
**AWS Database
Migration Service
API Reference
API Version 2016-01-01**



AWS Database Migration Service: API Reference

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Welcome

AWS Database Migration Service (AWS DMS) can migrate your data to and from the most widely used commercial and open-source databases such as Oracle, PostgreSQL, Microsoft SQL Server, Amazon Redshift, MariaDB, Amazon Aurora, MySQL, and SAP Adaptive Server Enterprise (ASE). The service supports homogeneous migrations such as Oracle to Oracle, as well as heterogeneous migrations between different database platforms, such as Oracle to MySQL or SQL Server to PostgreSQL.

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Actions

The following actions are supported:

- [AddTagsToResource](#) (p. 4)
- [CreateEndpoint](#) (p. 6)
- [CreateReplicationInstance](#) (p. 11)
- [CreateReplicationSubnetGroup](#) (p. 18)
- [CreateReplicationTask](#) (p. 22)
- [DeleteCertificate](#) (p. 27)
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- [DescribeSchemas](#) (p. 78)
- [DescribeTableStatistics](#) (p. 81)
- [ImportCertificate](#) (p. 85)
- [ListTagsForResource](#) (p. 87)
- [ModifyEndpoint](#) (p. 90)
- [ModifyReplicationInstance](#) (p. 95)
- [ModifyReplicationSubnetGroup](#) (p. 101)
- [ModifyReplicationTask](#) (p. 105)
- [RefreshSchemas](#) (p. 108)
- [RemoveTagsFromResource](#) (p. 110)

- [StartReplicationTask](#) (p. 112)
- [StopReplicationTask](#) (p. 116)
- [TestConnection](#) (p. 119)

AddTagsToResource

Adds metadata tags to a DMS resource, including replication instance, endpoint, security group, and migration task. These tags can also be used with cost allocation reporting to track cost associated with DMS resources, or used in a Condition statement in an IAM policy for DMS.

Request Syntax

```
{
  "ResourceArn": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 147\)](#).

The request accepts the following data in JSON format.

ResourceArn (p. 4)

The Amazon Resource Name (ARN) of the AWS DMS resource the tag is to be added to. AWS DMS resources include a replication instance, endpoint, and a replication task.

Type: String

Required: Yes

Tags (p. 4)

The tag to be assigned to the DMS resource.

Type: array of [Tag \(p. 145\)](#) objects

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 \(p. 149\)](#).

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>,
SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-
amzn-requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.AddTagsToResource
{
  "ResourceArn": "arn:aws:dms:us-east-
    1:152683116123:rep:PWEBBEUNOLU7VEB2OHTEH4I4GQ",
  "Tags": [
    {
      "Key": "CostCenter",
      "Value": "1234"
    }
  ]
}
```

Sample Response

```
Empty
```

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 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](#)

CreateEndpoint

Creates an endpoint using the provided settings.

Request Syntax

```
{
  "CertificateArn": "string",
  "DatabaseName": "string",
  "EndpointIdentifier": "string",
  "EndpointType": "string",
  "EngineName": "string",
  "ExtraConnectionAttributes": "string",
  "KmsKeyId": "string",
  "Password": "string",
  "Port": number,
  "ServerName": "string",
  "SslMode": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "Username": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

CertificateArn (p. 6)

The Amazon Resource Number (ARN) for the certificate.

Type: String

Required: No

DatabaseName (p. 6)

The name of the endpoint database.

Type: String

Required: No

EndpointIdentifier (p. 6)

The database endpoint identifier. Identifiers must begin with a letter; must contain only ASCII letters, digits, and hyphens; and must not end with a hyphen or contain two consecutive hyphens.

Type: String

Required: Yes

EndpointType (p. 6)

The type of endpoint.

Type: String

Valid Values: source | target

Required: Yes

EngineName (p. 6)

The type of engine for the endpoint. Valid values include MYSQL, ORACLE, POSTGRES, MARIADB, AURORA, REDSHIFT, SYBASE, and SQLSERVER.

Type: String

Required: Yes

ExtraConnectionAttributes (p. 6)

Additional attributes associated with the connection.

Type: String

Required: No

KmsKeyId (p. 6)

The KMS key identifier that will be used to encrypt the connection parameters. If you do not specify a value for the KmsKeyId parameter, then AWS DMS will use your default encryption key. AWS KMS creates the default encryption key for your AWS account. Your AWS account has a different default encryption key for each AWS region.

Type: String

Required: No

Password (p. 6)

The password to be used to login to the endpoint database.

Type: String

Required: No

Port (p. 6)

The port used by the endpoint database.

Type: Integer

Required: No

ServerName (p. 6)

The name of the server where the endpoint database resides.

Type: String

Required: No

SslMode (p. 6)

The SSL mode to use for the SSL connection.

SSL mode can be one of four values: none, require, verify-ca, verify-full.

The default value is none.

Type: String

Valid Values: none | require | verify-ca | verify-full

Required: No

Tags (p. 6)

Tags to be added to the endpoint.

Type: array of [Tag \(p. 145\)](#) objects

Required: No

Username (p. 6)

The user name to be used to login to the endpoint database.

Type: String

Required: No

Response Syntax

```
{
  "Endpoint": {
    "CertificateArn": "string",
```

```
"DatabaseName": "string",  
"EndpointArn": "string",  
"EndpointIdentifier": "string",  
"EndpointType": "string",  
"EngineName": "string",  
"ExtraConnectionAttributes": "string",  
"KmsKeyId": "string",  
"Port": number,  
"ServerName": "string",  
"SslMode": "string",  
"Status": "string",  
"Username": "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.

Endpoint (p. 7)

The endpoint that was created.

Type: [Endpoint \(p. 128\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

AccessDeniedFault

AWS DMS was denied access to the endpoint.

HTTP Status Code: 400

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.

HTTP Status Code: 400

KMSKeyNotAccessibleFault

AWS DMS cannot access the KMS key.

HTTP Status Code: 400

ResourceAlreadyExistsFault

The resource you are attempting to create already exists.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

ResourceQuotaExceededFault

The quota for this resource quota has been exceeded.

HTTP Status Code: 400

Example

Sample Request


```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>,
SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-
amzn-requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.CreateEndpoint
{
  "EndpointIdentifier": "test-endpoint-1",
    "  EndpointType": "source",
    "  EngineName": "mysql",
  "Username": "username",
  "Password": "password",
  "ServerName": "test-source.cxln7iyxxllo.us-west-2.rds.amazonaws.com",
    "  Port": 3306,
  "DatabaseName": "",
  "ExtraConnectionAttributes": "",
  "KmsKeyId": "",
  "Tags": [
    {
      "Key": "",
      "Value": ""
    }
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "Endpoint": {
    "Username": "username",
    "Status": "active",
    "EndpointArn": "arn:aws:dms:us-east-
1:152683116123:endpoint:RAAR3R22XSH46S3PWLC3NJAWKM",
    "ServerName": "test-source.cxln7iyxxllo.us-west-2.rds.amazonaws.com",
    "EndpointType": "SOURCE",
    "KmsKeyId": "arn:aws:kms:us-east-1:152683116123:key/4dc17316-5543-
4ded-ble3-d53a7cfb411d",
    "EngineName": "mysql",
    "EndpointIdentifier": "test-endpoint-1",
    "Port": 3306
  }
}
```

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 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](#)

CreateReplicationInstance

Creates the replication instance using the specified parameters.

Request Syntax

```
{
  "AllocatedStorage": number,
  "AutoMinorVersionUpgrade": boolean,
  "AvailabilityZone": "string",
  "EngineVersion": "string",
  "KmsKeyId": "string",
  "MultiAZ": boolean,
  "PreferredMaintenanceWindow": "string",
  "PubliclyAccessible": boolean,
  "ReplicationInstanceClass": "string",
  "ReplicationInstanceIdentifier": "string",
  "ReplicationSubnetGroupIdentifier": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "VpcSecurityGroupIds": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

AllocatedStorage (p. 11)

The amount of storage (in gigabytes) to be initially allocated for the replication instance.

Type: Integer

Required: No

AutoMinorVersionUpgrade (p. 11)

Indicates that minor engine upgrades will be applied automatically to the replication instance during the maintenance window.

Default: true

Type: Boolean

Required: No

AvailabilityZone (p. 11)

The EC2 Availability Zone that the replication instance will be created in.

Default: A random, system-chosen Availability Zone in the endpoint's region.

Example: us-east-1d

Type: String

Required: No

EngineVersion (p. 11)

The engine version number of the replication instance.

Type: String

Required: No

KmsKeyId (p. 11)

The KMS key identifier that will be used to encrypt the content on the replication instance. If you do not specify a value for the `KmsKeyId` parameter, then AWS DMS will use your default encryption key. AWS KMS creates the default encryption key for your AWS account. Your AWS account has a different default encryption key for each AWS region.

Type: String

Required: No

MultiAZ (p. 11)

Specifies if the replication instance is a Multi-AZ deployment. You cannot set the `AvailabilityZone` parameter if the Multi-AZ parameter is set to `true`.

Type: Boolean

Required: No

PreferredMaintenanceWindow (p. 11)

The weekly time range during which system maintenance can occur, in Universal Coordinated Time (UTC).

Format: `ddd:hh24:mi-ddd:hh24:mi`

Default: A 30-minute window selected at random from an 8-hour block of time per region, occurring on a random day of the week.

Valid Days: Mon, Tue, Wed, Thu, Fri, Sat, Sun

Constraints: Minimum 30-minute window.

Type: String

Required: No

PubliclyAccessible (p. 11)

Specifies the accessibility options for the replication instance. A value of `true` represents an instance with a public IP address. A value of `false` represents an instance with a private IP address. The default value is `true`.

Type: Boolean

Required: No

ReplicationInstanceClass (p. 11)

The compute and memory capacity of the replication instance as specified by the replication instance class.

Valid Values: `dms.t2.micro` | `dms.t2.small` | `dms.t2.medium` | `dms.t2.large` | `dms.c4.large` | `dms.c4.xlarge` | `dms.c4.2xlarge` | `dms.c4.4xlarge`

Type: String

Required: Yes

ReplicationInstanceIdentifier (p. 11)

The replication instance identifier. This parameter is stored as a lowercase string.

Constraints:

- Must contain from 1 to 63 alphanumeric characters or hyphens.
- First character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

Example: `myrepinstance`

Type: String

Required: Yes

ReplicationSubnetGroupIdentifier (p. 11)

A subnet group to associate with the replication instance.

Type: String

Required: No

Tags (p. 11)

Tags to be associated with the replication instance.

Type: array of [Tag \(p. 145\)](#) objects

Required: No

VpcSecurityGroupIds (p. 11)

Specifies the VPC security group to be used with the replication instance. The VPC security group must work with the VPC containing the replication instance.

Type: array of Strings

Required: No

Response Syntax

