
AWS Server Migration Service

API Reference

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AWS Server Migration Service: API Reference

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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 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 AWS SMS, see the following resources:

- [AWS Server Migration Service product page](#)
- [AWS Server Migration Service User Guide](#)

This document was last published on January 21, 2019.

Actions

The following actions are supported:

- [CreateApp](#) (p. 3)
- [CreateReplicationJob](#) (p. 7)
- [DeleteApp](#) (p. 11)
- [DeleteAppLaunchConfiguration](#) (p. 13)
- [DeleteAppReplicationConfiguration](#) (p. 15)
- [DeleteReplicationJob](#) (p. 17)
- [DeleteServerCatalog](#) (p. 19)
- [DisassociateConnector](#) (p. 20)
- [GenerateChangeSet](#) (p. 22)
- [GenerateTemplate](#) (p. 24)
- [GetApp](#) (p. 26)
- [GetAppLaunchConfiguration](#) (p. 29)
- [GetAppReplicationConfiguration](#) (p. 32)
- [GetConnectors](#) (p. 35)
- [GetReplicationJobs](#) (p. 37)
- [GetReplicationRuns](#) (p. 40)
- [GetServers](#) (p. 43)
- [ImportServerCatalog](#) (p. 46)
- [LaunchApp](#) (p. 48)
- [ListApps](#) (p. 50)
- [PutAppLaunchConfiguration](#) (p. 53)
- [PutAppReplicationConfiguration](#) (p. 56)
- [StartAppReplication](#) (p. 59)
- [StartOnDemandReplicationRun](#) (p. 61)
- [StopAppReplication](#) (p. 63)
- [TerminateApp](#) (p. 65)
- [UpdateApp](#) (p. 67)
- [UpdateReplicationJob](#) (p. 71)

CreateApp

Creates an application. An application consists of one or more server groups. Each server group contain one or more servers.

Request Syntax

```
{
  "clientToken": "string",
  "description": "string",
  "name": "string",
  "roleName": "string",
  "serverGroups": [
    {
      "name": "string",
      "serverGroupId": "string",
      "serverList": [
        {
          "replicationJobId": "string",
          "replicationJobTerminated": boolean,
          "serverId": "string",
          "serverType": "string",
          "vmServer": {
            "vmManagerName": "string",
            "vmManagerType": "string",
            "vmName": "string",
            "vmPath": "string",
            "vmServerAddress": {
              "vmId": "string",
              "vmManagerId": "string"
            }
          }
        }
      ]
    }
  ],
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 101).

The request accepts the following data in JSON format.

clientToken (p. 3)

A unique, case-sensitive identifier that you provide to ensure the idempotency of application creation.

Type: String

Required: No

description (p. 3)

Description of the new application

Type: String

Required: No

name (p. 3)

Name of the new application.

Type: String

Required: No

roleName (p. 3)

Name of the service role in the customer's account to be used by AWS SMS.

Type: String

Required: No

serverGroups (p. 3)

List of server groups to include in the application.

Type: Array of [ServerGroup \(p. 89\)](#) objects

Required: No

tags (p. 3)

List of tags to be associated with the application.

Type: Array of [Tag \(p. 97\)](#) objects

Required: No

Response Syntax

```
{
  "appSummary": {
    "appId": "string",
    "creationTime": number,
    "description": "string",
    "lastModified": number,
    "latestReplicationTime": number,
    "launchDetails": {
      "latestLaunchTime": number,
      "stackId": "string",
      "stackName": "string"
    },
    "launchStatus": "string",
    "launchStatusMessage": "string",
    "name": "string",
    "replicationStatus": "string",
    "replicationStatusMessage": "string",
    "roleName": "string",
    "status": "string",
    "statusMessage": "string",
    "totalServerGroups": number,
  }
}
```

```
    "totalServers": number
  },
  "serverGroups": [
    {
      "name": "string",
      "serverGroupId": "string",
      "serverList": [
        {
          "replicationJobId": "string",
          "replicationJobTerminated": boolean,
          "serverId": "string",
          "serverType": "string",
          "vmServer": {
            "vmManagerName": "string",
            "vmManagerType": "string",
            "vmName": "string",
            "vmPath": "string",
            "vmServerAddress": {
              "vmId": "string",
              "vmManagerId": "string"
            }
          }
        }
      ]
    }
  ],
  "tags": [
    {
      "key": "string",
      "value": "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.

appSummary (p. 4)

Summary description of the application.

