AWS Server Migration Service
Server Migration
API Version 2016-10-24
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Welcome

This is the AWS Server Migration Service API Reference. It provides descriptions, syntax, and usage examples for each of the actions and data types for the Server Migration Service. The topic for each action shows the Query API request parameters and the XML response. You can also view the XML request elements in the WSDL.

Alternatively, you can use one of the AWS SDKs to access an API that’s tailored to the programming language or platform that you're using. For more information, see AWS SDKs.

To learn more about the Server Migration Service, see the following resources:

- AWS Server Migration Service product page
- AWS Server Migration Service User Guide

This document was last published on June 21, 2018.
Actions

The following actions are supported:

- CreateReplicationJob (p. 3)
- DeleteReplicationJob (p. 6)
- DeleteServerCatalog (p. 8)
- DisassociateConnector (p. 9)
- GetConnectors (p. 11)
- GetReplicationJobs (p. 13)
- GetReplicationRuns (p. 16)
- GetServers (p. 19)
- ImportServerCatalog (p. 22)
- StartOnDemandReplicationRun (p. 24)
- UpdateReplicationJob (p. 26)
CreateReplicationJob

Create a replication job. The replication job schedules periodic replication runs to replicate your server to AWS. Each replication run creates an Amazon Machine Image (AMI).

Request Syntax

```json
{
    "description": "string",
    "frequency": number,
    "licenseType": "string",
    "numberOfRecentAmisToKeep": number,
    "roleName": "string",
    "seedReplicationTime": number,
    "serverId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 41).

The request accepts the following data in JSON format.

description (p. 3)

The description of the replication job.

Type: String

Required: No

frequency (p. 3)

The time between consecutive replication runs, in hours.

Type: Integer

Required: No

licenseType (p. 3)

The license type to be used for the AMI created by a successful replication run.

Type: String

Valid Values: AWS | BYOL

Required: No

numberOfRecentAmisToKeep (p. 3)

The maximum number of SMS-created AMIs to retain. The oldest will be deleted once the maximum number is reached and a new AMI is created.

Type: Integer

Required: No

roleName (p. 3)

The name of the IAM role to be used by the Server Migration Service.
Response Syntax

```json
{
  "replicationJobId": "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.

**replicationJobId (p. 4)**

- The unique identifier of the replication job.
- Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 43).

**InternalError**

- An internal error occurred.
- HTTP Status Code: 500

**InvalidParameterException**

- A specified parameter is not valid.
- HTTP Status Code: 400

**MissingRequiredParameterException**

- A required parameter is missing.
- HTTP Status Code: 400
NoConnectorsAvailableException

There are no connectors available.

HTTP Status Code: 400

OperationNotPermittedException

This operation is not allowed.

HTTP Status Code: 400

ReplicationJobAlreadyExistsException

The specified replication job already exists.

HTTP Status Code: 400

ServerCannotBeReplicatedException

The specified server cannot be replicated.

HTTP Status Code: 400

TemporarilyUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 500

UnauthorizedOperationException

You lack permissions needed to perform this operation. Check your IAM policies, and ensure that you are using the correct access keys.

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DeleteReplicationJob

Deletes the specified replication job.

After you delete a replication job, there are no further replication runs. AWS deletes the contents of the S3 bucket used to store SMS artifacts. The AMIs created by the replication runs are not deleted.

Request Syntax

```
{
  "replicationJobId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 41).

The request accepts the following data in JSON format.

replicationJobId (p. 6)

The identifier of the replication job.

Type: String

Required: Yes

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 (p. 43).

InvalidParameterException

A specified parameter is not valid.

HTTP Status Code: 400

MissingRequiredParameterException

A required parameter is missing.

HTTP Status Code: 400

OperationNotPermittedException

This operation is not allowed.

HTTP Status Code: 400

ReplicationJobNotFoundException

The specified replication job does not exist.
HTTP Status Code: 400

UnauthorizedOperation

You lack permissions needed to perform this operation. Check your IAM policies, and ensure that you are using the correct access keys.

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DeleteServerCatalog

Deletes all servers from your server catalog.

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 (p. 43).

InvalidParameterException

A specified parameter is not valid.

HTTP Status Code: 400

MissingRequiredParameterException

A required parameter is missing.

HTTP Status Code: 400

OperationNotPermittedException

This operation is not allowed.

HTTP Status Code: 400

UnauthorizedOperationException

You lack permissions needed to perform this operation. Check your IAM policies, and ensure that you are using the correct access keys.

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DisassociateConnector

Disassociates the specified connector from the Server Migration Service.

After you disassociate a connector, it is no longer available to support replication jobs.

Request Syntax

```
{
  "connectorId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 41).

