Amazon MQ

REST API Reference

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 that makes it easy to set up and operate message brokers in the cloud. Amazon MQ works with your existing applications and services without the need to manage, operate, or maintain your own messaging system.

You can access your brokers by using any programming language that ActiveMQ supports and by enabling TLS explicitly for the following protocols:

- AMQP
- MQTT
- MQTT over WebSocket
- OpenWire
- STOMP
- STOMP over WebSocket

Topics

Additional Information

- Amazon MQ Product Page
- *Amazon MQ Developer Guide*
- Amazon MQ in the *AWS CLI Command Reference*
- Regions and Endpoints

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Example REST Request

The following is an example of an Amazon MQ REST request (and its headers) which creates a new 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": "MyBroker",
```

```
        "hostInstanceType": "mq.m5.large",
        "engineType": "ActiveMQ",
        "engineVersion": "5.15.6",
        "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"
        }]
}
```

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-3i45j6k17l8l9",
    "brokerArn": "arn:aws:mq:us-
east-2:123456789012:broker:MyBroker:b-1234a5b6-78cd-901e-2fgh-3i45j6k17l8l9"
}
```

Resources

The Amazon MQ REST API includes the following resources.

Topics

Broker

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 in the *Amazon MQ Developer Guide*.

URI

`/v1/brokers/`*`broker-id`*

HTTP Methods

DELETE

Deletes a broker.

> **Note**
> This API is asynchronous.

Path

Name	Type	Description
broker-id	string	The name of the broker. 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 whitespaces, brackets, wildcard characters, or special characters.

Response

Status Code	Schema	Description
200	DeleteBrokerOutput (p. 12)	HTTP Status Code 200: OK.

GET

Returns information about the specified broker.

Path

Name	Type	Description
broker-id	string	The name of the broker. 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 whitespaces, brackets, wildcard characters, or special characters.

Response

Status Code	Schema	Description
200	DescribeBrokerOutput (p. 8)	HTTP Status Code 200: OK.

PUT

Adds a pending configuration change to a broker.

Body

Name	Type	Description
UpdateBrokerInput	UpdateBrokerInput (p. 7)	Updates the broker using the specified properties.

Path

Name	Type	Description
broker-id	string	The name of the broker. 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 whitespaces, brackets, wildcard characters, or special characters.

Response

Status Code	Schema	Description
200	UpdateBrokerOutput (p. 12)	HTTP Status Code 200: OK.

Errors

Errors

Status Code	Schema	Description
400	Error (p. 12)	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	Error (p. 12)	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	Error (p. 12)	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
409	Error (p. 12)	HTTP Status Code 409: Conflict. Concurrent broker update detected. Retrying your request might resolve the issue.
500	Error (p. 12)	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

Schemas

Request Schemas

Example UpdateBrokerInput

```
{
    "logs": {
        "general": true,
        "audit": false
    },
    "configuration": {
        "id": "c-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
        "revision": 3
    }
}
```

Response Schemas

Example DescribeBrokerOutput

```
{
    "brokerArn": "arn:aws:mq:us-
east-2:123456789012:broker:MyBroker:b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
    "brokerId" : "b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
    "brokerName": "MyBroker",
    "brokerState": "CREATION_IN_PROGRESS",
    "engineType": "ActiveMQ",
    "engineVersion": "5.15.0",
    "pendingEngineVersion": "5.15.6",
```

```
    "hostInstanceType": "mq.m5.large",
    "publiclyAccessible": true,
    "autoMinorVersionUpgrade": false,
    "deploymentMode": "ACTIVE_STANDBY_MULTI_AZ",
    "subnetIds": [
        "subnet-12a3b45c",
        "subnet-67d8e90f"
    ],
    "securityGroups": [
        "sg-a1b234cd",
        "sg-e5f678gh"
    ],
    "brokerInstances": [{
        "consoleURL": "https://b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9-1.mq.us-
east-2.amazonaws.com:8162",
        "endpoints": [
            "ssl://b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9-1.mq.us-
east-2.amazonaws.com:61617",
            "amqp+ssl://b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9-1.mq.us-
east-2.amazonaws.com:5671",
            "stomp+ssl://b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9-1.mq.us-
east-2.amazonaws.com:61614",
            "mqtt+ssl://b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9-1.mq.us-
east-2.amazonaws.com:8883",
            "wss://b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9-1.mq.us-
east-2.amazonaws.com:61619"
        ]
    }, {
        "consoleURL": "https://b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9-2.mq.us-
east-2.amazonaws.com:8162",
        "endpoints": [
            "ssl://b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9-2.mq.us-
east-2.amazonaws.com:61617",
            "amqp+ssl://b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9-2.mq.us-
east-2.amazonaws.com:5671",
            "stomp+ssl://b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9-2.mq.us-
east-2.amazonaws.com:61614",
            "mqtt+ssl://b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9-2.mq.us-
east-2.amazonaws.com:8883",
            "wss://b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9-2.mq.us-
east-2.amazonaws.com:61619"
        ]
    }],
    "maintenanceWindowStartTime": {
        "timeOfDay": "13:00",
        "dayOfWeek": "SUNDAY",
        "timeZone": "UTC"
    },
    "logs": {
        "general": true,
        "generalLogGroup": "/aws/amazonmq/broker/b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9-2/
general",
        "audit": true,
        "auditLogGroup": "/aws/amazonmq/broker/b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9-2/
audit",
        "pending": {
            "general": true,
            "audit": false
        }
    },
    "configurations": {
        "pending": {
            "id": "c-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
            "revision": 3
        },
        "history": [{
```

```
                "id": "c-l987k6j5-48ih-321g-0fed-9c87b6a545l2",
                "revision": 2
        }, {
                "id": "c-9876a5b4-32cd-101e-2fgh-3i45j6k178l9",
                "revision": 1
        }]
    },
    "users": [{
        "username": "jane.doe"
    }, {
        "username": "paolo.santos"
    }],
    "created": "2017-11-28T01:23:45.678Z"
}
```