Type: [AppSummary](#) (p. 75) object

serverGroups (p. 4)

List of server groups included in the application.

Type: Array of [ServerGroup](#) (p. 89) objects

tags (p. 4)

List of tags associated with the application.

Type: Array of [Tag](#) (p. 97) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 103).

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

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](#)

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 \(p. 101\)](#).

The request accepts the following data in JSON format.

description (p. 7)

The description of the replication job.

Type: String

Required: No

encrypted (p. 7)

When *true*, the replication job produces encrypted AMIs. For more information, see `KmsKeyId`.

Type: Boolean

Required: No

frequency (p. 7)

The time between consecutive replication runs, in hours.

Type: Integer

Required: No

kmsKeyId (p. 7)

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

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

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

Type: String

Required: No

licenseType (p. 7)

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. 7)

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

Type: Integer

Required: No

roleName (p. 7)

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

Type: String

Required: No

runOnce (p. 7)

Type: Boolean

Required: No

seedReplicationTime (p. 7)

The seed replication time.

Type: Timestamp

Required: Yes

serverId (p. 7)

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. 8)

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. 103).

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](#)

DeleteApp

Deletes an existing application. Optionally deletes the launched stack associated with the application and all AWS SMS replication jobs for servers in the application.

Request Syntax

```
{  
  "appId": "string",  
  "forceStopAppReplication": boolean,  
  "forceTerminateApp": boolean  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

appId (p. 11)

ID of the application to delete.

Type: String

Required: No

forceStopAppReplication (p. 11)

While deleting the application, stop all replication jobs corresponding to the servers in the application.

Type: Boolean

Required: No

forceTerminateApp (p. 11)

While deleting the application, terminate the stack corresponding to the application.

Type: Boolean

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 \(p. 103\)](#).

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

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](#)

DeleteAppLaunchConfiguration

Deletes existing launch configuration for an application.

Request Syntax

```
{  
  "appId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

appId (p. 13)

ID of the application associated with the launch configuration.

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 \(p. 103\)](#).

InternalServerError

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

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](#)

DeleteAppReplicationConfiguration

Deletes existing replication configuration for an application.

Request Syntax

```
{  
  "appId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

appId (p. 15)

ID of the application associated with the replication configuration.

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 \(p. 103\)](#).

InternalServerError

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

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 \(p. 101\)](#).

The request accepts the following data in JSON format.

replicationJobId (p. 17)

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 \(p. 103\)](#).

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 \(p. 103\)](#).

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 \(p. 101\)](#).

The request accepts the following data in JSON format.

connectorId (p. 20)

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 \(p. 103\)](#).

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](#)

GenerateChangeSet

Generates a target change set for a currently launched stack and writes it to an Amazon S3 object in the customer's Amazon S3 bucket.

Request Syntax

```
{  
  "appId": "string",  
  "changesetFormat": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

[appId \(p. 22\)](#)

ID of the application associated with the change set.

Type: String

Required: No

[changesetFormat \(p. 22\)](#)

Format for the change set.

Type: String

Valid Values: JSON | YAML

Required: No

Response Syntax

```
{  
  "s3Location": {  
    "bucket": "string",  
    "key": "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.

[s3Location \(p. 22\)](#)

Location of the Amazon S3 object.

Type: [S3Location](#) (p. 87) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 103).

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

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](#)

GenerateTemplate

Generates an AWS CloudFormation template based on the current launch configuration and writes it to an Amazon S3 object in the customer's Amazon S3 bucket.

Request Syntax

```
{  
  "appId": "string",  
  "templateFormat": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 101).

