



REST API Reference

# Amazon MQ



## Amazon MQ: REST API Reference

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# Welcome

Welcome to the Amazon MQ REST API reference. In this guide, you can find descriptions of REST resources, example requests, HTTP methods, schemas, parameters, and the errors that the service returns.

Amazon MQ is a managed message broker service for [Apache ActiveMQ](#) and [RabbitMQ](#) that makes it easy to set up and operate message brokers in the cloud. A message broker allows software applications and components to communicate using various programming languages, operating systems, and formal messaging protocols. Amazon MQ works with your existing applications and services without the need to manage, operate, or maintain your own messaging system.

## Topics

- [Example REST Request](#)
- [Example REST Response](#)

## Additional Information

- [Amazon MQ Product Page](#)
- [Amazon MQ Developer Guide](#)
- [Amazon MQ in the AWS CLI Command Reference](#)
- [Regions and Endpoints](#)

This document was last published on July 7, 2021

## Example REST Request

The following is an example of an Amazon MQ REST request (and its headers) which creates a new Amazon MQ for ActiveMQ broker:

```
POST /v1/brokers HTTP/1.1
Content-Type: application/json
X-Amz-Date: 20171123T214525Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20171128/us-
east-2/mq/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature=a12bc34567defg89h0ij1234k156m789no01p2q345r6s789tu01v2w3x4567890
```

```
Host: mq.us-east-2.amazonaws.com
Cache-Control: no-cache

{
    "brokerName": "MyActiveMQBroker",
    "hostInstanceType": "mq.m5.large",
    "engineType": "ActiveMQ",
    "engineVersion": "5.15.8",
    "logs": {
        "general": true,
        "audit": false
    },
    "deploymentMode": "ACTIVE_STANDBY_MULTI_AZ",
    "publiclyAccessible": true,
    "subnetIds": [
        "subnet-12a3b45c",
        "subnet-67d8e90f"
    ],
    "securityGroups": [
        "sg-a1b234cd",
        "sg-e5f678gh"
    ],
    "autoMinorVersionUpgrade": true,
    "users": [
        {
            "password": "MyPassword456",
            "groups": [
                "admins"
            ],
            "consoleAccess": true,
            "username": "jane.doe"
        }
    ]
}
```

The following is an example of an Amazon MQ REST request (and its headers) which creates a new Amazon MQ for RabbitMQ broker:

```
POST /v1/brokers HTTP/1.1
Content-Type: application/json
X-Amz-Date: 20171123T214525Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20171128/us-
east-2/mq/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature=a12bc34567defg89h0ij1234kl56m789no01p2q345r6s789tu01v2w3x4567890
Host: mq.us-east-2.amazonaws.com
```

```
Cache-Control: no-cache

{
    "brokerName": "MyRabbitMQBroker",
    "hostInstanceType": "mq.m5.large",
    "engineType": "RabbitMQ",
    "engineVersion": "3.8.6",
    "logs": {
        "general": true
    },
    "deploymentMode": "CLUSTER_MULTI_AZ",
    "publiclyAccessible": true,
    "subnetIds": [
        "subnet-15a3b47c",
        "subnet-69d8n90j"
    ],
    "autoMinorVersionUpgrade": true,
    "users": [
        {
            "password": "MyPassword456",
            "groups": [
                "admins"
            ],
            "consoleAccess": true,
            "username": "jane.doe"
        }
    ]
}
```

## Example REST Response

The following is an example of an Amazon MQ REST response (and its headers) which acknowledges the creation of the new broker:

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 250
Connection: keep-alive
Date: Wed, 28 Nov 2017 12:00:00 GMT
X-Amzn-RequestId: a12bc345-67de-89f0-g12h-345ij6k7l89m
X-Amzn-Trace-Id: sampled=1;root=1-2345a67b-c8defg901hijk2lf3m4nopqr
X-Cache: Miss from cloudfront
Via: 1.1 ab123456cd789ef012g34567890h1i23.cloudfront.net (CloudFront)
X-Amz-Cf-Id: ABCa1D6b2-EcF3dG7e456_fGIgh7JKLMijNO_PQ8RSTUVWX-Y9k0ZA==
```

```
{  
    "brokerId" : "b-1234a5b6-78cd-901e-2fgh-3i45j6k17819",  
    "brokerArn": "arn:aws:mq:us-  
east-2:123456789012:broker:MyBroker:b-1234a5b6-78cd-901e-2fgh-3i45j6k17819"  
}
```

# Resources

The Amazon MQ REST API includes the following resources.

## Topics

- [Broker](#)
- [Broker Engine Types](#)
- [Broker Instance Options](#)
- [Broker Reboot](#)
- [Brokers](#)
- [Configuration](#)
- [Configuration Revision](#)
- [Configuration Revisions](#)
- [Configurations](#)
- [Promote](#)
- [Tag](#)
- [User](#)
- [Users](#)

## Broker

A broker is a message broker environment running on Amazon MQ. It is the basic building block of Amazon MQ. For more information about the different components of an Amazon MQ broker, see [How Amazon MQ works](#) in the *Amazon MQ Developer Guide*.

## URI

`/v1/brokers/broker-id`

## HTTP methods

### GET

**Operation ID:** `DescribeBroker`

Returns information about the specified broker.

## Path parameters

Name	Type	Required	Description
<i>broker-id</i>	String	True	The unique ID that Amazon MQ generates for the broker.

## Responses

Status code	Response model	Description
200	<a href="#">DescribeBrokerOutput</a>	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## PUT

### Operation ID: UpdateBroker

Adds a pending configuration change to a broker.

#### Path parameters

Name	Type	Required	Description
<i>broker-id</i>	String	True	The unique ID that Amazon MQ generates for the broker.

#### Responses

Status code	Response model	Description
200	<a href="#">UpdateBrokerOutput</a>	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
409	<a href="#">Error</a>	HTTP Status Code 409: Conflict. This broker name

Status code	Response model	Description
500	<a href="#">Error</a>	already exists. Retry your request with another name.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## DELETE

### Operation ID: DeleteBroker

Deletes a broker. Note: This API is asynchronous.

#### Path parameters

Name	Type	Required	Description
<i>broker-id</i>	String	True	The unique ID that Amazon MQ generates for the broker.

#### Responses

Status code	Response model	Description
200	<a href="#">DeleteBrokerOutput</a>	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your

Status code	Response model	Description
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## OPTIONS

### Path parameters

Name	Type	Required	Description
<i>broker-id</i>	String	True	The unique ID that Amazon MQ generates for the broker.

### Responses

Status code	Response model	Description
200	None	200 response

## Schemas

### Request bodies

## PUT schema

```
{  
    "dataReplicationMode": enum,  
    "engineVersion": "string",  
    "maintenanceWindowStartTime": {  
        "dayOfWeek": enum,  
        "timeZone": "string",  
        "timeOfDay": "string"  
    },  
    "configuration": {  
        "id": "string",  
        "revision": integer  
    },  
    "authenticationStrategy": enum,  
    "securityGroups": [  
        "string"  
    ],  
    "ldapServerMetadata": {  
        "roleSearchMatching": "string",  
        "serviceAccountPassword": "string",  
        "roleBase": "string",  
        "hosts": [  
            "string"  
        ],  
        "roleName": "string",  
        "userBase": "string",  
        "roleSearchSubtree": boolean,  
        "serviceAccountUsername": "string",  
        "userRoleName": "string",  
        "userSearchMatching": "string",  
        "userSearchSubtree": boolean  
    },  
    "logs": {  
        "general": boolean,  
        "audit": boolean  
    },  
    "hostInstanceType": "string",  
    "autoMinorVersionUpgrade": boolean  
}
```

## Response bodies

## DescribeBrokerOutput schema

```
{  
    "pendingEngineVersion": "string",  
    "pendingAuthenticationStrategy": enum,  
    "pendingSecurityGroups": [  
        "string"  
    ],  
    "configurations": {  
        "current": {  
            "id": "string",  
            "revision": integer  
        },  
        "pending": {  
            "id": "string",  
            "revision": integer  
        },  
        "history": [  
            {  
                "id": "string",  
                "revision": integer  
            }  
        ]  
    },  
    "brokerState": enum,  
    "pendingDataReplicationMode": enum,  
    "engineType": enum,  
    "brokerInstances": [  
        {  
            "endpoints": [  
                "string"  
            ],  
            "consoleURL": "string",  
            "ipAddress": "string"  
        }  
    ],  
    "hostInstanceType": "string",  
    "dataReplicationMode": enum,  
    "publiclyAccessible": boolean,  
    "logs": {  
        "generalLogGroup": "string",  
        "general": boolean,  
        "audit": boolean,  
        "pending": {  
            "generalLogGroup": "string",  
            "general": boolean,  
            "audit": boolean  
        }  
    }  
}
```

```
        "general": boolean,
        "audit": boolean
    },
    "auditLogGroup": "string"
},
"ldapServerMetadata": {
    "roleSearchMatching": "string",
    "roleBase": "string",
    "hosts": [
        "string"
    ],
    "roleName": "string",
    "userBase": "string",
    "roleSearchSubtree": boolean,
    "serviceAccountUsername": "string",
    "userRoleName": "string",
    "userSearchMatching": "string",
    "userSearchSubtree": boolean
},
"subnetIds": [
    "string"
],
"pendingHostInstanceType": "string",
"engineVersion": "string",
"brokerId": "string",
"brokerArn": "string",
"deploymentMode": enum,
"maintenanceWindowStartTime": {
    "dayOfWeek": enum,
    "timeZone": "string",
    "timeOfDay": "string"
},
"created": "string",
"authenticationStrategy": enum,
"users": [
    {
        "pendingChange": enum,
        "username": "string"
    }
],
"tags": {},
"dataReplicationMetadata": {
    "dataReplicationCounterpart": {
```

```
        "brokerId": "string",
        "region": "string"
    },
    "dataReplicationRole": "string"
},
"pendingLdapServerMetadata": {
    "roleSearchMatching": "string",
    "roleBase": "string",
    "hosts": [
        "string"
    ],
    "roleName": "string",
    "userBase": "string",
    "roleSearchSubtree": boolean,
    "serviceAccountUsername": "string",
    "userRoleName": "string",
    "userSearchMatching": "string",
    "userSearchSubtree": boolean
},
"encryptionOptions": {
    "useAwsOwnedKey": boolean,
    "kmsKeyId": "string"
},
"pendingDataReplicationMetadata": {
    "dataReplicationCounterpart": {
        "brokerId": "string",
        "region": "string"
    },
    "dataReplicationRole": "string"
},
"storageType": enum,
"actionsRequired": [
    {
        "actionRequiredCode": "string",
        "actionRequiredInfo": "string"
    }
],
"securityGroups": [
    "string"
],
"brokerName": "string",
"autoMinorVersionUpgrade": boolean
}
```

## **UpdateBrokerOutput schema**

```
"serviceAccountUsername": "string",
"userRoleName": "string",
"userSearchMatching": "string",
"userSearchSubtreelogs": {
  "general": boolean,
  "audit": boolean
},
"autoMinorVersionUpgrade": boolean
}
```

## DeleteBrokerOutput schema