Example UpdateBrokerOutput

```
{
    "brokerId" : "b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
    "logs": {
        "general": true,
        "audit": false
    },
    "configuration": {
        "id": "c-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
        "revision": 3
    }
}
```

Example DeleteBrokerOutput

```
{
    "brokerId" : "b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9"
}
```

Example Error

```
{
    "errorAttribute": "TheAttributeWhichCausedTheError",
    "message": "This is the description of the error and the steps to resolve the issue."
}
```

Attributes

UpdateBrokerInput

Attribute	Type	Description
autoMinorVersionUpgrade	Boolean	Enables automatic upgrades to new minor versions for brokers, as Apache releases the versions. The automatic upgrades occur during the maintenance window of the broker or after a manual broker reboot.
configuration	ConfigurationId (p. 8)	A list of information about the configuration.

Attribute	Type	Description
engineVersion	enum	The version of the broker engine. **Possible values:** `5.15.6`, `5.15.0`.
logs	Logs (p. 20)	Enables Amazon CloudWatch logging for brokers.

ConfigurationId

Attribute	Type	Description
id	string	**Required** The unique ID that Amazon MQ generates for the configuration.
revision	integer	The revision number of the configuration.

Logs

Attribute	Type	Description
audit	Boolean	Enables audit logging. Every user management action made using JMX or the ActiveMQ Web Console is logged.
general	Boolean	Enables general logging.

DescribeBrokerOutput

Attribute	Type	Description
autoMinorVersionUpgrade	Boolean	**Required** Enables automatic upgrades to new minor versions for brokers, as Apache releases the versions. The automatic upgrades occur during the maintenance window of the broker or after a manual broker reboot.
brokerArn	string	The Amazon Resource Name (ARN) of the broker.
brokerId	string	The unique ID that Amazon MQ generates for the broker.
brokerInstances	array	A list of information about allocated brokers.
brokerName	string	The name of the broker. This value must be unique in your AWS

Attribute	Type	Description
		account, 1-50 characters long, must contain only letters, numbers, dashes, and underscores, and must not contain whitespaces, brackets, wildcard characters, or special characters.

`brokerState`	enum	The status of the broker.
		
		Possible values:
		`CREATION_IN_PROGRESS,`
		`CREATION_FAILED,`
		`DELETION_IN_PROGESS, RUNNING,`
		`REBOOT_IN_PROGRESS`

`configurations`	Configurations (p. 10)	The list of all revisions for the specified configuration.
`created`	string (date-time)	The time when the broker was created.

`deploymentMode`	enum	**Required**
		
		The deployment mode of the broker.
		
		Possible values:
		`SINGLE_INSTANCE,`
		`ACTIVE_STANDBY_MULTI_AZ`
		
		`SINGLE_INSTANCE` creates a single-instance broker in a single Availability Zone. `ACTIVE_STANDBY_MULTI_AZ` creates an active/standby broker for high availability.

`engineType`	enum	**Required** The type of broker engine. > **Note** > Currently, Amazon MQ > supports only `ACTIVEMQ`.
`engineVersion`	enum	The version of the broker engine. **Possible values:** `5.15.6, 5.15.0`.
`hostInstanceType`	enum	The broker's instance type. **Possible values:** `mq.t2.micro, mq.m5.large, mq.m5.xlarge, mq.m5.2xlarge, mq.m5.4xlarge, mq.m4.large`
`logs`	LogsSummary (p. 11)	The list of information about logs currently enabled and pending to be deployed for the specified broker.

Attribute	Type	Description
maintenanceWindowStartTime	WeeklyStartTime (p. 11)	The parameters that determine the WeeklyStartTime.
pendingEngineVersion	string	The version of the broker engine to upgrade to.
publiclyAccessible	Boolean	**Required** Enables connections from applications outside of the VPC that hosts the broker's subnets.
securityGroups	array	**Required** The list of rules (1 minimum, 125 maximum) that authorize connections to brokers.
subnetIds	array	The list of groups (2 maximum) that define which subnets and IP ranges the broker can use from different Availability Zones. A SINGLE_INSTANCE deployment requires one subnet (for example, the default subnet). An ACTIVE_STANDBY_MULTI_AZ deployment requires two subnets.
users	array	The list of all ActiveMQ usernames for the specified broker.

BrokerInstance

Attribute	Type	Description
consoleURL	string	The URL of the broker's ActiveMQ Web Console.
endpoints	array	The broker's wire-level protocol endpoints.
ipAddress	string	The IP address of the Elastic Network Interface (ENI) attached to the broker.

Configurations

Attribute	Type	Description
current	ConfigurationId (p. 8)	The current configuration of the broker.
history	array	The history of configurations applied to the broker.

Attribute	Type	Description
pending	ConfigurationId (p. 8)	The pending configuration of the broker.

LogsSummary

Attribute	Type	Description
audit	Boolean	Enables audit logging. Every user management action made using JMX or the ActiveMQ Web Console is logged.
auditLogGroup	string	The location of the CloudWatch Logs log group where audit logs are sent.
general	Boolean	Enables general logging.
generalLogGroup	string	The location of the CloudWatch Logs log group where general logs are sent.
pending	PendingLogs (p. 11)	The list of information about logs pending to be deployed for the specified broker.

