
AWS Server Migration Service

Server Migration

API Version 2016-10-24



AWS Server Migration Service: Server Migration

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Table of Contents

Welcome	1
Actions	2
CreateReplicationJob	3
Request Syntax	3
Request Parameters	3
Response Syntax	4
Response Elements	4
Errors	5
See Also	6
DeleteReplicationJob	7
Request Syntax	7
Request Parameters	7
Response Elements	7
Errors	7
See Also	8
DeleteServerCatalog	9
Response Elements	9
Errors	9
See Also	9
DisassociateConnector	10
Request Syntax	10
Request Parameters	10
Response Elements	10
Errors	10
See Also	11
GetConnectors	12
Request Syntax	12
Request Parameters	12
Response Syntax	12
Response Elements	12
Errors	13
See Also	13
GetReplicationJobs	14
Request Syntax	14
Request Parameters	14
Response Syntax	14
Response Elements	15
Errors	15
See Also	16
GetReplicationRuns	17
Request Syntax	17
Request Parameters	17
Response Syntax	17
Response Elements	18
Errors	19
See Also	19
GetServers	20
Request Syntax	20
Request Parameters	20
Response Syntax	20
Response Elements	21
Errors	21
See Also	22
ImportServerCatalog	23

Response Elements	23
Errors	23
See Also	23
StartOnDemandReplicationRun	25
Request Syntax	25
Request Parameters	25
Response Syntax	25
Response Elements	25
Errors	26
See Also	26
UpdateReplicationJob	27
Request Syntax	27
Request Parameters	27
Response Elements	28
Errors	28
See Also	29
Data Types	30
Connector	31
Contents	31
See Also	32
ReplicationJob	33
Contents	33
See Also	35
ReplicationRun	36
Contents	36
See Also	37
ReplicationRunStageDetails	38
Contents	38
See Also	38
Server	39
Contents	39
See Also	39
VmServer	40
Contents	40
See Also	40
VmServerAddress	41
Contents	41
See Also	41
Common Parameters	42
Common Errors	44

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 AWS Server Migration Service (AWS SMS). 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](#)

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Actions

The following actions are supported:

- [CreateReplicationJob](#) (p. 3)
- [DeleteReplicationJob](#) (p. 7)
- [DeleteServerCatalog](#) (p. 9)
- [DisassociateConnector](#) (p. 10)
- [GetConnectors](#) (p. 12)
- [GetReplicationJobs](#) (p. 14)
- [GetReplicationRuns](#) (p. 17)
- [GetServers](#) (p. 20)
- [ImportServerCatalog](#) (p. 23)
- [StartOnDemandReplicationRun](#) (p. 25)
- [UpdateReplicationJob](#) (p. 27)

CreateReplicationJob

Creates 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

```
{  
  "description": "string",  
  "encrypted": boolean,  
  "frequency": number,  
  "kmsKeyId": "string",  
  "licenseType": "string",  
  "numberOfRecentAmisToKeep": number,  
  "roleName": "string",  
  "runOnce": boolean,  
  "seedReplicationTime": number,  
  "serverId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 42).

The request accepts the following data in JSON format.

[description](#) (p. 3)

The description of the replication job.

Type: String

Required: No

[encrypted](#) (p. 3)

When *true*, the replication job produces encrypted AMIs. See also `kmsKeyId` below.

Type: Boolean

Required: No

[frequency](#) (p. 3)

The time between consecutive replication runs, in hours.

Type: Integer

Required: No

[kmsKeyId](#) (p. 3)

KMS key ID for replication jobs that produce encrypted AMIs. Can be any of the following:

- KMS key ID
- KMS key alias
- ARN referring to KMS key ID
- ARN referring to KMS key alias

If *encrypted* is *true* but a KMS key id is not specified, the customer's default KMS key for EBS is used.

Type: String

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 AWS SMS.

Type: String

Required: No

runOnce (p. 3)

Type: Boolean

Required: No

seedReplicationTime (p. 3)

The seed replication time.

Type: Timestamp

Required: Yes

serverId (p. 3)

The identifier of the server.

Type: String

Required: Yes

Response Syntax

```
{
  "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 \(p. 44\)](#).

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 Amazon S3 bucket used to store AWS 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 \(p. 42\)](#).

The request accepts the following data in JSON format.

replicationJobId (p. 7)

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 \(p. 44\)](#).

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

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](#)

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 \(p. 44\)](#).

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 AWS SMS.

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 \(p. 42\)](#).

The request accepts the following data in JSON format.

connectorId (p. 10)

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 \(p. 44\)](#).

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](#)

GetConnectors

Describes the connectors registered with the AWS SMS.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 42\)](#).

The request accepts the following data in JSON format.

maxResults (p. 12)

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. 12)

The token for the next set of results.

