableException**

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

## **TooManyRequestsException**

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

## **UnauthorizedException**

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

HTTP Status Code: 401

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeCustomPlugin

A summary description of the custom plugin.

## Request Syntax

```
GET /v1/custom-plugins/customPluginArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### customPluginArn

Returns information about a custom plugin.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "creationTime": "string",
  "customPluginArn": "string",
  "customPluginState": "string",
  "description": "string",
  "latestRevision": {
    "contentType": "string",
    "creationTime": "string",
    "description": "string",
    "fileDescription": {
      "fileMd5": "string",
      "fileSize": number
    },
  },
  "location": {
```

```
    "s3Location": {
      "bucketArn": "string",
      "fileKey": "string",
      "objectVersion": "string"
    },
    "revision": number
  },
  "name": "string",
  "stateDescription": {
    "code": "string",
    "message": "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.

### [creationTime](#)

The time that the custom plugin was created.

Type: Timestamp

### [customPluginArn](#)

The Amazon Resource Name (ARN) of the custom plugin.

Type: String

### [customPluginState](#)

The state of the custom plugin.

Type: String

Valid Values: CREATING | CREATE\_FAILED | ACTIVE | UPDATING | UPDATE\_FAILED | DELETING

### [description](#)

The description of the custom plugin.

Type: String

### latestRevision

The latest successfully created revision of the custom plugin. If there are no successfully created revisions, this field will be absent.

Type: [CustomPluginRevisionSummary](#) object

### name

The name of the custom plugin.

Type: String

### stateDescription

Details about the state of a custom plugin.

Type: [StateDescription](#) object

## Errors

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

### **BadRequestException**

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

### **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

### **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

## NotFoundException

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

## ServiceUnavailableException

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

## TooManyRequestsException

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

## UnauthorizedException

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

HTTP Status Code: 401

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# DescribeWorkerConfiguration

Returns information about a worker configuration.

## Request Syntax

```
GET /v1/worker-configurations/workerConfigurationArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [workerConfigurationArn](#)

The Amazon Resource Name (ARN) of the worker configuration that you want to get information about.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "creationTime": "string",
  "description": "string",
  "latestRevision": {
    "creationTime": "string",
    "description": "string",
    "propertiesFileContent": "string",
    "revision": number
  },
  "name": "string",
  "workerConfigurationArn": "string",
  "workerConfigurationState": "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.

### [creationTime](#)

The time that the worker configuration was created.

Type: Timestamp

### [description](#)

The description of the worker configuration.

Type: String

### [latestRevision](#)

The latest revision of the custom configuration.

Type: [WorkerConfigurationRevisionDescription](#) object

### [name](#)

The name of the worker configuration.

Type: String

### [workerConfigurationArn](#)

The Amazon Resource Name (ARN) of the custom configuration.

Type: String

### [workerConfigurationState](#)

The state of the worker configuration.

Type: String

Valid Values: ACTIVE | DELETING

## Errors

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

### **BadRequestException**

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

### **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

### **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

### **NotFoundException**

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

### **ServiceUnavailableException**

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

### **TooManyRequestsException**

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

### **UnauthorizedException**

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

## HTTP Status Code: 401

### See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListConnectorOperations

Lists information about a connector's operation(s).

## Request Syntax

```
GET /v1/connectors/connectorArn/operations?maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### connectorArn

The Amazon Resource Name (ARN) of the connector for which to list operations.

Required: Yes

### maxResults

Maximum number of connector operations to fetch in one get request.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

If the response is truncated, it includes a NextToken. Send this NextToken in a subsequent request to continue listing from where it left off.

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "connectorOperations": [
    {
```

```
    "connectorOperationArn": "string",
    "connectorOperationState": "string",
    "connectorOperationType": "string",
    "creationTime": "string",
    "endTime": "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.

### connectorOperations

An array of connector operation descriptions.

Type: Array of [ConnectorOperationSummary](#) objects

### nextToken

If the response is truncated, it includes a NextToken. Send this NextToken in a subsequent request to continue listing from where it left off.

Type: String

## Errors

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

### **BadRequestException**

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

### **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

### **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

### **NotFoundException**

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

### **ServiceUnavailableException**

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

### **TooManyRequestsException**

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

### **UnauthorizedException**

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

HTTP Status Code: 401

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListConnectors

Returns a list of all the connectors in this account and Region. The list is limited to connectors whose name starts with the specified prefix. The response also includes a description of each of the listed connectors.

## Request Syntax

```
GET /v1/connectors?  
connectorNamePrefix=connectorNamePrefix&maxResults=maxResults&nextToken=nextToken  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### connectorNamePrefix

The name prefix that you want to use to search for and list connectors.