```
{
  "brokerId": "string"
}
```

## Error schema

```
{
  "errorAttribute": "string",
  "message": "string"
}
```

## Properties

### ActionRequired

Action required for a broker.

#### actionRequiredCode

The code you can use to find instructions on the action required to resolve your broker issue.

**Type:** string

**Required:** False

#### actionRequiredInfo

Information about the action required to resolve your broker issue.

**Type:** string

**Required:** False

## AuthenticationStrategy

Optional. The authentication strategy used to secure the broker. The default is SIMPLE.

SIMPLE

LDAP

## BrokerInstance

Returns information about all brokers.

### endpoints

The broker's wire-level protocol endpoints.

**Type:** Array of type string

**Required:** False

### consoleURL

The brokers web console URL.

**Type:** string

**Required:** False

### ipAddress

The IP address of the Elastic Network Interface (ENI) attached to the broker. Does not apply to RabbitMQ brokers.

**Type:** string

**Required:** False

## BrokerState

The broker's status.

CREATION\_IN\_PROGRESS  
CREATION\_FAILED  
DELETION\_IN\_PROGRESS  
RUNNING  
REBOOT\_IN\_PROGRESS  
CRITICAL\_ACTION\_REQUIRED  
REPLICA

## BrokerStorageType

The broker's storage type.

 **Important**

EFS is not supported for RabbitMQ engine type.

EBS  
EFS

## ChangeType

The type of change pending for the ActiveMQ user.

CREATE  
UPDATE  
DELETE

## ConfigurationId

A list of information about the configuration.

### **id**

Required. The unique ID that Amazon MQ generates for the configuration.

**Type:** string

**Required:** True

## revision

The revision number of the configuration.

**Type:** integer

**Required:** False

## Configurations

Broker configuration information

### current

The broker's current configuration.

**Type:** [ConfigurationId](#)

**Required:** False

### pending

The broker's pending configuration.

**Type:** [ConfigurationId](#)

**Required:** False

### history

The history of configurations applied to the broker.

**Type:** Array of type [ConfigurationId](#)

**Required:** False

## DataReplicationCounterpart

Specifies a broker in a data replication pair.

### brokerId

Required. The unique broker id generated by Amazon MQ.

**Type:** string

**Required:** True

## region

Required. The region of the broker.

**Type:** string

**Required:** True

## DataReplicationMetadataOutput

The replication details of the data replication-enabled broker. Only returned if dataReplicationMode or pendingDataReplicationMode is set to CRDR.

### dataReplicationCounterpart

Describes the replica/primary broker. Only returned if this broker is currently set as a primary or replica in the broker's dataReplicationRole property.

**Type:** [DataReplicationCounterpart](#)

**Required:** False

### dataReplicationRole

Defines the role of this broker in a data replication pair. When a replica broker is promoted to primary, this role is interchanged.

**Type:** string

**Required:** True

## DataReplicationMode

Specifies whether a broker is a part of a data replication pair.

NONE

CRDR

## DeleteBrokerOutput

Returns information about the deleted broker.

### brokerId

The unique ID that Amazon MQ generates for the broker.

**Type:** string

**Required:** False

### DeploymentMode

The broker's deployment mode.

SINGLE\_INSTANCE

ACTIVE\_STANDBY\_MULTI\_AZ

CLUSTER\_MULTI\_AZ

## DescribeBrokerOutput

Returns information about the specified broker.

### pendingEngineVersion

The broker engine version to upgrade to. For a list of supported engine versions, see [Supported engines](#).

**Type:** string

**Required:** False

### pendingAuthenticationStrategy

The authentication strategy that will be applied when the broker is rebooted. The default is SIMPLE.

**Type:** [AuthenticationStrategy](#)

**Required:** False

## **pendingSecurityGroups**

The list of pending security groups to authorize connections to brokers.

**Type:** Array of type string

**Required:** False

## **configurations**

The list of all revisions for the specified configuration.

**Type:** [Configurations](#)

**Required:** False

## **brokerState**

The broker's status.

**Type:** [BrokerState](#)

**Required:** False

## **pendingDataReplicationMode**

Describes whether this broker will be a part of a data replication pair after reboot.

**Type:** [DataReplicationMode](#)

**Required:** False

## **engineType**

The type of broker engine. Currently, Amazon MQ supports ACTIVEMQ and RABBITMQ.

**Type:** [EngineType](#)

**Required:** True

## **brokerInstances**

A list of information about allocated brokers.

**Type:** Array of type [BrokerInstance](#)

**Required:** False

### hostInstanceType

The broker's instance type.

**Type:** string

**Required:** False

### dataReplicationMode

Describes whether this broker is a part of a data replication pair.

**Type:** [DataReplicationMode](#)

**Required:** False

### publiclyAccessible

Enables connections from applications outside of the VPC that hosts the broker's subnets.

**Type:** boolean

**Required:** True

### logs

The list of information about logs currently enabled and pending to be deployed for the specified broker.

**Type:** [LogsSummary](#)

**Required:** False

### ldapServerMetadata

The metadata of the LDAP server used to authenticate and authorize connections to the broker.

**Type:** [LdapServerMetadataOutput](#)

**Required:** False

## subnetIds

The list of groups that define which subnets and IP ranges the broker can use from different Availability Zones.

**Type:** Array of type string

**Required:** False

## pendingHostInstanceType

The broker's host instance type to upgrade to. For a list of supported instance types, see [Broker instance types](#).

**Type:** string

**Required:** False

## engineVersion

The broker engine's version. For a list of supported engine versions, see [Supported engines](#).

**Type:** string

**Required:** False

## brokerId

The unique ID that Amazon MQ generates for the broker.

**Type:** string

**Required:** False

## brokerArn

The broker's Amazon Resource Name (ARN).

**Type:** string

**Required:** False

## deploymentMode

The broker's deployment mode.

**Type:** [DeploymentMode](#)

**Required:** True

## maintenanceWindowStartTime

The parameters that determine the WeeklyStartTime.

**Type:** [WeeklyStartTime](#)

**Required:** False

## created

The time when the broker was created.

**Type:** string

**Required:** False

**Format:** date-time

## authenticationStrategy

The authentication strategy used to secure the broker. The default is SIMPLE.

**Type:** [AuthenticationStrategy](#)

**Required:** False

## users

The list of all broker usernames for the specified broker.

**Type:** Array of type [UserSummary](#)

**Required:** False

## tags

The list of all tags associated with this broker.

**Type:** object

**Required:** False

### dataReplicationMetadata

The replication details of the data replication-enabled broker. Only returned if dataReplicationMode is set to CRDR.

**Type:** [DataReplicationMetadataOutput](#)

**Required:** False

### pendingLdapServerMetadata

The metadata of the LDAP server that will be used to authenticate and authorize connections to the broker after it is rebooted.

**Type:** [LdapServerMetadataOutput](#)

**Required:** False

### encryptionOptions

Encryption options for the broker.

**Type:** [EncryptionOptions](#)

**Required:** False

### pendingDataReplicationMetadata

The pending replication details of the data replication-enabled broker. Only returned if pendingDataReplicationMode is set to CRDR.

**Type:** [DataReplicationMetadataOutput](#)

**Required:** False

### storageType

The broker's storage type.

**Type:** [BrokerStorageType](#)

**Required:** False

### actionsRequired

Actions required for a broker.

**Type:** Array of type [ActionRequired](#)

**Required:** False

### securityGroups

The list of rules (1 minimum, 125 maximum) that authorize connections to brokers.

**Type:** Array of type string

**Required:** False

### brokerName

The broker's name. This value must be unique in your AWS account account, 1-50 characters long, must contain only letters, numbers, dashes, and underscores, and must not contain white spaces, brackets, wildcard characters, or special characters.

**Type:** string

**Required:** False

### autoMinorVersionUpgrade

Enables automatic upgrades to new minor versions for brokers, as new versions are released and supported by Amazon MQ. Automatic upgrades occur during the scheduled maintenance window of the broker or after a manual broker reboot.

**Type:** boolean

**Required:** True

### EncryptionOptions

Encryption options for the broker.

## useAwsOwnedKey

Enables the use of an AWS owned CMK using AWS KMS (KMS). Set to true by default, if no value is provided, for example, for RabbitMQ brokers.

**Type:** boolean

**Required:** True

## kmsKeyId

The customer master key (CMK) to use for the A AWS KMS (KMS). This key is used to encrypt your data at rest. If not provided, Amazon MQ will use a default CMK to encrypt your data.

**Type:** string

**Required:** False

## EngineType

The type of broker engine. Amazon MQ supports ActiveMQ and RabbitMQ.

ACTIVEMQ

RABBITMQ

## Error

Returns information about an error.

### errorAttribute

The attribute which caused the error.

**Type:** string

**Required:** False

### message

The explanation of the error.

**Type:** string

**Required:** False

## LdapServerMetadataInput

Optional. The metadata of the LDAP server used to authenticate and authorize connections to the broker.

### Important

Does not apply to RabbitMQ brokers.

## roleSearchMatching

The LDAP search filter used to find roles within the `roleBase`. The distinguished name of the user matched by `userSearchMatching` is substituted into the `{0}` placeholder in the search filter. The client's username is substituted into the `{1}` placeholder. For example, if you set this option to `(member=uid={1})` for the user `janedoe`, the search filter becomes `(member=uid=janedoe)` after string substitution. It matches all role entries that have a member attribute equal to `uid=janedoe` under the subtree selected by the `roleBase`.

**Type:** string

**Required:** True

## serviceAccountPassword

Service account password. A service account is an account in your LDAP server that has access to initiate a connection. For example, `cn=admin,dc=corp, dc=example, dc=com`.

**Type:** string

**Required:** True

## roleBase

The distinguished name of the node in the directory information tree (DIT) to search for roles or groups. For example, `ou=group, ou=corp, dc=corp, dc=example, dc=com`.

**Type:** string

**Required:** True

## hosts

Specifies the location of the LDAP server such as AWS Directory Service for Microsoft Active Directory. Optional failover server.

**Type:** Array of type string

**Required:** True

## roleName

Specifies the LDAP attribute that identifies the group name attribute in the object returned from the group membership query.

**Type:** string

**Required:** False

## userBase

Select a particular subtree of the directory information tree (DIT) to search for user entries. The subtree is specified by a DN, which specifies the base node of the subtree. For example, by setting this option to ou=Users,ou=corp, dc=corp, dc=example, dc=com, the search for user entries is restricted to the subtree beneath ou=Users, ou=corp, dc=corp, dc=example, dc=com.

**Type:** string

**Required:** True

## roleSearchSubtree

The directory search scope for the role. If set to true, scope is to search the entire subtree.

**Type:** boolean

**Required:** False

## serviceAccountUsername

Service account username. A service account is an account in your LDAP server that has access to initiate a connection. For example, cn=admin,dc=corp, dc=example, dc=com.

**Type:** string

**Required:** True

### **userRoleName**

Specifies the name of the LDAP attribute for the user group membership.

**Type:** string

**Required:** False

### **userSearchMatching**

The LDAP search filter used to find users within the `userBase`. The client's username is substituted into the `{0}` placeholder in the search filter. For example, if this option is set to `(uid={0})` and the received username is `janedoe`, the search filter becomes `(uid=janedoe)` after string substitution. It will result in matching an entry like `uid=janedoe, ou=Users,ou=corp,dc=corp, dc=example, dc=com`.

**Type:** string

**Required:** True

### **userSearchSubtree**

The directory search scope for the user. If set to true, scope is to search the entire subtree.

**Type:** boolean

**Required:** False

### **LdapServerMetadataOutput**

Optional. The metadata of the LDAP server used to authenticate and authorize connections to the broker.

### **roleSearchMatching**

The LDAP search filter used to find roles within the `roleBase`. The distinguished name of the user matched by `userSearchMatching` is substituted into the `{0}` placeholder in the search filter. The client's username is substituted into the `{1}` placeholder. For example, if you set this option to `(member=uid={1})` for the user `janedoe`, the search filter becomes `(member=uid=janedoe)`

after string substitution. It matches all role entries that have a member attribute equal to uid=janedoe under the subtree selected by the `roleBase`.

**Type:** string

**Required:** True

### **roleBase**

The distinguished name of the node in the directory information tree (DIT) to search for roles or groups. For example, ou=group, ou=corp, dc=corp, dc=example, dc=com.

**Type:** string

**Required:** True

### **hosts**

Specifies the location of the LDAP server such as AWS Directory Service for Microsoft Active Directory. Optional failover server.

**Type:** Array of type string

**Required:** True

### **roleName**

Specifies the LDAP attribute that identifies the group name attribute in the object returned from the group membership query.

**Type:** string

**Required:** False

### **userBase**

Select a particular subtree of the directory information tree (DIT) to search for user entries. The subtree is specified by a DN, which specifies the base node of the subtree. For example, by setting this option to ou=Users,ou=corp, dc=corp, dc=example, dc=com, the search for user entries is restricted to the subtree beneath ou=Users, ou=corp, dc=corp, dc=example, dc=com.

**Type:** string

**Required:** True

### roleSearchSubtree

The directory search scope for the role. If set to true, scope is to search the entire subtree.

**Type:** boolean

**Required:** False

### serviceAccountUsername

Service account username. A service account is an account in your LDAP server that has access to initiate a connection. For example, cn=admin,dc=corp, dc=example, dc=com.

**Type:** string

**Required:** True

### userRoleName

Specifies the name of the LDAP attribute for the user group membership.

**Type:** string

**Required:** False

### userSearchMatching

The LDAP search filter used to find users within the userBase. The client's username is substituted into the {0} placeholder in the search filter. For example, if this option is set to (uid={0}) and the received username is janedoe, the search filter becomes (uid=janedoe) after string substitution. It will result in matching an entry like uid=janedoe, ou=Users,ou=corp, dc=corp, dc=example, dc=com.

**Type:** string

**Required:** True

### userSearchSubtree

The directory search scope for the user. If set to true, scope is to search the entire subtree.

**Type:** boolean

**Required:** False

## Logs

The list of information about logs to be enabled for the specified broker.

### general

Enables general logging.

**Type:** boolean

**Required:** False

### audit

Enables audit logging. Every user management action made using JMX or the ActiveMQ Web Console is logged. Does not apply to RabbitMQ brokers.

**Type:** boolean

**Required:** False

## LogsSummary

The list of information about logs currently enabled and pending to be deployed for the specified broker.

### generalLogGroup

The location of the CloudWatch Logs log group where general logs are sent.

**Type:** string

**Required:** True

### general

Enables general logging.

**Type:** boolean

**Required:** True

## audit

Enables audit logging. Every user management action made using JMX or the ActiveMQ Web Console is logged.

**Type:** boolean

**Required:** False

## pending

The list of information about logs pending to be deployed for the specified broker.

**Type:** [PendingLogs](#)

**Required:** False

## auditLogGroup

The location of the CloudWatch Logs log group where audit logs are sent.

**Type:** string

**Required:** False

## PendingLogs

The list of information about logs to be enabled for the specified broker.

## general

Enables general logging.

**Type:** boolean

**Required:** False

## audit

Enables audit logging. Every user management action made using JMX or the ActiveMQ Web Console is logged.

**Type:** boolean

**Required:** False

## UpdateBrokerInput

Updates the broker using the specified properties.

### dataReplicationMode

Defines whether this broker is a part of a data replication pair.

**Type:** [DataReplicationMode](#)

**Required:** False

### engineVersion

The broker engine version. For a list of supported engine versions, see [Supported engines](#).

**Type:** string

**Required:** False

### maintenanceWindowStartTime

The parameters that determine the WeeklyStartTime.

**Type:** [WeeklyStartTime](#)

**Required:** False

### configuration

A list of information about the configuration.

**Type:** [ConfigurationId](#)

**Required:** False

### authenticationStrategy

Optional. The authentication strategy used to secure the broker. The default is SIMPLE.

**Type:** [AuthenticationStrategy](#)

**Required:** False

## securityGroups

The list of security groups (1 minimum, 5 maximum) that authorizes connections to brokers.

**Type:** Array of type string

**Required:** False

## ldapServerMetadata

Optional. The metadata of the LDAP server used to authenticate and authorize connections to the broker. Does not apply to RabbitMQ brokers.

**Type:** [LdapServerMetadataInput](#)

**Required:** False

## logs

Enables Amazon CloudWatch logging for brokers.

**Type:** [Logs](#)

**Required:** False

## hostInstanceType

The broker's host instance type to upgrade to. For a list of supported instance types, see [Broker instance types](#).

**Type:** string

**Required:** False

## autoMinorVersionUpgrade

Enables automatic upgrades to new minor versions for brokers, as new versions are released and supported by Amazon MQ. Automatic upgrades occur during the scheduled maintenance window of the broker or after a manual broker reboot.

**Type:** boolean

**Required:** False

## UpdateBrokerOutput

Returns information about the updated broker.

### engineVersion

The broker engine version to upgrade to. For a list of supported engine versions, see [Supported engines](#).

**Type:** string

**Required:** False

### brokerId

Required. The unique ID that Amazon MQ generates for the broker.

**Type:** string

**Required:** True

### maintenanceWindowStartTime

The parameters that determine the WeeklyStartTime.

**Type:** [WeeklyStartTime](#)

**Required:** False

### configuration

The ID of the updated configuration.

**Type:** [ConfigurationId](#)

**Required:** False

### authenticationStrategy

Optional. The authentication strategy used to secure the broker. The default is SIMPLE.

**Type:** [AuthenticationStrategy](#)

**Required:** False

### **pendingDataReplicationMode**

Describes whether this broker will be a part of a data replication pair after reboot.

**Type:** [DataReplicationMode](#)

**Required:** False

### **hostInstanceType**

The broker's host instance type to upgrade to. For a list of supported instance types, see [Broker instance types](#).

**Type:** string

**Required:** False

### **dataReplicationMode**

Describes whether this broker is a part of a data replication pair.

**Type:** [DataReplicationMode](#)

**Required:** False

### **dataReplicationMetadata**

The replication details of the data replication-enabled broker. Only returned if dataReplicationMode is set to CRDR.

**Type:** [DataReplicationMetadataOutput](#)

**Required:** False

### **pendingDataReplicationMetadata**

The pending replication details of the data replication-enabled broker. Only returned if pendingDataReplicationMode is set to CRDR.

**Type:** [DataReplicationMetadataOutput](#)

**Required:** False

## securityGroups

The list of security groups (1 minimum, 5 maximum) that authorizes connections to brokers.

**Type:** Array of type string

**Required:** False

## ldapServerMetadata

Optional. The metadata of the LDAP server used to authenticate and authorize connections to the broker. Does not apply to RabbitMQ brokers.

**Type:** [LdapServerMetadataOutput](#)

**Required:** False

## logs

The list of information about logs to be enabled for the specified broker.

**Type:** [Logs](#)

**Required:** False

## autoMinorVersionUpgrade

The new boolean value that specifies whether broker engines automatically upgrade to new minor versions as new versions are released and supported by Amazon MQ.

**Type:** boolean

**Required:** False

## UserSummary

Returns a list of all broker users. Does not apply to RabbitMQ brokers.

## pendingChange

The type of change pending for the broker user.

**Type:** [ChangeType](#)

**Required:** False

### username

Required. The username of the broker user. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . \_ ~). This value must be 2-100 characters long.

**Type:** string

**Required:** True

### WeeklyStartTime

The scheduled time period relative to UTC during which Amazon MQ begins to apply pending updates or patches to the broker.

#### dayOfWeek

Required. The day of the week.

**Type:** string

**Required:** True

**Values:** MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY | SUNDAY

#### timeZone

The time zone, UTC by default, in either the Country/City format, or the UTC offset format.

**Type:** string

**Required:** False

#### timeOfDay

Required. The time, in 24-hour format.

**Type:** string

**Required:** True

## See also

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

### DescribeBroker

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

### UpdateBroker

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

### DeleteBroker

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

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

## Broker Engine Types

Retrieve information about available broker engines. AWS does not support all instance types in all availability zones and regions. For more information, see [Supported engines](#) in the Amazon MQ Developer Guide.

This API will tell you, for a given region and availability zone, which broker engine types and engine versions you can create.

### URI

/v1/broker-engine-types

### HTTP methods

#### GET

##### Operation ID: DescribeBrokerEngineTypes

Describe available engine types and versions.

#### Query parameters

Name	Type	Required	Description
engineType	String	False	Filter response by engine type.
nextToken	String	False	The token that specifies the next

Name	Type	Required	Description
			page of results Amazon MQ should return. To request the first page, leave nextToken empty.
maxResults	String	False	The maximum number of brokers that Amazon MQ can return per page (20 by default). This value must be an integer from 5 to 100.

## Responses

Status code	Response model	Description
200	<a href="#">BrokerEngineTypeOutput</a>	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## OPTIONS

### Responses

Status code	Response model	Description
200	None	200 response

## Schemas

### Response bodies

#### BrokerEngineTypeOutput schema