The request accepts the following data in JSON format.

appId (p. 24)

ID of the application associated with the AWS CloudFormation template.

Type: String

Required: No

templateFormat (p. 24)

Format for generating the AWS CloudFormation template.

Type: String

Valid Values: JSON | YAML

Required: No

Response Syntax

```
{  
  "s3Location": {  
    "bucket": "string",  
    "key": "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.

s3Location (p. 24)

Location of the Amazon S3 object.

Type: [S3Location](#) (p. 87) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 103).

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

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](#)

GetApp

Retrieve information about an application.

Request Syntax

```
{  
  "appId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

appId (p. 26)

ID of the application whose information is being retrieved.

Type: String

Required: No

Response Syntax

```
{  
  "appSummary": {  
    "appId": "string",  
    "creationTime": number,  
    "description": "string",  
    "lastModified": number,  
    "latestReplicationTime": number,  
    "launchDetails": {  
      "latestLaunchTime": number,  
      "stackId": "string",  
      "stackName": "string"  
    },  
    "launchStatus": "string",  
    "launchStatusMessage": "string",  
    "name": "string",  
    "replicationStatus": "string",  
    "replicationStatusMessage": "string",  
    "roleName": "string",  
    "status": "string",  
    "statusMessage": "string",  
    "totalServerGroups": number,  
    "totalServers": number  
  },  
  "serverGroups": [  
    {  
      "name": "string",  
      "serverGroupId": "string",  
      "serverList": [  
        {  
          "replicationJobId": "string",  

```

```
    "replicationJobTerminated": boolean,
    "serverId": "string",
    "serverType": "string",
    "vmServer": {
      "vmManagerName": "string",
      "vmManagerType": "string",
      "vmName": "string",
      "vmPath": "string",
      "vmServerAddress": {
        "vmId": "string",
        "vmManagerId": "string"
      }
    }
  ]
},
"tags": [
  {
    "key": "string",
    "value": "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.

appSummary (p. 26)

Information about the application.

Type: [AppSummary \(p. 75\)](#) object

serverGroups (p. 26)

List of server groups belonging to the application.

Type: Array of [ServerGroup \(p. 89\)](#) objects

tags (p. 26)

List of tags associated with the application.

Type: Array of [Tag \(p. 97\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

InternalServerError

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

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](#)

GetAppLaunchConfiguration

Retrieves the application launch configuration associated with an application.

Request Syntax

```
{  
  "appId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

appId (p. 29)

ID of the application launch configuration.

Type: String

Required: No

Response Syntax

```
{  
  "appId": "string",  
  "roleName": "string",  
  "serverGroupLaunchConfigurations": [  
    {  
      "launchOrder": number,  
      "serverGroupId": "string",  
      "serverLaunchConfigurations": [  
        {  
          "associatePublicIpAddress": boolean,  
          "ec2KeyName": "string",  
          "instanceType": "string",  
          "logicalId": "string",  
          "securityGroup": "string",  
          "server": {  
            "replicationJobId": "string",  
            "replicationJobTerminated": boolean,  
            "serverId": "string",  
            "serverType": "string",  
            "vmServer": {  
              "vmManagerName": "string",  
              "vmManagerType": "string",  
              "vmName": "string",  
              "vmPath": "string",  
              "vmServerAddress": {  
                "vmId": "string",  
                "vmManagerId": "string"  
              }  
            }  
          }  
        }  
      ]  
    }  
  ],  
}
```

```
    "subnet": "string",
    "userData": {
      "s3Location": {
        "bucket": "string",
        "key": "string"
      }
    },
    "vpc": "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.

appId (p. 29)

ID of the application associated with the launch configuration.

Type: String

roleName (p. 29)

Name of the service role in the customer's account that AWS CloudFormation uses to launch the application.

Type: String

serverGroupLaunchConfigurations (p. 29)

List of launch configurations for server groups in this application.

Type: Array of [ServerGroupLaunchConfiguration](#) (p. 90) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 103).

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

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](#)

GetAppReplicationConfiguration

Retrieves an application replication configuration associated with an application.

Request Syntax

```
{  
  "appId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

appId (p. 32)

ID of the application associated with the replication configuration.