```
{
  "ReplicationInstance": {
    "AllocatedStorage": number,
    "AutoMinorVersionUpgrade": boolean,
    "AvailabilityZone": "string",
    "EngineVersion": "string",
    "InstanceCreateTime": number,
    "KmsKeyId": "string",
    "MultiAZ": boolean,
    "PendingModifiedValues": {
      "AllocatedStorage": number,
      "EngineVersion": "string",
      "MultiAZ": boolean,
      "ReplicationInstanceClass": "string"
    },
    "PreferredMaintenanceWindow": "string",
    "PubliclyAccessible": boolean,
    "ReplicationInstanceArn": "string",
    "ReplicationInstanceClass": "string",
    "ReplicationInstanceIdentifier": "string",
    "ReplicationInstancePrivateIpAddress": "string",
    "ReplicationInstancePrivateIpAddresses": [ "string" ],
    "ReplicationInstancePublicIpAddress": "string",
    "ReplicationInstancePublicIpAddresses": [ "string" ],
    "ReplicationInstanceStatus": "string",
    "ReplicationSubnetGroup": {
      "ReplicationSubnetGroupDescription": "string",
      "ReplicationSubnetGroupIdentifier": "string",
      "SubnetGroupStatus": "string",
      "Subnets": [
        {
          "SubnetAvailabilityZone": {
            "Name": "string"
          },
          "SubnetIdentifier": "string",
          "SubnetStatus": "string"
        }
      ],
      "VpcId": "string"
    },
    "SecondaryAvailabilityZone": "string",
    "VpcSecurityGroups": [
      {
        "Status": "string",
```

```
    "VpcSecurityGroupId": "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.

ReplicationInstance (p. 13)

The replication instance that was created.
Type: [ReplicationInstance \(p. 133\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

AccessDeniedFault

AWS DMS was denied access to the endpoint.
HTTP Status Code: 400

InsufficientResourceCapacityFault

There are not enough resources allocated to the database migration.
HTTP Status Code: 400

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.
HTTP Status Code: 400

InvalidSubnet

The subnet provided is invalid.
HTTP Status Code: 400

KMSKeyNotAccessibleFault

AWS DMS cannot access the KMS key.
HTTP Status Code: 400

ReplicationSubnetGroupDoesNotCoverEnoughAZs

The replication subnet group does not cover enough Availability Zones (AZs). Edit the replication subnet group and add more AZs.
HTTP Status Code: 400

ResourceAlreadyExistsFault

The resource you are attempting to create already exists.
HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.
HTTP Status Code: 400

ResourceQuotaExceededFault

The quota for this resource quota has been exceeded.
HTTP Status Code: 400

StorageQuotaExceededFault

The storage quota has been exceeded.
HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>,
  SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-
  amzn-requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.CreateReplicationInstance
{
  "ReplicationInstanceIdentifier":"test-rep-1",
  "AllocatedStorage":5,
  "ReplicationInstanceClass":"dms.t2.micro",
  "AvailabilityZone":"","",
  "ReplicationSubnetGroupIdentifier":"default",
  "PreferredMaintenanceWindow":"","",
  "EngineVersion":"1.5.0",
  "AutoMinorVersionUpgrade":true,
  "Tags":[
    {
      "Key":"","",
      "Value":""
    }
  ],
  "KmsKeyId":"","",
  "PubliclyAccessible":true
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationInstance":{
    "PubliclyAccessible":true,
    "ReplicationInstanceArn":"arn:aws:dms:us-east-
1:152683116123:rep:PWEBBEUNOLU7VEB2OHEH4I4GQ",
    "ReplicationInstanceClass":"dms.t2.micro",
    "ReplicationSubnetGroup":{
      "ReplicationSubnetGroupDescription":"default",
      "Subnets":[
        {
          "SubnetStatus":"Active",
```

```
        "SubnetIdentifier": "subnet-f6dd91af",
        "SubnetAvailabilityZone": {
            "Name": "us-east-1d"
        }
    },
    {
        "SubnetStatus": "Active",
        "SubnetIdentifier": "subnet-3605751d",
        "SubnetAvailabilityZone": {
            "Name": "us-east-1b"
        }
    },
    {
        "SubnetStatus": "Active",
        "SubnetIdentifier": "subnet-c2daefb5",
        "SubnetAvailabilityZone": {
            "Name": "us-east-1c"
        }
    },
    {
        "SubnetStatus": "Active",
        "SubnetIdentifier": "subnet-85e90cb8",
        "SubnetAvailabilityZone": {
            "Name": "us-east-1e"
        }
    }
],
"VpcId": "vpc-6741a603",
"SubnetGroupStatus": "Complete",
"ReplicationSubnetGroupIdentifier": "default"
},
"AutoMinorVersionUpgrade": true,
"ReplicationInstanceStatus": "creating",
"KmsKeyId": "arn:aws:kms:us-east-1:152683116123:key/4dc17316-5543-4ded-b1e3-d53a7cfb411d",
"AllocatedStorage": 5,
"EngineVersion": "1.5.0",
"ReplicationInstanceIdentifier": "test-rep-1",
"PreferredMaintenanceWindow": "sun:06:00-sun:14:00",
"PendingModifiedValues": {
}
}
}
```

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 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](#)

CreateReplicationSubnetGroup

Creates a replication subnet group given a list of the subnet IDs in a VPC.

Request Syntax

```
{
  "ReplicationSubnetGroupDescription": "string",
  "ReplicationSubnetGroupIdentifier": "string",
  "SubnetIds": [ "string" ],
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

ReplicationSubnetGroupDescription (p. 18)

The description for the subnet group.

Type: String

Required: Yes

ReplicationSubnetGroupIdentifier (p. 18)

The name for the replication subnet group. This value is stored as a lowercase string.

Constraints: Must contain no more than 255 alphanumeric characters, periods, spaces, underscores, or hyphens. Must not be "default".

Example: mySubnetgroup

Type: String

Required: Yes

SubnetIds (p. 18)

The EC2 subnet IDs for the subnet group.

Type: array of Strings

Required: Yes

Tags (p. 18)

The tag to be assigned to the subnet group.

Type: array of [Tag](#) (p. 145) objects

Required: No

Response Syntax

```
{
  "ReplicationSubnetGroup": {
    "ReplicationSubnetGroupDescription": "string",
    "ReplicationSubnetGroupIdentifier": "string",
    "SubnetGroupStatus": "string",
  }
}
```

```
    "Subnets": [
      {
        "SubnetAvailabilityZone": {
          "Name": "string"
        },
        "SubnetIdentifier": "string",
        "SubnetStatus": "string"
      }
    ],
    "VpcId": "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.

ReplicationSubnetGroup (p. 18)

The replication subnet group that was created.
Type: [ReplicationSubnetGroup \(p. 137\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

AccessDeniedFault

AWS DMS was denied access to the endpoint.
HTTP Status Code: 400

InvalidSubnet

The subnet provided is invalid.
HTTP Status Code: 400

ReplicationSubnetGroupDoesNotCoverEnoughAZs

The replication subnet group does not cover enough Availability Zones (AZs). Edit the replication subnet group and add more AZs.
HTTP Status Code: 400

ResourceAlreadyExistsFault

The resource you are attempting to create already exists.
HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.
HTTP Status Code: 400

ResourceQuotaExceededFault

The quota for this resource quota has been exceeded.
HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>,
  SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-
  amzn-requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.CreateReplicationSubnetGroup
{
  "ReplicationSubnetGroupIdentifier":"test-subnet-group",
  "ReplicationSubnetGroupDescription":"dms testing",
  "SubnetIds":[
    "subnet-f6dd91af",
    "subnet-3605751d",
    "subnet-c2daefb5"
  ],
  "Tags":[
    {
      "Key": "",
      "Value": ""
    }
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationSubnetGroup":{
    "ReplicationSubnetGroupDescription":"dms testing",
    "Subnets":[
      {
        "SubnetStatus":"Active",
        "SubnetIdentifier":"subnet-f6dd91af",
        "SubnetAvailabilityZone":{
          "Name":"us-east-1d"
        }
      },
      {
        "SubnetStatus":"Active",
        "SubnetIdentifier":"subnet-3605751d",
        "SubnetAvailabilityZone":{
          "Name":"us-east-1b"
        }
      },
      {
        "SubnetStatus":"Active",
        "SubnetIdentifier":"subnet-c2daefb5",
```

```
        "SubnetAvailabilityZone": {  
            "Name": "us-east-1c"  
        }  
    },  
    "VpcId": "vpc-6741a603",  
    "SubnetGroupStatus": "Complete",  
    "ReplicationSubnetGroupIdentifier": "test-subnet-group"  
}
```

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 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](#)

CreateReplicationTask

Creates a replication task using the specified parameters.