### maxResults

The maximum number of connectors to list in one response.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

If the response of a ListConnectors operation is truncated, it will include a NextToken. Send this NextToken in a subsequent request to continue listing from where the previous operation left off.

## Request Body

The request does not have a request body.

## Response Syntax

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

```
"connectors": [  
  {  
    "capacity": {  
      "autoScaling": {  
        "maxWorkerCount": number,  
        "mcuCount": number,  
        "minWorkerCount": number,  
        "scaleInPolicy": {  
          "cpuUtilizationPercentage": number  
        },  
        "scaleOutPolicy": {  
          "cpuUtilizationPercentage": number  
        }  
      },  
      "provisionedCapacity": {  
        "mcuCount": number,  
        "workerCount": number  
      }  
    },  
    "connectorArn": "string",  
    "connectorDescription": "string",  
    "connectorName": "string",  
    "connectorState": "string",  
    "creationTime": "string",  
    "currentVersion": "string",  
    "kafkaCluster": {  
      "apacheKafkaCluster": {  
        "bootstrapServers": "string",  
        "vpc": {  
          "securityGroups": [ "string" ],  
          "subnets": [ "string" ]  
        }  
      }  
    },  
    "kafkaClusterClientAuthentication": {  
      "authenticationType": "string"  
    },  
    "kafkaClusterEncryptionInTransit": {  
      "encryptionType": "string"  
    },  
    "kafkaConnectVersion": "string",  
    "logDelivery": {  
      "workerLogDelivery": {  
        "cloudWatchLogs": {
```

```

        "enabled": boolean,
        "logGroup": "string"
    },
    "firehose": {
        "deliveryStream": "string",
        "enabled": boolean
    },
    "s3": {
        "bucket": "string",
        "enabled": boolean,
        "prefix": "string"
    }
}
},
"networkType": "string",
"plugins": [
    {
        "customPlugin": {
            "customPluginArn": "string",
            "revision": number
        }
    }
],
"serviceExecutionRoleArn": "string",
"workerConfiguration": {
    "revision": number,
    "workerConfigurationArn": "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.

### connectors

An array of connector descriptions.

Type: Array of [ConnectorSummary](#) objects

## nextToken

If the response of a ListConnectors operation is truncated, it will include a NextToken. Send this NextToken in a subsequent request to continue listing from where it left off.

Type: String

## Errors

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

### **BadRequestException**

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

### **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

### **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

### **NotFoundException**

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

### **ServiceUnavailableException**

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

## TooManyRequestsException

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

## UnauthorizedException

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

HTTP Status Code: 401

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListCustomPlugins

Returns a list of all of the custom plugins in this account and Region.

## Request Syntax

```
GET /v1/custom-plugins?maxResults=maxResults&namePrefix=namePrefix&nextToken=nextToken
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum number of custom plugins to list in one response.

Valid Range: Minimum value of 1. Maximum value of 100.

### [namePrefix](#)

Lists custom plugin names that start with the specified text string.

### [nextToken](#)

If the response of a ListCustomPlugins operation is truncated, it will include a NextToken. Send this NextToken in a subsequent request to continue listing from where the previous operation left off.

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "customPlugins": [
    {
```

```

    "creationTime": "string",
    "customPluginArn": "string",
    "customPluginState": "string",
    "description": "string",
    "latestRevision": {
      "contentType": "string",
      "creationTime": "string",
      "description": "string",
      "fileDescription": {
        "fileMd5": "string",
        "fileSize": number
      },
      "location": {
        "s3Location": {
          "bucketArn": "string",
          "fileKey": "string",
          "objectVersion": "string"
        }
      },
      "revision": number
    },
    "name": "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.

### customPlugins

An array of custom plugin descriptions.

Type: Array of [CustomPluginSummary](#) objects

### nextToken

If the response of a ListCustomPlugins operation is truncated, it will include a NextToken. Send this NextToken in a subsequent request to continue listing from where the previous operation left off.

Type: String

## Errors

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

### **BadRequestException**

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

### **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

### **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

### **NotFoundException**

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

### **ServiceUnavailableException**

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

### **TooManyRequestsException**

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

## UnauthorizedException

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

HTTP Status Code: 401

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java 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

Lists all the tags attached to the specified resource.

## Request Syntax

```
GET /v1/tags/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the resource for which you want to list all attached tags.

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

Lists the tags attached to the specified resource in the corresponding request.

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.

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](#).

### **BadRequestException**

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

### **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

### **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

### **NotFoundException**

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

## **ServiceUnavailableException**

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

## **TooManyRequestsException**

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

## **UnauthorizedException**

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

HTTP Status Code: 401

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Returns a list of all of the worker configurations in this account and Region.

## Request Syntax

```
GET /v1/worker-configurations?  
maxResults=maxResults&namePrefix=namePrefix&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

## maxResults

The maximum number of worker configurations to list in one response.