Type: String

Required: No

Response Syntax

```
{  
  "serverGroupReplicationConfigurations": [  
    {  
      "serverGroupId": "string",  
      "serverReplicationConfigurations": [  
        {  
          "server": {  
            "replicationJobId": "string",  
            "replicationJobTerminated": boolean,  
            "serverId": "string",  
            "serverType": "string",  
            "vmServer": {  
              "vmManagerName": "string",  
              "vmManagerType": "string",  
              "vmName": "string",  
              "vmPath": "string",  
              "vmServerAddress": {  
                "vmId": "string",  
                "vmManagerId": "string"  
              }  
            }  
          }  
        },  
        {  
          "serverReplicationParameters": {  
            "encrypted": boolean,  
            "frequency": number,  
            "kmsKeyId": "string",  
            "licenseType": "string",  
            "numberOfRecentAmisToKeep": number,  
            "runOnce": boolean,  
            "seedTime": number  
          }  
        }  
      ]  
    }  
  ]  
}
```

```
}  
  ]  
  }  
  ]  
  }  
}
```

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.

serverGroupReplicationConfigurations (p. 32)

Replication configurations associated with server groups in this application.

Type: Array of [ServerGroupReplicationConfiguration \(p. 91\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

InternalServerError

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

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 \(p. 101\)](#).

The request accepts the following data in JSON format.

maxResults (p. 35)

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. 35)

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. 35)

Information about the registered connectors.

Type: Array of [Connector \(p. 78\)](#) objects

nextToken (p. 35)

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 \(p. 103\)](#).

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. 101).

The request accepts the following data in JSON format.

maxResults (p. 37)

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. 37)

The token for the next set of results.

Type: String

Required: No

replicationJobId (p. 37)

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",
"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 \(p. 37\)](#)

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 \(p. 37\)](#)

Information about the replication jobs.

Type: Array of [ReplicationJob \(p. 81\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

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 \(p. 101\)](#).

The request accepts the following data in JSON format.

maxResults (p. 40)

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. 40)

The token for the next set of results.

Type: String

Required: No

replicationJobId (p. 40)

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 \(p. 40\)](#)

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 \(p. 40\)](#)

Information about the replication job.

Type: [ReplicationJob \(p. 81\)](#) object

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

Information about the replication runs.

Type: Array of [ReplicationRun \(p. 84\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

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. 46).

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. 101).

The request accepts the following data in JSON format.

maxResults (p. 43)

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. 43)

The token for the next set of results.

Type: String

Required: No

vmServerAddressList (p. 43)

List of `VmServerAddress` objects

Type: Array of [VmServerAddress](#) (p. 100) 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. 43)

The time when the server was last modified.

Type: Timestamp

nextToken (p. 43)

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. 43)

The status of the server catalog.

Type: String

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

serverList (p. 43)

Information about the servers.

Type: Array of [Server](#) (p. 88) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 103).

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 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 \(p. 103\)](#).

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](#)

LaunchApp

Launches an application as a stack in AWS CloudFormation.

Request Syntax

```
{  
  "appId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

appId (p. 48)

ID of the application to launch.

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 \(p. 103\)](#).

InternalServerError

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

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](#)

ListApps

Returns a list of summaries for all applications.

Request Syntax

```
{
  "appIds": [ "string" ],
  "maxResults": number,
  "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 101).

The request accepts the following data in JSON format.

appIds (p. 50)

A list of unique application IDs.

Type: Array of strings

Required: No

maxResults (p. 50)

The maximum number of results to return in a single call. The default value is 100. To retrieve the remaining results, make another call with the returned `NextToken` value.

Type: Integer

Required: No

nextToken (p. 50)

The token for the next set of results.