```
{  
    "nextToken": "string",  
    "maxResults": integer,  
    "brokerEngineTypes": [  
        {  
            "engineVersions": [  
                {  
                    "name": "string"  
                }  
            ],  
            "engineType": enum  
        }  
    ]  
}
```

#### Error schema

```
{  
    "errorAttribute": "string",  
    "message": "string"  
}
```

## Properties

### BrokerEngineType

Types of broker engines.

#### engineVersions

The list of engine versions.

**Type:** Array of type [EngineVersion](#)

**Required:** False

#### engineType

The broker's engine type.

**Type:** [EngineType](#)

**Required:** False

### BrokerEngineTypeOutput

Returns a list of broker engine type.

#### nextToken

The token that specifies the next page of results Amazon MQ should return. To request the first page, leave nextToken empty.

**Type:** string

**Required:** False

#### maxResults

Required. The maximum number of engine types that can be returned per page (20 by default). This value must be an integer from 5 to 100.

**Type:** integer

**Required:** True

**Minimum:** 5

**Maximum:** 100

## brokerEngineTypes

List of available engine types and versions.

**Type:** Array of type [BrokerEngineType](#)

**Required:** False

## EngineType

The type of broker engine. Amazon MQ supports ActiveMQ and RabbitMQ.

ACTIVEMQ

RABBITMQ

## EngineVersion

Id of the engine version.

### name

Id for the version.

**Type:** string

**Required:** False

## Error

Returns information about an error.

### errorAttribute

The attribute which caused the error.

**Type:** string

**Required:** False

## message

The explanation of the error.

**Type:** string

**Required:** False

## See also

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

### DescribeBrokerEngineTypes

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

## Broker Instance Options

You can retrieve information about broker instances. For more information about the different components of an Amazon MQ broker, see [How Amazon MQ works](#) in the *Amazon MQ Developer Guide*.

## URI

/v1/broker-instance-options

# HTTP methods

## GET

### Operation ID: DescribeBrokerInstanceOptions

Describe available broker instance options.

#### Query parameters

Name	Type	Required	Description
hostInstanceType	String	False	Filter response by host instance type.
nextToken	String	False	The token that specifies the next page of results Amazon MQ should return. To request the first page, leave nextToken empty.
storageType	String	False	Filter response by storage type.
maxResults	String	False	The maximum number of brokers that Amazon MQ can return per page (20 by default). This value must be an integer from 5 to 100.
engineType	String	False	Filter response by engine type.

## Responses

Status code	Response model	Description
200	<a href="#">BrokerInstanceOptionsOutput</a>	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## OPTIONS

### Responses

Status code	Response model	Description
200	None	200 response

## Schemas

### Response bodies

#### BrokerInstanceOptionsOutput schema