Type: String

Required: No

Response Syntax

```
{  
  "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. 12)

Information about the registered connectors.

Type: Array of [Connector \(p. 31\)](#) objects

nextToken (p. 12)

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 \(p. 44\)](#).

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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 42).

The request accepts the following data in JSON format.

maxResults (p. 14)

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. 14)

The token for the next set of results.

Type: String

Required: No

replicationJobId (p. 14)

The identifier of the replication job.

Type: String

Required: No

Response Syntax

```
{  
  "nextToken": "string",  
  "replicationJobList": [  
    {  
      "description": "string",  
      "encrypted": boolean,  
      "frequency": number,  
      "kmsKeyId": "string",  
      "latestAmiId": "string",  
      "licenseType": "string",  
      "nextReplicationRunStartTime": number,  
      "numberOfRecentAmisToKeep": number,  
      "replicationJobId": "string",  
      "replicationStatus": "string",  
      "serverName": "string",  
      "serverType": "string",  
      "sourceArn": "string",  
      "targetArn": "string",  
      "targetPlatform": "string",  
      "targetRegion": "string",  
      "targetSubnetId": "string",  
      "targetVpcId": "string",  
      "targetZone": "string",  
      "targetZoneId": "string",  
      "targetZoneName": "string",  
      "targetZoneType": "string",  
      "targetZoneId": "string",  
      "targetZoneName": "string",  
      "targetZoneType": "string",  
      "targetZoneId": "string",  
      "targetZoneName": "string",  
      "targetZoneType": "string"  
    }  
  ]  
}
```

```

    "replicationJobId": "string",
    "replicationRunList": [
      {
        "amiId": "string",
        "completedTime": number,
        "description": "string",
        "encrypted": boolean,
        "kmsKeyId": "string",
        "replicationRunId": "string",
        "scheduledStartTime": number,
        "stageDetails": {
          "stage": "string",
          "stageProgress": "string"
        },
        "state": "string",
        "statusMessage": "string",
        "type": "string"
      }
    ],
    "roleName": "string",
    "runOnce": boolean,
    "seedReplicationTime": number,
    "serverId": "string",
    "serverType": "string",
    "state": "string",
    "statusMessage": "string",
    "vmServer": {
      "vmManagerName": "string",
      "vmManagerType": "string",
      "vmName": "string",
      "vmPath": "string",
      "vmServerAddress": {
        "vmId": "string",
        "vmManagerId": "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. 14)

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. 14)

Information about the replication jobs.

Type: Array of [ReplicationJob](#) (p. 33) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 44).

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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 42\)](#).

The request accepts the following data in JSON format.

maxResults (p. 17)

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. 17)

The token for the next set of results.

Type: String

Required: No

replicationJobId (p. 17)

The identifier of the replication job.

Type: String

Required: Yes

Response Syntax

```
{  
  "nextToken": "string",  
  "replicationJob": {  
    "description": "string",  
    "encrypted": boolean,  
    "frequency": number,  
    "kmsKeyId": "string",  
    "latestAmiId": "string",  
    "licenseType": "string",  
  }
```

```

    "nextReplicationRunStartTime": number,
    "numberOfRecentAmisToKeep": number,
    "replicationJobId": "string",
    "replicationRunList": [
      {
        "amiId": "string",
        "completedTime": number,
        "description": "string",
        "encrypted": boolean,
        "kmsKeyId": "string",
        "replicationRunId": "string",
        "scheduledStartTime": number,
        "stageDetails": {
          "stage": "string",
          "stageProgress": "string"
        },
        "state": "string",
        "statusMessage": "string",
        "type": "string"
      }
    ],
    "roleName": "string",
    "runOnce": boolean,
    "seedReplicationTime": number,
    "serverId": "string",
    "serverType": "string",
    "state": "string",
    "statusMessage": "string",
    "vmServer": {
      "vmManagerName": "string",
      "vmManagerType": "string",
      "vmName": "string",
      "vmPath": "string",
      "vmServerAddress": {
        "vmId": "string",
        "vmManagerId": "string"
      }
    }
  },
  "replicationRunList": [
    {
      "amiId": "string",
      "completedTime": number,
      "description": "string",
      "encrypted": boolean,
      "kmsKeyId": "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. 17)

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. 17)

Information about the replication job.

Type: [ReplicationJob \(p. 33\)](#) object

replicationRunList (p. 17)

Information about the replication runs.

Type: Array of [ReplicationRun \(p. 36\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 44\)](#).

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. 23).

Request Syntax

```
{
  "maxResults": number,
  "nextToken": "string",
  "vmServerAddressList": [
    {
      "vmId": "string",
      "vmManagerId": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 42).