The request accepts the following data in JSON format.

**connectorId (p. 9)**

The identifier of the connector.

- Type: String
- Required: Yes

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 (p. 43).

**InvalidOperationException**

A specified parameter is not valid.

HTTP Status Code: 400

**MissingRequiredParameterException**

A required parameter is missing.

HTTP Status Code: 400

**OperationNotPermittedException**

This operation is not allowed.

HTTP Status Code: 400

**UnauthorizedOperationException**

You lack permissions needed to perform this operation. Check your IAM policies, and ensure that you are using the correct access keys.

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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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
GetConnectors

Describes the connectors registered with the Service Migration Service.

Request Syntax

```json
{
    "maxResults": number,
    "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 41).

The request accepts the following data in JSON format.

**maxResults (p. 11)**

The maximum number of results to return in a single call. The default value is 50. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Required: No

**nextToken (p. 11)**

The token for the next set of results.

Type: String

Required: No

Response Syntax

```json
{
    "connectorList": [
        {
            "associatedOn": number,
            "capabilityList": [ "string" ],
            "connectorId": "string",
            "ipAddress": "string",
            "macAddress": "string",
            "status": "string",
            "version": "string",
            "vmManagerId": "string",
            "vmManagerName": "string",
            "vmManagerType": "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.

**connectorList (p. 11)**

Information about the registered connectors.

Type: Array of Connector (p. 30) objects

**nextToken (p. 11)**

The token required to retrieve the next set of results. This value is null when there are no more results to return.

Type: String

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 43).

**UnauthorizedOperationException**

You lack permissions needed to perform this operation. Check your IAM policies, and ensure that you are using the correct access keys.

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
GetReplicationJobs

Describes the specified replication job or all of your replication jobs.

Request Syntax

```json
{
    "maxResults": number,
    "nextToken": "string",
    "replicationJobId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 41).

The request accepts the following data in JSON format.

**maxResults (p. 13)**

The maximum number of results to return in a single call. The default value is 50. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer
Required: No

**nextToken (p. 13)**

The token for the next set of results.

Type: String
Required: No

**replicationJobId (p. 13)**

The identifier of the replication job.

Type: String
Required: No

Response Syntax

```json
{
    "nextToken": "string",
    "replicationJobList": [
        {
            "description": "string",
            "frequency": number,
            "latestAmiId": "string",
            "licenseType": "string",
            "nextReplicationRunStartTime": number,
            "numberOfRecentAmisToKeep": number,
            "replicationJobId": "string",
            "replicationRunList": [
```
Response Elements

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

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

nextToken (p. 13)

The token required to retrieve the next set of results. This value is null when there are no more results to return.

Type: String

replicationJobList (p. 13)

Information about the replication jobs.

Type: Array of ReplicationJob (p. 32) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 43).

InvalidParameterException

A specified parameter is not valid.
HTTP Status Code: 400

**MissingRequiredParameterException**

A required parameter is missing.

HTTP Status Code: 400

**UnauthorizedOperationException**

You lack permissions needed to perform this operation. Check your IAM policies, and ensure that you are using the correct access keys.

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
GetReplicationRuns

Describes the replication runs for the specified replication job.

Request Syntax

```json
{
    "maxResults": number,
    "nextToken": "string",
    "replicationJobId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 41).

The request accepts the following data in JSON format.

**maxResults (p. 16)**

The maximum number of results to return in a single call. The default value is 50. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Required: No

**nextToken (p. 16)**

The token for the next set of results.

Type: String

Required: No

**replicationJobId (p. 16)**

The identifier of the replication job.

Type: String

Required: Yes

Response Syntax

```json
{
    "nextToken": "string",
    "replicationJob": { 
        "description": "string",
        "frequency": number,
        "latestAmiId": "string",
        "licenseType": "string",
        "nextReplicationRunStartTime": number,
        "numberOfRecentAmisToKeep": number,
        "replicationJobId": "string",
        "replicationRunList": [
            {
                "amiId": "string",
            }
        ]
    }
}
```
"completedTime": number,
"description": "string",
"replicationRunId": "string",
"scheduledStartTime": number,
"stageDetails": {
  "stage": "string",
  "stageProgress": "string"
},
"state": "string",
"statusMessage": "string",
"type": "string"
},
"roleName": "string",
"seedReplicationTime": number,
"serverId": "string",
"serverType": "string",
"state": "string",
"statusMessage": "string",
"type": "string"

