

# Amazon Managed Streaming for Apache Kafka



# Amazon Managed Streaming for Apache Kafka: Amazon MSK Replicator API Reference

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# What Is Amazon Managed Streaming for Apache Kafka?

Amazon Managed Streaming for Apache Kafka (Amazon MSK) is a fully managed service that makes it easy for you to build and run applications that use Apache Kafka to process streaming data.

This Amazon MSK Replicator API Reference describes Amazon MSK Replicator operations: `CreateReplicator`, `DeleteReplicator`, `DescribeReplicator`, `ListReplicators`, `UpdateReplicationInfo`.

Other Amazon MSK API references include:

- [Amazon Managed Streaming for Apache Kafka API Reference 1.0](#)
- [Amazon Managed Streaming for Apache Kafka API Reference 2.0](#)
- [Amazon MSK Connect API Reference](#)

For more information about Amazon MSK, see the [Amazon MSK Developer Guide](#).

# Operations

The REST API includes the following operations

- [CreateReplicator](#)

Creates the replicator.

- [DeleteReplicator](#)

Deletes a replicator.

- [DescribeReplicator](#)

Describes a replicator.

- [ListReplicators](#)

Lists the replicators.

- [UpdateReplicationInfo](#)

Updates replication info of a replicator.

# Resources

The REST API includes the following resources.

## Topics

- [V1 Replicators](#)
- [V1 Replicators replicatorArn](#)
- [V1 Replicators replicatorArn Replication-info](#)

## V1 Replicators

### URI

/replication/v1/replicators

### HTTP methods

#### GET

**Operation ID:** ListReplicators

Lists the replicators.

#### Query parameters

Name	Type	Required	Description
replicatorNameFilter	String	False	Returns replicators starting with given name.
nextToken	String	False	If the response of ListReplicators is truncated, it returns a NextToken in the response. This NextToken should be sent in the subsequent

Name	Type	Required	Description
maxResults	String	False	The maximum number of results to return in the response. If there are more results, the response includes a NextToken parameter.

## Responses

Status code	Response model	Description
200	<a href="#">ListReplicatorsResponse</a>	HTTP Status Code 200: OK.
400	None	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
401	None	HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.
403	None	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	None	HTTP Status Code 404: Resource not found due to

Status code	Response model	Description
		incorrect input. Correct your request and then retry it.
429	None	HTTP Status Code 429: Limit exceeded. Resource limit reached.
500	None	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.
503	None	HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

## POST

### Operation ID: CreateReplicator

Creates the replicator.

### Responses

Status code	Response model	Description
200	<a href="#">CreateReplicatorResponse</a>	HTTP Status Code 200: OK.
400	None	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
401	None	HTTP Status Code 401: Unauthorized request. The



Status code	Response model	Description
403	None	provided credentials couldn't be validated.  HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	None	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
409	None	HTTP Status Code 409: Conflict. This replicator name already exists. Retry your request with another name.
429	None	HTTP Status Code 429: Limit exceeded. Resource limit reached.
500	None	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.
503	None	HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

## OPTIONS

Enable CORS by returning correct headers

## Responses

Status code	Response model	Description
200	None	Default response for CORS method

## Schemas

### Request bodies

#### POST schema

```
{
  "replicatorName": "string",
  "serviceExecutionRoleArn": "string",
  "replicationInfoList": [
    {
      "consumerGroupReplication": {
        "consumerGroupsToExclude": [
          "string"
        ],
        "detectAndCopyNewConsumerGroups": boolean,
        "consumerGroupsToReplicate": [
          "string"
        ],
        "synchroniseConsumerGroupOffsets": boolean
      },
      "targetCompressionType": enum,
      "topicReplication": {
        "copyAccessControlListsForTopics": boolean,
        "detectAndCopyNewTopics": boolean,
        "copyTopicConfigurations": boolean,
        "startingPosition": {
          "type": enum
        }
      },
      "topicsToReplicate": [
        "string"
      ],
      "topicsToExclude": [
        "string"
      ]
    }
  ]
}
```

```

    },
    "sourceKafkaClusterArn": "string",
    "targetKafkaClusterArn": "string"
  }
],
"description": "string",
"kafkaClusters": [
  {
    "amazonMskCluster": {
      "mskClusterArn": "string"
    },
    "vpcConfig": {
      "securityGroupIds": [
        "string"
      ],
      "subnetIds": [
        "string"
      ]
    }
  }
],
"tags": {
}
}