```
{  
  "nextToken": "string",
```

```
"maxResults"brokerInstanceOptions    {  
        "supportedDeploymentModes            enum  
        ],  
        "supportedEngineVersions            "string"  
        ],  
        "storageType        "engineType        "availabilityZones            {  
                "name            }  
        ],  
        "hostInstanceType    }  
]  
}
```

## Error schema

```
{  
    "errorAttribute    "message}
```

## Properties

### AvailabilityZone

Name of the availability zone.

#### **name**

Id for the availability zone.

**Type:** string

**Required:** False

## BrokerInstanceOption

Option for host instance type.

### supportedDeploymentModes

The list of supported deployment modes.

**Type:** Array of type [DeploymentMode](#)

**Required:** False

### supportedEngineVersions

The list of supported engine versions.

**Type:** Array of type string

**Required:** False

### storageType

The broker's storage type.

**Type:** [BrokerStorageType](#)

**Required:** False

### engineType

The broker's engine type.

**Type:** [EngineType](#)

**Required:** False

### availabilityZones

The list of available az.

**Type:** Array of type [AvailabilityZone](#)

**Required:** False

## hostInstanceType

The broker's instance type.

**Type:** string

**Required:** False

## BrokerInstanceOptionsOutput

Returns a list of broker instance options.

### nextToken

The token that specifies the next page of results Amazon MQ should return. To request the first page, leave nextToken empty.

**Type:** string

**Required:** False

### maxResults

Required. The maximum number of instance options that can be returned per page (20 by default). This value must be an integer from 5 to 100.

**Type:** integer

**Required:** True

**Minimum:** 5

**Maximum:** 100

## brokerInstanceOptions

List of available broker instance options.

**Type:** Array of type [BrokerInstanceOption](#)

**Required:** False

## BrokerStorageType

The broker's storage type.

**⚠ Important**

EFS is not supported for RabbitMQ engine type.

EBS

EFS

## DeploymentMode

The broker's deployment mode.

SINGLE\_INSTANCE

ACTIVE\_STANDBY\_MULTI\_AZ

CLUSTER\_MULTI\_AZ

## EngineType

The type of broker engine. Amazon MQ supports ActiveMQ and RabbitMQ.

ACTIVEMQ

RABBITMQ

## Error

Returns information about an error.

### errorAttribute

The attribute which caused the error.

**Type:** string

**Required:** False

### message

The explanation of the error.

**Type:** string

**Required:** False

## See also

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

### DescribeBrokerInstanceOptions

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

## Broker Reboot

To apply a new configuration to a broker, you can reboot the broker. In addition, if your broker becomes unresponsive, you can reboot it to recover from a faulty state.

 **Note**

You can reboot only a broker with the RUNNING status.

## URI

/v1/brokers/*broker-id*/reboot

# HTTP methods

## POST

### Operation ID: RebootBroker

Reboots a broker. Note: This API is asynchronous.

#### Path parameters

Name	Type	Required	Description
<i>broker-id</i>	String	True	The unique ID that Amazon MQ generates for the broker.

#### Responses

Status code	Response model	Description
200	None	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server

Status code	Response model	Description
		error. Retrying your request might resolve the issue.

## OPTIONS

### Path parameters

Name	Type	Required	Description
<i>broker-id</i>	String	True	The unique ID that Amazon MQ generates for the broker.

### Responses

Status code	Response model	Description
200	None	200 response

## Schemas

### Response bodies

#### Error schema

```
{  
  "errorAttribute": "string",  
  "message": "string"  
}
```

## Properties

### Error

Returns information about an error.

## errorAttribute

The attribute which caused the error.

**Type:** string

**Required:** False

## message

The explanation of the error.

**Type:** string

**Required:** False

## See also

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

## RebootBroker

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

## Brokers

This is a collection of brokers. A broker is a message broker environment running on Amazon MQ. It is the basic building block of Amazon MQ. For more information, see [Broker instance types](#) in the [Amazon MQ Developer Guide](#).

## URI

/v1/brokers

## HTTP methods

### GET

#### Operation ID: ListBrokers

Returns a list of all brokers.

#### Query parameters

Name	Type	Required	Description
nextToken	String	False	The token that specifies the next page of results Amazon MQ should return. To request the first page, leave nextToken empty.
maxResults	String	False	The maximum number of brokers that Amazon MQ can return per page (20 by default). This value must be an integer from 5 to 100.

#### Responses

Status code	Response model	Description
200	<a href="#">ListBrokersOutput</a>	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect

Status code	Response model	Description
403	<a href="#">Error</a>	input. Correct your request and then retry it.
500	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.  HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## POST

### Operation ID: CreateBroker

Creates a broker. Note: This API is asynchronous.

To create a broker, you must either use the `AmazonMQFullAccess` IAM policy or include the following EC2 permissions in your IAM policy.

- `ec2:CreateNetworkInterface`

This permission is required to allow Amazon MQ to create an elastic network interface (ENI) on behalf of your account.

- `ec2:CreateNetworkInterfacePermission`

This permission is required to attach the ENI to the broker instance.

- `ec2:DeleteNetworkInterface`
- `ec2:DeleteNetworkInterfacePermission`
- `ec2:DetachNetworkInterface`
- `ec2:DescribeInternetGateways`
- `ec2:DescribeNetworkInterfaces`
- `ec2:DescribeNetworkInterfacePermissions`

- ec2:DescribeRouteTables
- ec2:DescribeSecurityGroups
- ec2:DescribeSubnets
- ec2:DescribeVpcs

For more information, see [Create an IAM User and Get Your AWS Credentials](#) and [Never Modify or Delete the Amazon MQ Elastic Network Interface](#) in the *Amazon MQ Developer Guide*.

## Responses

Status code	Response model	Description
200	<a href="#">CreateBrokerOutput</a>	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
401	<a href="#">Error</a>	HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
409	<a href="#">Error</a>	HTTP Status Code 409: Conflict. This broker name already exists. Retry your request with another name.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## OPTIONS

### Responses

Status code	Response model	Description
200	None	200 response

## Schemas

### Request bodies

#### POST schema

```
{  
    "engineVersion": "string",  
    "deploymentMode": enum,  
    "maintenanceWindowStartTime": {  
        "dayOfWeek": enum,  
        "timeZone": "string",  
        "timeOfDay": "string"  
    },  
    "configuration": {  
        "id": "string",  
        "revision": integer  
    },  
    "authenticationStrategy": enum,  
    "engineType": enum,  
    "hostInstanceType": "string",  
    "users": [  
        {  
            "password": "string",  
            "replicationUser": boolean,  
            "groups": [  
                "string"  
            ],  
            "consoleAccess": boolean,  
            "username": "string"  
        }  
    ],  
    "tags": {  
    },  
}
```

```
"dataReplicationModecreatorRequestIdpubliclyAccessibleencryptionOptionsuseAwsOwnedKeykmsKeyIdstorageTypedataReplicationPrimaryBrokerArnsecurityGroupsbrokerNameldapServerMetadataroleSearchMatchingserviceAccountPasswordroleBasehostsroleNameuserBaseroleSearchSubtreeserviceAccountUsernameuserRoleNameuserSearchMatchinguserSearchSubtreelogsgeneralauditautoMinorVersionUpgradesubnetIds
```

## Response bodies

### ListBrokersOutput schema

{

```
"brokerSummaries": [  
    {  
        "brokerArn        "brokerId": "string",  
        "deploymentMode": enum,  
        "created": "string",  
        "brokerState": enum,  
        "engineType": enum,  
        "brokerName": "string",  
        "hostInstanceType": "string"  
    }  
,  
    "nextToken": "string"  
}
```

## CreateBrokerOutput schema

```
{  
    "brokerArn": "string",  
    "brokerId": "string"  
}
```

## Error schema