PendingLogs

Attribute	Type	Description
audit	Boolean	Enables audit logging. Every user management action made using JMX or the ActiveMQ Web Console is logged.
general	Boolean	Enables general logging.

WeeklyStartTime

Attribute	Type	Description
dayOfWeek	string	**Required** The day of the week.
timeOfDay	string	**Required** The time, in 24-hour format.
timeZone	string	The time zone, UTC by default, in either the Country/City format, or the UTC offset format.

UserSummary

Attribute	Type	Description
pendingChange	enum	The type of change pending for the ActiveMQ user. **Possible values:** CREATE, UPDATE, DELETE
username	string	**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.

UpdateBrokerOutput

Attribute	Type	Description
autoMinorVersionUpgrade	Boolean	The new value of automatic upgrades to new minor version for brokers.
brokerId	string	**Required** The unique ID that Amazon MQ generates for the broker.
configuration	ConfigurationId (p. 8)	The ID of the updated configuration.
engineVersion	enum	The version of the broker engine to upgrade to.
logs	Logs (p. 20)	The list of information about logs to be enabled for the specified broker.

DeleteBrokerOutput

Attribute	Type	Description
brokerId	string	The unique ID that Amazon MQ generates for the broker.

Error

Attribute	Type	Description
errorAttribute	string	The attribute which caused the error.
message	string	The explanation of the error.

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

Reboots a broker.

Note
This API is asynchronous.

Path

Name	Type	Description
broker-id	`string`	The unique ID that Amazon MQ generates for the broker.

Response

Status Code	Schema	Description
`200`	None	HTTP Status Code 200: OK.

Errors

Errors

Status Code	Schema	Description
`400`	Error (p. 14)	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
`403`	Error (p. 14)	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
`404`	Error (p. 14)	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
`500`	Error (p. 14)	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

Schemas

Response Schemas

Example Error

```
{
    "errorAttribute": "TheAttributeWhichCausedTheError",
    "message": "This is the description of the error and the steps to resolve the issue."
}
```

Attributes

Error

Attribute	Type	Description
errorAttribute	string	The attribute which caused the error.
message	string	The explanation of the error.

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 in the *Amazon MQ Developer Guide*.

URI

`/v1/brokers`

HTTP Methods

GET

Returns a list of all brokers.

Query

Name	Type	Description
maxResults	integer	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.
nextToken	string	The token that specifies the next page of results Amazon MQ should return. To request the first page, leave `nextToken` empty.

Response

Status Code	Schema	Description
200	ListBrokersOutput (p. 21)	HTTP Status Code 200: OK.

POST

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*.

Body

Name	Type	Description
CreateBrokerInput	CreateBrokerInput (p. 18)	Creates a broker using the specified properties.

Response

Status Code	Schema	Description
200	CreateBrokerOutput (p. 22)	HTTP Status Code 200: OK.

Errors

Errors

Status Code	Schema	Description
400	Error (p. 22)	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
401	Error (p. 22)	HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.
403	Error (p. 22)	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
409	Error (p. 22)	HTTP Status Code 409: Conflict. This broker name already exists. Retry your request with another name.
500	Error (p. 22)	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

Schemas

Request Schemas

Example CreateBrokerInput

```
{
    "brokerName": "MyBroker",
    "hostInstanceType": "mq.m5.large",
    "engineType": "ActiveMQ",
    "engineVersion": "5.15.6",
    "logs": {
        "general": true,
        "audit": false
    },
    "configuration": {
        "id": "c-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
        "revision": 3
    },
    "creatorRequestId": "kji10h98-76g5-43f2-10ed-9cb8a7654321",
    "deploymentMode": "ACTIVE_STANDBY_MULTI_AZ",
    "publiclyAccessible": true,
    "subnetIds": [
        "subnet-12a3b45c",
        "subnet-67d8e90f"
    ],
    "securityGroups": [
        "sg-a1b234cd",
        "sg-e5f678gh"
    ],
    "autoMinorVersionUpgrade": true,
    "maintenanceWindowStartTime": {
        "timeOfDay": "13:00",
```

```
        "dayOfWeek": "SUNDAY",
        "timeZone": "UTC"
    },
    "users": [{
        "password": "MyPassword456",
        "groups": [
            "admins"
        ],
        "consoleAccess": true,
        "username": "jane.doe"
    }, {
        "password": "MyPassword654",
        "groups": [
            "support"
        ],
        "consoleAccess": true,
        "username": "paolo.santos"
    }]
}
```

Response Schemas

Example ListBrokersOutput

```
{
    "nextToken":
 "eyEXAMPLEW9uIjoidjEiLCJzZXJpYWxpemVkUGFnaW5hdGlvblRva2VuIjoiZXlKMGIydGxia1JoZEFU9uc2liR0Z6ZEMxelpXXXXX
    "brokerSummaries": [
        {
            "brokerId" : "b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
            "brokerArn": "arn:aws:mq:us-
east-2:123456789012:broker:MyBroker1:b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
            "brokerState": "RUNNING",
            "brokerName": "MyBroker1",
            "deploymentMode": "SINGLE_INSTANCE",
            "hostInstanceType": "mq.t2.micro",
            "created": "2017-11-28T01:23:45.678Z"
        },
        {
            "brokerId" : "b-9876l5k4-32ji-109h-8gfe-7d65c4b132a1",
            "brokerArn": "arn:aws:mq:us-
east-2:123456789012:broker:MyBroker2:b-9876l5k4-32ji-109h-8gfe-7d65c4b132a1",
            "brokerState": "DELETION_IN_PROGRESS",
            "brokerName": "MyBroker2",
            "deploymentMode": "ACTIVE_STANDBY_MULTI_AZ",
            "hostInstanceType": "mq.m5.large",
            "created": "2017-11-29T01:23:45.678Z"
        }
    ]
}
```