```

## Response bodies

### ListReplicatorsResponse schema

```

{
  "nextToken": "string",
  "replicators": [
    {
      "replicatorArn": "string",
      "replicatorName": "string",
      "creationTime": "string",
      "kafkaClustersSummary": [
        {
          "kafkaClusterAlias": "string",
          "amazonMskCluster": {
            "mskClusterArn": "string"
          }
        }
      ]
    }
  ]
}

```

```
    ],
    "replicatorState": enum,
    "isReplicatorReference": boolean,
    "replicationInfoSummaryList": [
      {
        "sourceKafkaClusterAlias": "string",
        "targetKafkaClusterAlias": "string"
      }
    ],
    "replicatorResourceArn": "string",
    "currentVersion": "string"
  }
]
```

## CreateReplicatorResponse schema

```
{
  "replicatorArn": "string",
  "replicatorName": "string",
  "replicatorState": enum
}
```

## Properties

### AmazonMskCluster

Details of an Amazon MSK Cluster.

#### mskClusterArn

The Amazon Resource Name (ARN) of an Amazon MSK cluster.

**Type:** string

**Required:** True

### ConsumerGroupReplication

Details about consumer group replication.

### **consumerGroupsToExclude**

List of regular expression patterns indicating the consumer groups that should not be replicated.

**Type:** Array of type string

**Required:** False

**MaxLength:** 256

### **detectAndCopyNewConsumerGroups**

Enables synchronization of consumer groups to target cluster.

**Type:** boolean

**Required:** False

### **consumerGroupsToReplicate**

List of regular expression patterns indicating the consumer groups to copy.

**Type:** Array of type string

**Required:** True

**MaxLength:** 256

### **synchroniseConsumerGroupOffsets**

Enables synchronization of consumer group offsets to target cluster. The translated offsets will be written to topic `__consumer_offsets`.

**Type:** boolean

**Required:** False

## **CreateReplicatorRequest**

Request body for replicator.

### **replicatorName**

The name of the replicator. Alpha-numeric characters with '-' are allowed.

**Type:** string

**Required:** True

**Pattern:** `^[0-9A-Za-z][0-9A-Za-z-]{0,}?$`

**MinLength:** 1

**MaxLength:** 128

### **serviceExecutionRoleArn**

The ARN of the IAM role used by the replicator to access resources in the customer's account (e.g source and target clusters)

**Type:** string

**Required:** True

### **replicationInfoList**

A list of replication configurations, where each configuration targets a given source cluster to target cluster replication flow.

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

**Required:** True

### **description**

A summary description of the replicator.

**Type:** string

**Required:** False

**MaxLength:** 1024

### **kafkaClusters**

Kafka Clusters to use in setting up sources / targets for replication.

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

**Required:** True

## tags

List of tags to attach to created Replicator.

**Type:** object

**Required:** False

## CreateReplicatorResponse

Returns information about the created replicator.

### replicatorArn

The Amazon Resource Name (ARN) of the replicator.

**Type:** string

**Required:** False

### replicatorName

Name of the replicator provided by the customer.

**Type:** string

**Required:** False

### replicatorState

State of the replicator.

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

**Required:** False

## KafkaCluster

Information about Kafka Cluster to be used as source / target for replication.

### amazonMskCluster

Details of an Amazon MSK Cluster.

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

**Required:** True

### **vpcConfig**

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

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

**Required:** True

### **KafkaClusterClientVpcConfig**

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

### **securityGroupIds**

The security groups to attach to the ENIs for the broker nodes.

**Type:** Array of type string

**Required:** False

### **subnetIds**

The list of subnets in the client VPC to connect to.

**Type:** Array of type string

**Required:** True

### **KafkaClusterSummary**

Summarized information about Kafka Cluster used as source / target for replication.

### **kafkaClusterAlias**

The alias of the Kafka cluster. Used to prefix names of replicated topics.

**Type:** string

**Required:** False



## amazonMskCluster

Details of an Amazon MSK Cluster.

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

**Required:** False

## ListReplicatorsResponse

The response contains an array containing replicator information and a NextToken if the response is truncated.

### nextToken

If the response of ListReplicators is truncated, it returns a NextToken in the response. This NextToken should be sent in the subsequent request to ListReplicators.

**Type:** string

**Required:** False

### replicators

List containing information of each of the replicators in the account.