The request accepts the following data in JSON format.

maxResults (p. 20)

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. 20)

The token for the next set of results.

Type: String

Required: No

vmServerAddressList (p. 20)

List of `VmServerAddress` objects

Type: Array of [VmServerAddress](#) (p. 41) objects

Required: No

Response Syntax

```
{
  "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"
    }
  }
}
```

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. 20)

The time when the server was last modified.

Type: Timestamp

nextToken (p. 20)

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. 20)

The status of the server catalog.

Type: String

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

serverList (p. 20)

Information about the servers.

Type: Array of [Server](#) (p. 39) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 44).

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 \(p. 44\)](#).

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](#)

- [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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 42\)](#).

The request accepts the following data in JSON format.

description (p. 25)

The description of the replication run.

Type: String

Required: No

replicationJobId (p. 25)

The identifier of the replication job.

Type: String

Required: Yes

Response Syntax

```
{  
  "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. 25)

The identifier of the replication run.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 44\)](#).

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

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",  
  "encrypted": boolean,  
  "frequency": number,  
  "kmsKeyId": "string",  
  "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. 42).

The request accepts the following data in JSON format.

description (p. 27)

The description of the replication job.

Type: String

Required: No

encrypted (p. 27)

When true, the replication job produces encrypted AMIs . See also `KmsKeyId` below.

Type: Boolean

Required: No

frequency (p. 27)

The time between consecutive replication runs, in hours.

Type: Integer

Required: No

kmsKeyId (p. 27)

KMS key ID for replication jobs that produce encrypted AMIs. Can be any of the following:

- KMS key ID
- KMS key alias
- ARN referring to KMS key ID
- ARN referring to KMS key alias

If `encrypted` is `true` but a KMS key id is not specified, the customer's default KMS key for EBS is used.

Type: String

Required: No

licenseType (p. 27)

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. 27)

The start time of the next replication run.

Type: Timestamp

Required: No

numberOfRecentAmisToKeep (p. 27)

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. 27)

The identifier of the replication job.

Type: String

Required: Yes

roleName (p. 27)

The name of the IAM role to be used by AWS SMS.

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 \(p. 44\)](#).

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. 31)
- [ReplicationJob](#) (p. 33)
- [ReplicationRun](#) (p. 36)
- [ReplicationRunStageDetails](#) (p. 38)
- [Server](#) (p. 39)
- [VmServer](#) (p. 40)
- [VmServerAddress](#) (p. 41)

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` | `SNAPSHOT_BATCHING`

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

Required: No

vmManagerId

The identifier of the VM manager.

Type: String

Required: No

vmManagerName

The name of the VM manager.

Type: String

Required: No

vmManagerType

The VM management product.

Type: String

Valid Values: VSPHERE | SCVMM | HYPERV-MANAGER

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](#)

ReplicationJob

Represents a replication job.

Contents

description

The description of the replication job.

Type: String

Required: No

encrypted

Whether the replication job should produce encrypted AMIs or not. See also `KmsKeyId` below.

Type: Boolean

Required: No

frequency

The time between consecutive replication runs, in hours.

Type: Integer

Required: No

kmsKeyId

KMS key ID for replication jobs that produce encrypted AMIs. Can be any of the following:

- KMS key ID
- KMS key alias
- ARN referring to KMS key ID
- ARN referring to KMS key alias

If `encrypted` is `true` but a KMS key id is not specified, the customer's default KMS key for EBS is used.

Type: String

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

Number of recent AMIs to keep in the customer's account for a replication job. By default the value is set to zero, meaning that all AMIs are kept.

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 \(p. 36\)](#) objects

Required: No

roleName

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

Type: String

Required: No

runOnce

Type: Boolean

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` | `PAUSED_ON_FAILURE` | `FAILING`

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 \(p. 40\)](#) 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](#)

ReplicationRun

Represents a replication run.

Contents

amild

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

encrypted

Whether the replication run should produce encrypted AMI or not. See also `kmsKeyId` below.

Type: Boolean

Required: No

kmsKeyId

KMS key ID for replication jobs that produce encrypted AMIs. Can be any of the following:

- KMS key ID
- KMS key alias
- ARN referring to KMS key ID
- ARN referring to KMS key alias

If `encrypted` is `true` but a KMS key id is not specified, the customer's default KMS key for EBS is used.

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

Details of the current stage of the replication run.

Type: [ReplicationRunStageDetails](#) (p. 38) 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

Details of the current stage of a replication run.

Contents

stage

String describing the current stage of a replication run.

Type: String

Required: No

stageProgress

String describing the progress of the current stage of a replication run.

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. 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](#)

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. 41) 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`.

For more information, see [Task 2: Create a String to Sign 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

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'THHMMSS'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