Type: String

Required: No

Response Syntax

```
{
  "apps": [
    {
      "appId": "string",
      "creationTime": number,
      "description": "string",
      "lastModified": number,
      "latestReplicationTime": number,
      "launchDetails": {
        "latestLaunchTime": number,
        "stackId": "string",
        "stackName": "string"
      }
    }
  ]
}
```

```
    },  
    "launchStatus": "string",  
    "launchStatusMessage": "string",  
    "name": "string",  
    "replicationStatus": "string",  
    "replicationStatusMessage": "string",  
    "roleName": "string",  
    "status": "string",  
    "statusMessage": "string",  
    "totalServerGroups": number,  
    "totalServers": number  
  }  
],  
"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.

apps (p. 50)

A list of application summaries.

Type: Array of [AppSummary \(p. 75\)](#) objects

nextToken (p. 50)

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 \(p. 103\)](#).

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

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](#)

PutAppLaunchConfiguration

Creates or updates a launch configuration for an application.

Request Syntax

```
{
  "appId": "string",
  "roleName": "string",
  "serverGroupLaunchConfigurations": [
    {
      "launchOrder": number,
      "serverGroupId": "string",
      "serverLaunchConfigurations": [
        {
          "associatePublicIpAddress": boolean,
          "ec2KeyName": "string",
          "instanceType": "string",
          "logicalId": "string",
          "securityGroup": "string",
          "server": {
            "replicationJobId": "string",
            "replicationJobTerminated": boolean,
            "serverId": "string",
            "serverType": "string",
            "vmServer": {
              "vmManagerName": "string",
              "vmManagerType": "string",
              "vmName": "string",
              "vmPath": "string",
              "vmServerAddress": {
                "vmId": "string",
                "vmManagerId": "string"
              }
            }
          }
        },
        {
          "subnet": "string",
          "userData": {
            "s3Location": {
              "bucket": "string",
              "key": "string"
            }
          },
          "vpc": "string"
        }
      ]
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

appId (p. 53)

ID of the application associated with the launch configuration.

Type: String

Required: No

[roleName \(p. 53\)](#)

Name of service role in the customer's account that AWS CloudFormation uses to launch the application.

Type: String

Required: No

[serverGroupLaunchConfigurations \(p. 53\)](#)

Launch configurations for server groups in the application.

Type: Array of [ServerGroupLaunchConfiguration \(p. 90\)](#) objects

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 \(p. 103\)](#).

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

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](#)

PutAppReplicationConfiguration

Creates or updates a replication configuration for an application.

Request Syntax

```
{
  "appId": "string",
  "serverGroupReplicationConfigurations": [
    {
      "serverGroupId": "string",
      "serverReplicationConfigurations": [
        {
          "server": {
            "replicationJobId": "string",
            "replicationJobTerminated": boolean,
            "serverId": "string",
            "serverType": "string",
            "vmServer": {
              "vmManagerName": "string",
              "vmManagerType": "string",
              "vmName": "string",
              "vmPath": "string",
              "vmServerAddress": {
                "vmId": "string",
                "vmManagerId": "string"
              }
            }
          }
        },
        {
          "serverReplicationParameters": {
            "encrypted": boolean,
            "frequency": number,
            "kmsKeyId": "string",
            "licenseType": "string",
            "numberOfRecentAmisToKeep": number,
            "runOnce": boolean,
            "seedTime": number
          }
        }
      ]
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 101).

The request accepts the following data in JSON format.

appId (p. 56)

ID of the application associated with the replication configuration.

Type: String

Required: No

serverGroupReplicationConfigurations (p. 56)

Replication configurations for server groups in the application.

Type: Array of [ServerGroupReplicationConfiguration](#) (p. 91) objects

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. 103).

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

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](#)

StartAppReplication

Starts replicating an application by creating replication jobs for each server in the application.

Request Syntax

```
{  
  "appId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

appId (p. 59)

ID of the application to replicate.

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 \(p. 103\)](#).

InternalServerError

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

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 that 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 \(p. 101\)](#).