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

**Required:** False

## ReplicationInfo

Specifies configuration for replication between a source and target Kafka cluster.

### consumerGroupReplication

Configuration relating to consumer group replication.

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

**Required:** True

## targetCompressionType

The compression type to use when producing records to target cluster.

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

**Required:** True

## topicReplication

Configuration relating to topic replication.

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

**Required:** True

## sourceKafkaClusterArn

The ARN of the source Kafka cluster.

**Type:** string

**Required:** True

## targetKafkaClusterArn

The ARN of the target Kafka cluster.

**Type:** string

**Required:** True

## ReplicationInfoSummary

Summarized information of replication between clusters.

## sourceKafkaClusterAlias

The alias of the source Kafka cluster.

**Type:** string

**Required:** False

## targetKafkaClusterAlias

The alias of the target Kafka cluster.

**Type:** string

**Required:** False

## ReplicationStartingPosition

Specifies the position in the topics to start replicating from.

### type

The type of replication starting position.

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

**Required:** False

## ReplicationStartingPositionType

The type of replication starting position.

LATEST

EARLIEST

## ReplicatorState

State of a replicator.

RUNNING

CREATING

UPDATING

DELETING

FAILED

## ReplicatorSummary

Information about a replicator.

**replicatorArn**

The Amazon Resource Name (ARN) of the replicator.

**Type:** string

**Required:** False

**replicatorName**

The name of the replicator.

**Type:** string

**Required:** False

**creationTime**

The time the replicator was created.

**Type:** string

**Required:** False

**kafkaClustersSummary**

Kafka Clusters used in setting up sources / targets for replication.

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

**Required:** False

**replicatorState**

State of the replicator.

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

**Required:** False

**isReplicatorReference**

Whether this resource is a replicator reference.

**Type:** boolean

**Required:** False

### **replicationInfoSummaryList**

A list of summarized information of replications between clusters.

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

**Required:** False

### **replicatorResourceArn**

The Amazon Resource Name (ARN) of the replicator resource in the region where the replicator was created.

**Type:** string

**Required:** False

### **currentVersion**

The current version of the replicator.

**Type:** string

**Required:** False

### **TargetCompressionType**

The type of compression to use producing records to the target cluster.

NONE

GZIP

SNAPPY

LZ4

ZSTD

### **TopicReplication**

Details about topic replication.

**copyAccessControlListsForTopics**

Whether to periodically configure remote topic ACLs to match their corresponding upstream topics.

**Type:** boolean

**Required:** False

**detectAndCopyNewTopics**

Whether to periodically check for new topics and partitions.

**Type:** boolean

**Required:** False

**copyTopicConfigurations**

Whether to periodically configure remote topics to match their corresponding upstream topics.

**Type:** boolean

**Required:** False

**startingPosition**

Specifies the position in the topics to start replicating from.

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

**Required:** False

**topicsToReplicate**

List of regular expression patterns indicating the topics to copy.

**Type:** Array of type string

**Required:** True

**MaxLength:** 249

**topicsToExclude**

List of regular expression patterns indicating the topics that should not be replicated.

**Type:** Array of type string

**Required:** False

**MaxLength:** 249

## V1 Replicators replicatorArn

### URI

/replication/v1/replicators/*replicatorArn*

### HTTP methods

#### GET

**Operation ID:** DescribeReplicator

Describes a replicator.

#### Path parameters

Name	Type	Required	Description
<i>replicatorArn</i>	String	True	The Amazon Resource Name (ARN) of the replicator to be described.

#### Responses

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

Status code	Response model	Description
401	None	HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.
403	None	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	None	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
429	None	HTTP Status Code 429: Limit exceeded. Resource limit reached.
500	None	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.
503	None	HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

## DELETE

**Operation ID:** DeleteReplicator

Deletes a replicator.



## Path parameters

Name	Type	Required	Description
<i>replicatorArn</i>	String	True	The Amazon Resource Name (ARN) of the replicator to be described.

## Query parameters

Name	Type	Required	Description
currentVersion	String	False	The current version of the replicator.

## Responses

Status code	Response model	Description
200	<a href="#">DeleteReplicatorResponse</a>	HTTP Status Code 200: OK.
400	None	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
401	None	HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.
403	None	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.

Status code	Response model	Description
404	None	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
429	None	HTTP Status Code 429: Limit exceeded. Resource limit reached.
500	None	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.
503	None	HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

## OPTIONS

Enable CORS by returning correct headers

### Path parameters

Name	Type	Required	Description
<i>replicatorArn</i>	String	True	The Amazon Resource Name (ARN) of the replicator to be described.

