aws

Welcome

Amazon Aurora DSQL

API Version 2018-05-10

Amazon Aurora DSQL: Welcome

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Welcome

This is an interface reference for Amazon Aurora DSQL. It contains documentation for one of the programming or command line interfaces you can use to manage Amazon Aurora DSQL.

Amazon Aurora DSQL is a serverless, distributed SQL database suitable for workloads of any size. Aurora DSQL is available in both single-Region and multi-Region configurations, so your clusters and databases are always available even if an Availability Zone or an AWS Region are unavailable. Aurora DSQL lets you focus on using your data to acquire new insights for your business and customers.

This document was last published on January 8, 2025.

Actions

The following actions are supported:

- CreateCluster
- CreateMultiRegionClusters
- DeleteCluster
- DeleteMultiRegionClusters
- GetCluster
- ListClusters
- ListTagsForResource
- TagResource
- UntagResource
- UpdateCluster

CreateCluster

Creates a cluster in Amazon Aurora DSQL.

Request Syntax

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

{
   "clientToken": "string",
   "deletionProtectionEnabled": boolean,
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request. Idempotency ensures that an API request completes only once. With an idempotent request, if the original request completes successfully, the subsequent retries with the same client token return the result from the original successful request and they have no additional effect.

If you don't specify a client token, the AWS SDK automatically generates one.

Type: String

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

Pattern: [!-~]+

Required: No

deletionProtectionEnabled

If enabled, you can't delete your cluster. You must first disable this property before you can delete your cluster.

Type: Boolean

Required: No

tags

A map of key and value pairs to use to tag your cluster.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `[a-zA-Z0-9_.:/=+\-@ ]*`

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

Value Pattern: `[a-zA-Z0-9_.:/=+\-@ ]*`

Required: No

Response Syntax

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

{
    "arn": "string",
    "creationTime": number,
    "deletionProtectionEnabled": boolean,
    "identifier": "string",
    "status": "string"
}
```

Response Elements

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

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

arn

The ARN of the created cluster.

Type: String

creationTime

The time of when created the cluster.

Type: Timestamp

deletionProtectionEnabled

Whether deletion protection is enabled on this cluster.

Type: Boolean

identifier

The ID of the created cluster.

Type: String

status

The status of the created cluster.

Type: String

Valid Values: CREATING | ACTIVE | UPDATING | DELETING | DELETED | FAILED

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The submitted action has conflicts.

HTTP Status Code: 409

InternalServerException

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

HTTP Status Code: 500

ServiceQuotaExceededException

The service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

CreateMultiRegionClusters

Creates multi-Region clusters in Amazon Aurora DSQL. Multi-Region clusters require a linked Region list, which is an array of the Regions in which you want to create linked clusters. Multi-Region clusters require a witness Region, which participates in quorum in failure scenarios.

Request Syntax

```
POST /multi-region-clusters HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "clusterProperties": {
      "string" : {
         "deletionProtectionEnabled": boolean,
         "tags": {
            "string" : "string"
         }
      }
   },
   "linkedRegionList": [ "string" ],
   "witnessRegion": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request. Idempotency ensures that an API request completes only once. With an idempotent request, if the original request completes successfully. The subsequent retries with the same client token return the result from the original successful request and they have no additional effect.

If you don't specify a client token, the AWS SDK automatically generates one.

Type: String

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

Pattern: [!-~]+

Required: No

clusterProperties

A mapping of properties to use when creating linked clusters.

Type: String to LinkedClusterProperties object map

Key Length Constraints: Minimum length of 0. Maximum length of 20.

Required: No

linkedRegionList

An array of the Regions in which you want to create additional clusters.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 20.

Required: Yes

witnessRegion

The witness Region of multi-Region clusters.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20.

Required: Yes

Response Syntax

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

{
   "linkedClusterArns": [ "string" ]
```

```
}
```

Response Elements

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

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

linkedClusterArns

An array that contains the ARNs of all linked clusters.

Type: Array of strings

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The submitted action has conflicts.

HTTP Status Code: 409

InternalServerException

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

HTTP Status Code: 500

ServiceQuotaExceededException

The service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

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

DeleteCluster

Deletes a cluster in Amazon Aurora DSQL.

Request Syntax

```
DELETE /cluster/identifier?client-token=clientToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

clientToken

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request. Idempotency ensures that an API request completes only once. With an idempotent request, if the original request completes successfully. The subsequent retries with the same client token return the result from the original successful request and they have no additional effect.