"replicationRunList": [
  {
    "amiId": "string",
    "completedTime": number,
    "description": "string",
    "replicationRunId": "string",
    "scheduledStartTime": number,
    "stageDetails": {
      "stage": "string",
      "stageProgress": "string"
    },
    "state": "string",
    "statusMessage": "string",
    "type": "string"
  }
],
"replicationJob": {
  "serviceName": "Server Migration Service",
  "replicationRunList": [
    {
      "amiId": "string",
      "completedTime": number,
      "description": "string",
      "replicationRunId": "string",
      "scheduledStartTime": number,
      "stageDetails": {
        "stage": "string",
        "stageProgress": "string"
      },
      "state": "string",
      "statusMessage": "string",
      "type": "string"
    }
  ]
}

Response Elements

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

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

`nextToken` (p. 16)

The token required to retrieve the next set of results. This value is null when there are no more results to return.

Type: String

`replicationJob` (p. 16)

Information about the replication job.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 43).

InvalidParameterException

A specified parameter is not valid.

HTTP Status Code: 400

MissingRequiredParameterException

A required parameter is missing.

HTTP Status Code: 400

UnauthorizedOperationException

You lack permissions needed to perform this operation. Check your IAM policies, and ensure that you are using the correct access keys.

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
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V2
GetServers

Describes the servers in your server catalog.

Before you can describe your servers, you must import them using ImportServerCatalog (p. 22).

Request Syntax

```json
{
  "maxResults": number,
  "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 41).

The request accepts the following data in JSON format.

- **maxResults (p. 19)**
  
  The maximum number of results to return in a single call. The default value is 50. To retrieve the remaining results, make another call with the returned `nextToken` value.
  
  Type: Integer
  
  Required: No

- **nextToken (p. 19)**
  
  The token for the next set of results.
  
  Type: String
  
  Required: No

Response Syntax

```json
{
  "lastModifiedOn": number,
  "nextToken": "string",
  "serverCatalogStatus": "string",
  "serverList": [
    {
      "replicationJobId": "string",
      "replicationJobTerminated": boolean,
      "serverId": "string",
      "serverType": "string",
      "vmServer": {
        "vmManagerName": "string",
        "vmManagerType": "string",
        "vmName": "string",
        "vmPath": "string",
        "vmServerAddress": {
          "vmId": "string",
          "vmManagerId": "string"
        }
      }
    }
  ]
}
```

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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.

lastModifiedOn (p. 19)

The time when the server was last modified.

Type: Timestamp

nextToken (p. 19)

The token required to retrieve the next set of results. This value is null when there are no more results to return.

Type: String

serverCatalogStatus (p. 19)

The status of the server catalog.

Type: String

Valid Values: NOT_IMPORTED | IMPORTING | AVAILABLE | DELETED | EXPIRED

serverList (p. 19)

Information about the servers.

Type: Array of Server (p. 38) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 43).

UnauthorizedOperationException

You lack permissions needed to perform this operation. Check your IAM policies, and ensure that you are using the correct access keys.

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
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V2
ImportServerCatalog

Gathers a complete list of on-premises servers. Connectors must be installed and monitoring all servers that you want to import.

This call returns immediately, but might take additional time to retrieve all the servers.

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 (p. 43).

InvalidParameterException

A specified parameter is not valid.

HTTP Status Code: 400

MissingRequiredParameterException

A required parameter is missing.

HTTP Status Code: 400

NoConnectorsAvailableException

There are no connectors available.

HTTP Status Code: 400

OperationNotPermittedException

This operation is not allowed.

HTTP Status Code: 400

UnauthorizedOperationException

You lack permissions needed to perform this operation. Check your IAM policies, and ensure that you are using the correct access keys.

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
See Also

- AWS SDK for Python
- AWS SDK for Ruby V2
StartOnDemandReplicationRun

Starts an on-demand replication run for the specified replication job. This replication run starts immediately. This replication run is in addition to the ones already scheduled.

There is a limit on the number of on-demand replications runs you can request in a 24-hour period.

Request Syntax

```json
{
    "description": "string",
    "replicationJobId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 41).

The request accepts the following data in JSON format.

**description** *(p. 24)*

The description of the replication run.

Type: String

Required: No

**replicationJobId** *(p. 24)*

The identifier of the replication job.