Valid Range: Minimum value of 1. Maximum value of 100.

**namePrefix**

Lists worker configuration names that start with the specified text string.

nextToken

If the response of a `ListWorkerConfigurations` operation is truncated, it will include a `NextToken`. Send this `NextToken` in a subsequent request to continue listing from where the previous operation left off.

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "nextToken": "string",
  "workerConfigurations": [
```

```
{
  "creationTime": "string",
  "description": "string",
  "latestRevision": {
    "creationTime": "string",
    "description": "string",
    "revision": number
  },
  "name": "string",
  "workerConfigurationArn": "string",
  "workerConfigurationState": "string"
}
```

## Response Elements

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

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

### [nextToken](#)

If the response of a ListWorkerConfigurations operation is truncated, it will include a NextToken. Send this NextToken in a subsequent request to continue listing from where the previous operation left off.

Type: String

### [workerConfigurations](#)

An array of worker configuration descriptions.

Type: Array of [WorkerConfigurationSummary](#) objects

## Errors

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

### BadRequestException

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

### **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

### **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

### **NotFoundException**

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

### **ServiceUnavailableException**

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

### **TooManyRequestsException**

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

### **UnauthorizedException**

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

HTTP Status Code: 401

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java 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

Attaches tags to the specified resource.

## Request Syntax

```
POST /v1/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 to which you want to attach tags.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### tags

The tags that you want to attach 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.

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](#).

### **BadRequestException**

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

### **ConflictException**

HTTP Status Code 409: Conflict. A resource with this name already exists. Retry your request with another name.

HTTP Status Code: 409

### **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

### **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

### **NotFoundException**

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

### **ServiceUnavailableException**

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

### **TooManyRequestsException**

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

### **UnauthorizedException**

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

HTTP Status Code: 401

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UntagResource

Removes tags from the specified resource.

## Request Syntax

```
DELETE /v1/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 from which you want to remove tags.

Required: Yes

### tagKeys

The keys of the tags that you want to remove from the resource.

Array Members: Minimum number of 0 items. Maximum number of 200 items.

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

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](#).

### **BadRequestException**

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

### **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

### **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

### **NotFoundException**

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

### **ServiceUnavailableException**

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

### **TooManyRequestsException**

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

### **UnauthorizedException**

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

## HTTP Status Code: 401

### See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateConnector

Updates the specified connector. For request body, specify only one parameter: either capacity or connectorConfiguration.

## Request Syntax

```
PUT /v1/connectors/connectorArn?currentVersion=currentVersion HTTP/1.1
Content-type: application/json
```

```
{
  "capacity": {
    "autoScaling": {
      "maxWorkerCount": number,
      "mcuCount": number,
      "minWorkerCount": number,
      "scaleInPolicy": {
        "cpuUtilizationPercentage": number
      },
      "scaleOutPolicy": {
        "cpuUtilizationPercentage": number
      }
    },
    "provisionedCapacity": {
      "mcuCount": number,
      "workerCount": number
    }
  },
  "connectorConfiguration": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### connectorArn

The Amazon Resource Name (ARN) of the connector that you want to update.

Required: Yes

### currentVersion

The current version of the connector that you want to update.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### capacity

The target capacity.

Type: [CapacityUpdate](#) object

Required: No

### connectorConfiguration

A map of keys to values that represent the configuration for the connector.

Type: String to string map

Required: No

## Response Syntax

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

{
  "connectorArn": "string",
  "connectorOperationArn": "string",
  "connectorState": "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.

### connectorArn

The Amazon Resource Name (ARN) of the connector.

Type: String

### connectorOperationArn

The Amazon Resource Name (ARN) of the connector operation.

Type: String

### connectorState

The state of the connector.

Type: String

Valid Values: RUNNING | CREATING | UPDATING | DELETING | FAILED

## Errors

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

### **BadRequestException**

HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 400

### **ForbiddenException**

HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

HTTP Status Code: 403

### **InternalServerErrorException**

HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

HTTP Status Code: 500

## NotFoundException

HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.

HTTP Status Code: 404

## ServiceUnavailableException

HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

HTTP Status Code: 503

## TooManyRequestsException

HTTP Status Code 429: Limit exceeded. Resource limit reached.