Request Syntax

```
{
  "CdcStartTime": number,
  "MigrationType": "string",
  "ReplicationInstanceArn": "string",
  "ReplicationTaskIdentifier": "string",
  "ReplicationTaskSettings": "string",
  "SourceEndpointArn": "string",
  "TableMappings": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "TargetEndpointArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 147\)](#).

The request accepts the following data in JSON format.

CdcStartTime (p. 22)

The start time for the Change Data Capture (CDC) operation.

Type: Timestamp

Required: No

MigrationType (p. 22)

The migration type.

Type: String

Valid Values: full-load | cdc | full-load-and-cdc

Required: Yes

ReplicationInstanceArn (p. 22)

The Amazon Resource Name (ARN) of the replication instance.

Type: String

Required: Yes

ReplicationTaskIdentifier (p. 22)

The replication task identifier.

Constraints:

- Must contain from 1 to 63 alphanumeric characters or hyphens.
- First character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

Type: String

Required: Yes

ReplicationTaskSettings (p. 22)

Settings for the task, such as target metadata settings. For a complete list of task settings, see [Task Settings for AWS Database Migration Service Tasks](#).

Type: String

Required: No

SourceEndpointArn (p. 22)

The Amazon Resource Name (ARN) string that uniquely identifies the endpoint.

Type: String

Required: Yes

TableMappings (p. 22)

The path of the JSON file that contains the table mappings. Precede the path with "file://".

For example, --table-mappings file://mappingfile.json

Type: String

Required: Yes

Tags (p. 22)

Tags to be added to the replication instance.

Type: array of [Tag \(p. 145\)](#) objects

Required: No

TargetEndpointArn (p. 22)

The Amazon Resource Name (ARN) string that uniquely identifies the endpoint.

Type: String

Required: Yes

Response Syntax

```
{
  "ReplicationTask": {
    "LastFailureMessage": "string",
    "MigrationType": "string",
    "ReplicationInstanceArn": "string",
    "ReplicationTaskArn": "string",
    "ReplicationTaskCreationDate": number,
    "ReplicationTaskIdentifier": "string",
    "ReplicationTaskSettings": "string",
    "ReplicationTaskStartDate": number,
    "ReplicationTaskStats": {
      "ElapsedTimeMillis": number,
      "FullLoadProgressPercent": number,
      "TablesErrored": number,
      "TablesLoaded": number,
      "TablesLoading": number,
      "TablesQueued": number
    },
    "SourceEndpointArn": "string",
    "Status": "string",
    "StopReason": "string",
    "TableMappings": "string",
    "TargetEndpointArn": "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.

ReplicationTask (p. 23)

The replication task that was created.
Type: [ReplicationTask \(p. 138\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.
HTTP Status Code: 400

KMSKeyNotAccessibleFault

AWS DMS cannot access the KMS key.
HTTP Status Code: 400

ResourceAlreadyExistsFault

The resource you are attempting to create already exists.
HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.
HTTP Status Code: 400

ResourceQuotaExceededFault

The quota for this resource quota has been exceeded.
HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>,
 SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-
 amzn-requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.CreateReplicationTask
{
  "ReplicationTaskIdentifier":"task1",
  "SourceEndpointArn": "arn:aws:dms:us-east-1:
    152683116123:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
  "TargetEndpointArn": "arn:aws:dms:us-east-1:
    152683116123:endpoint:GVBUEJQXJZASXWHTWCLN2WNT57E",
  "ReplicationInstanceArn": "arn:aws:dms:us-east-1:
```



```

    152683116123:rep:6USOU366XFJWATDJGBCJS3VIQ",
    "MigrationType":"full-load",
    "TableMappings":"file:///home/apurvap/table-mappings.json",
    "ReplicationTaskSettings":"","",
    "CdcStartTime":null,
    "Tags":[
      {
        "Key":"","",
        "Value":""
      }
    ]
  }
}

```

Sample Response

```

HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationTask":{
    "SourceEndpointArn":"arn:aws:dms:us-
east-1:152683116123:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
    "ReplicationTaskIdentifier":"task1",
    "ReplicationInstanceArn":"arn:aws:dms:us-
east-1:152683116123:rep:6USOU366XFJWATDJGBCJS3VIQ",
    "TableMappings":{"\n \"TableMappings\": [
      \n {\n \"Type\": \"Include\", \n \"SourceSchema\": \"/\", \n
\"SourceTable\": \"/\", \n
      } \n ] \n } \n",
    "Status":"creating",
    "ReplicationTaskArn":"arn:aws:dms:us-
east-1:152683116123:task:OEAMB3NXSTZ6LFYZFEPBBXPYM",
    "ReplicationTaskCreationDate":1457658407.492,
    "MigrationType":"full-load",
    "TargetEndpointArn":"arn:aws:dms:us-
east-1:152683116123:endpoint:GVBUJQXJZASXWHTWCLN2WNT57E",
    "ReplicationTaskSettings":{"\"TargetMetadata\":
      {\n \"TargetSchema\": \"\", \n \"SupportLobs\": true, \n \"FullLobMode\":
true, \n \"LobChunkSize\": 64, \n \"LimitedSizeLobMode\":
false, \n \"LobMaxSize\": 0}, \n \"FullLoadSettings\": {
        \n \"FullLoadEnabled\": true,
        \n \"ApplyChangesEnabled\": false,
        \n \"TargetTablePrepMode\": \"DROP_AND_CREATE\",
        \n \"CreatePkAfterFullLoad\": false,
        \n \"StopTaskCachedChangesApplied\": false,
        \n \"StopTaskCachedChangesNotApplied\": false,
        \n \"ResumeEnabled\": false,
        \n \"ResumeMinTableSize\": 100000,
        \n \"ResumeOnlyClusteredPKTables\": true,
        \n \"MaxFullLoadSubTasks\": 8,
        \n \"TransactionConsistencyTimeout\": 600,
        \n \"CommitRate\": 10000
      }
    },
    \"Logging\": {

```

```
    \ "EnableLogging\ ": false  
  }  
}"  
}
```

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 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](#)

DeleteCertificate

Deletes the specified certificate.

Request Syntax

```
{  
  "CertificateArn": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 147\)](#).

The request accepts the following data in JSON format.

CertificateArn (p. 27)

The Amazon Resource Name (ARN) of the deleted certificate.

Type: String

Required: Yes

Response Syntax

```
{  
  "Certificate": {  
    "CertificateArn": "string",  
    "CertificateCreationDate": number,  
    "CertificateIdentifier": "string",  
    "CertificateOwner": "string",  
    "CertificatePem": "string",  
    "CertificateWallet": blob,  
    "KeyLength": number,  
    "SigningAlgorithm": "string",  
    "ValidFromDate": number,  
    "ValidToDate": 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.

Certificate (p. 27)

The Secure Sockets Layer (SSL) certificate.

Type: [Certificate \(p. 125\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

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 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](#)

DeleteEndpoint

Deletes the specified endpoint.

Note

All tasks associated with the endpoint must be deleted before you can delete the endpoint.

Request Syntax

```
{
  "EndpointArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

EndpointArn (p. 29)

The Amazon Resource Name (ARN) string that uniquely identifies the endpoint.

Type: String

Required: Yes

Response Syntax

```
{
  "Endpoint": {
    "CertificateArn": "string",
    "DatabaseName": "string",
    "EndpointArn": "string",
    "EndpointIdentifier": "string",
    "EndpointType": "string",
    "EngineName": "string",
    "ExtraConnectionAttributes": "string",
    "KmsKeyId": "string",
    "Port": number,
    "ServerName": "string",
    "SslMode": "string",
    "Status": "string",
    "Username": "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.

Endpoint (p. 29)

The endpoint that was deleted.

Type: [Endpoint](#) (p. 128) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>,
  SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-
  amzn-requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.DeleteEndpoint
{
  "EndpointArn": "arn:aws:dms:us-east-
1:152683116123:endpoint:RAAR3R22XSH46S3PWLC3NJAWKM"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "Endpoint": {
    "Username": "username",
    "Status": "deleting",
    "EndpointArn": "arn:aws:dms:us-east-
1:152683116123:endpoint:RAAR3R22XSH46S3PWLC3NJAWKM",
    "ServerName": "apurvap-source.cxln7iyxxllo.us-west-
2.rds.amazonaws.com",
    "EndpointType": "TARGET",
    "KmsKeyId": "arn:aws:kms:us-east-1:152683116123:key/4dc17316-5543-
4ded-b1e3-d53a7cfb411d",
    "ExtraConnectionAttributes": "parallelLoadThreads=1",
    "EngineName": "mysql",
```

```
    "EndpointIdentifier": "test-endpoint-1",  
    "Port": 3306  
  }  
}
```

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 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](#)

DeleteReplicationInstance

Deletes the specified replication instance.

Note

You must delete any migration tasks that are associated with the replication instance before you can delete it.

Request Syntax

```
{  
  "ReplicationInstanceArn": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

ReplicationInstanceArn (p. 32)

The Amazon Resource Name (ARN) of the replication instance to be deleted.

Type: String

Required: Yes

Response Syntax

```
{  
  "ReplicationInstance": {  
    "AllocatedStorage": number,  
    "AutoMinorVersionUpgrade": boolean,  
    "AvailabilityZone": "string",  
    "EngineVersion": "string",  
    "InstanceCreateTime": number,  
    "KmsKeyId": "string",  
    "MultiAZ": boolean,  
    "PendingModifiedValues": {  
      "AllocatedStorage": number,  
      "EngineVersion": "string",  
      "MultiAZ": boolean,  
      "ReplicationInstanceClass": "string"  
    },  
    "PreferredMaintenanceWindow": "string",  
    "PubliclyAccessible": boolean,  
    "ReplicationInstanceArn": "string",  
    "ReplicationInstanceClass": "string",  
    "ReplicationInstanceIdentifier": "string",  
    "ReplicationInstancePrivateIpAddress": "string",  
    "ReplicationInstancePrivateIpAddresses": [ "string" ],  
    "ReplicationInstancePublicIpAddress": "string",  
    "ReplicationInstancePublicIpAddresses": [ "string" ],  
    "ReplicationInstanceStatus": "string",  
    "ReplicationSubnetGroup": {  
      "ReplicationSubnetGroupDescription": "string",
```



```

    "ReplicationSubnetGroupIdentifier": "string",
    "SubnetGroupStatus": "string",
    "Subnets": [
      {
        "SubnetAvailabilityZone": {
          "Name": "string"
        },
        "SubnetIdentifier": "string",
        "SubnetStatus": "string"
      }
    ],
    "VpcId": "string"
  },
  "SecondaryAvailabilityZone": "string",
  "VpcSecurityGroups": [
    {
      "Status": "string",
      "VpcSecurityGroupId": "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.