The request accepts the following data in JSON format.

description (p. 61)

The description of the replication run.

Type: String

Required: No

replicationJobId (p. 61)

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. 61)

The identifier of the replication run.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

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](#)

StopAppReplication

Stops replicating an application by deleting the replication job for each server in the application.

Request Syntax

```
{  
  "appId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

appId (p. 63)

ID of the application to stop replicating.

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 \(p. 103\)](#).

InternalServerError

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

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](#)

TerminateApp

Terminates the stack for an application.

Request Syntax

```
{  
  "appId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

appId (p. 65)

ID of the application to terminate.

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 \(p. 103\)](#).

InternalServerError

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

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](#)

UpdateApp

Updates an application.

Request Syntax

```
{
  "appId": "string",
  "description": "string",
  "name": "string",
  "roleName": "string",
  "serverGroups": [
    {
      "name": "string",
      "serverGroupId": "string",
      "serverList": [
        {
          "replicationJobId": "string",
          "replicationJobTerminated": boolean,
          "serverId": "string",
          "serverType": "string",
          "vmServer": {
            "vmManagerName": "string",
            "vmManagerType": "string",
            "vmName": "string",
            "vmPath": "string",
            "vmServerAddress": {
              "vmId": "string",
              "vmManagerId": "string"
            }
          }
        }
      ]
    }
  ],
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

appId (p. 67)

ID of the application to update.

Type: String

Required: No

description (p. 67)

New description of the application.

Type: String

Required: No

name (p. 67)

New name of the application.

Type: String

Required: No

roleName (p. 67)

Name of the service role in the customer's account used by AWS SMS.

Type: String

Required: No

serverGroups (p. 67)

List of server groups in the application to update.

Type: Array of [ServerGroup \(p. 89\)](#) objects

Required: No

tags (p. 67)

List of tags to associate with the application.

Type: Array of [Tag \(p. 97\)](#) objects

Required: No

Response Syntax

```
{
  "appSummary": {
    "appId": "string",
    "creationTime": number,
    "description": "string",
    "lastModified": number,
    "latestReplicationTime": number,
    "launchDetails": {
      "latestLaunchTime": number,
      "stackId": "string",
      "stackName": "string"
    },
    "launchStatus": "string",
    "launchStatusMessage": "string",
    "name": "string",
    "replicationStatus": "string",
    "replicationStatusMessage": "string",
    "roleName": "string",
    "status": "string",
    "statusMessage": "string",
    "totalServerGroups": number,
    "totalServers": number
  },
  "serverGroups": [
    {
      "name": "string",
```

```
"serverGroupId": "string",
"serverList": [
  {
    "replicationJobId": "string",
    "replicationJobTerminated": boolean,
    "serverId": "string",
    "serverType": "string",
    "vmServer": {
      "vmManagerName": "string",
      "vmManagerType": "string",
      "vmName": "string",
      "vmPath": "string",
      "vmServerAddress": {
        "vmId": "string",
        "vmManagerId": "string"
      }
    }
  }
]
},
"tags": [
  {
    "key": "string",
    "value": "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.

appSummary (p. 68)

Summary description of the application.

Type: [AppSummary \(p. 75\)](#) object

serverGroups (p. 68)

List of updated server groups in the application.

Type: Array of [ServerGroup \(p. 89\)](#) objects

tags (p. 68)

List of tags associated with the application.

Type: Array of [Tag \(p. 97\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

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

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. 101).

The request accepts the following data in JSON format.

description (p. 71)

The description of the replication job.

Type: String

Required: No

encrypted (p. 71)

When true, the replication job produces encrypted AMIs. For more information, `KmsKeyId`.

Type: Boolean

Required: No

frequency (p. 71)

The time between consecutive replication runs, in hours.

Type: Integer

Required: No

kmsKeyId (p. 71)

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

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

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

Type: String

Required: No

licenseType (p. 71)

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. 71)

The start time of the next replication run.