HTTP Status Code: 429

## UnauthorizedException

HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

HTTP Status Code: 401

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java 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 Managed Streaming for Kafka Connect 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:

- [ApacheKafkaCluster](#)
- [ApacheKafkaClusterDescription](#)
- [AutoScaling](#)
- [AutoScalingDescription](#)
- [AutoScalingUpdate](#)
- [Capacity](#)
- [CapacityDescription](#)
- [CapacityUpdate](#)
- [CloudWatchLogsLogDelivery](#)
- [CloudWatchLogsLogDeliveryDescription](#)
- [ConnectorOperationStep](#)
- [ConnectorOperationSummary](#)
- [ConnectorSummary](#)
- [CustomPlugin](#)
- [CustomPluginDescription](#)
- [CustomPluginFileDescription](#)
- [CustomPluginLocation](#)
- [CustomPluginLocationDescription](#)
- [CustomPluginRevisionSummary](#)
- [CustomPluginSummary](#)

- [FirehoseLogDelivery](#)
- [FirehoseLogDeliveryDescription](#)
- [KafkaCluster](#)
- [KafkaClusterClientAuthentication](#)
- [KafkaClusterClientAuthenticationDescription](#)
- [KafkaClusterDescription](#)
- [KafkaClusterEncryptionInTransit](#)
- [KafkaClusterEncryptionInTransitDescription](#)
- [LogDelivery](#)
- [LogDeliveryDescription](#)
- [Plugin](#)
- [PluginDescription](#)
- [ProvisionedCapacity](#)
- [ProvisionedCapacityDescription](#)
- [ProvisionedCapacityUpdate](#)
- [S3Location](#)
- [S3LocationDescription](#)
- [S3LogDelivery](#)
- [S3LogDeliveryDescription](#)
- [ScaleInPolicy](#)
- [ScaleInPolicyDescription](#)
- [ScaleInPolicyUpdate](#)
- [ScaleOutPolicy](#)
- [ScaleOutPolicyDescription](#)
- [ScaleOutPolicyUpdate](#)
- [StateDescription](#)
- [Vpc](#)
- [VpcDescription](#)
- [WorkerConfiguration](#)
- [WorkerConfigurationDescription](#)

- [WorkerConfigurationRevisionDescription](#)
- [WorkerConfigurationRevisionSummary](#)
- [WorkerConfigurationSummary](#)
- [WorkerLogDelivery](#)
- [WorkerLogDeliveryDescription](#)
- [WorkerSetting](#)

# ApacheKafkaCluster

The details of the Apache Kafka cluster to which the connector is connected.

## Contents

### **bootstrapServers**

The bootstrap servers of the cluster.

Type: String

Required: Yes

### **vpc**

Details of an Amazon VPC which has network connectivity to the Apache Kafka cluster.

Type: [Vpc](#) 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](#)

# ApacheKafkaClusterDescription

The description of the Apache Kafka cluster to which the connector is connected.

## Contents

### **bootstrapServers**

The bootstrap servers of the cluster.

Type: String

Required: No

### **vpc**

Details of an Amazon VPC which has network connectivity to the Apache Kafka cluster.

Type: [VpcDescription](#) 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](#)

# AutoScaling

Specifies how the connector scales.

## Contents

### **maxWorkerCount**

The maximum number of workers allocated to the connector.

Type: Integer

Required: Yes

### **mcuCount**

The number of microcontroller units (MCUs) allocated to each connector worker. The valid values are 1,2,4,8.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 8.

Required: Yes

### **minWorkerCount**

The minimum number of workers allocated to the connector.

Type: Integer

Required: Yes

### **scaleInPolicy**

The scale-in policy for the connector.

Type: [ScaleInPolicy](#) object

Required: No

### **scaleOutPolicy**

The scale-out policy for the connector.

Type: [ScaleOutPolicy](#) 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](#)

# AutoScalingDescription

Information about the auto scaling parameters for the connector.

## Contents

### **maxWorkerCount**

The maximum number of workers allocated to the connector.

Type: Integer

Required: No

### **mcuCount**

The number of microcontroller units (MCUs) allocated to each connector worker. The valid values are 1,2,4,8.

Type: Integer

Required: No

### **minWorkerCount**

The minimum number of workers allocated to the connector.

Type: Integer

Required: No

### **scaleInPolicy**

The scale-in policy for the connector.

Type: [ScaleInPolicyDescription](#) object

Required: No

### **scaleOutPolicy**

The scale-out policy for the connector.>

Type: [ScaleOutPolicyDescription](#) 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](#)

# AutoScalingUpdate

The updates to the auto scaling parameters for the connector.

## Contents

### **maxWorkerCount**

The target maximum number of workers allocated to the connector.

Type: Integer

Required: Yes

### **mcuCount**

The target number of microcontroller units (MCUs) allocated to each connector worker. The valid values are 1,2,4,8.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 8.

Required: Yes

### **minWorkerCount**

The target minimum number of workers allocated to the connector.

Type: Integer

Required: Yes

### **scaleInPolicy**

The target scale-in policy for the connector.

Type: [ScaleInPolicyUpdate](#) object

Required: Yes

### **scaleOutPolicy**

The target scale-out policy for the connector.

Type: [ScaleOutPolicyUpdate](#) 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](#)

# Capacity

Information about the capacity of the connector, whether it is auto scaled or provisioned.