Example CreateBrokerOutput

```
{
    "brokerId" : "b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
    "brokerArn": "arn:aws:mq:us-
east-2:123456789012:broker:MyBroker:b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9"
}
```

Example Error

```
{
```

```
        "errorAttribute": "TheAttributeWhichCausedTheError",
        "message": "This is the description of the error and the steps to resolve the issue."
}
```

Attributes

CreateBrokerInput

Attribute	Type	Description
autoMinorVersionUpgrade	Boolean	**Required** Enables automatic upgrades to new minor versions for brokers, as Apache releases the versions. The automatic upgrades occur during the maintenance window of the broker or after a manual broker reboot.
brokerName	string	**Required** The name of the broker. 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 whitespaces, brackets, wildcard characters, or special characters.
configuration	ConfigurationId (p. 20)	A list of information about the configuration.
creatorRequestId	string	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.

deploymentMode	enum	**Required**
		
		The deployment mode of the broker.
		
		Possible values:
		`SINGLE_INSTANCE,`
		`ACTIVE_STANDBY_MULTI_AZ`
		
		`SINGLE_INSTANCE` creates a single-instance broker in

Attribute	Type	Description
		a single Availability Zone. `ACTIVE_STANDBY_MULTI_AZ` creates an active/standby broker for high availability.
`engineType`	enum	**Required** The type of broker engine. > **Note** > Currently, Amazon MQ supports only `ACTIVEMQ`.
`engineVersion`	enum	**Required** The version of the broker engine. **Possible values:** `5.15.6`, `5.15.0`.
`hostInstanceType`	enum	**Required** The broker's instance type. **Possible values:** `mq.t2.micro`, `mq.m5.large`, `mq.m5.xlarge`, `mq.m5.2xlarge`, `mq.m5.4xlarge`, `mq.m4.large`
`logs`	Logs (p. 20)	Enables Amazon CloudWatch logging for brokers.
`maintenanceWindowStartTime`	WeeklyStartTime (p. 20)	The parameters that determine the `WeeklyStartTime`.
`publiclyAccessible`	Boolean	**Required** Enables connections from applications outside of the VPC that hosts the broker's subnets.
`securityGroups`	array	The list of rules (1 minimum, 125 maximum) that authorize connections to brokers.
`subnetIds`	array	The list of groups (2 maximum) that define which subnets and IP ranges the broker can use from different Availability Zones. A `SINGLE_INSTANCE` deployment requires one subnet (for example, the default subnet). An `ACTIVE_STANDBY_MULTI_AZ` deployment requires two subnets.

Attribute	Type	Description
users	array	**Required** The list of ActiveMQ users (persons or applications) who can access queues and topics. This value can contain only alphanumeric characters, dashes, periods, underscores, and tildes (– . _ ~). This value must be 2-100 characters long.

ConfigurationId

Attribute	Type	Description
id	string	**Required** The unique ID that Amazon MQ generates for the configuration.
revision	integer	The revision number of the configuration.

Logs

Attribute	Type	Description
audit	Boolean	Enables audit logging. Every user management action made using JMX or the ActiveMQ Web Console is logged.
general	Boolean	Enables general logging.

WeeklyStartTime

Attribute	Type	Description
dayOfWeek	string	**Required** The day of the week.
timeOfDay	string	**Required** The time, in 24-hour format.
timeZone	string	The time zone, UTC by default, in either the Country/City format, or the UTC offset format.

User

Attribute	Type	Description
consoleAccess	Boolean	Enables access to the the ActiveMQ Web Console for the ActiveMQ user.
groups	array	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.
password	string (password)	**Required** The password of the ActiveMQ user. This value must be at least 12 characters long, must contain at least 4 unique characters, and must not contain commas.
username	string	**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.

ListBrokersOutput

Attribute	Type	Description
brokerSummaries	array	A list of information about all brokers.
nextToken	string	The token that specifies the next page of results Amazon MQ should return. To request the first page, leave nextToken empty.

BrokerSummary

Attribute	Type	Description
brokerArn	string	The Amazon Resource Name (ARN) of the broker.
brokerId	string	The unique ID that Amazon MQ generates for the broker.
brokerName	string	The name of the broker. This value must be unique in your AWS account, 1-50 characters long, must contain only letters, numbers,

Attribute	Type	Description
		dashes, and underscores, and must not contain whitespaces, brackets, wildcard characters, or special characters.
`brokerState`	enum	The status of the broker. **Possible values:** `CREATION_IN_PROGRESS`, `CREATION_FAILED`, `DELETION_IN_PROGESS`, `RUNNING`, `REBOOT_IN_PROGRESS`
`created`	string (date-time)	The time when the broker was created.
`deploymentMode`	enum	**Required** The deployment mode of the broker. **Possible values:** `SINGLE_INSTANCE`, `ACTIVE_STANDBY_MULTI_AZ` `SINGLE_INSTANCE` creates a single-instance broker in a single Availability Zone. `ACTIVE_STANDBY_MULTI_AZ` creates an active/standby broker for high availability.
`hostInstanceType`	enum	The broker's instance type. **Possible values:** `mq.t2.micro`, `mq.m5.large`, `mq.m5.xlarge`, `mq.m5.2xlarge`, `mq.m5.4xlarge`, `mq.m4.large`

CreateBrokerOutput

Attribute	Type	Description
`brokerArn`	string	The Amazon Resource Name (ARN) of the broker.
`brokerId`	string	The unique ID that Amazon MQ generates for the broker.