Type: String

Required: Yes

Response Syntax

```json
{
    "replicationRunId": "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.

**replicationRunId** *(p. 24)*

The identifier of the replication run.

Type: String
Errors

For information about the errors that are common to all actions, see Common Errors (p. 43).

InvalidArgumentException

A specified parameter is not valid.

HTTP Status Code: 400

MissingRequiredParameterException

A required parameter is missing.

HTTP Status Code: 400

OperationNotPermittedException

This operation is not allowed.

HTTP Status Code: 400

ReplicationRunLimitExceededException

You have exceeded the number of on-demand replication runs you can request in a 24-hour period.

HTTP Status Code: 400

UnauthorizedOperationException

You lack permissions needed to perform this operation. Check your IAM policies, and ensure that you are using the correct access keys.

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
UpdateReplicationJob

Updates the specified settings for the specified replication job.

Request Syntax

```
{
   "description": "string",
   "frequency": number,
   "licenseType": "string",
   "nextReplicationRunStartTime": number,
   "numberOfRecentAmisToKeep": number,
   "replicationJobId": "string",
   "roleName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 41).

The request accepts the following data in JSON format.

description (p. 26)

The description of the replication job.

Type: String

Required: No

frequency (p. 26)

The time between consecutive replication runs, in hours.

Type: Integer

Required: No

licenseType (p. 26)

The license type to be used for the AMI created by a successful replication run.

Type: String

Valid Values: AWS | BYOL

Required: No

nextReplicationRunStartTime (p. 26)

The start time of the next replication run.

Type: Timestamp

Required: No

numberOfRecentAmisToKeep (p. 26)

The maximum number of SMS-created AMIs to retain. The oldest will be deleted once the maximum number is reached and a new AMI is created.
Type: Integer
Required: No

`replicationJobId (p. 26)`

The identifier of the replication job.

Type: String
Required: Yes

`roleName (p. 26)`

The name of the IAM role to be used by the Server Migration Service.

Type: String
Required: No

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 (p. 43).

`InternalError`

An internal error occurred.

HTTP Status Code: 500

`InvalidParameterException`

A specified parameter is not valid.

HTTP Status Code: 400

`MissingRequiredParameterException`

A required parameter is missing.

HTTP Status Code: 400

`OperationNotPermittedException`

This operation is not allowed.

HTTP Status Code: 400

`ReplicationJobNotFoundException`

The specified replication job does not exist.

HTTP Status Code: 400

`ServerCannotBeReplicatedException`

The specified server cannot be replicated.

HTTP Status Code: 400
**TemporarilyUnavailableException**

The service is temporarily unavailable.

HTTP Status Code: 500

**UnauthorizedOperationException**

You lack permissions needed to perform this operation. Check your IAM policies, and ensure that you are using the correct access keys.

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
Data Types

The AWS Server Migration Service API contains several data types that various actions use. This section describes each data type in detail.

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

The following data types are supported:

- Connector (p. 30)
- ReplicationJob (p. 32)
- ReplicationRun (p. 35)
- ReplicationRunStageDetails (p. 37)
- Server (p. 38)
- VmServer (p. 39)
- VmServerAddress (p. 40)
Connector

Represents a connector.

Contents

associatedOn

The time the connector was associated.

Type: Timestamp

Required: No

capabilityList

The capabilities of the connector.

Type: Array of strings

Valid Values: VSPHERE | SCVMM | HYPERV-MANAGER

Required: No

connectorId

The identifier of the connector.

Type: String

Required: No

ipAddress

The IP address of the connector.

Type: String

Required: No

macAddress

The MAC address of the connector.

Type: String

Required: No

status

The status of the connector.

Type: String

Valid Values: HEALTHY | UNHEALTHY

Required: No

version

The connector version.

Type: String
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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
ReplicationJob

Represents a replication job.

Contents

description

The description of the replication job.

Type: String

Required: No

frequency

The time between consecutive replication runs, in hours.

Type: Integer

Required: No

latestAmiId

The ID of the latest Amazon Machine Image (AMI).

Type: String

Required: No

licenseType

The license type to be used for the AMI created by a successful replication run.

Type: String

Valid Values: AWS | BYOL

Required: No

nextReplicationRunStartTime

The start time of the next replication run.

Type: Timestamp

Required: No

numberOfRecentAmisToKeep

Type: Integer

Required: No

replicationJobId

The identifier of the replication job.

Type: String

Required: No

replicationRunList

Information about the replication runs.
Type: Array of `ReplicationRun (p. 35)` objects

**roleName**

The name of the IAM role to be used by the Server Migration Service.

Type: String

Required: No

**seedReplicationTime**

The seed replication time.

Type: Timestamp

Required: No

**serverId**

The identifier of the server.

Type: String

Required: No

**serverType**

The type of server.

Type: String

Valid Values: `VIRTUAL_MACHINE`

Required: No

**state**

The state of the replication job.