```
{  
    "errorAttribute": "string",  
    "message": "string"  
}
```

## Properties

### AuthenticationStrategy

Optional. The authentication strategy used to secure the broker. The default is SIMPLE.

SIMPLE

LDAP

## BrokerState

The broker's status.

CREATION\_IN\_PROGRESS  
CREATION\_FAILED  
DELETION\_IN\_PROGRESS  
RUNNING  
REBOOT\_IN\_PROGRESS  
CRITICAL\_ACTION\_REQUIRED  
REPLICA

## BrokerStorageType

The broker's storage type.

 **Important**

EFS is not supported for RabbitMQ engine type.

EBS

EFS

## BrokerSummary

Returns information about all brokers.

### brokerArn

The broker's Amazon Resource Name (ARN).

**Type:** string

**Required:** False

### brokerId

The unique ID that Amazon MQ generates for the broker.

**Type:** string

**Required:** False

### deploymentMode

The broker's deployment mode.

**Type:** [DeploymentMode](#)

**Required:** True

### created

The time when the broker was created.

**Type:** string

**Required:** False

**Format:** date-time

### brokerState

The broker's status.

**Type:** [BrokerState](#)

**Required:** False

### engineType

The type of broker engine.

**Type:** [EngineType](#)

**Required:** True

### brokerName

The broker's name. This value is unique in your AWS account, 1-50 characters long, and containing only letters, numbers, dashes, and underscores, and must not contain white spaces, brackets, wildcard characters, or special characters.

**Type:** string

**Required:** False

## hostInstanceType

The broker's instance type.

**Type:** string

**Required:** False

## ConfigurationId

A list of information about the configuration.

### id

Required. The unique ID that Amazon MQ generates for the configuration.

**Type:** string

**Required:** True

### revision

The revision number of the configuration.

**Type:** integer

**Required:** False

## CreateBrokerInput

Creates a broker.

### engineVersion

Required. The broker engine's version. For a list of supported engine versions, see [Supported engines](#).

**Type:** string

**Required:** True

## deploymentMode

Required. The broker's deployment mode.

**Type:** [DeploymentMode](#)

**Required:** True

## maintenanceWindowStartTime

The parameters that determine the WeeklyStartTime.

**Type:** [WeeklyStartTime](#)

**Required:** False

## configuration

A list of information about the configuration.

**Type:** [ConfigurationId](#)

**Required:** False

## authenticationStrategy

Optional. The authentication strategy used to secure the broker. The default is SIMPLE.

**Type:** [AuthenticationStrategy](#)

**Required:** False

## engineType

Required. The type of broker engine. Currently, Amazon MQ supports ACTIVEMQ and RABBITMQ.

**Type:** [EngineType](#)

**Required:** True

## hostInstanceType

Required. The broker's instance type.

**Type:** string

**Required:** True

## users

The list of broker users (persons or applications) who can access queues and topics. For Amazon MQ for RabbitMQ brokers, one and only one administrative user is accepted and created when a broker is first provisioned. All subsequent broker users are created by making RabbitMQ API calls directly to brokers or via the RabbitMQ web console.

**Type:** Array of type [User](#)

**Required:** True

## tags

Create tags when creating the broker.

**Type:** object

**Required:** False

## dataReplicationMode

Defines whether this broker is a part of a data replication pair.

**Type:** [DataReplicationMode](#)

**Required:** False

## creatorRequestId

The unique ID that the requester receives for the created broker. Amazon MQ passes your ID with the API action.

 **Note**

We recommend using a Universally Unique Identifier (UUID) for the creatorRequestId. You may omit the `creatorRequestId` if your application doesn't require idempotency.

**Type:** string

**Required:** False

### publiclyAccessible

Enables connections from applications outside of the VPC that hosts the broker's subnets. Set to false by default, if no value is provided.

**Type:** boolean

**Required:** True

### encryptionOptions

Encryption options for the broker.

**Type:** [EncryptionOptions](#)

**Required:** False

### storageType

The broker's storage type.

**Type:** [BrokerStorageType](#)

**Required:** False

### dataReplicationPrimaryBrokerArn

The Amazon Resource Name (ARN) of the primary broker that is used to replicate data from in a data replication pair, and is applied to the replica broker. Must be set when dataReplicationMode is set to CRDR.

**Type:** string

**Required:** False

### securityGroups

The list of rules (1 minimum, 125 maximum) that authorize connections to brokers.

**Type:** Array of type string

**Required:** False

### brokerName

Required. The broker's name. This value must be unique in your AWS account, 1-50 characters long, must contain only letters, numbers, dashes, and underscores, and must not contain white spaces, brackets, wildcard characters, or special characters.

#### **Important**

Do not add personally identifiable information (PII) or other confidential or sensitive information in broker names. Broker names are accessible to other AWS services, including CloudWatch Logs. Broker names are not intended to be used for private or sensitive data.

**Type:** string

**Required:** True

### ldapServerMetadata

Optional. The metadata of the LDAP server used to authenticate and authorize connections to the broker. Does not apply to RabbitMQ brokers.

**Type:** [LdapServerMetadataInput](#)

**Required:** False

### logs

Enables Amazon CloudWatch logging for brokers.

**Type:** [Logs](#)

**Required:** False

### autoMinorVersionUpgrade

Enables automatic upgrades to new minor versions for brokers, as new versions are released and supported by Amazon MQ. Automatic upgrades occur during the scheduled maintenance window of the broker or after a manual broker reboot. Set to true by default, if no value is specified.

**Type:** boolean

**Required:** True

## subnetIds

The list of groups that define which subnets and IP ranges the broker can use from different Availability Zones. If you specify more than one subnet, the subnets must be in different Availability Zones. Amazon MQ will not be able to create VPC endpoints for your broker with multiple subnets in the same Availability Zone. A SINGLE\_INSTANCE deployment requires one subnet (for example, the default subnet). An ACTIVE\_STANDBY\_MULTI\_AZ Amazon MQ for ActiveMQ deployment requires two subnets. A CLUSTER\_MULTI\_AZ Amazon MQ for RabbitMQ deployment has no subnet requirements when deployed with public accessibility. Deployment without public accessibility requires at least one subnet.

### Important

If you specify subnets in a [shared VPC](#) for a RabbitMQ broker, the associated VPC to which the specified subnets belong must be owned by your AWS account. Amazon MQ will not be able to create VPC endpoints in VPCs that are not owned by your AWS account.

**Type:** Array of type string

**Required:** False

## CreateBrokerOutput

Returns information about the created broker.

### brokerArn

The broker's Amazon Resource Name (ARN).

**Type:** string

**Required:** False

### brokerId

The unique ID that Amazon MQ generates for the broker.

**Type:** string

**Required:** False

## DataReplicationMode

Specifies whether a broker is a part of a data replication pair.

NONE

CRDR

## DeploymentMode

The broker's deployment mode.

SINGLE\_INSTANCE

ACTIVE\_STANDBY\_MULTI\_AZ

CLUSTER\_MULTI\_AZ

## EncryptionOptions

Encryption options for the broker.

### useAwsOwnedKey

Enables the use of an AWS owned CMK using AWS KMS (KMS). Set to true by default, if no value is provided, for example, for RabbitMQ brokers.

**Type:** boolean

**Required:** True

### kmsKeyId

The customer master key (CMK) to use for the A AWS KMS (KMS). This key is used to encrypt your data at rest. If not provided, Amazon MQ will use a default CMK to encrypt your data.

**Type:** string

**Required:** False

## EngineType

The type of broker engine. Amazon MQ supports ActiveMQ and RabbitMQ.

ACTIVEMQ

RABBITMQ

## Error

Returns information about an error.

### errorAttribute

The attribute which caused the error.

**Type:** string

**Required:** False

### message

The explanation of the error.

**Type:** string

**Required:** False

## LdapServerMetadataInput

Optional. The metadata of the LDAP server used to authenticate and authorize connections to the broker.

### Important

Does not apply to RabbitMQ brokers.

## roleSearchMatching

The LDAP search filter used to find roles within the `roleBase`. The distinguished name of the user matched by `userSearchMatching` is substituted into the `{0}` placeholder in the search filter. The client's username is substituted into the `{1}` placeholder. For example, if you set this option to

(`member=uid={1}`) for the user `janedoe`, the search filter becomes (`member=uid=janedoe`) after string substitution. It matches all role entries that have a member attribute equal to `uid=janedoe` under the subtree selected by the `roleBase`.

**Type:** string

**Required:** True

### serviceAccountPassword

Service account password. A service account is an account in your LDAP server that has access to initiate a connection. For example, `cn=admin,dc=corp, dc=example, dc=com`.

**Type:** string

**Required:** True

### roleBase

The distinguished name of the node in the directory information tree (DIT) to search for roles or groups. For example, `ou=group, ou=corp, dc=corp, dc=example, dc=com`.

**Type:** string

**Required:** True

### hosts

Specifies the location of the LDAP server such as AWS Directory Service for Microsoft Active Directory. Optional failover server.

**Type:** Array of type string

**Required:** True

### roleName

Specifies the LDAP attribute that identifies the group name attribute in the object returned from the group membership query.

**Type:** string

**Required:** False

## **userBase**

Select a particular subtree of the directory information tree (DIT) to search for user entries. The subtree is specified by a DN, which specifies the base node of the subtree. For example, by setting this option to ou=Users,ou=corp, dc=corp, dc=example, dc=com, the search for user entries is restricted to the subtree beneath ou=Users, ou=corp, dc=corp, dc=example, dc=com.

**Type:** string

**Required:** True

## **roleSearchSubtree**

The directory search scope for the role. If set to true, scope is to search the entire subtree.

**Type:** boolean

**Required:** False

## **serviceAccountUsername**

Service account username. A service account is an account in your LDAP server that has access to initiate a connection. For example, cn=admin,dc=corp, dc=example, dc=com.

**Type:** string

**Required:** True

## **userRoleName**

Specifies the name of the LDAP attribute for the user group membership.

**Type:** string

**Required:** False

## **userSearchMatching**

The LDAP search filter used to find users within the userBase. The client's username is substituted into the {0} placeholder in the search filter. For example, if this option is set to (uid={0}) and the received username is janedoe, the search filter becomes (uid=janedoe) after string

substitution. It will result in matching an entry like uid=janedoe, ou=Users,ou=corp, dc=corp, dc=example, dc=com.

**Type:** string

**Required:** True

## userSearchSubtree

The directory search scope for the user. If set to true, scope is to search the entire subtree.

**Type:** boolean

**Required:** False

## ListBrokersOutput

A list of information about all brokers.

### brokerSummaries

A list of information about all brokers.

**Type:** Array of type [BrokerSummary](#)

**Required:** False

### nextToken

The token that specifies the next page of results Amazon MQ should return. To request the first page, leave nextToken empty.

**Type:** string

**Required:** False

## Logs

The list of information about logs to be enabled for the specified broker.

### general

Enables general logging.

**Type:** boolean

**Required:** False

## audit

Enables audit logging. Every user management action made using JMX or the ActiveMQ Web Console is logged. Does not apply to RabbitMQ brokers.

**Type:** boolean

**Required:** False

## User

A user associated with the broker. For Amazon MQ for RabbitMQ brokers, one and only one administrative user is accepted and created when a broker is first provisioned. All subsequent broker users are created by making RabbitMQ API calls directly to brokers or via the RabbitMQ web console.

### password

Required. The password of the user. This value must be at least 12 characters long, must contain at least 4 unique characters, and must not contain commas, colons, or equal signs (,:=).

**Type:** string

**Required:** True

**Format:** password

### replicationUser

Defines if this user is intended for CRDR replication purposes.

**Type:** boolean

**Required:** False

### groups

The list of groups (20 maximum) to which the ActiveMQ user belongs. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . \_ ~). This value must be 2-100 characters long. Does not apply to RabbitMQ brokers.

**Type:** Array of type string

**Required:** False

## consoleAccess

Enables access to the ActiveMQ Web Console for the ActiveMQ user. Does not apply to RabbitMQ brokers.

**Type:** boolean

**Required:** False

## username

The username of the broker user. The following restrictions apply to broker usernames:

- For Amazon MQ for ActiveMQ brokers, this value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . \_ ~). This value must be 2-100 characters long.
- For Amazon MQ for RabbitMQ brokers, this value can contain only alphanumeric characters, dashes, periods, underscores (- . \_). This value must not contain a tilde (~) character. Amazon MQ prohibits using guest as a valid username. This value must be 2-100 characters long.

### Important

Do not add personally identifiable information (PII) or other confidential or sensitive information in broker usernames. Broker usernames are accessible to other AWS services, including CloudWatch Logs. Broker usernames are not intended to be used for private or sensitive data.

**Type:** string

**Required:** True

## WeeklyStartTime

The scheduled time period relative to UTC during which Amazon MQ begins to apply pending updates or patches to the broker.

## dayOfWeek

Required. The day of the week.

**Type:** string

**Required:** True

**Values:** MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY | SUNDAY

## timeZone

The time zone, UTC by default, in either the Country/City format, or the UTC offset format.

**Type:** string

**Required:** False

## timeOfDay

Required. The time, in 24-hour format.

**Type:** string

**Required:** True

## See also

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

## ListBrokers

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

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

## CreateBroker

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

## Configuration

A configuration contains all of the settings for your broker. For more information, see [Configuration](#) and [Amazon MQ Broker Configuration Parameters](#) in the Amazon MQ Developer Guide.

You can create a configuration before creating any brokers. You can then apply the configuration to one or more brokers.

**⚠ Important**

Making changes to a configuration does not apply the changes to the broker immediately. To apply your changes, you must wait for the next maintenance window or reboot the broker.

## URI

/v1/configurations/*configuration-id*

# HTTP methods

## GET

### Operation ID: DescribeConfiguration

Returns information about the specified configuration.

#### Path parameters

Name	Type	Required	Description
<i>configuration-id</i>	String	True	The unique ID that Amazon MQ generates for the configuration.

#### Responses

Status code	Response model	Description
200	<a href="#">Configuration</a>	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server

Status code	Response model	Description
		error. Retrying your request might resolve the issue.

## PUT

### Operation ID: UpdateConfiguration

Updates the specified configuration.

#### Path parameters

Name	Type	Required	Description
<i>configuration-id</i>	String	True	The unique ID that Amazon MQ generates for the configuration.

#### Responses

Status code	Response model	Description
200	<a href="#">UpdateConfigurationOutput</a>	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to

Status code	Response model	Description
		incorrect input. Correct your request and then retry it.
409	<a href="#">Error</a>	HTTP Status Code 409: Conflict. This broker name already exists. Retry your request with another name.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## OPTIONS

### Path parameters

Name	Type	Required	Description
<i>configuration-id</i>	String	True	The unique ID that Amazon MQ generates for the configuration.

### Responses

Status code	Response model	Description
200	None	200 response

## Schemas

### Request bodies

## PUT schema

```
{  
  "data": "string",  
  "description": "string"  
}
```

## Response bodies

### Configuration schema

```
{  
  "engineVersion": "string",  
  "created": "string",  
  "authenticationStrategy": enum,  
  "name": "string",  
  "description": "string",  
  "engineType": enum,  
  "id": "string",  
  "arn": "string",  
  "latestRevision": {  
    "created": "string",  
    "description": "string",  
    "revision": integer  
  },  
  "tags": {  
  }  
}
```

### UpdateConfigurationOutput schema