Error

Attribute	Type	Description
`errorAttribute`	string	The attribute which caused the error.
`message`	string	The explanation of the error.

Configuration

A *configuration* contains all of the settings for your ActiveMQ broker, in XML format. 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

Returns information about the specified configuration.

Path

Name	Type	Description
configuration-id	string	The unique ID that Amazon MQ generates for the configuration.

Response

Status Code	Schema	Description
200	Configuration (p. 26)	HTTP Status Code 200: OK.

PUT

Updates the specified configuration.

Body

Name	Type	Description
UpdateConfigurationInput	UpdateConfigurationInput (p. 1)	Updates the specified configuration.

Path

Name	Type	Description
configuration-id	string	The unique ID that Amazon MQ generates for the configuration.

Response

Status Code	Schema	Description
200	UpdateConfigurationOutput (p. 177)	HTTP Status Code 200: OK.

Errors

Errors

Status Code	Schema	Description
400	Error (p. 28)	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	Error (p. 28)	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	Error (p. 28)	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
409	Error (p. 28)	HTTP Status Code 409: Conflict. Concurrent update to configuration. Retry to create a new revision.
500	Error (p. 28)	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

Schemas

Request Schemas

Example UpdateConfigurationInput

```
{
    "description": "My basic configuration for working with an ActiveMQ broker.",
    "data":
 "lciEXAMPLEB4bWxucz0iaHR0cDovL2FjdGl2ZW1xLmFwYWNoZS5vcmcvc2NoZW1hL2NvcmUiCiAgICAgICAgHNpOnNjaGVtYTYUxvY
}
```

Response Schemas

Example Configuration

```
{
    "id": "c-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
    "name": "MyConfiguration",
    "arn": "arn:aws:mq:us-
east-2:123456789012:configuration:MyConfiguration:c-9876l5k4-32ji-109h-8gfe-7d65c4b132a1",
```

```
    "engineType": "ActiveMQ",
    "engineVersion": "5.15.6",
    "description": "My basic configuration for working with an ActiveMQ broker.",
    "created": "2017-11-28T01:23:45.678Z",
    "latestRevision": {
        "revision": 3,
        "description": "This is the third revision of the configuration. It improves
 application functionality.",
        "created": "2017-11-28T01:23:45.678Z"
    }
}
```

Example UpdateConfigurationOutput

```
{
    "id": "c-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
    "name": "MyConfiguration",
    "arn": "arn:aws:mq:us-
east-2:123456789012:configuration:MyConfiguration:c-9876l5k4-32ji-109h-8gfe-7d65c4b132a1",
    "created": "2017-11-28T01:23:45.678Z",
    "latestRevision": {
        "revision": 4,
        "description": "This is the fourth revision of the configuration. It improves
 application functionality.",
        "created": "2017-11-29T01:23:45.678Z"
    },
    "warnings": [{
        "elementName": "broker",
        "attributeName": "attrib",
        "reason": "DISALLOWED_ATTRIBUTE_REMOVED"
    }, {
        "elementName": "broker",
        "attributeName": "schemaLocation",
        "reason": "DISALLOWED_ATTRIBUTE_REMOVED"
    }, {
        "elementName": "element",
        "reason": "DISALLOWED_ELEMENT_REMOVED"
    }]
}
```

Example Error

```
{
    "errorAttribute": "TheAttributeWhichCausedTheError",
    "message": "This is the description of the error and the steps to resolve the issue."
}
```

Attributes

UpdateConfigurationInput

Attribute	Type	Description
data	string (byte)	**Required** The base64-encoded XML configuration.
description	string	The description of the configuration.

Configuration

Attribute	Type	Description
arn	string	**Required** The ARN of the configuration.
created	string (date-time)	**Required** The date and time of the configuration revision.
description	string	**Required** The description of the configuration.
engineType	enum	**Required** The type of broker engine. **Note** Currently, Amazon MQ supports only `ACTIVEMQ`.
engineVersion	enum	**Required** The version of the broker engine.
id	string	**Required** The unique ID that Amazon MQ generates for the configuration.
latestRevision	ConfigurationRevision (p. 26)	**Required** The latest revision of the configuration.
name	string	**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.

ConfigurationRevision

Attribute	Type	Description
created	string (date-time)	**Required** The date and time of the configuration revision.
description	string	The description of the configuration revision.
revision	integer	**Required**

Attribute	Type	Description
		The revision number of the configuration.

UpdateConfigurationOutput

Attribute	Type	Description
arn	string	**Required** The Amazon Resource Name (ARN) of the configuration.
created	string (date-time)	**Required** The date and time of the configuration.
id	string	**Required** The unique ID that Amazon MQ generates for the configuration.
latestRevision	ConfigurationRevision (p. 26)	The latest revision of the configuration.
name	string	**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.
warnings	array	The list of the first 20 warnings about the configuration XML elements or attributes that were sanitized.

SanitizationWarning

Attribute	Type	Description
attributeName	string	The name of the XML attribute that has been sanitized.
elementName	string	The name of the XML element that has been sanitized.
reason	enum	**Required** The reason for which the XML elements or attributes were sanitized.