ReplicationInstance (p. 32)

The replication instance that was deleted.
Type: [ReplicationInstance \(p. 133\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.
HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.
HTTP Status Code: 400

Example

Sample Request

```

POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>,
  SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-
  amzn-requestid,Signature=<Signature>

```

```
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.DeleteReplicationInstance
{
  "ReplicationInstanceArn": "arn:aws:dms:us-east-1:152683116123:rep:PWEBBEUNOLU7VEB2OHEH4I4GQ"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationInstance": {
    "AvailabilityZone": "us-east-1c",
    "ReplicationInstancePrivateIpAddress": "172.31.15.23",
    "ReplicationInstanceArn": "arn:aws:dms:us-east-1:152683116123:rep:PWEBBEUNOLU7VEB2OHEH4I4GQ",
    "ReplicationInstanceClass": "dms.t2.small",
    "ReplicationSubnetGroup": {
      "ReplicationSubnetGroupDescription": "default",
      "Subnets": [
        {
          "SubnetStatus": "Active",
          "SubnetIdentifier": "subnet-f6dd91af",
          "SubnetAvailabilityZone": {
            "Name": "us-east-1d"
          }
        },
        {
          "SubnetStatus": "Active",
          "SubnetIdentifier": "subnet-3605751d",
          "SubnetAvailabilityZone": {
            "Name": "us-east-1b"
          }
        },
        {
          "SubnetStatus": "Active",
          "SubnetIdentifier": "subnet-c2daefb5",
          "SubnetAvailabilityZone": {
            "Name": "us-east-1c"
          }
        },
        {
          "SubnetStatus": "Active",
          "SubnetIdentifier": "subnet-85e90cb8",
          "SubnetAvailabilityZone": {
            "Name": "us-east-1e"
          }
        }
      ]
    }
  },
}
```

```
    "VpcId": "vpc-6741a603",
    "SubnetGroupStatus": "Complete",
    "ReplicationSubnetGroupIdentifier": "default"
  },
  "AutoMinorVersionUpgrade": true,
  "ReplicationInstanceStatus": "deleting",
  "KmsKeyId": "arn:aws:kms:us-east-1:152683116123:key/4dc17316-5543-4ded-b1e3-d53a7cfb411d",
  "InstanceCreateTime": 1457645140.38,
  "ReplicationInstancePublicIpAddress": "52.87.94.254",
  "AllocatedStorage": 5,
  "EngineVersion": "1.5.0",
  "ReplicationInstanceIdentifier": "test-rep-1",
  "PubliclyAccessible": true,
  "PreferredMaintenanceWindow": "sun:06:00-sun:14:00",
  "PendingModifiedValues": {
  }
}
```

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 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](#)

DeleteReplicationSubnetGroup

Deletes a subnet group.

Request Syntax

```
{  
  "ReplicationSubnetGroupIdentifier": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

ReplicationSubnetGroupIdentifier (p. 36)

The subnet group name of the replication instance.

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. 149).

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1  
Host: dms.<region>.<domain>  
x-amz-Date: <Date>  
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>,  
  SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-  
amzn-requestid,Signature=<Signature>  
User-Agent: <UserAgentString>  
Content-Type: application/x-amz-json-1.1  
Content-Length: <PayloadSizeBytes>  
Connection: Keep-Alive
```

```
X-Amz-Target: AmazonDMSv20160101.DeleteReplicationSubnetGroup
{
  "ReplicationSubnetGroupIdentifier": "test-subnet-group"
}
```

Sample Response

```
Empty
```

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 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](#)

DeleteReplicationTask

Deletes the specified replication task.

Request Syntax

```
{  
  "ReplicationTaskArn": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

ReplicationTaskArn (p. 38)

The Amazon Resource Name (ARN) of the replication task to be deleted.

Type: String

Required: Yes

Response Syntax

```
{  
  "ReplicationTask": {  
    "LastFailureMessage": "string",  
    "MigrationType": "string",  
    "ReplicationInstanceArn": "string",  
    "ReplicationTaskArn": "string",  
    "ReplicationTaskCreationDate": number,  
    "ReplicationTaskIdentifier": "string",  
    "ReplicationTaskSettings": "string",  
    "ReplicationTaskStartDate": number,  
    "ReplicationTaskStats": {  
      "ElapsedTimeMillis": number,  
      "FullLoadProgressPercent": number,  
      "TablesErrored": number,  
      "TablesLoaded": number,  
      "TablesLoading": number,  
      "TablesQueued": number  
    },  
    "SourceEndpointArn": "string",  
    "Status": "string",  
    "StopReason": "string",  
    "TableMappings": "string",  
    "TargetEndpointArn": "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.

ReplicationTask (p. 38)

The deleted replication task.

Type: [ReplicationTask \(p. 138\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

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 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](#)

DescribeAccountAttributes

Lists all of the AWS DMS attributes for a customer account. The attributes include AWS DMS quotas for the account, such as the number of replication instances allowed. The description for a quota includes the quota name, current usage toward that quota, and the quota's maximum value.

This command does not take any parameters.

Response Syntax

```
{
  "AccountQuotas": [
    {
      "AccountQuotaName": "string",
      "Max": number,
      "Used": 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.

AccountQuotas (p. 40)

Account quota information.

Type: array of [AccountQuota \(p. 123\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256
Credential=<Credential>,
SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.DescribeAccountAttributes
```


Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "AccountQuotas": [
    {
      "Max": 20,
      "AccountQuotaName": "ReplicationInstances",
      "Used": 12
    },
    {
      "Max": 10000,
      "AccountQuotaName": "AllocatedStorage",
      "Used": 6339
    },
    {
      "Max": 20,
      "AccountQuotaName": "ReplicationSubnetGroups",
      "Used": 5
    },
    {
      "Max": 20,
      "AccountQuotaName": "SubnetsPerReplicationSubnetGroup",
      "Used": 4
    },
    {
      "Max": 100,
      "AccountQuotaName": "Endpoints",
      "Used": 10
    },
    {
      "Max": 200,
      "AccountQuotaName": "ReplicationTasks",
      "Used": 2
    },
    {
      "Max": 20,
      "AccountQuotaName": "EndpointsPerInstance",
      "Used": 8
    }
  ]
}
```

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 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](#)

DescribeCertificates

Provides a description of the certificate.

Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "Marker": "string",
  "MaxRecords": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 147\)](#).

The request accepts the following data in JSON format.

Filters (p. 43)

Filters applied to the certificate described in the form of key-value pairs.

Type: array of [Filter \(p. 130\)](#) objects

Required: No

Marker (p. 43)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

MaxRecords (p. 43)

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token called a marker is included in the response so that the remaining results can be retrieved.

Default: 10

Type: Integer

Required: No

Response Syntax

```
{
  "Certificates": [
    {
      "CertificateArn": "string",
      "CertificateCreationDate": number,
      "CertificateIdentifier": "string",
      "CertificateOwner": "string",
      "CertificatePem": "string",
      "CertificateWallet": blob,
      "KeyLength": number,
    }
  ]
}
```

```
    "SigningAlgorithm": "string",  
    "ValidFromDate": number,  
    "ValidToDate": number  
  },  
  ],  
  "Marker": "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.

Certificates (p. 43)

The Secure Sockets Layer (SSL) certificates associated with the replication instance.

Type: array of [Certificate \(p. 125\)](#) objects

Marker (p. 43)

The pagination token.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

ResourceNotFoundFault

The resource could not be found.

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 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](#)

DescribeConnections

Describes the status of the connections that have been made between the replication instance and an endpoint. Connections are created when you test an endpoint.

Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "Marker": "string",
  "MaxRecords": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 147\)](#).

The request accepts the following data in JSON format.

Filters (p. 45)

The filters applied to the connection.

Valid filter names: endpoint-arn | replication-instance-arn

Type: array of [Filter \(p. 130\)](#) objects

Required: No

Marker (p. 45)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

MaxRecords (p. 45)

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token called a marker is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

Response Syntax

```
{
  "Connections": [
    {
      "EndpointArn": "string",
      "EndpointIdentifier": "string",
      "LastFailureMessage": "string",
    }
  ]
}
```

```
    "ReplicationInstanceArn": "string",  
    "ReplicationInstanceIdentifier": "string",  
    "Status": "string"  
  }  
],  
"Marker": "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.

Connections (p. 45)

A description of the connections.
Type: array of [Connection \(p. 127\)](#) objects

Marker (p. 45)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.
Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

ResourceNotFoundFault

The resource could not be found.
HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1  
Host: dms.<region>.<domain>  
x-amz-Date: <Date>  
Authorization: AWS4-HMAC-SHA256  
Credential=<Credential>,  
SignedHeaders=contenttype;date;host;user-  
agent;x-amz-date;x-amz-target;x-amzn-  
requestid,Signature=<Signature>  
User-Agent: <UserAgentString>  
Content-Type: application/x-amz-json-1.1  
Content-Length: <PayloadSizeBytes>  
Connection: Keep-Alive  
X-Amz-Target: AmazonDMSv20160101.DescribeConnections  
{  
  "Filters": [  
    {  
      "Name": "endpoint-arn",  
      "Values": [  
        "arn:aws:dms:us-east-
```

```
1:152683116123:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE"
    ]
  }
],
"MaxRecords":0,
"Marker":""
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "Connections":[
    {
      "Status":"successful",
      "ReplicationInstanceIdentifier":"akshay1",
      "EndpointArn":"arn:aws:dms:us-east-
1:152683116123:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
      "EndpointIdentifier":"akssrc1",
      "ReplicationInstanceArn":"arn:aws:dms:us-east-
1:152683116123:rep:6USOU366XFJ UWATDJGBCJS3VIQ"
    }
  ]
}
```

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 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](#)

DescribeEndpoints

Returns information about the endpoints for your account in the current region.

Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "Marker": "string",
  "MaxRecords": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

Filters (p. 48)

Filters applied to the describe action.