## Contents

### **autoScaling**

Information about the auto scaling parameters for the connector.

Type: [AutoScaling](#) object

Required: No

### **provisionedCapacity**

Details about a fixed capacity allocated to a connector.

Type: [ProvisionedCapacity](#) 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](#)

# CapacityDescription

A description of the connector's capacity.

## Contents

### **autoScaling**

Describes the connector's auto scaling capacity.

Type: [AutoScalingDescription](#) object

Required: No

### **provisionedCapacity**

Describes a connector's provisioned capacity.

Type: [ProvisionedCapacityDescription](#) 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](#)

# CapacityUpdate

The target capacity for the connector. The capacity can be auto scaled or provisioned.

## Contents

### autoScaling

The target auto scaling setting.

Type: [AutoScalingUpdate](#) object

Required: No

### provisionedCapacity

The target settings for provisioned capacity.

Type: [ProvisionedCapacityUpdate](#) 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](#)

# CloudWatchLogsLogDelivery

The settings for delivering connector logs to Amazon CloudWatch Logs.

## Contents

### **enabled**

Whether log delivery to Amazon CloudWatch Logs is enabled.

Type: Boolean

Required: Yes

### **logGroup**

The name of the CloudWatch log group that is the destination for log delivery.

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](#)

# CloudWatchLogsLogDeliveryDescription

A description of the log delivery settings.

## Contents

### **enabled**

Whether log delivery to Amazon CloudWatch Logs is enabled.

Type: Boolean

Required: No

### **logGroup**

The name of the CloudWatch log group that is the destination for log delivery.

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](#)

# ConnectorOperationStep

Details of a step that is involved in a connector's operation.

## Contents

### stepState

The step state of the operation.

Type: String

Valid Values: PENDING | IN\_PROGRESS | COMPLETED | FAILED | CANCELLED

Required: No

### stepType

The step type of the operation.

Type: String

Valid Values: INITIALIZE\_UPDATE | FINALIZE\_UPDATE | UPDATE\_WORKER\_SETTING | UPDATE\_CONNECTOR\_CONFIGURATION | VALIDATE\_UPDATE

Required: No

## See Also

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

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

# ConnectorOperationSummary

Summary of a connector operation.

## Contents

### **connectorOperationArn**

The Amazon Resource Name (ARN) of the connector operation.

Type: String

Required: No

### **connectorOperationState**

The state of the connector operation.

Type: String

Valid Values: PENDING | UPDATE\_IN\_PROGRESS | UPDATE\_COMPLETE | UPDATE\_FAILED  
| ROLLBACK\_IN\_PROGRESS | ROLLBACK\_FAILED | ROLLBACK\_COMPLETE

Required: No

### **connectorOperationType**

The type of connector operation performed.

Type: String

Valid Values: UPDATE\_WORKER\_SETTING | UPDATE\_CONNECTOR\_CONFIGURATION |  
ISOLATE\_CONNECTOR | RESTORE\_CONNECTOR

Required: No

### **creationTime**

The time when operation was created.

Type: Timestamp

Required: No

## endTime

The time when operation ended.

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](#)

# ConnectorSummary

Summary of a connector.

## Contents

### capacity

The connector's compute capacity settings.

Type: [CapacityDescription](#) object

Required: No

### connectorArn

The Amazon Resource Name (ARN) of the connector.

Type: String

Required: No

### connectorDescription

The description of the connector.

Type: String

Required: No

### connectorName

The name of the connector.

Type: String

Required: No

### connectorState

The state of the connector.

Type: String

Valid Values: RUNNING | CREATING | UPDATING | DELETING | FAILED

Required: No

### **creationTime**

The time that the connector was created.

Type: Timestamp

Required: No

### **currentVersion**

The current version of the connector.

Type: String

Required: No

### **kafkaCluster**

The details of the Apache Kafka cluster to which the connector is connected.

Type: [KafkaClusterDescription](#) object

Required: No

### **kafkaClusterClientAuthentication**

The type of client authentication used to connect to the Apache Kafka cluster. The value is NONE when no client authentication is used.

Type: [KafkaClusterClientAuthenticationDescription](#) object

Required: No

### **kafkaClusterEncryptionInTransit**

Details of encryption in transit to the Apache Kafka cluster.

Type: [KafkaClusterEncryptionInTransitDescription](#) object

Required: No

### **kafkaConnectVersion**

The version of Kafka Connect. It has to be compatible with both the Apache Kafka cluster's version and the plugins.

Type: String

Required: No

### **logDelivery**

The settings for delivering connector logs to Amazon CloudWatch Logs.

Type: [LogDeliveryDescription](#) object

Required: No

### **networkType**

The network type of the connector. It gives connectors connectivity to either IPv4 (IPV4) or IPv4 and IPv6 (DUAL) destinations. Defaults to IPV4.