Attribute	Type	Description

		Possible values:
		`DISALLOWED_ELEMENT_REMOVED,`
		`DISALLOWED_ATTRIBUTE_REMOVED,`
		`INVALID_ATTRIBUTE_VALUE_REMOVED`
		
		`DISALLOWED_ELEMENT_REMOVED` shows that the provided element isn't allowed and has been removed. `DISALLOWED_ATTRIBUTE_REMOVED` shows that the provided attribute isn't allowed and has been removed. `INVALID_ATTRIBUTE_VALUE_REMOVED` shows that the provided value for the attribute isn't allowed and has been removed.

Error

Attribute	Type	Description
`errorAttribute`	`string`	The attribute which caused the error.
`message`	`string`	The explanation of the error.

Configurations

This is a collection of configurations. A *configuration* contains all of the settings for your ActiveMQ broker, in XML format. 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

Returns a list of all configurations.

Query

Name	Type	Description
`maxResults`	`integer`	The maximum number of configurations that Amazon MQ can

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

Response

Status Code	Schema	Description
200	ListConfigurationsOutput (p. 42)	HTTP Status Code 200: OK.

POST

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

Body

Name	Type	Description
CreateConfigurationInput	CreateConfigurationInput (p. 34)	Creates a new configuration for the specified configuration name. Amazon MQ uses the default configuration (the engine type and version).

Response

Status Code	Schema	Description
200	CreateConfigurationOutput (p. 33)	HTTP Status Code 200: OK.

Errors

Errors

Status Code	Schema	Description
400	Error (p. 34)	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	Error (p. 34)	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
409	Error (p. 34)	HTTP Status Code 409: Conflict. This configuration name already exists.

Status Code	Schema	Description
		Retry your request with another configuration name.
500	Error (p. 34)	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

Schemas

Request Schemas

Example CreateConfigurationInput

```
{
    "name": "MyConfiguration",
    "engineType": "ActiveMQ",
    "engineVersion": "5.15.6"
}
```

Response Schemas

Example ListConfigurationsOutput

```
{
    "configurations": [{
        "id": "c-1234a5b6-78cd-901e-2fgh-3i45j6k17819",
        "name": "MyConfigurationDevelopment",
        "arn": "arn:aws:mq:us-
east-2:123456789012:configuration:MyConfigurationDevelopment:c-1234a5b6-78cd-901e-2fgh-3i45j6k17819",
        "engineType": "ActiveMQ",
        "engineVersion": "5.15.6",
        "description": "My configuration for programming for an ActiveMQ broker.",
        "created": "2017-11-28T01:23:45.678Z",
        "latestRevision": {
            "revision": 1,
            "description": "Auto-generated default for MyConfiguration on ActiveMQ
 5.15.6.",
            "created": "2017-11-27T01:23:45.678Z"
        }
    }, {
        "id": "c-1234a5b6-78cd-901e-2fgh-3i45j6k17819",
        "name": "MyConfigurationTesting",
        "arn": "arn:aws:mq:us-
east-2:123456789012:configuration:MyConfigurationTesting:c-9876l5k4-32ji-109h-8gfe-7d65c4b132a1",
        "engineType": "ActiveMQ",
        "engineVersion": "5.15.6",
        "description": "My configuration for testing with an ActiveMQ broker.",
        "created": "2017-11-29T01:23:45.678Z",
        "latestRevision": {
            "revision": 3,
            "description": "This is the third revision of a configuration for application
 testing. It improves application functionality.",
            "created": "2017-11-28T01:23:45.678Z"
        }
    }],
    "maxResults": 20,
```

```
        "nextToken":
 "eyEXAMPLEW9uIjoidjEiLCJzZXJpYWxpemVkUGFnaW5hdGlvblRva2VuIjoiZXlKMGIydGlxia1JoZEdfaU9uc2liR0Z6ZEMxelpXXV
}
```

Example CreateConfigurationOutput

```
{
    "id": "c-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
    "name": "MyConfiguration",
    "arn": "arn:aws:mq:us-
east-2:123456789012:configuration:MyConfiguration:c-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
    "created": "2017-11-27T01:23:45.678Z",
    "latestRevision": {
        "revision": 3,
        "description": "This is the third revision of the configuration. It improves
 application functionality.",
        "created": "2017-11-27T01:23:45.678Z"
    }
}
```

Example Error

```
{
    "errorAttribute": "TheAttributeWhichCausedTheError",
    "message": "This is the description of the error and the steps to resolve the issue."
}
```

Attributes

CreateConfigurationInput

Attribute	Type	Description
engineType	enum	**Required** The type of broker engine. **Note** Currently, Amazon MQ supports only `ACTIVEMQ`.
engineVersion	enum	**Required** The version of the broker engine. **Possible values:** `5.15.6`, `5.15.0`.
name	string	**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.

ListConfigurationsOutput

Attribute	Type	Description
configurations	array	The list of all revisions for the specified configuration.
maxResults	integer	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.
nextToken	string	The token that specifies the next page of results Amazon MQ should return. To request the first page, leave nextToken empty.