Valid filter names: endpoint-arn | endpoint-type | endpoint-id | engine-name

Type: array of [Filter](#) (p. 130) objects

Required: No

Marker (p. 48)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

MaxRecords (p. 48)

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token called a marker is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

Response Syntax

```
{
  "Endpoints": [
    {
      "CertificateArn": "string",
      "DatabaseName": "string",
      "EndpointArn": "string",

```



```
    "EndpointIdentifier": "string",  
    "EndpointType": "string",  
    "EngineName": "string",  
    "ExtraConnectionAttributes": "string",  
    "KmsKeyId": "string",  
    "Port": number,  
    "ServerName": "string",  
    "SslMode": "string",  
    "Status": "string",  
    "Username": "string"  
  }  
],  
  "Marker": "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.

Endpoints (p. 48)

Endpoint description.

Type: array of [Endpoint \(p. 128\)](#) objects

Marker (p. 48)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1  
Host: dms.<region>.<domain>  
x-amz-Date: <Date>  
Authorization: AWS4-HMAC-SHA256  
Credential=<Credential>,  
SignedHeaders=contenttype;date;host;user-  
agent;x-amz-date;x-amz-target;x-amzn-  
requestid,Signature=<Signature>  
User-Agent: <UserAgentString>  
Content-Type: application/x-amz-json-1.1  
Content-Length: <PayloadSizeBytes>  
Connection: Keep-Alive
```

```
X-Amz-Target: AmazonDMSv20160101.DescribeEndpoints
{
  "Filters": [
    {
      "Name": "endpoint-type",
      "Values": [
        "source"
      ]
    }
  ],
  "MaxRecords": 0,
  "Marker": ""
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "Endpoints": [
    {
      "Username": "dms",
      "Status": "active",
      "EndpointArn": "arn:aws:dms:us-east-1:152683116123:endpoint:SFLP3SJIHID2WOFLWY2OKWKVEE",
      "ServerName": "ec2-52-32-48-61.us-west-2.compute.amazonaws.com",
      "EndpointType": "SOURCE",
      "KmsKeyId": "arn:aws:kms:us-east-1:152683116123:key/945c4e7d-4ec4-44be-b58a-c8a7adf57dcd",
      "DatabaseName": "sbttest",
      "EngineName": "mysql",
      "EndpointIdentifier": "pri100",
      "Port": 8193
    },
    {
      "Username": "admin",
      "Status": "active",
      "EndpointArn": "arn:aws:dms:us-east-1:152683116123:endpoint:TJTJ2JZCIH3CWFR4VC32WEJRU4",
      "ServerName": "test.oracle.com",
      "EndpointType": "SOURCE",
      "KmsKeyId": "arn:aws:kms:us-east-1:152683116123:key/24021b31-f21c-4a2d-b772-59bce32a9e43",
      "DatabaseName": "ORCL",
      "EngineName": "oracle",
      "EndpointIdentifier": "test",
      "Port": 1521
    }
  ]
}
```

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 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](#)

DescribeEndpointTypes

Returns information about the type of endpoints available.

Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "Marker": "string",
  "MaxRecords": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

Filters (p. 52)

Filters applied to the describe action.

Valid filter names: engine-name | endpoint-type

Type: array of [Filter](#) (p. 130) objects

Required: No

Marker (p. 52)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

MaxRecords (p. 52)

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token called a marker is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

Response Syntax

```
{
  "Marker": "string",
  "SupportedEndpointTypes": [
    {
      "EndpointType": "string",
      "EngineName": "string",
    }
  ]
}
```

```
    "SupportsCDC": boolean
  }
]
}
```

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.

Marker (p. 52)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

SupportedEndpointTypes (p. 52)

The type of endpoints that are supported.

Type: array of [SupportedEndpointType \(p. 142\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256
Credential=<Credential>,
SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.DescribeEndpointTypes
{
  "Filters": [
    {
      "Name": "endpoint-type",
      "Values": [
        "source"
      ]
    }
  ],
  "MaxRecords": 0,
  "Marker": ""
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "SupportedEndpointTypes": [
    {
      "EngineName": "mysql",
      "SupportsCDC": true,
      "EndpointType": "source"
    },
    {
      "EngineName": "oracle",
      "SupportsCDC": true,
      "EndpointType": "source"
    },
    {
      "EngineName": "postgres",
      "SupportsCDC": true,
      "EndpointType": "source"
    },
    {
      "EngineName": "aurora",
      "SupportsCDC": true,
      "EndpointType": "source"
    },
    {
      "EngineName": "mariadb",
      "SupportsCDC": true,
      "EndpointType": "source"
    },
    {
      "EngineName": "sqlserver",
      "SupportsCDC": true,
      "EndpointType": "source"
    }
  ]
}
```

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 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](#)

DescribeOrderableReplicationInstances

Returns information about the replication instance types that can be created in the specified region.

Request Syntax

```
{  
  "Marker": "string",  
  "MaxRecords": number  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

Marker (p. 56)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

MaxRecords (p. 56)

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token called a marker is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

Response Syntax

```
{  
  "Marker": "string",  
  "OrderableReplicationInstances": [  
    {  
      "DefaultAllocatedStorage": number,  
      "EngineVersion": "string",  
      "IncludedAllocatedStorage": number,  
      "MaxAllocatedStorage": number,  
      "MinAllocatedStorage": number,  
      "ReplicationInstanceClass": "string",  
      "StorageType": "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.

Marker (p. 56)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

OrderableReplicationInstances (p. 56)

The order-able replication instances available.

Type: array of [OrderableReplicationInstance \(p. 131\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256
Credential=<Credential>,
SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.DescribeOrderableReplicationInstances
{
  "MaxRecords": 0,
  "Marker": ""
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "OrderableReplicationInstances": [
    {
      "StorageType": "gp2",
      "ReplicationInstanceClass": "dms.c4.2xlarge",
      "EngineVersion": "1.3.0",
      "IncludedAllocatedStorage": 100,
      "DefaultAllocatedStorage": 100,
      "MinAllocatedStorage": 5,
      "MaxAllocatedStorage": 6144
    }
  ],
}
```

```
{
  "StorageType": "gp2",
  "ReplicationInstanceClass": "dms.c4.4xlarge",
  "EngineVersion": "1.3.0",
  "IncludedAllocatedStorage": 100,
  "DefaultAllocatedStorage": 100,
  "MinAllocatedStorage": 5,
  "MaxAllocatedStorage": 6144
},
{
  "StorageType": "gp2",
  "ReplicationInstanceClass": "dms.c4.large",
  "EngineVersion": "1.3.0",
  "IncludedAllocatedStorage": 100,
  "DefaultAllocatedStorage": 100,
  "MinAllocatedStorage": 5,
  "MaxAllocatedStorage": 6144
},
{
  "StorageType": "gp2",
  "ReplicationInstanceClass": "dms.c4.xlarge",
  "EngineVersion": "1.3.0",
  "IncludedAllocatedStorage": 100,
  "DefaultAllocatedStorage": 100,
  "MinAllocatedStorage": 5,
  "MaxAllocatedStorage": 6144
},
{
  "StorageType": "gp2",
  "ReplicationInstanceClass": "dms.t2.large",
  "EngineVersion": "1.3.0",
  "IncludedAllocatedStorage": 50,
  "DefaultAllocatedStorage": 50,
  "MinAllocatedStorage": 5,
  "MaxAllocatedStorage": 6144
},
{
  "StorageType": "gp2",
  "ReplicationInstanceClass": "dms.t2.medium",
  "EngineVersion": "1.3.0",
  "IncludedAllocatedStorage": 50,
  "DefaultAllocatedStorage": 50,
  "MinAllocatedStorage": 5,
  "MaxAllocatedStorage": 6144
},
{
  "StorageType": "gp2",
  "ReplicationInstanceClass": "dms.t2.micro",
  "EngineVersion": "1.3.0",
  "IncludedAllocatedStorage": 50,
  "DefaultAllocatedStorage": 50,
  "MinAllocatedStorage": 5,
  "MaxAllocatedStorage": 6144
},
{
  "StorageType": "gp2",
  "ReplicationInstanceClass": "dms.t2.small",
  "EngineVersion": "1.3.0",
  "IncludedAllocatedStorage": 50,
```

```

    "DefaultAllocatedStorage":50,
    "MinAllocatedStorage":5,
    "MaxAllocatedStorage":6144
  },
  {
    "StorageType":"gp2",
    "ReplicationInstanceClass":"dms.c4.2xlarge",
    "EngineVersion":"1.4.0",
    "IncludedAllocatedStorage":100,
    "DefaultAllocatedStorage":100,
    "MinAllocatedStorage":5,
    "MaxAllocatedStorage":6144
  },
  {
    "StorageType":"gp2",
    "ReplicationInstanceClass":"dms.c4.4xlarge",
    "EngineVersion":"1.4.0",
    "IncludedAllocatedStorage":100,
    "DefaultAllocatedStorage":100,
    "MinAllocatedStorage":5,
    "MaxAllocatedStorage":6144
  },
  {
    "StorageType":"gp2",
    "ReplicationInstanceClass":"dms.c4.large",
    "EngineVersion":"1.4.0",
    "IncludedAllocatedStorage":100,
    "DefaultAllocatedStorage":100,
    "MinAllocatedStorage":5,
    "MaxAllocatedStorage":6144
  },
  {
    "StorageType":"gp2",
    "ReplicationInstanceClass":"dms.c4.xlarge",
    "EngineVersion":"1.4.0",
    "IncludedAllocatedStorage":100,
    "DefaultAllocatedStorage":100,
    "MinAllocatedStorage":5,
    "MaxAllocatedStorage":6144
  },
  {
    "StorageType":"gp2",
    "ReplicationInstanceClass":"dms.t2.large",
    "EngineVersion":"1.4.0",
    "IncludedAllocatedStorage":50,
    "DefaultAllocatedStorage":50,
    "MinAllocatedStorage":5,
    "MaxAllocatedStorage":6144
  },
  {
    "StorageType":"gp2",
    "ReplicationInstanceClass":"dms.t2.medium",
    "EngineVersion":"1.4.0",
    "IncludedAllocatedStorage":50,
    "DefaultAllocatedStorage":50,
    "MinAllocatedStorage":5,
    "MaxAllocatedStorage":6144
  }
}