## Responses

Status code	Response model	Description
200	None	Default response for CORS method

## Schemas

### Response bodies

#### DescribeReplicatorResponse schema

```
{
  "replicatorArn": "string",
  "creationTime": "string",
  "kafkaClusters": [
    {
      "kafkaClusterAlias": "string",
      "amazonMskCluster": {
        "mskClusterArn": "string"
      },
      "vpcConfig": {
        "securityGroupIds": [
          "string"
        ],
        "subnetIds": [
          "string"
        ]
      }
    }
  ],
  "currentVersion": "string",
  "tags": {
  },
  "replicatorDescription": "string",
  "replicatorName": "string",
  "serviceExecutionRoleArn": "string",
  "replicationInfoList": [
    {
      "consumerGroupReplication": {
        "consumerGroupsToExclude": [

```

```

    "string"
  ],
  "detectAndCopyNewConsumerGroups": boolean,
  "consumerGroupsToReplicate": [
    "string"
  ],
  "synchroniseConsumerGroupOffsets": boolean
},
"targetCompressionType": enum,
"sourceKafkaClusterAlias": "string",
"topicReplication": {
  "copyAccessControlListsForTopics": boolean,
  "detectAndCopyNewTopics": boolean,
  "copyTopicConfigurations": boolean,
  "startingPosition": {
    "type": enum
  },
  "topicsToReplicate": [
    "string"
  ],
  "topicsToExclude": [
    "string"
  ]
},
"targetKafkaClusterAlias": "string"
}
],
"stateInfo": {
  "code": "string",
  "message": "string"
},
"replicatorState": enum,
"isReplicatorReference": boolean,
"replicatorResourceArn": "string"
}

```

## DeleteReplicatorResponse schema

```

{
  "replicatorArn": "string",
  "replicatorState": enum
}

```

## Properties

### AmazonMskCluster

Details of an Amazon MSK Cluster.

#### **mskClusterArn**

The Amazon Resource Name (ARN) of an Amazon MSK cluster.

**Type:** string

**Required:** True

### ConsumerGroupReplication

Details about consumer group replication.

#### **consumerGroupsToExclude**

List of regular expression patterns indicating the consumer groups that should not be replicated.

**Type:** Array of type string

**Required:** False

**MaxLength:** 256

#### **detectAndCopyNewConsumerGroups**

Enables synchronization of consumer groups to target cluster.

**Type:** boolean

**Required:** False

#### **consumerGroupsToReplicate**

List of regular expression patterns indicating the consumer groups to copy.

**Type:** Array of type string

**Required:** True

**MaxLength:** 256

### **synchroniseConsumerGroupOffsets**

Enables synchronization of consumer group offsets to target cluster. The translated offsets will be written to topic `__consumer_offsets`.

**Type:** boolean

**Required:** False

### **DeleteReplicatorResponse**

Returns information about the deleted replicator.

#### **replicatorArn**

The Amazon Resource Name (ARN) of the replicator.

**Type:** string

**Required:** False

#### **replicatorState**

State of the replicator.

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

**Required:** False

### **DescribeReplicatorResponse**

Response body for DescribeReplicator.

#### **replicatorArn**

The Amazon Resource Name (ARN) of the replicator.

**Type:** string

**Required:** False

**creationTime**

The time when the replicator was created.

**Type:** string

**Required:** False

**kafkaClusters**

Kafka Clusters used in setting up sources / targets for replication.

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

**Required:** False

**currentVersion**

The current version number of the replicator.

**Type:** string

**Required:** False

**tags**

List of tags attached to the Replicator.

**Type:** object

**Required:** False

**replicatorDescription**

The description of the replicator.

**Type:** string

**Required:** False

**replicatorName**

The name of the replicator.

**Type:** string

**Required:** False

### **serviceExecutionRoleArn**

The Amazon Resource Name (ARN) of the IAM role used by the replicator to access resources in the customer's account (e.g source and target clusters)

**Type:** string

**Required:** False

### **replicationInfoList**

A list of replication configurations, where each configuration targets a given source cluster to target cluster replication flow.

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

**Required:** False

### **stateInfo**

Details about the state of the replicator.

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

**Required:** False

### **replicatorState**

State of the replicator.

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

**Required:** False

### **isReplicatorReference**

Whether this resource is a replicator reference.