Type: String

Valid Values: IPV4 | DUAL

Required: No

### **plugins**

Specifies which plugins were used for this connector.

Type: Array of [PluginDescription](#) objects

Required: No

### **serviceExecutionRoleArn**

The Amazon Resource Name (ARN) of the IAM role used by the connector to access Amazon Web Services resources.

Type: String

Required: No

### **workerConfiguration**

The worker configurations that are in use with the connector.

Type: [WorkerConfigurationDescription](#) 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](#)

# CustomPlugin

A plugin is an AWS resource that contains the code that defines a connector's logic.

## Contents

### **customPluginArn**

The Amazon Resource Name (ARN) of the custom plugin.

Type: String

Required: Yes

### **revision**

The revision of the custom plugin.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 9223372036854775807.

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](#)

# CustomPluginDescription

Details about a custom plugin.

## Contents

### **customPluginArn**

The Amazon Resource Name (ARN) of the custom plugin.

Type: String

Required: No

### **revision**

The revision of the custom plugin.

Type: Long

Required: No

## See Also

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

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

# CustomPluginFileDescription

Details about a custom plugin file.

## Contents

### fileMd5

The hex-encoded MD5 checksum of the custom plugin file. You can use it to validate the file.

Type: String

Required: No

### fileSize

The size in bytes of the custom plugin file. You can use it to validate the file.

Type: Long

Required: No

## See Also

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

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

# CustomPluginLocation

Information about the location of a custom plugin.

## Contents

### s3Location

The S3 bucket Amazon Resource Name (ARN), file key, and object version of the plugin file stored in Amazon S3.

Type: [S3Location](#) 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](#)

# CustomPluginLocationDescription

Information about the location of a custom plugin.

## Contents

### s3Location

The S3 bucket Amazon Resource Name (ARN), file key, and object version of the plugin file stored in Amazon S3.

Type: [S3LocationDescription](#) 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](#)

# CustomPluginRevisionSummary

Details about the revision of a custom plugin.

## Contents

### contentType

The format of the plugin file.

Type: String

Valid Values: JAR | ZIP

Required: No

### creationTime

The time that the custom plugin was created.

Type: Timestamp

Required: No

### description

The description of the custom plugin.

Type: String

Required: No

### fileDescription

Details about the custom plugin file.

Type: [CustomPluginFileDescription](#) object

Required: No

### location

Information about the location of the custom plugin.

Type: [CustomPluginLocationDescription](#) object

Required: No

### **revision**

The revision of the custom plugin.

Type: Long

Required: No

## **See Also**

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

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

# CustomPluginSummary

A summary of the custom plugin.

## Contents

### **creationTime**

The time that the custom plugin was created.

Type: Timestamp

Required: No

### **customPluginArn**

The Amazon Resource Name (ARN) of the custom plugin.

Type: String

Required: No

### **customPluginState**

The state of the custom plugin.

Type: String

Valid Values: CREATING | CREATE\_FAILED | ACTIVE | UPDATING | UPDATE\_FAILED | DELETING

Required: No

### **description**

A description of the custom plugin.

Type: String

Required: No

### **latestRevision**

The latest revision of the custom plugin.

Type: [CustomPluginRevisionSummary](#) object

Required: No

**name**

The name of the custom plugin.

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](#)

# FirehoseLogDelivery

The settings for delivering logs to Amazon Kinesis Data Firehose.

## Contents

### **enabled**

Specifies whether connector logs get delivered to Amazon Kinesis Data Firehose.

Type: Boolean

Required: Yes

### **deliveryStream**

The name of the Kinesis Data Firehose delivery stream that is the destination for log delivery.

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](#)

# FirehoseLogDeliveryDescription

A description of the settings for delivering logs to Amazon Kinesis Data Firehose.

## Contents

### **deliveryStream**

The name of the Kinesis Data Firehose delivery stream that is the destination for log delivery.

Type: String

Required: No

### **enabled**

Specifies whether connector logs get delivered to Amazon Kinesis Data Firehose.

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](#)

# KafkaCluster

The details of the Apache Kafka cluster to which the connector is connected.

## Contents

### **apacheKafkaCluster**

The Apache Kafka cluster to which the connector is connected.

Type: [ApacheKafkaCluster](#) 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](#)

# KafkaClusterClientAuthentication

The client authentication information used in order to authenticate with the Apache Kafka cluster.

## Contents

### authenticationType

The type of client authentication used to connect to the Apache Kafka cluster. Value NONE means that no client authentication is used.

Type: String

Valid Values: NONE | IAM

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](#)

# KafkaClusterClientAuthenticationDescription

The client authentication information used in order to authenticate with the Apache Kafka cluster.