Configuration

Attribute	Type	Description
arn	string	**Required** The ARN of the configuration.
created	string (date-time)	**Required** The date and time of the configuration revision.
description	string	**Required** The description of the configuration.
engineType	enum	**Required** The type of broker engine. **Note** Currently, Amazon MQ supports only ACTIVEMQ.
engineVersion	enum	**Required** The version of the broker engine.
id	string	**Required** The unique ID that Amazon MQ generates for the configuration.
latestRevision	ConfigurationRevision (p. 33)	**Required** The latest revision of the configuration.
name	string	**Required** The name of the configuration. This value can contain only alphanumeric

Attribute	Type	Description
		characters, dashes, periods, underscores, and tildes (– . _ ~). This value must be 1-150 characters long.

ConfigurationRevision

Attribute	Type	Description
created	string (date-time)	**Required** The date and time of the configuration revision.
description	string	The description of the configuration revision.
revision	integer	**Required** The revision number of the configuration.

CreateConfigurationOutput

Attribute	Type	Description
arn	string	**Required** The Amazon Resource Name (ARN) of the configuration.
created	string (date-time)	**Required** The date and time of the configuration.
id	string	**Required** The unique ID that Amazon MQ generates for the configuration.
latestRevision	ConfigurationRevision (p. 33)	The latest revision of the configuration.
name	string	**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.

Error

Attribute	Type	Description
errorAttribute	string	The attribute which caused the error.
message	string	The explanation of the error.

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

Returns the specified configuration revision for the specified configuration.

Path

Name	Type	Description
configuration-id	string	The unique ID that Amazon MQ generates for the configuration.
configuration-revision	string	The revision of the configuration.

Response

Status Code	Schema	Description
200	DescribeConfigurationRevisionOutput (p. 44)	HTTP Status Code 200: OK.

Errors

Errors

Status Code	Schema	Description
400	Error (p. 36)	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.

Status Code	Schema	Description
403	Error (p. 36)	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	Error (p. 36)	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
500	Error (p. 36)	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

Schemas

Response Schemas

Example DescribeConfigurationRevisionOutput

```
{
    "configurationId": "c-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
    "revision": 1,
    "description": "Auto-generated default for MyConfiguration on ActiveMQ 5.15.6.",
    "data":
 "lciEXAMPLEB4bWxucz0iaHR0cDovL2FjdGl2ZW1xLmFwYWNoZS5vcmcvc2NoZW1hL2NvcmUiCiAgICAgICAgHNpOnNjaGVtYVYUxvУ
    "created": "2017-11-27T01:23:45.678Z"
}
```

Example Error

```
{
    "errorAttribute": "TheAttributeWhichCausedTheError",
    "message": "This is the description of the error and the steps to resolve the issue."
}
```

Attributes

DescribeConfigurationRevisionOutput

Attribute	Type	Description
configurationId	string	**Required** The unique ID that Amazon MQ generates for the configuration.
created	string (date-time)	**Required** The date and time of the configuration.
data	string (byte)	**Required** The base64-encoded XML configuration.

Attribute	Type	Description
description	string	The description of the configuration.

Error

Attribute	Type	Description
errorAttribute	string	The attribute which caused the error.
message	string	The explanation of the error.

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

Returns a list of all revisions for the specified configuration.

Path

Name	Type	Description
configuration-id	string	The unique ID that Amazon MQ generates for the configuration.

Query

Name	Type	Description
maxResults	integer	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.
nextToken	string	The token that specifies the next page of results Amazon MQ should

Name	Type	Description
		return. To request the first page, leave `nextToken` empty.

Response

Status Code	Schema	Description
200	ListConfigurationRevisionsOutput (p. 35)	HTTP Status Code 200: OK.

Errors

Errors

Status Code	Schema	Description
400	Error (p. 38)	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	Error (p. 38)	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	Error (p. 38)	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
500	Error (p. 38)	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

Schemas

Response Schemas

Example ListConfigurationRevisionsOutput

```
{
    "configurationId": "c-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
    "revisions": [{
        "revision": 1,
        "description": "Auto-generated default for MyConfiguration on ActiveMQ 5.15.6.",

        "created": "2017-11-28T01:23:45.678Z"
    }, {
        "revision": 2,
        "description": "This is the second revision of a configuration for application
development. It improves application functionality.",
        "created": "2017-11-29T01:23:45.678Z"
    }],
    "maxResults": 20,
    "nextToken":
"eyEXAMPLEW9uIjoidjEiLCJzZXJpYWxpemVkUGFnaW5hdGlvblRva2VuIjoiZXlKMGGIydGxia1JoZEFaU9uc2liR0Z6ZEMxelpXXV
```

```
}
```

Example Error

```
{
    "errorAttribute": "TheAttributeWhichCausedTheError",
    "message": "This is the description of the error and the steps to resolve the issue."
}
```

Attributes

ListConfigurationRevisionsOutput

Attribute	Type	Description
configurationId	string	The unique ID that Amazon MQ generates for the configuration.
maxResults	integer	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.
nextToken	string	The token that specifies the next page of results Amazon MQ should return. To request the first page, leave nextToken empty.
revisions	array	The list of all revisions for the specified configuration.

ConfigurationRevision

Attribute	Type	Description
created	string (date-time)	**Required** The date and time of the configuration revision.
description	string	The description of the configuration revision.
revision	integer	**Required** The revision number of the configuration.

Error

Attribute	Type	Description
errorAttribute	string	The attribute which caused the error.

Attribute	Type	Description
message	string	The explanation of the error.

User

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/*username*

HTTP Methods

DELETE

Deletes an ActiveMQ user.

Path

Name	Type	Description
broker-id	string	The unique ID that Amazon MQ generates for the broker.
username	string	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.

Response

Status Code	Schema	Description
200	None	HTTP Status Code 200: OK.

GET

Returns information about an ActiveMQ user.