```

```
"StorageType": "gp2",
"ReplicationInstanceClass": "dms.t2.micro",
"EngineVersion": "1.4.0",
"IncludedAllocatedStorage": 50,
"DefaultAllocatedStorage": 50,
"MinAllocatedStorage": 5,
"MaxAllocatedStorage": 6144
},
{
  "StorageType": "gp2",
  "ReplicationInstanceClass": "dms.t2.small",
  "EngineVersion": "1.4.0",
  "IncludedAllocatedStorage": 50,
  "DefaultAllocatedStorage": 50,
  "MinAllocatedStorage": 5,
  "MaxAllocatedStorage": 6144
},
{
  "StorageType": "gp2",
  "ReplicationInstanceClass": "dms.c4.2xlarge",
  "EngineVersion": "1.5.0",
  "IncludedAllocatedStorage": 100,
  "DefaultAllocatedStorage": 100,
  "MinAllocatedStorage": 5,
  "MaxAllocatedStorage": 6144
},
{
  "StorageType": "gp2",
  "ReplicationInstanceClass": "dms.c4.4xlarge",
  "EngineVersion": "1.5.0",
  "IncludedAllocatedStorage": 100,
  "DefaultAllocatedStorage": 100,
  "MinAllocatedStorage": 5,
  "MaxAllocatedStorage": 6144
},
{
  "StorageType": "gp2",
  "ReplicationInstanceClass": "dms.c4.large",
  "EngineVersion": "1.5.0",
  "IncludedAllocatedStorage": 100,
  "DefaultAllocatedStorage": 100,
  "MinAllocatedStorage": 5,
  "MaxAllocatedStorage": 6144
},
{
  "StorageType": "gp2",
  "ReplicationInstanceClass": "dms.c4.xlarge",
  "EngineVersion": "1.5.0",
  "IncludedAllocatedStorage": 100,
  "DefaultAllocatedStorage": 100,
  "MinAllocatedStorage": 5,
  "MaxAllocatedStorage": 6144
},
{
  "StorageType": "gp2",
  "ReplicationInstanceClass": "dms.t2.large",
  "EngineVersion": "1.5.0",
  "IncludedAllocatedStorage": 50,
  "DefaultAllocatedStorage": 50,
```

```
    "MinAllocatedStorage":5,  
    "MaxAllocatedStorage":6144  
  },  
  {  
    "StorageType":"gp2",  
    "ReplicationInstanceClass":"dms.t2.medium",  
    "EngineVersion":"1.5.0",  
    "IncludedAllocatedStorage":50,  
    "DefaultAllocatedStorage":50,  
    "MinAllocatedStorage":5,  
    "MaxAllocatedStorage":6144  
  },  
  {  
    "StorageType":"gp2",  
    "ReplicationInstanceClass":"dms.t2.micro",  
    "EngineVersion":"1.5.0",  
    "IncludedAllocatedStorage":50,  
    "DefaultAllocatedStorage":50,  
    "MinAllocatedStorage":5,  
    "MaxAllocatedStorage":6144  
  },  
  {  
    "StorageType":"gp2",  
    "ReplicationInstanceClass":"dms.t2.small",  
    "EngineVersion":"1.5.0",  
    "IncludedAllocatedStorage":50,  
    "DefaultAllocatedStorage":50,  
    "MinAllocatedStorage":5,  
    "MaxAllocatedStorage":6144  
  }  
]  
}
```

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 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](#)

DescribeRefreshSchemasStatus

Returns the status of the RefreshSchemas operation.

Request Syntax

```
{  
  "EndpointArn": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 147\)](#).

The request accepts the following data in JSON format.

EndpointArn (p. 62)

The Amazon Resource Name (ARN) string that uniquely identifies the endpoint.

Type: String

Required: Yes

Response Syntax

```
{  
  "RefreshSchemasStatus": {  
    "EndpointArn": "string",  
    "LastFailureMessage": "string",  
    "LastRefreshDate": number,  
    "ReplicationInstanceArn": "string",  
    "Status": "string"  
  }  
}
```

Response Elements

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

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

RefreshSchemasStatus (p. 62)

The status of the schema.

Type: [RefreshSchemasStatus \(p. 132\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256
Credential=<Credential>,
SignedHeaders=contenttype;date;host;user-
agent;x-amz-date;x-amz-target;x-amzn-
requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.DescribeRefreshSchemasStatus
{
  "EndpointArn": "arn:aws:dms:us-east-
1:152683116123:endpoint:WKBULDZKUDQZIHPOUUSEH34EMU"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "RefreshSchemasStatus":{
    "Status":"successful",
    "LastRefreshDate":1457659238.93,
    "EndpointArn":"arn:aws:dms:us-east-
1:152683116123:endpoint:WKBULDZKUDQZIHPOUUSEH34EMU",
    "ReplicationInstanceArn":"arn:aws:dms:us-east-
1:152683116123:rep:6USOU366XFJUWATDJGBCJS3VIQ"
  }
}
```

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 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](#)

DescribeReplicationInstances

Returns information about replication instances for your account in the current region.

Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "Marker": "string",
  "MaxRecords": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

Filters (p. 65)

Filters applied to the describe action.

Valid filter names: replication-instance-arn | replication-instance-id | replication-instance-class | engine-version

Type: array of [Filter](#) (p. 130) objects

Required: No

Marker (p. 65)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

MaxRecords (p. 65)

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token called a marker is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

Response Syntax

```
{
  "Marker": "string",
  "ReplicationInstances": [
    {
      "AllocatedStorage": number,
      "AutoMinorVersionUpgrade": boolean,
      "AvailabilityZone": "string",

```

```

    "EngineVersion": "string",
    "InstanceCreateTime": number,
    "KmsKeyId": "string",
    "MultiAZ": boolean,
    "PendingModifiedValues": {
      "AllocatedStorage": number,
      "EngineVersion": "string",
      "MultiAZ": boolean,
      "ReplicationInstanceClass": "string"
    },
    "PreferredMaintenanceWindow": "string",
    "PubliclyAccessible": boolean,
    "ReplicationInstanceArn": "string",
    "ReplicationInstanceClass": "string",
    "ReplicationInstanceIdentifier": "string",
    "ReplicationInstancePrivateIpAddress": "string",
    "ReplicationInstancePrivateIpAddresses": [ "string" ],
    "ReplicationInstancePublicIpAddress": "string",
    "ReplicationInstancePublicIpAddresses": [ "string" ],
    "ReplicationInstanceStatus": "string",
    "ReplicationSubnetGroup": {
      "ReplicationSubnetGroupDescription": "string",
      "ReplicationSubnetGroupIdentifier": "string",
      "SubnetGroupStatus": "string",
      "Subnets": [
        {
          "SubnetAvailabilityZone": {
            "Name": "string"
          },
          "SubnetIdentifier": "string",
          "SubnetStatus": "string"
        }
      ],
      "VpcId": "string"
    },
    "SecondaryAvailabilityZone": "string",
    "VpcSecurityGroups": [
      {
        "Status": "string",
        "VpcSecurityGroupId": "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.

Marker (p. 65)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

ReplicationInstances (p. 65)

The replication instances described.

Type: array of [ReplicationInstance \(p. 133\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256
Credential=<Credential>,
SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.DescribeReplicationInstances
{
  "Filters":[
    {
      "Name":"rep-instance-arn",
      "Values":[
        "arn:aws:dms:us-east-1:152683116123:rep:PWEBBEUNOLU7VEB2OHTEH4I4GQ"
      ]
    }
  ],
  "MaxRecords":0,
  "Marker":""
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationInstances":[
    {
      "AvailabilityZone":"us-east-1c",
      "PubliclyAccessible":true,
      "ReplicationInstanceArn":"arn:aws:dms:us-east-
```

AWS Database Migration Service API Reference
Example

```
1:152683116123:rep:PWEBBEUNOLU7VEB2OHEH4I4GQ",
  "ReplicationInstanceClass": "dms.t2.micro",
  "ReplicationSubnetGroup": {
    "ReplicationSubnetGroupDescription": "default",
    "Subnets": [
      {
        "SubnetStatus": "Active",
        "SubnetIdentifier": "subnet-f6dd91af",
        "SubnetAvailabilityZone": {
          "Name": "us-east-1d"
        }
      },
      {
        "SubnetStatus": "Active",
        "SubnetIdentifier": "subnet-3605751d",
        "SubnetAvailabilityZone": {
          "Name": "us-east-1b"
        }
      },
      {
        "SubnetStatus": "Active",
        "SubnetIdentifier": "subnet-c2daefb5",
        "SubnetAvailabilityZone": {
          "Name": "us-east-1c"
        }
      },
      {
        "SubnetStatus": "Active",
        "SubnetIdentifier": "subnet-85e90cb8",
        "SubnetAvailabilityZone": {
          "Name": "us-east-1e"
        }
      }
    ],
    "VpcId": "vpc-6741a603",
    "SubnetGroupStatus": "Complete",
    "ReplicationSubnetGroupIdentifier": "default"
  },
  "AutoMinorVersionUpgrade": true,
  "ReplicationInstanceStatus": "creating",
  "KmsKeyId": "arn:aws:kms:us-east-1:152683116123:key/4dc17316-5543-4ded-b1e3-d53a7cfb411d",
  "AllocatedStorage": 5,
  "EngineVersion": "1.5.0",
  "ReplicationInstanceIdentifier": "test-rep-1",
  "PreferredMaintenanceWindow": "sun:06:00-sun:14:00",
  "PendingModifiedValues": {
  }
}
]
```

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 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](#)

DescribeReplicationSubnetGroups

Returns information about the replication subnet groups.

Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "Marker": "string",
  "MaxRecords": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 147\)](#).

The request accepts the following data in JSON format.

Filters (p. 70)

Filters applied to the describe action.

Type: array of [Filter \(p. 130\)](#) objects

Required: No

Marker (p. 70)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

MaxRecords (p. 70)

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token called a marker is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

Response Syntax

```
{
  "Marker": "string",
  "ReplicationSubnetGroups": [
    {
      "ReplicationSubnetGroupDescription": "string",
      "ReplicationSubnetGroupIdentifier": "string",
      "SubnetGroupStatus": "string",
      "Subnets": [
        {
```

```
        "SubnetAvailabilityZone": {
            "Name": "string"
        },
        "SubnetIdentifier": "string",
        "SubnetStatus": "string"
    }
],
"VpcId": "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.

Marker (p. 70)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

ReplicationSubnetGroups (p. 70)

A description of the replication subnet groups.

Type: array of [ReplicationSubnetGroup \(p. 137\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256
Credential=<Credential>,
SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.DescribeReplicationSubnetGroups
{
  "Filters": [
    {
```

```
    "Name": "replication-subnet-group-id",
    "Values": [
      "test-subnet-group"
    ]
  },
  "MaxRecords": 0,
  "Marker": ""
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationSubnetGroups": [
    {
      "ReplicationSubnetGroupDescription": "dms testing",
      "Subnets": [
        {
          "SubnetStatus": "Active",
          "SubnetIdentifier": "subnet-f6dd91af",
          "SubnetAvailabilityZone": {
            "Name": "us-east-1d"
          }
        },
        {
          "SubnetStatus": "Active",
          "SubnetIdentifier": "subnet-3605751d",
          "SubnetAvailabilityZone": {
            "Name": "us-east-1b"
          }
        },
        {
          "SubnetStatus": "Active",
          "SubnetIdentifier": "subnet-c2daefb5",
          "SubnetAvailabilityZone": {
            "Name": "us-east-1c"
          }
        }
      ],
      "VpcId": "vpc-6741a603",
      "SubnetGroupStatus": "Complete",
      "ReplicationSubnetGroupIdentifier": "test-subnet-group"
    }
  ]
}
```

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 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](#)

DescribeReplicationTasks

Returns information about replication tasks for your account in the current region.

Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "Marker": "string",
  "MaxRecords": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

Filters (p. 74)

Filters applied to the describe action.

Valid filter names: replication-task-arn | replication-task-id | migration-type | endpoint-arn | replication-instance-arn

Type: array of [Filter](#) (p. 130) objects

Required: No

Marker (p. 74)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

MaxRecords (p. 74)

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token called a marker is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

Response Syntax

```
{
  "Marker": "string",
  "ReplicationTasks": [
    {
      "LastFailureMessage": "string",
      "MigrationType": "string",

```

```
    "ReplicationInstanceArn": "string",
    "ReplicationTaskArn": "string",
    "ReplicationTaskCreationDate": number,
    "ReplicationTaskIdentifier": "string",
    "ReplicationTaskSettings": "string",
    "ReplicationTaskStartDate": number,
    "ReplicationTaskStats": {
      "ElapsedTimeMillis": number,
      "FullLoadProgressPercent": number,
      "TablesErrored": number,
      "TablesLoaded": number,
      "TablesLoading": number,
      "TablesQueued": number
    },
    "SourceEndpointArn": "string",
    "Status": "string",
    "StopReason": "string",
    "TableMappings": "string",
    "TargetEndpointArn": "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.

Marker (p. 74)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

ReplicationTasks (p. 74)

A description of the replication tasks.

Type: array of [ReplicationTask](#) (p. 138) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 149).

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256
```

```
Credential=<Credential>,
SignedHeaders=contenttype;date;host;user-
agent;x-amz-date;x-amz-target;x-amzn-
requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.DescribeReplicationTasks
{
  "Filters":[
    {
      "Name":"endpoint-arn",
      "Values":[
        "arn:aws:dms:us-east-
1:152683116123:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE"
      ]
    }
  ],
  "MaxRecords":0,
  "Marker":""
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationTasks":[
    {
      "SourceEndpointArn":"arn:aws:dms:us-east-
1:152683116123:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
      "ReplicationTaskIdentifier":"aks145",
      "ReplicationInstanceArn":"arn:aws:dms:us-east-
1:152683116123:rep:6USOU366XFJUWATDJGBCJS3VIQ",
      "TableMappings":{" \n\t\"TableMappings\": [ {
\n\t\t\"Type\": \"Include\", \n\t\t\"SourceSchema\": \"testDB\", \n\t\t
\n\t\t\"SourceTable\": \"%\" \n\t}, { \n\t\t\"Type\": \"Include\", \n\t\t
\n\t\t\"SourceSchema\": \"testDB\", \n\t\t\"SourceTable\": \"%\" \n\t} ]\n}",
      "ReplicationTaskStartDate":1452868617.764,
      "ReplicationTaskStats":{"
        "TablesLoading":0,
        "TablesQueued":0,
        "TablesErrored":0,
        "FullLoadProgressPercent":100,
        "TablesLoaded":0,
        "ElapsedTimeMillis":0
      },
      "Status":"stopped",
      "ReplicationTaskArn":"arn:aws:dms:us-east-
1:152683116123:task:RALPZGYI3IUSJCBKKIRBEURKDY",
      "ReplicationTaskCreationDate":1449185680.107,
      "MigrationType":"full-load",
    }
  ]
}
```

```
    "TargetEndpointArn": "arn:aws:dms:us-east-1:152683116123:endpoint:GVBUJQXJZASXWHTWCLN2WNT57E",
    "ReplicationTaskSettings": {
      "TargetMetadata": {
        "TargetSchema": {
          "SupportLobs": true,
          "FullLobMode": true,
          "LobChunkSize": 64,
          "LimitedSizeLobMode": false,
          "LobMaxSize": 0,
          "FullLoadSettings": {
            "FullLoadEnabled": true,
            "ApplyChangesEnabled": true,
            "TargetTablePrepMode": "DO_NOTHING",
            "CreatePkAfterFullLoad": false,
            "StopTaskCachedChangesApplied": false,
            "StopTaskCachedChangesNotApplied": false,
            "ResumeEnabled": false,
            "ResumeMinTableSize": 100000,
            "ResumeOnlyClusteredPKTables": true,
            "MaxFullLoadSubTasks": 8,
            "TransactionConsistencyTimeout": 600,
            "CommitRate": 10000
          }
        }
      }
    }
  ]
}
```

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 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](#)

DescribeSchemas

Returns information about the schema for the specified endpoint.

Request Syntax

```
{  
  "EndpointArn": "string",  
  "Marker": "string",  
  "MaxRecords": number  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

EndpointArn (p. 78)

The Amazon Resource Name (ARN) string that uniquely identifies the endpoint.

Type: String

Required: Yes

Marker (p. 78)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

MaxRecords (p. 78)

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token called a marker is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

Response Syntax

```
{  
  "Marker": "string",  
  "Schemas": [ "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.

Marker (p. 78)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Schemas (p. 78)

The described schema.

Type: array of Strings

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256
Credential=<Credential>,
SignedHeaders=contenttype;date;host;user-
agent;x-amz-date;x-amz-target;x-amzn-
requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.DescribeSchemas
{
  "EndpointArn": "arn:aws:dms:us-east-
1:152683116123:endpoint:WKBULDZKUDQZIHPOUSEH34EMU",
  "MaxRecords": 0,
  "Marker": ""
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "Schemas": [
```

```
    "testDB",  
    "tmp"  
  ]  
}
```

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 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](#)

DescribeTableStatistics

Returns table statistics on the database migration task, including table name, rows inserted, rows updated, and rows deleted.

Request Syntax

```
{  
  "Marker": "string",  
  "MaxRecords": number,  
  "ReplicationTaskArn": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

Marker (p. 81)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

MaxRecords (p. 81)

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token called a marker is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

ReplicationTaskArn (p. 81)

The Amazon Resource Name (ARN) of the replication task.

Type: String

Required: Yes

Response Syntax

```
{  
  "Marker": "string",  
  "ReplicationTaskArn": "string",  
  "TableStatistics": [  
    {  
      "Ddls": number,  
      "Deletes": number,  
      "FullLoadRows": number,  
      "Inserts": number,  
      "LastUpdateTime": number,  
      "SchemaName": "string",  
      "TableName": "string",  
    }  
  ]  
}
```

```
    "TableState": "string",  
    "Updates": 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.

Marker (p. 81)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

ReplicationTaskArn (p. 81)

The Amazon Resource Name (ARN) of the replication task.

Type: String

TableStatistics (p. 81)

The table statistics.

Type: array of [TableStatistics \(p. 143\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1  
Host: dms.<region>.<domain>  
x-amz-Date: <Date>  
Authorization: AWS4-HMAC-SHA256  
Credential=<Credential>,  
SignedHeaders=contenttype;date;host;user-  
agent;x-amz-date;x-amz-target;x-amzn-  
requestid,Signature=<Signature>  
User-Agent: <UserAgentString>  
Content-Type: application/x-amz-json-1.1  
Content-Length: <PayloadSizeBytes>  
Connection: Keep-Alive  
X-Amz-Target: AmazonDMSv20160101.DescribeTableStatistics  
{
```

```
"ReplicationTaskArn": "arn:aws:dms:us-west-2:918017823489:task:WZVIPF3D4AJSNJASB42D4Z7GBE",
"SchemaName": "",
"TableNames": [
  ""
],
"MaxRecords": 0,
"Marker": ""
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationTaskArn": "arn:aws:dms:us-west-2:918017823489:task:WZVIPF3D4AJSNJASB42D4Z7GBE",
  "TableStatistics": [
    {
      "Inserts": 3872,
      "LastUpdateTime": 1457655132.796,
      "Ddls": 1,
      "TableName": "DataInsert_5D28A14AB66AB4ED",
      "Updates": 0,
      "FullLoadRows": 0,
      "TableState": "Table completed",
      "SchemaName": "rdststdb",
      "Deletes": 0
    },
    {
      "Inserts": 0,
      "LastUpdateTime": 1457655132.796,
      "Ddls": 0,
      "TableName": "DataInsert_05CF105ABC22BB83",
      "Updates": 0,
      "FullLoadRows": 0,
      "TableState": "Table completed",
      "SchemaName": "rdststdb",
      "Deletes": 0
    },
    {
      "Inserts": 0,
      "LastUpdateTime": 1457655132.796,
      "Ddls": 0,
      "TableName": "DataInsert_BEB962DE10FB7B60",
      "Updates": 0,
      "FullLoadRows": 0,
      "TableState": "Table completed",
      "SchemaName": "rdststdb",
      "Deletes": 0
    }
  ]
}
```

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 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](#)

ImportCertificate

Uploads the specified certificate.

Request Syntax

```
{  
  "CertificateIdentifier": "string",  
  "CertificatePem": "string",  
  "CertificateWallet": blob  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

CertificateIdentifier (p. 85)

The customer-assigned name of the certificate. Valid characters are A-z and 0-9.

Type: String

Required: Yes

CertificatePem (p. 85)

The contents of the .pem X.509 certificate file for the certificate.

Type: String

Required: No

CertificateWallet (p. 85)

The location of the imported Oracle Wallet certificate for use with SSL.

Type: Base64-encoded binary data object

Required: No

Response Syntax

```
{  
  "Certificate": {  
    "CertificateArn": "string",  
    "CertificateCreationDate": number,  
    "CertificateIdentifier": "string",  
    "CertificateOwner": "string",  
    "CertificatePem": "string",  
    "CertificateWallet": blob,  
    "KeyLength": number,  
    "SigningAlgorithm": "string",  
    "ValidFromDate": number,  
    "ValidToDate": 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.

Certificate (p. 85)

The certificate to be uploaded.
Type: [Certificate \(p. 125\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

InvalidCertificateFault

The certificate was not valid.
HTTP Status Code: 400

ResourceAlreadyExistsFault

The resource you are attempting to create already exists.
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 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](#)

ListTagsForResource

Lists all tags for an AWS DMS resource.