## Contents

### authenticationType

The type of client authentication used to connect to the Apache Kafka cluster. Value NONE means that no client authentication is used.

Type: String

Valid Values: NONE | IAM

Required: No

## See Also

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

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

# KafkaClusterDescription

Details of how to connect to the Apache Kafka cluster.

## Contents

### apacheKafkaCluster

The Apache Kafka cluster to which the connector is connected.

Type: [ApacheKafkaClusterDescription](#) 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](#)

# KafkaClusterEncryptionInTransit

Details of encryption in transit to the Apache Kafka cluster.

## Contents

### encryptionType

The type of encryption in transit to the Apache Kafka cluster.

Type: String

Valid Values: PLAINTEXT | TLS

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](#)

# KafkaClusterEncryptionInTransitDescription

The description of the encryption in transit to the Apache Kafka cluster.

## Contents

### encryptionType

The type of encryption in transit to the Apache Kafka cluster.

Type: String

Valid Values: PLAINTEXT | TLS

Required: No

## See Also

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

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

# LogDelivery

Details about log delivery.

## Contents

### **workerLogDelivery**

The workers can send worker logs to different destination types. This configuration specifies the details of these destinations.

Type: [WorkerLogDelivery](#) 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](#)

# LogDeliveryDescription

The description of the log delivery settings.

## Contents

### workerLogDelivery

The workers can send worker logs to different destination types. This configuration specifies the details of these destinations.

Type: [WorkerLogDeliveryDescription](#) 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](#)

# Plugin

A plugin is an AWS resource that contains the code that defines your connector logic.

## Contents

### **customPlugin**

Details about a custom plugin.

Type: [CustomPlugin](#) 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](#)

# PluginDescription

The description of the plugin.

## Contents

### customPlugin

Details about a custom plugin.

Type: [CustomPluginDescription](#) 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](#)

# ProvisionedCapacity

Details about a connector's provisioned capacity.

## Contents

### **mcuCount**

The number of microcontroller units (MCUs) allocated to each connector worker. The valid values are 1,2,4,8.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 8.

Required: Yes

### **workerCount**

The number of workers that are allocated to the connector.

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](#)

# ProvisionedCapacityDescription

The description of a connector's provisioned capacity.

## Contents

### **mcuCount**

The number of microcontroller units (MCUs) allocated to each connector worker. The valid values are 1,2,4,8.

Type: Integer

Required: No

### **workerCount**

The number of workers that are allocated to the connector.

Type: Integer

Required: No

## See Also

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

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

# ProvisionedCapacityUpdate

An update to a connector's fixed capacity.

## Contents

### **mcuCount**

The number of microcontroller units (MCUs) allocated to each connector worker. The valid values are 1,2,4,8.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 8.

Required: Yes

### **workerCount**

The number of workers that are allocated to the connector.

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](#)

# S3Location

The location of an object in Amazon S3.

## Contents

### bucketArn

The Amazon Resource Name (ARN) of an S3 bucket.

Type: String

Required: Yes

### fileKey

The file key for an object in an S3 bucket.

Type: String

Required: Yes

### objectVersion

The version of an object in an S3 bucket.

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](#)

# S3LocationDescription

The description of the location of an object in Amazon S3.

## Contents

### bucketArn

The Amazon Resource Name (ARN) of an S3 bucket.

Type: String

Required: No

### fileKey

The file key for an object in an S3 bucket.

Type: String

Required: No

### objectVersion

The version of an object in an S3 bucket.

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](#)

# S3LogDelivery

Details about delivering logs to Amazon S3.

## Contents

### **enabled**

Specifies whether connector logs get sent to the specified Amazon S3 destination.

Type: Boolean

Required: Yes

### **bucket**

The name of the S3 bucket that is the destination for log delivery.

Type: String

Required: No

### **prefix**

The S3 prefix that is the destination for log delivery.

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](#)

# S3LogDeliveryDescription

The description of the details about delivering logs to Amazon S3.

## Contents

### bucket

The name of the S3 bucket that is the destination for log delivery.

Type: String

Required: No

### enabled

Specifies whether connector logs get sent to the specified Amazon S3 destination.

Type: Boolean

Required: No

### prefix

The S3 prefix that is the destination for log delivery.

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](#)

# ScaleInPolicy

The scale-in policy for the connector.

## Contents

### **cpuUtilizationPercentage**

Specifies the CPU utilization percentage threshold at which you want connector scale in to be triggered.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

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](#)

# ScaleInPolicyDescription

The description of the scale-in policy for the connector.

## Contents

### **cpuUtilizationPercentage**

Specifies the CPU utilization percentage threshold at which you want connector scale in to be triggered.

Type: Integer

Required: No

## See Also

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

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

# ScaleInPolicyUpdate

An update to the connector's scale-in policy.