Path

Name	Type	Description
broker-id	string	The unique ID that Amazon MQ generates for the broker.
username	string	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.

Response

Status Code	Schema	Description
200	DescribeUserOutput (p. 43)	HTTP Status Code 200: OK.

POST

Creates an ActiveMQ user.

Body

Name	Type	Description
CreateUserInput	CreateUserInput (p. 43)	Creates a new ActiveMQ user.

Path

Name	Type	Description
broker-id	string	The unique ID that Amazon MQ generates for the broker.
username	string	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.

Response

Status Code	Schema	Description
200	None	HTTP Status Code 200: OK.

PUT

Updates the information for an ActiveMQ user.

Body

Name	Type	Description
UpdateUserInput	UpdateUserInput (p. 43)	Updates the information for an ActiveMQ user.

Path

Name	Type	Description
broker-id	string	The unique ID that Amazon MQ generates for the broker.
username	string	**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.

Response

Status Code	Schema	Description
200	None	HTTP Status Code 200: OK.

Errors

Errors

Status Code	Schema	Description
400	Error (p. 44)	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	Error (p. 44)	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	Error (p. 44)	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
409	Error (p. 44)	HTTP Status Code 409: Conflict. Retrying your request might resolve the issue.
500	Error (p. 44)	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

Schemas

Request Schemas

Example UpdateUserInput

```
{
    "password": "MyPassword789",
    "consoleAccess": false,
    "groups": [
        "support"
    ]
}
```

Example CreateUserInput

```
{
    "password": "MyPassword456",
    "consoleAccess": true,
    "groups": [
        "admins"
    ]
}
```

Response Schemas

Example DescribeUserOutput

```
{
    "brokerId" : "b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
    "username": "jane.doe",
    "consoleAccess": true,
    "groups": [
        "support"
    ],
    "pending": {
        "pendingChange": "CREATE",
        "consoleAccess": true,
        "groups": [
            "admins"
        ]
    }
}
```

Example Error

```
{
    "errorAttribute": "TheAttributeWhichCausedTheError",
    "message": "This is the description of the error and the steps to resolve the issue."
}
```

Attributes

UpdateUserInput

Attribute	Type	Description
consoleAccess	Boolean	Enables access to the the ActiveMQ Web Console for the ActiveMQ user.
groups	array	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.
password	string (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.

CreateUserInput

Attribute	Type	Description
consoleAccess	Boolean	Enables access to the the ActiveMQ Web Console for the ActiveMQ user.
groups	array	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.
password	string (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.

DescribeUserOutput

Attribute	Type	Description
brokerId	string	**Required** The unique ID that Amazon MQ generates for the broker.

Attribute	Type	Description
`consoleAccess`	`Boolean`	Enables access to the the ActiveMQ Web Console for the ActiveMQ user.
`groups`	`array`	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.
`pending`	UserPendingChanges (p. 44)	The status of the changes pending for the ActiveMQ user.
`username`	`string`	**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.

UserPendingChanges

Attribute	Type	Description
`consoleAccess`	`Boolean`	Enables access to the the ActiveMQ Web Console for the ActiveMQ user.
`groups`	`array`	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.
`pendingChange`	`enum`	**Required** The type of change pending for the ActiveMQ user. **Possible values:** CREATE, UPDATE, DELETE

Error

Attribute	Type	Description
`errorAttribute`	`string`	The attribute which caused the error.
`message`	`string`	The explanation of the error.

Users

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

Returns a list of all ActiveMQ users.

Path

Name	Type	Description
broker-id	string	The unique ID that Amazon MQ generates for the broker.

Query

Name	Type	Description
maxResults	integer	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.
nextToken	string	The token that specifies the next page of results Amazon MQ should return. To request the first page, leave `nextToken` empty.

Response

Status Code	Schema	Description
200	ListUsersOutput (p. 46)	HTTP Status Code 200: OK.

Errors

Errors

Status Code	Schema	Description
400	Error (p. 47)	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
403	Error (p. 47)	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	Error (p. 47)	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
500	Error (p. 47)	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.

Schemas

Response Schemas

Example ListUsersOutput

```
{
    "brokerId" : "b-1234a5b6-78cd-901e-2fgh-3i45j6k178l9",
    "users": [{
        "username": "jane.doe",
        "pendingChange": "CREATE"
    }, {
        "username": "paolo.santos"
    }],
    "maxResults": 20,
    "nextToken":
 "eyEXAMPLEW9uIjoidjEiLCJzZXJpYWxpemVkUGFnaW5hdGlvblRva2VuIjoiZXlKMGIydGlha1JoZEFU9uc2liR0Z6ZEMxelpXxV
}
```

Example Error

```
{
    "errorAttribute": "TheAttributeWhichCausedTheError",
    "message": "This is the description of the error and the steps to resolve the issue."
}
```

Attributes

ListUsersOutput

Attribute	Type	Description
brokerId	string	**Required**

Attribute	Type	Description
		The unique ID that Amazon MQ generates for the broker.
maxResults	integer	**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.
nextToken	string	The token that specifies the next page of results Amazon MQ should return. To request the first page, leave nextToken empty.
users	array	**Required** The list of all ActiveMQ usernames for the specified broker.

UserSummary

Attribute	Type	Description
pendingChange	enum	The type of change pending for the ActiveMQ user. **Possible values:** CREATE, UPDATE, DELETE
username	string	**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.

Error

Attribute	Type	Description
errorAttribute	string	The attribute which caused the error.
message	string	The explanation of the error.