Type: Timestamp

Required: No

numberOfRecentAmisToKeep (p. 71)

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

Type: Integer

Required: No

replicationJobId (p. 71)

The identifier of the replication job.

Type: String

Required: Yes

roleName (p. 71)

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 \(p. 103\)](#).

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:

- [AppSummary](#) (p. 75)
- [Connector](#) (p. 78)
- [LaunchDetails](#) (p. 80)
- [ReplicationJob](#) (p. 81)
- [ReplicationRun](#) (p. 84)
- [ReplicationRunStageDetails](#) (p. 86)
- [S3Location](#) (p. 87)
- [Server](#) (p. 88)
- [ServerGroup](#) (p. 89)
- [ServerGroupLaunchConfiguration](#) (p. 90)
- [ServerGroupReplicationConfiguration](#) (p. 91)
- [ServerLaunchConfiguration](#) (p. 92)
- [ServerReplicationConfiguration](#) (p. 94)
- [ServerReplicationParameters](#) (p. 95)
- [Tag](#) (p. 97)
- [UserData](#) (p. 98)
- [VmServer](#) (p. 99)
- [VmServerAddress](#) (p. 100)

AppSummary

Information about the application.

Contents

appId

Unique ID of the application.

Type: String

Required: No

creationTime

Time of creation of this application.

Type: Timestamp

Required: No

description

Description of the application.

Type: String

Required: No

lastModified

Timestamp of the application's creation.

Type: Timestamp

Required: No

latestReplicationTime

Timestamp of the application's most recent successful replication.

Type: Timestamp

Required: No

launchDetails

Details about the latest launch of the application.

Type: [LaunchDetails \(p. 80\)](#) object

Required: No

launchStatus

Launch status of the application.

Type: String

Valid Values: `READY_FOR_CONFIGURATION` | `CONFIGURATION_IN_PROGRESS` | `CONFIGURATION_INVALID` | `READY_FOR_LAUNCH` | `VALIDATION_IN_PROGRESS` | `LAUNCH_PENDING` | `LAUNCH_IN_PROGRESS` | `LAUNCHED` | `DELTA_LAUNCH_IN_PROGRESS`

| DELTA_LAUNCH_FAILED | LAUNCH_FAILED | TERMINATE_IN_PROGRESS |
TERMINATE_FAILED | TERMINATED

Required: No

launchStatusMessage

A message related to the launch status of the application.

Type: String

Required: No

name

Name of the application.

Type: String

Required: No

replicationStatus

Replication status of the application.

Type: String

Valid Values: READY_FOR_CONFIGURATION | CONFIGURATION_IN_PROGRESS |
CONFIGURATION_INVALID | READY_FOR_REPLICATION | VALIDATION_IN_PROGRESS
| REPLICATION_PENDING | REPLICATION_IN_PROGRESS | REPLICATED |
DELTA_REPLICATION_IN_PROGRESS | DELTA_REPLICATED | DELTA_REPLICATION_FAILED
| REPLICATION_FAILED | REPLICATION_STOPPING | REPLICATION_STOP_FAILED |
REPLICATION_STOPPED

Required: No

replicationStatusMessage

A message related to the replication status of the application.

Type: String

Required: No

roleName

Name of the service role in the customer's account used by AWS SMS.

Type: String

Required: No

status

Status of the application.

Type: String

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

Required: No

statusMessage

A message related to the status of the application

Type: String

Required: No

totalServerGroups

Number of server groups present in the application.

Type: Integer

Required: No

totalServers

Number of servers present in the application.

Type: Integer

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](#)

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](#)

LaunchDetails

Details about the latest launch of an application.

Contents

latestLaunchTime

Latest time that this application was launched successfully.

Type: Timestamp

Required: No

stackId

Identifier of the latest stack launched for this application.

Type: String

Required: No

stackName

Name of the latest stack launched for this application.

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](#)

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. For more information, see `KmsKeyId`.