If you don't specify a client token, the AWS SDK automatically generates one.

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

Pattern: [!-~]+

identifier

The ID of the cluster to delete.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

```
{
    "arn": "string",
    "creationTime": number,
    "deletionProtectionEnabled": boolean,
    "identifier": "string",
    "status": "string"
}
```

Response Elements

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

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

arn

> The ARN of the deleted cluster.

> Type: String

creationTime

> The time of when the cluster was created.

> Type: Timestamp

deletionProtectionEnabled

> Specifies whether deletion protection was enabled on the cluster.

> Type: Boolean

identifier

> The ID of the deleted cluster.

> Type: String

status

> The status of the cluster.

> Type: String

> Valid Values: CREATING | ACTIVE | UPDATING | DELETING | DELETED | FAILED

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The submitted action has conflicts.

HTTP Status Code: 409

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

DeleteMultiRegionClusters

Deletes a multi-Region cluster in Amazon Aurora DSQL.

Request Syntax

```
DELETE /multi-region-clusters?client-token=clientToken&linked-cluster-
arns=linkedClusterArns HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

clientToken

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request. Idempotency ensures that an API request completes only once. With an idempotent request, if the original request completes successfully. The subsequent retries with the same client token return the result from the original successful request and they have no additional effect.

If you don't specify a client token, the AWS SDK automatically generates one.

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

Pattern: [!-~]+

linkedClusterArns

The ARNs of the clusters linked to the cluster you want to delete. also deletes these clusters as part of the operation.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The submitted action has conflicts.

HTTP Status Code: 409

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetCluster

Retrieves information about a cluster.

Request Syntax

```
GET /cluster/identifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

identifier

The ID of the cluster to retrieve.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "arn": "string",
    "creationTime": number,
    "deletionProtectionEnabled": boolean,
    "identifier": "string",
    "linkedClusterArns": [ "string" ],
    "status": "string",
    "witnessRegion": "string"
}
```

Response Elements

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

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

arn

The ARN of the retrieved cluster.

Type: String

creationTime

The time of when the cluster was created.

Type: Timestamp

deletionProtectionEnabled

Whether deletion protection is enabled in this cluster.

Type: Boolean

identifier

The ID of the retrieved cluster.

Type: String

linkedClusterArns

The ARNs of the clusters linked to the retrieved cluster.

Type: Array of strings

status

The status of the retrieved cluster.

Type: String

Valid Values: `CREATING | ACTIVE | UPDATING | DELETING | DELETED | FAILED`

witnessRegion

The witness Region of the cluster. Applicable only for multi-Region clusters.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

ListClusters

Retrieves information about a list of clusters.

Request Syntax

```
GET /cluster?max-results=maxResults&next-token=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

An optional parameter that specifies the maximum number of results to return. You can use nextToken to display the next page of results.

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

nextToken

If your initial ListClusters operation returns a nextToken, you can include the returned nextToken in following ListClusters operations, which returns results in the next page.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "clusters": [
      {
         "arn": "string",
         "identifier": "string"
      }
   ],
```

```
    "nextToken": "string"
}
```

Response Elements

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

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

clusters

An array of the returned clusters.

Type: Array of ClusterSummary objects

nextToken

If nextToken is returned, there are more results available. The value of nextToken is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
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- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTagsForResource

Lists all of the tags for a resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The ARN of the resource for which you want to list the tags.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:.+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

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

Response Elements

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

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

tags

A map of key and value pairs that you used to tag your resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `[a-zA-Z0-9_.:/=+\-@ ]*`

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

Value Pattern: `[a-zA-Z0-9_.:/=+\-@ ]*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

TagResource

Tags a resource with a map of key and value pairs.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The ARN of the resource that you want to tag.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:.+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

A map of key and value pairs to use to tag your resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `[a-zA-Z0-9_.:/=+\-@ ]*`

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

Value Pattern: `[a-zA-Z0-9_.:/=+\-@ ]*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

UntagResource

Removes a tag from a resource.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The ARN of the resource from which to remove tags.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:.+`

Required: Yes

tagKeys

The array of keys of the tags that you want to remove.

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

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

Pattern: `[a-zA-Z0-9_.:/=+\-@ ]*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

AccessDeniedException

   You do not have sufficient access to perform this action.

   HTTP Status Code: 403

InternalServerException

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

   HTTP Status Code: 500

ResourceNotFoundException

   The resource could not be found.

   HTTP Status Code: 404

ThrottlingException

   The request was denied due to request throttling.

   HTTP Status Code: 429

ValidationException

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

   HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)

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- AWS SDK for JavaScript V3
- [AWS SDK for PHP V3](AWS SDK for PHP V3)
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateCluster

Updates a cluster.

Request Syntax