## Contents

### **cpuUtilizationPercentage**

The target CPU utilization percentage threshold at which you want connector scale in to be triggered.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

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](#)

# ScaleOutPolicy

The scale-out policy for the connector.

## Contents

### **cpuUtilizationPercentage**

The CPU utilization percentage threshold at which you want connector scale out to be triggered.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

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](#)

# ScaleOutPolicyDescription

The description of the scale-out policy for the connector.

## Contents

### cpuUtilizationPercentage

The CPU utilization percentage threshold at which you want connector scale out to be triggered.

Type: Integer

Required: No

## See Also

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

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

# ScaleOutPolicyUpdate

An update to the connector's scale-out policy.

## Contents

### **cpuUtilizationPercentage**

The target CPU utilization percentage threshold at which you want connector scale out to be triggered.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

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](#)

# StateDescription

Details about the state of a resource.

## Contents

### code

A code that describes the state of a resource.

Type: String

Required: No

### message

A message that describes the state of a resource.

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](#)

# Vpc

Information about the VPC in which the connector resides.

## Contents

### subnets

The subnets for the connector.

Type: Array of strings

Required: Yes

### securityGroups

The security groups for the connector.

Type: Array of strings

Required: No

## See Also

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

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

# VpcDescription

The description of the VPC in which the connector resides.

## Contents

### **securityGroups**

The security groups for the connector.

Type: Array of strings

Required: No

### **subnets**

The subnets for the connector.

Type: Array of strings

Required: No

## See Also

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

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

# WorkerConfiguration

The configuration of the workers, which are the processes that run the connector logic.

## Contents

### revision

The revision of the worker configuration.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 9223372036854775807.

Required: Yes

### workerConfigurationArn

The Amazon Resource Name (ARN) of the worker configuration.

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](#)

# WorkerConfigurationDescription

The description of the worker configuration.

## Contents

### revision

The revision of the worker configuration.

Type: Long

Required: No

### workerConfigurationArn

The Amazon Resource Name (ARN) of the worker configuration.

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](#)

# WorkerConfigurationRevisionDescription

The description of the worker configuration revision.

## Contents

### creationTime

The time that the worker configuration was created.

Type: Timestamp

Required: No

### description

The description of the worker configuration revision.

Type: String

Required: No

### propertiesFileContent

Base64 encoded contents of the connect-distributed.properties file.

Type: String

Required: No

### revision

The description of a revision of the worker configuration.

Type: Long

Required: No

## See Also

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

- [AWS SDK for C++](#)

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

# WorkerConfigurationRevisionSummary

The summary of a worker configuration revision.

## Contents

### creationTime

The time that a worker configuration revision was created.

Type: Timestamp

Required: No

### description

The description of a worker configuration revision.

Type: String

Required: No

### revision

The revision of a worker configuration.

Type: Long

Required: No

## See Also

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

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

# WorkerConfigurationSummary

The summary of a worker configuration.

## Contents

### **creationTime**

The time that a worker configuration was created.

Type: Timestamp

Required: No

### **description**

The description of a worker configuration.

Type: String

Required: No

### **latestRevision**

The latest revision of a worker configuration.

Type: [WorkerConfigurationRevisionSummary](#) object

Required: No

### **name**

The name of the worker configuration.

Type: String

Required: No

### **workerConfigurationArn**

The Amazon Resource Name (ARN) of the worker configuration.

Type: String

Required: No

## **workerConfigurationState**

The state of the worker configuration.

Type: String

Valid Values: ACTIVE | DELETING

Required: No

## **See Also**

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

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

# WorkerLogDelivery

Workers can send worker logs to different destination types. This configuration specifies the details of these destinations.

## Contents

### cloudWatchLogs

Details about delivering logs to Amazon CloudWatch Logs.

Type: [CloudWatchLogsLogDelivery](#) object

Required: No

### firehose

Details about delivering logs to Amazon Kinesis Data Firehose.

Type: [FirehoseLogDelivery](#) object

Required: No

### s3

Details about delivering logs to Amazon S3.

Type: [S3LogDelivery](#) 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](#)

# WorkerLogDeliveryDescription

Workers can send worker logs to different destination types. This configuration specifies the details of these destinations.

## Contents

### cloudWatchLogs

Details about delivering logs to Amazon CloudWatch Logs.

Type: [CloudWatchLogsLogDeliveryDescription](#) object

Required: No

### firehose

Details about delivering logs to Amazon Kinesis Data Firehose.

Type: [FirehoseLogDeliveryDescription](#) object

Required: No

### s3

Details about delivering logs to Amazon S3.

Type: [S3LogDeliveryDescription](#) 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](#)

# WorkerSetting

Details about worker setting of a connector

## Contents

### capacity

A description of the connector's capacity.

Type: [CapacityDescription](#) 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](#)

# 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