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. This value can be any of the following:

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

If `encrypted` is `true` but a KMS key ID is not specified, the customer's default KMS key for Amazon 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 \(p. 84\)](#) objects

Required: No

roleName

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

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 \(p. 99\)](#) 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

encrypted

Whether the replication run should produce encrypted AMI. For more information, see `KmsKeyId`.

Type: Boolean

Required: No

kmsKeyId

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

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

If `encrypted` is `true` but a KMS key ID is not specified, the customer's default KMS key for Amazon 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. 86) 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](#)

S3Location

Location of the Amazon S3 object in the customer's account.

Contents

bucket

Amazon S3 bucket name.

Type: String

Required: No

key

Amazon S3 bucket key.

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. 99) 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](#)

ServerGroup

A logical grouping of servers.

Contents

name

Name of a server group.

Type: String

Required: No

serverGroupId

Identifier of a server group.

Type: String

Required: No

serverList

List of servers belonging to a server group.

Type: Array of [Server \(p. 88\)](#) objects

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](#)

ServerGroupLaunchConfiguration

Launch configuration for a server group.

Contents

launchOrder

Launch order of servers in the server group.

Type: Integer

Required: No

serverGroupId

Identifier of the server group with which the launch configuration is associated.

Type: String

Required: No

serverLaunchConfigurations

Launch configuration for servers in the server group.

Type: Array of [ServerLaunchConfiguration \(p. 92\)](#) objects

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](#)

ServerGroupReplicationConfiguration

Replication configuration for a server group.

Contents

serverGroupId

Identifier of the server group with which this replication configuration is associated.

Type: String

Required: No

serverReplicationConfigurations

Replication configuration for servers in the server group.

Type: Array of [ServerReplicationConfiguration \(p. 94\)](#) objects

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](#)

ServerLaunchConfiguration

Launch configuration for a server.

Contents

associatePublicIpAddress

If true, a publicly accessible IP address is created when launching the server.

Type: Boolean

Required: No

ec2KeyName

Name of the Amazon EC2 SSH key to be used for connecting to the launched server.

Type: String

Required: No

instanceType

Instance type to be used for launching the server.

Type: String

Required: No

logicalId

Logical ID of the server in the AWS CloudFormation template.

Type: String

Required: No

securityGroup

Identifier of the security group that applies to the launched server.

Type: String

Required: No

server

Identifier of the server with which the launch configuration is associated.

Type: [Server \(p. 88\)](#) object

Required: No

subnet

Identifier of the subnet the server should be launched into.

Type: String

Required: No

userData

Location of the user-data script to be executed when launching the server.

Type: [UserData \(p. 98\)](#) object

Required: No

vpc

Identifier of the VPC into which the server should be launched.

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](#)

ServerReplicationConfiguration

Replication configuration of a server.

Contents

server

Identifier of the server with which this replication configuration is associated.

Type: [Server \(p. 88\)](#) object

Required: No

serverReplicationParameters

Parameters for replicating the server.

Type: [ServerReplicationParameters \(p. 95\)](#) 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](#)

ServerReplicationParameters

Replication parameters for replicating a server.

Contents

encrypted

When true, the replication job produces encrypted AMIs. For more information, see `KmsKeyId`.

Type: Boolean

Required: No

frequency

Frequency of creating replication jobs for the server.

Type: Integer

Required: No

kmsKeyId

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

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

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

Type: String

Required: No

licenseType

License type for creating a replication job for the server.

Type: String

Valid Values: `AWS` | `BYOL`

Required: No

numberOfRecentAmisToKeep

Number of recent AMIs to keep when creating a replication job for this server.

Type: Integer

Required: No

runOnce

Type: Boolean

Required: No

seedTime

Seed time for creating a replication job for the server.

Type: Timestamp

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](#)

Tag

A label that can be assigned to an application.

Contents

key

Tag key.

Type: String

Required: No

value

Tag value.

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](#)

UserData

A script that runs on first launch of an Amazon EC2 instance. Used for configuring the server during launch.

Contents

s3Location

Amazon S3 location of the user-data script.

Type: [S3Location \(p. 87\)](#) 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. 100) 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