```
{  
  "created": "string",  
  "warnings": [  
    {  
      "reason": enum,  
      "attributeName": "string",  
      "elementName": "string"  
    }  
  ],  
  "name": "string",  
  "id": "string",  
  "version": "string",  
  "status": "string",  
  "lastModified": "string",  
  "arn": "string",  
  "configuration": {  
    "id": "string",  
    "version": "string",  
    "name": "string",  
    "description": "string",  
    "engineType": enum,  
    "authenticationStrategy": enum,  
    "tags": {  
    }  
  },  
  "revision": {  
    "id": "string",  
    "version": "string",  
    "name": "string",  
    "description": "string",  
    "created": "string",  
    "lastModified": "string",  
    "status": "string",  
    "configuration": {  
      "id": "string",  
      "version": "string",  
      "name": "string",  
      "description": "string",  
      "engineType": enum,  
      "authenticationStrategy": enum,  
      "tags": {  
      }  
    },  
    "version": integer  
  },  
  "warnings": [  
    {  
      "reason": enum,  
      "attributeName": "string",  
      "elementName": "string"  
    }  
  ]  
}
```

```
"arn": "string",
"latestRevision": {
  "created": "string",
  "description": "string",
  "revision": integer
}
}
```

## Error schema

```
{
  "errorAttribute": "string",
  "message": "string"
}
```

## Properties

### AuthenticationStrategy

Optional. The authentication strategy used to secure the broker. The default is SIMPLE.

SIMPLE

LDAP

### Configuration

Returns information about all configurations.

#### engineVersion

Required. The broker engine's version. For a list of supported engine versions, see, [Supported engines](#).

**Type:** string

**Required:** True

#### created

Required. The date and time of the configuration revision.

**Type:** string

**Required:** True

**Format:** date-time

### authenticationStrategy

Optional. The authentication strategy associated with the configuration. The default is SIMPLE.

**Type:** [AuthenticationStrategy](#)

**Required:** True

### name

Required. The name of the configuration. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . \_ ~). This value must be 1-150 characters long.

**Type:** string

**Required:** True

### description

Required. The description of the configuration.

**Type:** string

**Required:** True

### engineType

Required. The type of broker engine. Currently, Amazon MQ supports ACTIVEMQ and RABBITMQ.

**Type:** [EngineType](#)

**Required:** True

### id

Required. The unique ID that Amazon MQ generates for the configuration.

**Type:** string

**Required:** True

**arn**

Required. The ARN of the configuration.

**Type:** string

**Required:** True

**latestRevision**

Required. The latest revision of the configuration.

**Type:** [ConfigurationRevision](#)

**Required:** True

**tags**

The list of all tags associated with this configuration.

**Type:** object

**Required:** False

**ConfigurationRevision**

Returns information about the specified configuration revision.

**created**

Required. The date and time of the configuration revision.

**Type:** string

**Required:** True

**Format:** date-time

**description**

The description of the configuration revision.

**Type:** string

**Required:** False

## revision

Required. The revision number of the configuration.

**Type:** integer

**Required:** True

## EngineType

The type of broker engine. Amazon MQ supports ActiveMQ and RabbitMQ.

ACTIVEMQ

RABBITMQ

## Error

Returns information about an error.

### errorAttribute

The attribute which caused the error.

**Type:** string

**Required:** False

### message

The explanation of the error.

**Type:** string

**Required:** False

## SanitizationWarning

Returns information about the configuration element or attribute that was sanitized in the configuration.

### reason

The reason for which the configuration elements or attributes were sanitized.

**Type:** [SanitizationWarningReason](#)

**Required:** True

### attributeName

The name of the configuration attribute that has been sanitized.

**Type:** string

**Required:** False

### elementName

The name of the configuration element that has been sanitized.

**Type:** string

**Required:** False

## SanitizationWarningReason

The reason for which the configuration elements or attributes were sanitized.

DISALLOWED\_ELEMENT\_REMOVED

DISALLOWED\_ATTRIBUTE\_REMOVED

INVALID\_ATTRIBUTE\_VALUE\_REMOVED

## UpdateConfigurationInput

Updates the specified configuration.

### data

Amazon MQ for Active MQ: The base64-encoded XML configuration. Amazon MQ for RabbitMQ: the base64-encoded Cuttlefish configuration.

**Type:** string

**Required:** True

**Format:** byte

## description

The description of the configuration.

**Type:** string

**Required:** False

## UpdateConfigurationOutput

Returns information about the updated configuration.

### created

Required. The date and time of the configuration.

**Type:** string

**Required:** True

**Format:** date-time

### warnings

The list of the first 20 warnings about the configuration elements or attributes that were sanitized.

**Type:** Array of type [SanitizationWarning](#)

**Required:** False

### name

The name of the configuration. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . \_ ~). This value must be 1-150 characters long.

**Type:** string

**Required:** True

### id

The unique ID that Amazon MQ generates for the configuration.

**Type:** string

**Required:** True

## arn

The Amazon Resource Name (ARN) of the configuration.

**Type:** string

**Required:** True

## latestRevision

The latest revision of the configuration.

**Type:** [ConfigurationRevision](#)

**Required:** False

## See also

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

## DescribeConfiguration

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

## UpdateConfiguration

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

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

## Configuration Revision

To keep track of the changes you make to your configuration, you can create configuration revisions. For more information, see [Configuration](#) in the Amazon MQ Developer Guide.

### Important

Making changes to a configuration does not apply the changes to the broker immediately. To apply your changes, you must wait for the next maintenance window or reboot the broker.

## URI

/v1/configurations/*configuration-id*/revisions/*configuration-revision*

## HTTP methods

### GET

**Operation ID:** DescribeConfigurationRevision

Returns the specified configuration revision for the specified configuration.

### Path parameters

Name	Type	Required	Description
<i>configuration-revision</i>	String	True	The revision of the configuration.

Name	Type	Required	Description
<i>configuration-id</i>	String	True	The unique ID that Amazon MQ generates for the configuration.

## Responses

Status code	Response model	Description
200	<a href="#">DescribeConfigurationRevisionOutput</a>	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## OPTIONS

### Path parameters

Name	Type	Required	Description
<i>configuration-revision</i>	String	True	The revision of the configuration.
<i>configuration-id</i>	String	True	The unique ID that Amazon MQ generates for the configuration.

### Responses

Status code	Response model	Description
200	None	200 response

## Schemas

### Response bodies

#### DescribeConfigurationRevisionOutput schema

```
{  
  "data": "string",  
  "created": "string",  
  "description": "string",  
  "configurationId": "string"  
}
```

#### Error schema

```
{  
  "errorAttribute": "string",  
  "message": "string"  
}
```

## Properties

### DescribeConfigurationRevisionOutput

Returns the specified configuration revision for the specified configuration.

#### data

Amazon MQ for ActiveMQ: the base64-encoded XML configuration. Amazon MQ for RabbitMQ: base64-encoded Cuttlefish.

**Type:** string

**Required:** True

**Format:** byte

#### created

Required. The date and time of the configuration.

**Type:** string

**Required:** True

**Format:** date-time

#### description

The description of the configuration.

**Type:** string

**Required:** False

#### configurationId

Required. The unique ID that Amazon MQ generates for the configuration.

**Type:** string

**Required:** True

#### Error

Returns information about an error.

## errorAttribute

The attribute which caused the error.

**Type:** string

**Required:** False

## message

The explanation of the error.

**Type:** string

**Required:** False

## See also

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

## DescribeConfigurationRevision

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

## Configuration Revisions

This is a collection of configuration revisions. To keep track of the changes you make to your configuration, you can create configuration revisions. For more information, see [Configuration](#) in the Amazon MQ Developer Guide.

**⚠️ Important**

Making changes to a configuration does not apply the changes to the broker immediately. To apply your changes, you must wait for the next maintenance window or reboot the broker.

## URI

/v1/configurations/*configuration-id*/revisions

## HTTP methods

### GET

#### Operation ID: ListConfigurationRevisions

Returns a list of all revisions for the specified configuration.

#### Path parameters

Name	Type	Required	Description
<i>configuration-id</i>	String	True	The unique ID that Amazon MQ generates for the configuration.

#### Query parameters

Name	Type	Required	Description
nextToken	String	False	The token that specifies the next page of results Amazon MQ should return. To request the first page, leave nextToken empty.

Name	Type	Required	Description
maxResults	String	False	The maximum number of brokers that Amazon MQ can return per page (20 by default). This value must be an integer from 5 to 100.

## Responses

Status code	Response model	Description
200	<a href="#">ListConfigurationRevisionsOutput</a>	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## OPTIONS

### Path parameters

Name	Type	Required	Description
<i>configuration-id</i>	String	True	The unique ID that Amazon MQ generates for the configuration.

### Responses

Status code	Response model	Description
200	None	200 response

## Schemas

### Response bodies

#### ListConfigurationRevisionsOutput schema

```
{
  "nextToken": "string",
  "maxResults": integer,
  "revisions": [
    {
      "created": "string",
      "description": "string",
      "revision": integer
    }
  ],
  "configurationId": "string"
}
```

#### Error schema

```
{
```

```
"errorAttribute": "string",
"message": "string"
}
```

## Properties

### ConfigurationRevision

Returns information about the specified configuration revision.

#### created

Required. The date and time of the configuration revision.

**Type:** string

**Required:** True

**Format:** date-time

#### description

The description of the configuration revision.

**Type:** string

**Required:** False

#### revision

Required. The revision number of the configuration.

**Type:** integer

**Required:** True

## Error

Returns information about an error.

### errorAttribute

The attribute which caused the error.

**Type:** string

**Required:** False

## message

The explanation of the error.

**Type:** string

**Required:** False

## ListConfigurationRevisionsOutput

Returns a list of all revisions for the specified configuration.

### nextToken

The token that specifies the next page of results Amazon MQ should return. To request the first page, leave nextToken empty.

**Type:** string

**Required:** False

### maxResults

The maximum number of configuration revisions that can be returned per page (20 by default). This value must be an integer from 5 to 100.

**Type:** integer

**Required:** False

### revisions

The list of all revisions for the specified configuration.

**Type:** Array of type [ConfigurationRevision](#)

**Required:** False

### configurationId

The unique ID that Amazon MQ generates for the configuration.

**Type:** string

**Required:** False

## See also

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

### ListConfigurationRevisions

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

## Configurations

This is a collection of configurations. A configuration contains all of the settings for your broker.

For more information, see [Configuration](#) and [Amazon MQ Broker Configuration Parameters](#) in the Amazon MQ Developer Guide.

You can create a configuration before creating any brokers. You can then apply the configuration to one or more brokers.

 **Important**

Making changes to a configuration does not apply the changes to the broker immediately.

To apply your changes, you must wait for the next maintenance window or reboot the broker.

## URI

/v1/configurations

## HTTP methods

### GET

#### Operation ID: ListConfigurations

Returns a list of all configurations.

#### Query parameters

Name	Type	Required	Description
nextToken	String	False	The token that specifies the next page of results Amazon MQ should return. To request the first page, leave nextToken empty.
maxResults	String	False	The maximum number of brokers that Amazon MQ can return per page (20 by default). This value must be an integer from 5 to 100.

#### Responses

Status code	Response model	Description
200	<a href="#">ListConfigurations Output</a>	HTTP Status Code 200: OK.

Status code	Response model	Description
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## POST

### Operation ID: CreateConfiguration

Creates a new configuration for the specified configuration name. Amazon MQ uses the default configuration (the engine type and version).

#### Responses

Status code	Response model	Description
200	<a href="#">CreateConfigurationOutput</a>	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your

Status code	Response model	Description
409	<a href="#">Error</a>	credentials and then retry your request.
500	<a href="#">Error</a>	HTTP Status Code 409: Conflict. This broker name already exists. Retry your request with another name.
		HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## OPTIONS

### Responses

Status code	Response model	Description
200	None	200 response

## Schemas

### Request bodies

#### POST schema