Type: String

Valid Values: `PENDING` | `ACTIVE` | `FAILED` | `DELETING` | `DELETED` | `COMPLETED`

Required: No

**statusMessage**

The description of the current status of the replication job.

Type: String

Required: No

**vmServer**

Information about the VM server.

Type: `VmServer (p. 39)` object

Required: No

---

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java
• AWS SDK for Ruby V2
ReplicationRun

Represents a replication run.

Contents

- **amiId**
  - The identifier of the Amazon Machine Image (AMI) from the replication run.
  - Type: String
  - Required: No

- **completedTime**
  - The completion time of the last replication run.
  - Type: Timestamp
  - Required: No

- **description**
  - The description of the replication run.
  - Type: String
  - Required: No

- **replicationRunId**
  - The identifier of the replication run.
  - Type: String
  - Required: No

- **scheduledStartTime**
  - The start time of the next replication run.
  - Type: Timestamp
  - Required: No

- **stageDetails**
  - Type: `ReplicationRunStageDetails` object
  - Required: No

- **state**
  - The state of the replication run.
  - Type: String
  - Valid Values: PENDING | MISSED | ACTIVE | FAILED | COMPLETED | DELETING | DELETED
  - Required: No
statusMessage

The description of the current status of the replication job.

Type: String
Required: No

type

The type of replication run.

Type: String
Valid Values: ON_DEMAND | AUTOMATIC
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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
ReplicationRunStageDetails

Contents

stage
   Type: String
   Required: No

stageProgress
   Type: String
   Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
Server

Represents a server.

Contents

replicationJobId

The identifier of the replication job.

Type: String

Required: No

replicationJobTerminated

Indicates whether the replication job is deleted or failed.

Type: Boolean

Required: No

serverId

The identifier of the server.

Type: String

Required: No

serverType

The type of server.

Type: String

Valid Values: VIRTUAL_MACHINE

Required: No

vmServer

Information about the VM server.

Type: VmServer (p. 39) object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
VmServer

Represents a VM server.

Contents

vmManagerName

The name of the VM manager.

Type: String

Required: No

vmManagerType

The type of VM management product.

Type: String

Valid Values: VSPHERE | SCVMM | HYPERV-MANAGER

Required: No

vmName

The name of the VM.

Type: String

Required: No

vmPath

The VM folder path in the vCenter Server virtual machine inventory tree.

Type: String

Required: No

VmServerAddress

Information about the VM server location.

Type: VmServerAddress (p. 40) object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
VmServerAddress

Represents a VM server location.

Contents

**vmId**

The identifier of the VM.

Type: String

Required: No

**vmManagerId**

The identifier of the VM manager.

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
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 Signature Version 4 Signing Process in the Amazon Web Services General Reference.

**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`.
  - 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 Handling Dates in Signature Version 4 in the Amazon Web Services General Reference.

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 Security Token Service, go to AWS Services That Work with IAM in the IAM User Guide.

Condition: If you're using temporary security credentials from the AWS Security Token Service, 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 Task 1: Create a Canonical Request For Signature Version 4 in the Amazon Web Services General Reference.

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: 400

**IncompleteSignature**
- The request signature does not conform to AWS standards.
- HTTP Status Code: 400

**InternalFailure**
- The request processing has failed because of an unknown error, exception or failure.
- HTTP Status Code: 500

**InvalidAction**
- The action or operation requested is invalid. Verify that the action is typed correctly.
- HTTP Status Code: 400

**InvalidClientTokenId**
- The X.509 certificate or AWS access key ID provided does not exist in our records.
- HTTP Status Code: 403

**InvalidParameterCombination**
- Parameters that must not be used together were used together.
- HTTP Status Code: 400

**InvalidParameterValue**
- An invalid or out-of-range value was supplied for the input parameter.
- HTTP Status Code: 400

**InvalidQueryParameter**
- The AWS query string is malformed or does not adhere to AWS standards.
- HTTP Status Code: 400

**MalformedQueryString**
- The query string contains a syntax error.
- HTTP Status Code: 404

**MissingAction**
- The request is missing an action or a required parameter.
- HTTP Status Code: 400
MissingAuthenticationToken
The request must contain either a valid (registered) AWS access key ID or X.509 certificate.
HTTP Status Code: 403

MissingParameter
A required parameter for the specified action is not supplied.
HTTP Status Code: 400

OptInRequired
The AWS access key ID needs a subscription for the service.
HTTP Status Code: 403

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

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

ValidationError
The input fails to satisfy the constraints specified by an AWS service.
HTTP Status Code: 400