**Type:** boolean



**Required:** False

### **replicatorResourceArn**

The Amazon Resource Name (ARN) of the replicator resource in the region where the replicator was created.

**Type:** string

**Required:** False

### **KafkaClusterClientVpcConfig**

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

#### **securityGroupIds**

The security groups to attach to the ENIs for the broker nodes.

**Type:** Array of type string

**Required:** False

#### **subnetIds**

The list of subnets in the client VPC to connect to.

**Type:** Array of type string

**Required:** True

### **KafkaClusterDescription**

Information about Kafka Cluster used as source / target for replication.

#### **kafkaClusterAlias**

The alias of the Kafka cluster. Used to prefix names of replicated topics.

**Type:** string

**Required:** False

## amazonMskCluster

Details of an Amazon MSK Cluster.

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

**Required:** False

## vpcConfig

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

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

**Required:** False

## ReplicationInfoDescription

Specifies configuration for replication between a source and target Kafka cluster (sourceKafkaClusterAlias -> targetKafkaClusterAlias)

## consumerGroupReplication

Configuration relating to consumer group replication.

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

**Required:** False

## targetCompressionType

The compression type to use when producing records to target cluster.

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

**Required:** False

## sourceKafkaClusterAlias

The alias of the source Kafka cluster.

**Type:** string

**Required:** False

## topicReplication

Configuration relating to topic replication.

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

**Required:** False

## targetKafkaClusterAlias

The alias of the target Kafka cluster.

**Type:** string

**Required:** False

## ReplicationStartingPosition

Specifies the position in the topics to start replicating from.

### type

The type of replication starting position.

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

**Required:** False

## ReplicationStartingPositionType

The type of replication starting position.

LATEST

EARLIEST

## ReplicationStateInfo

Details about the state of a replicator.

### code

Code that describes the state of the replicator.

**Type:** string

**Required:** False

## message

Message that describes the state of the replicator.

**Type:** string

**Required:** False

## ReplicatorState

State of a replicator.

RUNNING

CREATING

UPDATING

DELETING

FAILED

## TargetCompressionType

The type of compression to use producing records to the target cluster.

NONE

GZIP

SNAPPY

LZ4

ZSTD

## TopicReplication

Details about topic replication.

### copyAccessControlListsForTopics

Whether to periodically configure remote topic ACLs to match their corresponding upstream topics.

**Type:** boolean

**Required:** False

### **detectAndCopyNewTopics**

Whether to periodically check for new topics and partitions.

**Type:** boolean

**Required:** False

### **copyTopicConfigurations**

Whether to periodically configure remote topics to match their corresponding upstream topics.

**Type:** boolean

**Required:** False

### **startingPosition**

Specifies the position in the topics to start replicating from.

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

**Required:** False

### **topicsToReplicate**

List of regular expression patterns indicating the topics to copy.

**Type:** Array of type string

**Required:** True

**MaxLength:** 249

### **topicsToExclude**

List of regular expression patterns indicating the topics that should not be replicated.

**Type:** Array of type string

**Required:** False

**MaxLength:** 249

# V1 Replicators replicatorArn Replication-info

## URI

/replication/v1/replicators/*replicatorArn*/replication-info

## HTTP methods

### PUT

**Operation ID:** UpdateReplicationInfo

Updates replication info of a replicator.

### Path parameters

Name	Type	Required	Description
<i>replicatorArn</i>	String	True	The Amazon Resource Name (ARN) of the replicator to be described.

### Responses

Status code	Response model	Description
200	<a href="#">UpdateReplicationInfoResponse</a>	HTTP Status Code 200: OK.
400	None	HTTP Status Code 400: Bad request due to incorrect input. Correct your request and then retry it.
401	None	HTTP Status Code 401: Unauthorized request. The provided credentials couldn't be validated.

Status code	Response model	Description
403	None	HTTP Status Code 403: Access forbidden. Correct your credentials and then retry your request.
404	None	HTTP Status Code 404: Resource not found due to incorrect input. Correct your request and then retry it.
429	None	HTTP Status Code 429: Limit exceeded. Resource limit reached.
500	None	HTTP Status Code 500: Unexpected internal server error. Retrying your request might resolve the issue.
503	None	HTTP Status Code 503: Service Unavailable. Retrying your request in some time might resolve the issue.