```
{  
  "engineVersion": "string",  
  "authenticationStrategy": enum,  
  "name": "string",  
  "engineType": enum,  
  "tags": {  
  }  
}
```

### Response bodies

## ListConfigurationsOutput schema

```
{  
    "nextToken": "string",  
    "maxResults": integer,  
    "configurations": [  
        {  
            "engineVersion": "string",  
            "created": "string",  
            "authenticationStrategy": enum,  
            "name": "string",  
            "description": "string",  
            "engineType": enum,  
            "id": "string",  
            "arn": "string",  
            "latestRevision": {  
                "created": "string",  
                "description": "string",  
                "revision": integer  
            },  
            "tags": {  
            }  
        }  
    ]  
}
```

## CreateConfigurationOutput schema

```
{  
    "created": "string",  
    "authenticationStrategy": enum,  
    "name": "string",  
    "id": "string",  
    "arn": "string",  
    "latestRevision": {  
        "created": "string",  
        "description": "string",  
        "revision": integer  
    }  
}
```

## Error schema

```
{  
  "errorAttribute  "message}
```

## Properties

### AuthenticationStrategy

Optional. The authentication strategy used to secure the broker. The default is SIMPLE.

SIMPLE

LDAP

### Configuration

Returns information about all configurations.

#### engineVersion

Required. The broker engine's version. For a list of supported engine versions, see, [Supported engines](#).

**Type:** string

**Required:** True

#### created

Required. The date and time of the configuration revision.

**Type:** string

**Required:** True

**Format:** date-time

#### authenticationStrategy

Optional. The authentication strategy associated with the configuration. The default is SIMPLE.

**Type:** [AuthenticationStrategy](#)

**Required:** True

### name

Required. The name of the configuration. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . \_ ~). This value must be 1-150 characters long.

**Type:** string

**Required:** True

### description

Required. The description of the configuration.

**Type:** string

**Required:** True

### engineType

Required. The type of broker engine. Currently, Amazon MQ supports ACTIVEMQ and RABBITMQ.

**Type:** [EngineType](#)

**Required:** True

### id

Required. The unique ID that Amazon MQ generates for the configuration.

**Type:** string

**Required:** True

### arn

Required. The ARN of the configuration.

**Type:** string

**Required:** True

## latestRevision

Required. The latest revision of the configuration.

**Type:** [ConfigurationRevision](#)

**Required:** True

## tags

The list of all tags associated with this configuration.

**Type:** object

**Required:** False

## ConfigurationRevision

Returns information about the specified configuration revision.

### created

Required. The date and time of the configuration revision.

**Type:** string

**Required:** True

**Format:** date-time

### description

The description of the configuration revision.

**Type:** string

**Required:** False

### revision

Required. The revision number of the configuration.

**Type:** integer

**Required:** True

## CreateConfigurationInput

Creates a new configuration for the specified configuration name. Amazon MQ uses the default configuration (the engine type and version).

### engineVersion

Required. The broker engine's version. For a list of supported engine versions, see [Supported engines](#).

**Type:** string

**Required:** True

### authenticationStrategy

Optional. The authentication strategy associated with the configuration. The default is SIMPLE.

**Type:** [AuthenticationStrategy](#)

**Required:** False

### name

Required. The name of the configuration. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . \_ ~). This value must be 1-150 characters long.

**Type:** string

**Required:** True

### engineType

Required. The type of broker engine. Currently, Amazon MQ supports ACTIVEMQ and RABBITMQ.

**Type:** [EngineType](#)

**Required:** True

### tags

Create tags when creating the configuration.

**Type:** object

**Required:** False

## CreateConfigurationOutput

Returns information about the created configuration.

### created

Required. The date and time of the configuration.

**Type:** string

**Required:** True

**Format:** date-time

### authenticationStrategy

Optional. The authentication strategy associated with the configuration. The default is SIMPLE.

**Type:** [AuthenticationStrategy](#)

**Required:** True

### name

Required. The name of the configuration. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . \_ ~). This value must be 1-150 characters long.

**Type:** string

**Required:** True

### id

Required. The unique ID that Amazon MQ generates for the configuration.

**Type:** string

**Required:** True

### arn

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

**Type:** string

**Required:** True

## latestRevision

The latest revision of the configuration.

**Type:** [ConfigurationRevision](#)

**Required:** False

## EngineType

The type of broker engine. Amazon MQ supports ActiveMQ and RabbitMQ.

ACTIVEMQ

RABBITMQ

## Error

Returns information about an error.

### errorAttribute

The attribute which caused the error.

**Type:** string

**Required:** False

### message

The explanation of the error.

**Type:** string

**Required:** False

## ListConfigurationsOutput

Returns a list of all configurations.

## nextToken

The token that specifies the next page of results Amazon MQ should return. To request the first page, leave nextToken empty.

**Type:** string

**Required:** False

## maxResults

The maximum number of configurations that Amazon MQ can return per page (20 by default). This value must be an integer from 5 to 100.

**Type:** integer

**Required:** False

## configurations

The list of all revisions for the specified configuration.

**Type:** Array of type [Configuration](#)

**Required:** False

## See also

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

## ListConfigurations

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

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

## CreateConfiguration

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

## Promote

Promotes a data replication replica broker to the primary broker role.

### URI

/v1/brokers/*broker-id*/promote

### HTTP methods

#### POST

##### Operation ID: Promote

Promotes a data replication replica broker to the primary broker role.

##### Path parameters

Name	Type	Required	Description
<i>broker-id</i>	String	True	The unique ID that Amazon MQ

Name	Type	Required	Description
			generates for the broker.

## Responses

Status code	Response model	Description
200	<a href="#">PromoteOutput</a>	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## OPTIONS

Promotes a data replication replica broker to the primary broker role.

## Path parameters

Name	Type	Required	Description
<i>broker-id</i>	String	True	The unique ID that Amazon MQ generates for the broker.

## Responses

Status code	Response model	Description
200	None	200 response

## Schemas

### Request bodies

#### POST schema

```
{  
  "mode": enum  
}
```

### Response bodies

#### PromoteOutput schema

```
{  
  "brokerId": "string"  
}
```

#### Error schema

```
{  
  "errorAttribute": "string",  
  "message": "string"
```

{}

## Properties

### Error

Returns information about an error.

#### errorAttribute

The attribute which caused the error.

**Type:** string

**Required:** False

#### message

The explanation of the error.

**Type:** string

**Required:** False

## PromoteInput

Creates a Promote request with the properties specified.

### mode

The Promote mode requested. Note: Valid values for the parameter are SWITCHOVER, FAILOVER.

**Type:** [PromoteMode](#)

**Required:** True

## PromoteMode

The Promote mode requested.

SWITCHOVER

FAILOVER

## PromoteOutput

Returns information about the updated broker.

### brokerId

The unique ID that Amazon MQ generates for the broker.

**Type:** string

**Required:** False

## See also

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

### Promote

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

## Tag

A tag is a key-value pair associated with a resource. You can use these metadata tags to identify the purpose of a broker or configuration. For more information see [Tagging resources](#) in the Amazon MQ Developer Guide.

## URI

/v1/tags/*resource-arn*

# HTTP methods

## GET

### Operation ID: ListTags

Lists tags for a resource.

#### Path parameters

Name	Type	Required	Description
<i>resource-arn</i>	String	True	The Amazon Resource Name (ARN) of the resource tag.

#### Responses

Status code	Response model	Description
200	<a href="#">Tags</a>	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server

Status code	Response model	Description
		error. Retrying your request might resolve the issue.

## POST

### Operation ID: CreateTags

Add a tag to a resource.

#### Path parameters

Name	Type	Required	Description
<i>resource-arn</i>	String	True	The Amazon Resource Name (ARN) of the resource tag.

#### Responses

Status code	Response model	Description
204	None	HTTP Status Code 204: Successful response.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to

Status code	Response model	Description
		incorrect input. Correct your request and then retry it.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## DELETE

### Operation ID: DeleteTags

Removes a tag from a resource.

#### Path parameters

Name	Type	Required	Description
<i>resource-arn</i>	String	True	The Amazon Resource Name (ARN) of the resource tag.

#### Query parameters

Name	Type	Required	Description
tagKeys	String	True	An array of tag keys to delete

#### Responses

Status code	Response model	Description
204	None	HTTP Status Code 204: Successful response.

Status code	Response model	Description
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## OPTIONS

### Path parameters

Name	Type	Required	Description
<i>resource-arn</i>	String	True	The Amazon Resource Name (ARN) of the resource tag.

### Responses

Status code	Response model	Description
200	None	200 response

# Schemas

## Request bodies

### POST schema

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

## Response bodies

### Tags schema

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

### Error schema

```
{  
  "errorAttribute": "string",  
  "message": "string"  
}
```

# Properties

## Error

Returns information about an error.

### errorAttribute

The attribute which caused the error.

**Type:** string

**Required:** False

## message

The explanation of the error.

**Type:** string

**Required:** False

## Tags

A map of the key-value pairs for the resource tag.

### tags

The key-value pair for the resource tag.

**Type:** object

**Required:** False

## See also

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

### ListTags

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

- [AWS SDK for Ruby V3](#)

## CreateTags

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

## DeleteTags

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

## User

 **Note**

Does not apply to RabbitMQ brokers.

An ActiveMQ user is a person or an application that can access the queues and topics of an ActiveMQ broker. For more information, see [User](#) in the Amazon MQ Developer Guide.

A user can belong to a group. You can configure which users belong to which groups and which groups have permission to send to, receive from, and administer specific queues and topics.

### **Important**

Making changes to a user does not apply the changes to the user immediately. To apply your changes, you must wait for the next maintenance window or reboot the broker.

## URI

/v1/brokers/*broker-id*/users/*username*

## HTTP methods

### GET

#### Operation ID: DescribeUser

Returns information about an ActiveMQ user.

#### Path parameters

Name	Type	Required	Description
<i>username</i>	String	True	The username of the ActiveMQ user. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . _ ~). This value must be 2-100 characters long.

Name	Type	Required	Description
<i>broker-id</i>	String	True	The unique ID that Amazon MQ generates for the broker.

## Responses

Status code	Response model	Description
200	<a href="#">DescribeUserOutput</a>	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## POST

### Operation ID: CreateUser

Creates an ActiveMQ user.

**⚠️ Important**

Do not add personally identifiable information (PII) or other confidential or sensitive information in broker usernames. Broker usernames are accessible to other AWS services, including CloudWatch Logs. Broker usernames are not intended to be used for private or sensitive data.

## Path parameters

Name	Type	Required	Description
<i>username</i>	String	True	The username of the ActiveMQ user. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . _ ~). This value must be 2-100 characters long.
<i>broker-id</i>	String	True	The unique ID that Amazon MQ generates for the broker.

## Responses

Status code	Response model	Description
200	None	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

Status code	Response model	Description
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
409	<a href="#">Error</a>	HTTP Status Code 409: Conflict. This broker name already exists. Retry your request with another name.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## PUT

### Operation ID: UpdateUser

Updates the information for an ActiveMQ user.

#### Path parameters

Name	Type	Required	Description
<i>username</i>	String	True	The username of the ActiveMQ user. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . _)

Name	Type	Required	Description
			~). This value must be 2-100 characters long.
<i>broker-id</i>	String	True	The unique ID that Amazon MQ generates for the broker.

## Responses

Status code	Response model	Description
200	None	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
409	<a href="#">Error</a>	HTTP Status Code 409: Conflict. This broker name already exists. Retry your request with another name.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server

Status code	Response model	Description
		error. Retrying your request might resolve the issue.

## DELETE

### Operation ID: DeleteUser

Deletes an ActiveMQ user.

#### Path parameters

Name	Type	Required	Description
<i>username</i>	String	True	The username of the ActiveMQ user. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . _ ~). This value must be 2-100 characters long.
<i>broker-id</i>	String	True	The unique ID that Amazon MQ generates for the broker.

#### Responses

Status code	Response model	Description
200	None	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect

Status code	Response model	Description
		input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## OPTIONS

### Path parameters

Name	Type	Required	Description
<i>username</i>	String	True	The username of the ActiveMQ user. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . _ ~). This value must be 2-100 characters long.

Name	Type	Required	Description
<i>broker-id</i>	String	True	The unique ID that Amazon MQ generates for the broker.

## Responses

Status code	Response model	Description
200	None	200 response

## Schemas

### Request bodies

#### POST schema