```
POST /cluster/identifier HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "deletionProtectionEnabled": boolean
}
```

URI Request Parameters

The request uses the following URI parameters.

identifier

The ID of the cluster you want to update.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request. Idempotency ensures that an API request completes only once. With an idempotent request, if the original request completes successfully. The subsequent retries with the same client token return the result from the original successful request and they have no additional effect.

If you don't specify a client token, the AWS SDK automatically generates one.

Type: String

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

Pattern: [!-~]+

Required: No

deletionProtectionEnabled

Specifies whether to enable deletion protection in your cluster.

Type: Boolean

Required: No

Response Syntax

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

{
    "arn": "string",
    "creationTime": number,
    "deletionProtectionEnabled": boolean,
    "identifier": "string",
    "linkedClusterArns": [ "string" ],
    "status": "string",
    "witnessRegion": "string"
}
```

Response Elements

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

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

arn

The ARN of the updated cluster.

Type: String

creationTime

The time of when the cluster was created.

Type: Timestamp

deletionProtectionEnabled

Whether deletion protection is enabled for the updated cluster.

Type: Boolean

identifier

The ID of the cluster to update.

Type: String

linkedClusterArns

The ARNs of the clusters linked to the updated cluster. Applicable only for multi-Region clusters.

Type: Array of strings

status

The status of the updated cluster.

Type: String

Valid Values: CREATING | ACTIVE | UPDATING | DELETING | DELETED | FAILED

witnessRegion

The Region that receives all data you write to linked clusters.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The submitted action has conflicts.

HTTP Status Code: 409

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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- [AWS SDK for PHP V3](#)

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- [AWS SDK for Ruby V3](#)

Data Types

The Amazon Aurora DSQL API contains several data types that various actions use. This section describes each data type in detail.

> ℹ️ **Note**
>
> The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- ClusterSummary
- LinkedClusterProperties
- ValidationExceptionField

ClusterSummary

A summary of the properties of a cluster.

Contents

arn

   The ARN of the cluster.

   Type: String

   Required: Yes

identifier

   The ID of the cluster.

   Type: String

   Required: Yes

See Also

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

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

LinkedClusterProperties

Properties of linked clusters.

Contents

deletionProtectionEnabled

Whether deletion protection is enabled.

Type: Boolean

Required: No

tags

A map of key and value pairs the linked cluster is tagged with.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `[a-zA-Z0-9_.:/=+\-@ ]*`

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

Value Pattern: `[a-zA-Z0-9_.:/=+\-@ ]*`

Required: No

See Also

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

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

ValidationExceptionField

Stores information about a field passed inside a request that resulted in an validation error.

Contents

message

A message describing why this field failed validation.

Type: String

Required: Yes

name

The name of the field.

Type: String

Required: Yes

See Also

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

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

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signing AWS API requests in the *IAM User Guide*.

Action

> The action to be performed.
>
> Type: string
>
> Required: Yes

Version

> The API version that the request is written for, expressed in the format YYYY-MM-DD.
>
> Type: string
>
> Required: Yes

X-Amz-Algorithm

> The hash algorithm that you used to create the request signature.
>
> Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.
>
> Type: string
>
> Valid Values: AWS4-HMAC-SHA256
>
> Required: Conditional

X-Amz-Credential

> The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key*/*YYYYMMDD*/*region*/*service*/ aws4_request.

For more information, see Create a signed AWS API request in the *IAM User Guide*.

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

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Elements of an AWS API request signature in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see AWS services that work with IAM in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Create a signed AWS API request in the *IAM User Guide*.

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

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

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

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

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

RequestExpired

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

HTTP Status Code: 400

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

UnrecognizedClientException

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

HTTP Status Code: 403

UnknownOperationException

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

HTTP Status Code: 404

ValidationError

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

HTTP Status Code: 400