## OPTIONS

Enable CORS by returning correct headers

### Path parameters

Name	Type	Required	Description
<i>replicatorArn</i>	String	True	The Amazon Resource Name (ARN) of the replicator to be described.

## Responses

Status code	Response model	Description
200	None	Default response for CORS method

## Schemas

### Request bodies

#### PUT schema

```
{
  "consumerGroupReplication": {
    "consumerGroupsToExclude": [
      "string"
    ],
    "detectAndCopyNewConsumerGroups": boolean,
    "consumerGroupsToReplicate": [
      "string"
    ],
    "synchroniseConsumerGroupOffsets": boolean
  },
  "topicReplication": {
    "copyAccessControlListsForTopics": boolean,
    "detectAndCopyNewTopics": boolean,
    "copyTopicConfigurations": boolean,
    "topicsToReplicate": [
      "string"
    ],
    "topicsToExclude": [
      "string"
    ]
  },
  "sourceKafkaClusterArn": "string",
  "targetKafkaClusterArn": "string",
  "currentVersion": "string"
}
```

### Response bodies



## UpdateReplicationInfoResponse schema

```
{  
  "replicatorArn": "string",  
  "replicatorState": enum  
}
```

## Properties

### ConsumerGroupReplicationUpdate

Details about consumer group replication.

#### consumerGroupsToExclude

List of regular expression patterns indicating the consumer groups that should not be replicated.

**Type:** Array of type string

**Required:** True

**MaxLength:** 256

#### detectAndCopyNewConsumerGroups

Enables synchronization of consumer groups to target cluster.

**Type:** boolean

**Required:** True

#### consumerGroupsToReplicate

List of regular expression patterns indicating the consumer groups to copy.

**Type:** Array of type string

**Required:** True

**MaxLength:** 256

#### synchroniseConsumerGroupOffsets

Enables synchronization of consumer group offsets to target cluster. The translated offsets will be written to topic `__consumer_offsets`.

**Type:** boolean

**Required:** True

## ReplicatorState

State of a replicator.

RUNNING

CREATING

UPDATING

DELETING

FAILED

## TopicReplicationUpdate

Details for updating the topic replication of a replicator.

### copyAccessControlListsForTopics

Whether to periodically configure remote topic ACLs to match their corresponding upstream topics.

**Type:** boolean

**Required:** True

### detectAndCopyNewTopics

Whether to periodically check for new topics and partitions.

**Type:** boolean

**Required:** True

### copyTopicConfigurations

Whether to periodically configure remote topics to match their corresponding upstream topics.

**Type:** boolean

**Required:** True

## topicsToReplicate

List of regular expression patterns indicating the topics to copy.

**Type:** Array of type string

**Required:** True

**MaxLength:** 249

## topicsToExclude

List of regular expression patterns indicating the topics that should not be replicated.

**Type:** Array of type string

**Required:** True

**MaxLength:** 249

## UpdateReplicationInfoRequest

Parameters for updating replication information between source and target Kafka clusters of a replicator.

### consumerGroupReplication

Updated consumer group replication information.

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

**Required:** False

### topicReplication

Updated topic replication information.

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

**Required:** False

### sourceKafkaClusterArn

The ARN of the source Kafka cluster.

**Type:** string

**Required:** True

### **targetKafkaClusterArn**

The ARN of the target Kafka cluster.

**Type:** string

**Required:** True

### **currentVersion**

Current replicator version.

**Type:** string

**Required:** True

## **UpdateReplicationInfoResponse**

Updated Replication information of a replicator.

### **replicatorArn**

The Amazon Resource Name (ARN) of the replicator.

**Type:** string

**Required:** False

### **replicatorState**

State of the replicator.

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

**Required:** False

## Document History

The following table describes the documentation for this release of ServiceName.

- **API version: 1.0**
- **Latest documentation update:** April 10, 2024

The following table describes the important changes to the *Amazon MSK Replicator API Reference*. For notification about updates to this documentation, you can subscribe to an RSS feed.

Change	Description	Date
Added ReplicationStartingPosition	Amazon MSK supports replication from earliest position in your source cluster's topics in addition to latest position.	March 14, 2024
Added Amazon MSK Replicator APIs	Amazon MSK Replicator supports replicating existing data on your topics across Amazon Managed Streaming for Apache Kafka (Amazon MSK) clusters.	Oct 27, 2023

# Amazon Glossary

For the latest Amazon terminology, see the [Amazon glossary](#) in the *Amazon Web Services Glossary Reference*.