```
{  
  "password": "string",  
  "replicationUser": boolean,  
  "groups": [  
    "string"  
  ],  
  "consoleAccess": boolean  
}
```

#### PUT schema

```
{  
  "password": "string",  
  "replicationUser": boolean,  
  "groups": [  
    "string"  
  ],  
  "consoleAccess": boolean  
}
```

## Response bodies

### DescribeUserOutput schema

```
{  
  "brokerId": "string",  
  "replicationUser": boolean,  
  "pending": {  
    "pendingChange": enum,  
    "groups": [  
      "string"  
    ],  
    "consoleAccess": boolean  
  },  
  "groups": [  
    "string"  
  ],  
  "consoleAccess": boolean,  
  "username": "string"  
}
```

### Error schema

```
{  
  "errorAttribute": "string",  
  "message": "string"  
}
```

## Properties

### ChangeType

The type of change pending for the ActiveMQ user.

CREATE  
UPDATE  
DELETE

### CreateUserInput

Creates a new ActiveMQ user.

## password

Required. The password of the user. This value must be at least 12 characters long, must contain at least 4 unique characters, and must not contain commas, colons, or equal signs (,:=).

**Type:** string

**Required:** True

**Format:** password

## replicationUser

Defines if this user is intended for CRDR replication purposes.

**Type:** boolean

**Required:** False

## groups

The list of groups (20 maximum) to which the ActiveMQ user belongs. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . \_ ~). This value must be 2-100 characters long.

**Type:** Array of type string

**Required:** False

## consoleAccess

Enables access to the ActiveMQ Web Console for the ActiveMQ user.

**Type:** boolean

**Required:** False

## DescribeUserOutput

Returns information about an ActiveMQ user.

### brokerId

Required. The unique ID that Amazon MQ generates for the broker.

**Type:** string

**Required:** True

### replicationUser

Describes whether the user is intended for disaster recovery replication

**Type:** boolean

**Required:** False

### pending

The status of the changes pending for the ActiveMQ user.

**Type:** [UserPendingChanges](#)

**Required:** False

### groups

The list of groups (20 maximum) to which the ActiveMQ user belongs. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . \_ ~). This value must be 2-100 characters long.

**Type:** Array of type string

**Required:** False

### consoleAccess

Enables access to the the ActiveMQ Web Console for the ActiveMQ user.

**Type:** boolean

**Required:** False

### username

Required. The username of the ActiveMQ user. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . \_ ~). This value must be 2-100 characters long.

**Type:** string

**Required:** True

## Error

Returns information about an error.

### errorAttribute

The attribute which caused the error.

**Type:** string

**Required:** False

### message

The explanation of the error.

**Type:** string

**Required:** False

## UpdateUserInput

Updates the information for an ActiveMQ user.

### password

The password of the user. This value must be at least 12 characters long, must contain at least 4 unique characters, and must not contain commas, colons, or equal signs (,:=).

**Type:** string

**Required:** False

**Format:** password

### replicationUser

Defines whether the user is intended for disaster recovery replication.

**Type:** boolean

**Required:** False

## groups

The list of groups (20 maximum) to which the ActiveMQ user belongs. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . \_ ~). This value must be 2-100 characters long.

**Type:** Array of type string

**Required:** False

## consoleAccess

Enables access to the the ActiveMQ Web Console for the ActiveMQ user.

**Type:** boolean

**Required:** False

## UserPendingChanges

Returns information about the status of the changes pending for the ActiveMQ user.

### pendingChange

Required. The type of change pending for the ActiveMQ user.

**Type:** [ChangeType](#)

**Required:** True

## groups

The list of groups (20 maximum) to which the ActiveMQ user belongs. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . \_ ~). This value must be 2-100 characters long.

**Type:** Array of type string

**Required:** False

## consoleAccess

Enables access to the the ActiveMQ Web Console for the ActiveMQ user.

**Type:** boolean

**Required:** False

## See also

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

### DescribeUser

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

### CreateUser

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

## UpdateUser

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

## DeleteUser

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

## Users

 **Note**

Does not apply to RabbitMQ brokers.

This is a collection of ActiveMQ users for the specified broker. An ActiveMQ user is a person or an application that can access the queues and topics of an ActiveMQ broker. For more information, see [User](#) in the Amazon MQ Developer Guide.

You can configure to have specific permissions. For example, you can allow some users to access the [ActiveMQ Web Console](#).

A user can belong to a group. You can configure which users belong to which groups and which groups have permission to send to, receive from, and administer specific queues and topics.

### **Important**

Making changes to a user does not apply the changes to the user immediately. To apply your changes, you must wait for the next maintenance window or reboot the broker.

## URI

/v1/brokers/*broker-id*/users

## HTTP methods

### GET

#### Operation ID: ListUsers

Returns a list of all ActiveMQ users.

#### Path parameters

Name	Type	Required	Description
<i>broker-id</i>	String	True	The unique ID that Amazon MQ generates for the broker.

## Query parameters

Name	Type	Required	Description
nextToken	String	False	The token that specifies the next page of results Amazon MQ should return. To request the first page, leave nextToken empty.
maxResults	String	False	The maximum number of brokers that Amazon MQ can return per page (20 by default). This value must be an integer from 5 to 100.

## Responses

Status code	Response model	Description
200	<a href="#">ListUsersOutput</a>	HTTP Status Code 200: OK.
400	<a href="#">Error</a>	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	<a href="#">Error</a>	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	<a href="#">Error</a>	HTTP Status Code 404: Resource not found due to

Status code	Response model	Description
		incorrect input. Correct your request and then retry it.
500	<a href="#">Error</a>	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

## OPTIONS

### Path parameters

Name	Type	Required	Description
<i>broker-id</i>	String	True	The unique ID that Amazon MQ generates for the broker.

### Responses

Status code	Response model	Description
200	None	200 response

## Schemas

### Response bodies

#### ListUsersOutput schema

```
{
  "brokerId": "string",
  "nextToken": "string",
  "maxResults": integer,
  "users": [
    ...
  ]
}
```

```
{  
    "pendingChange": enum,  
    "username": "string"  
}  
]  
}
```

## Error schema

```
{  
    "errorAttribute": "string",  
    "message": "string"  
}
```

## Properties

### ChangeType

The type of change pending for the ActiveMQ user.

CREATE  
UPDATE  
DELETE

### Error

Returns information about an error.

#### errorAttribute

The attribute which caused the error.

**Type:** string  
**Required:** False

#### message

The explanation of the error.

**Type:** string

**Required:** False

## ListUsersOutput

Returns a list of all ActiveMQ users.

### brokerId

Required. The unique ID that Amazon MQ generates for the broker.

**Type:** string

**Required:** True

### nextToken

The token that specifies the next page of results Amazon MQ should return. To request the first page, leave nextToken empty.

**Type:** string

**Required:** False

### maxResults

Required. The maximum number of ActiveMQ users that can be returned per page (20 by default). This value must be an integer from 5 to 100.

**Type:** integer

**Required:** True

**Minimum:** 5

**Maximum:** 100

### users

Required. The list of all ActiveMQ usernames for the specified broker. Does not apply to RabbitMQ brokers.

**Type:** Array of type [UserSummary](#)

**Required:** True

## UserSummary

Returns a list of all broker users. Does not apply to RabbitMQ brokers.

### pendingChange

The type of change pending for the broker user.

**Type:** [ChangeType](#)

**Required:** False

### username

Required. The username of the broker user. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (- . \_ ~). This value must be 2-100 characters long.

**Type:** string

**Required:** True

## See also

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

### ListUsers

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

# Operations

The Amazon MQ REST API includes the following operations.

- [CreateBroker](#)

Creates a broker. Note: This API is asynchronous.

To create a broker, you must either use the `AmazonMQFullAccess` IAM policy or include the following EC2 permissions in your IAM policy.

- `ec2:CreateNetworkInterface`

This permission is required to allow Amazon MQ to create an elastic network interface (ENI) on behalf of your account.

- `ec2:CreateNetworkInterfacePermission`

This permission is required to attach the ENI to the broker instance.

- `ec2:DeleteNetworkInterface`
- `ec2:DeleteNetworkInterfacePermission`
- `ec2:DetachNetworkInterface`
- `ec2:DescribeInternetGateways`
- `ec2:DescribeNetworkInterfaces`
- `ec2:DescribeNetworkInterfacePermissions`
- `ec2:DescribeRouteTables`
- `ec2:DescribeSecurityGroups`
- `ec2:DescribeSubnets`
- `ec2:DescribeVpcs`

For more information, see [Create an IAM User and Get Your AWS Credentials](#) and [Never Modify or Delete the Amazon MQ Elastic Network Interface](#) in the *Amazon MQ Developer Guide*.

- [CreateConfiguration](#)

Creates a new configuration for the specified configuration name. Amazon MQ uses the default configuration (the engine type and version).

- [CreateTags](#)

Add a tag to a resource.

- [CreateUser](#)

Creates an ActiveMQ user.

 **Important**

Do not add personally identifiable information (PII) or other confidential or sensitive information in broker usernames. Broker usernames are accessible to other AWS services, including CloudWatch Logs. Broker usernames are not intended to be used for private or sensitive data.

- [DeleteBroker](#)

Deletes a broker. Note: This API is asynchronous.

- [DeleteTags](#)

Removes a tag from a resource.

- [DeleteUser](#)

Deletes an ActiveMQ user.

- [DescribeBroker](#)

Returns information about the specified broker.

- [DescribeBrokerEngineTypes](#)

Describe available engine types and versions.

- [DescribeBrokerInstanceOptions](#)

Describe available broker instance options.

- [DescribeConfiguration](#)

Returns information about the specified configuration.

- [DescribeConfigurationRevision](#)

Returns the specified configuration revision for the specified configuration.

- [DescribeUser](#)

Returns information about an ActiveMQ user.

- [ListBrokers](#)

Returns a list of all brokers.

- [ListConfigurationRevisions](#)

Returns a list of all revisions for the specified configuration.

- [ListConfigurations](#)

Returns a list of all configurations.

- [ListTags](#)

Lists tags for a resource.

- [ListUsers](#)

Returns a list of all ActiveMQ users.

- [Promote](#)

Promotes a data replication replica broker to the primary broker role.

- [RebootBroker](#)

Reboots a broker. Note: This API is asynchronous.

- [UpdateBroker](#)

Adds a pending configuration change to a broker.

- [UpdateConfiguration](#)

Updates the specified configuration.

- [UpdateUser](#)

Updates the information for an ActiveMQ user.