Request Syntax

```
{  
  "ResourceArn": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 147\)](#).

The request accepts the following data in JSON format.

ResourceArn (p. 87)

The Amazon Resource Name (ARN) string that uniquely identifies the AWS DMS resource.

Type: String

Required: Yes

Response Syntax

```
{  
  "TagList": [  
    {  
      "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.

TagList (p. 87)

A list of tags for the resource.

Type: array of [Tag \(p. 145\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256
Credential=<Credential>,
SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.ListTagsForResource
{
  "ResourceArn": "arn:aws:dms:us-east-1:152683116123:rep:PWEBBEUNOLU7VEB2OHTEH4I4GQ"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "TagList": [
    {
      "Value": "1234",
      "Key": "CostCenter"
    }
  ]
}
```

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 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](#)

ModifyEndpoint

Modifies the specified endpoint.

Request Syntax

```
{  
  "CertificateArn": "string",  
  "DatabaseName": "string",  
  "EndpointArn": "string",  
  "EndpointIdentifier": "string",  
  "EndpointType": "string",  
  "EngineName": "string",  
  "ExtraConnectionAttributes": "string",  
  "Password": "string",  
  "Port": number,  
  "ServerName": "string",  
  "SslMode": "string",  
  "Username": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 147\)](#).

The request accepts the following data in JSON format.

CertificateArn (p. 90)

The Amazon Resource Name (ARN) of the certificate used for SSL connection.

Type: String

Required: No

DatabaseName (p. 90)

The name of the endpoint database.

Type: String

Required: No

EndpointArn (p. 90)

The Amazon Resource Name (ARN) string that uniquely identifies the endpoint.

Type: String

Required: Yes

EndpointIdentifier (p. 90)

The database endpoint identifier. Identifiers must begin with a letter; must contain only ASCII letters, digits, and hyphens; and must not end with a hyphen or contain two consecutive hyphens.

Type: String

Required: No

EndpointType (p. 90)

The type of endpoint.

Type: String

Valid Values: `source` | `target`

Required: No

EngineName (p. 90)

The type of engine for the endpoint. Valid values include MYSQL, ORACLE, POSTGRES, MARIADB, AURORA, REDSHIFT, SYBASE, and SQLSERVER.

Type: String

Required: No

ExtraConnectionAttributes (p. 90)

Additional attributes associated with the connection.

Type: String

Required: No

Password (p. 90)

The password to be used to login to the endpoint database.

Type: String

Required: No

Port (p. 90)

The port used by the endpoint database.

Type: Integer

Required: No

ServerName (p. 90)

The name of the server where the endpoint database resides.

Type: String

Required: No

SslMode (p. 90)

The SSL mode to be used.

SSL mode can be one of four values: none, require, verify-ca, verify-full.

The default value is none.

Type: String

Valid Values: none | require | verify-ca | verify-full

Required: No

Username (p. 90)

The user name to be used to login to the endpoint database.

Type: String

Required: No

Response Syntax

```
{
  "Endpoint": {
    "CertificateArn": "string",
    "DatabaseName": "string",
    "EndpointArn": "string",
    "EndpointIdentifier": "string",
    "EndpointType": "string",
    "EngineName": "string",
    "ExtraConnectionAttributes": "string",
    "KmsKeyId": "string",
    "Port": number,
    "ServerName": "string",
    "SslMode": "string",
    "Status": "string",
    "Username": "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.

Endpoint (p. 91)

The modified endpoint.

Type: [Endpoint \(p. 128\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.

HTTP Status Code: 400

KMSKeyNotAccessibleFault

AWS DMS cannot access the KMS key.

HTTP Status Code: 400

ResourceAlreadyExistsFault

The resource you are attempting to create already exists.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256
Credential=<Credential>,
SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.ModifyEndpoint
{
  "EndpointArn": "arn:aws:dms:us-east-1:152683116123:endpoint:RAAR3R22XSH46S3PWLC3NJAWKM",
  "EndpointIdentifier": "",
  "EndpointType": "target",
  "EngineName": "",
  "Username": "",
  "Password": "",
```

```

"ServerName": "",
"Port": 0,
"DatabaseName": "",
"ExtraConnectionAttributes": ""
}

```

Sample Response

```

HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "Endpoint": {
    "Username": "username",
    "Status": "active",
    "EndpointArn": "arn:aws:dms:us-east-1:152683116123:endpoint:RAAR3R22XSH46S3PWLC3NJAWKM",
    "ServerName": "apurvap-source.cxln7iyxxllo.us-west-2.rds.amazonaws.com",
    "EndpointType": "TARGET",
    "KmsKeyId": "arn:aws:kms:us-east-1:152683116123:key/4dc17316-5543-4ded-ble3-d53a7cfb411d",
    "ExtraConnectionAttributes": "parallelLoadThreads=1",
    "EngineName": "mysql",
    "EndpointIdentifier": "test-endpoint-1",
    "Port": 3306
  }
}
}RefreshSchemas:$ /apollo/env/AmazonAwsCli/bin/aws dms refresh-schemas --
endpoint-arn
arn:aws:dms:us-east-1:152683116123:endpoint:WKBULDZKUDQZIHPOUUSEH34EMU --
replication-instance-arn arn:aws:dms:us-east-1:152683116123:rep:6USOU366XFJWATDJGBCJS3VIQ
Request: {
  "EndpointArn": "arn:aws:dms:us-east-1:152683116123:endpoint:WKBULDZKUDQZIHPOUUSEH34EMU",
  "ReplicationInstanceArn": "arn:aws:dms:us-east-1:152683116123:rep:6USOU366XFJWATDJGBCJS3VIQ"
}Response: {
  "RefreshSchemasStatus": {
    "Status": "refreshing",
    "LastRefreshDate": 1449185912.022,
    "EndpointArn": "arn:aws:dms:us-east-1:152683116123:endpoint:WKBULDZKUDQZIHPOUUSEH34EMU",
    "ReplicationInstanceArn": "arn:aws:dms:us-east-1:152683116123:rep:6USOU366XFJWATDJGBCJS3VIQ"
  }
}
}

```

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 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](#)

ModifyReplicationInstance

Modifies the replication instance to apply new settings. You can change one or more parameters by specifying these parameters and the new values in the request.

Some settings are applied during the maintenance window.

Request Syntax

```
{  
  "AllocatedStorage": number,  
  "AllowMajorVersionUpgrade": boolean,  
  "ApplyImmediately": boolean,  
  "AutoMinorVersionUpgrade": boolean,  
  "EngineVersion": "string",  
  "MultiAZ": boolean,  
  "PreferredMaintenanceWindow": "string",  
  "ReplicationInstanceArn": "string",  
  "ReplicationInstanceClass": "string",  
  "ReplicationInstanceIdentifier": "string",  
  "VpcSecurityGroupIds": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

AllocatedStorage (p. 95)

The amount of storage (in gigabytes) to be allocated for the replication instance.

Type: Integer

Required: No

AllowMajorVersionUpgrade (p. 95)

Indicates that major version upgrades are allowed. Changing this parameter does not result in an outage and the change is asynchronously applied as soon as possible.

Constraints: This parameter must be set to true when specifying a value for the `EngineVersion` parameter that is a different major version than the replication instance's current version.

Type: Boolean

Required: No

ApplyImmediately (p. 95)

Indicates whether the changes should be applied immediately or during the next maintenance window.

Type: Boolean

Required: No

AutoMinorVersionUpgrade (p. 95)

Indicates that minor version upgrades will be applied automatically to the replication instance during the maintenance window. Changing this parameter does not result in an outage except in the following case and the change is asynchronously applied as soon as possible. An outage will result if this parameter is set to `true` during the maintenance window, and a newer minor version is available, and AWS DMS has enabled auto patching for that engine version.

Type: Boolean

Required: No

EngineVersion (p. 95)

The engine version number of the replication instance.

Type: String

Required: No

MultiAZ (p. 95)

Specifies if the replication instance is a Multi-AZ deployment. You cannot set the `AvailabilityZone` parameter if the Multi-AZ parameter is set to `true`.

Type: Boolean

Required: No

PreferredMaintenanceWindow (p. 95)

The weekly time range (in UTC) during which system maintenance can occur, which might result in an outage. Changing this parameter does not result in an outage, except in the following situation, and the change is asynchronously applied as soon as possible. If moving this window to the current time, there must be at least 30 minutes between the current time and end of the window to ensure pending changes are applied.

Default: Uses existing setting

Format: `ddd:hh24:mi-ddd:hh24:mi`

Valid Days: `Mon | Tue | Wed | Thu | Fri | Sat | Sun`

Constraints: Must be at least 30 minutes

Type: String

Required: No

ReplicationInstanceArn (p. 95)

The Amazon Resource Name (ARN) of the replication instance.

Type: String

Required: Yes

ReplicationInstanceClass (p. 95)

The compute and memory capacity of the replication instance.

Valid Values: `dms.t2.micro | dms.t2.small | dms.t2.medium | dms.t2.large | dms.c4.large | dms.c4.xlarge | dms.c4.2xlarge | dms.c4.4xlarge`

Type: String

Required: No

ReplicationInstanceIdentifier (p. 95)

The replication instance identifier. This parameter is stored as a lowercase string.

Type: String

Required: No

VpcSecurityGroupIds (p. 95)

Specifies the VPC security group to be used with the replication instance. The VPC security group must work with the VPC containing the replication instance.

Type: array of Strings

Required: No

Response Syntax

```
{
  "ReplicationInstance": {
    "AllocatedStorage": number,
    "AutoMinorVersionUpgrade": boolean,
    "AvailabilityZone": "string",
```



```

    "EngineVersion": "string",
    "InstanceCreateTime": number,
    "KmsKeyId": "string",
    "MultiAZ": boolean,
    "PendingModifiedValues": {
      "AllocatedStorage": number,
      "EngineVersion": "string",
      "MultiAZ": boolean,
      "ReplicationInstanceClass": "string"
    },
    "PreferredMaintenanceWindow": "string",
    "PubliclyAccessible": boolean,
    "ReplicationInstanceArn": "string",
    "ReplicationInstanceClass": "string",
    "ReplicationInstanceIdentifier": "string",
    "ReplicationInstancePrivateIpAddress": "string",
    "ReplicationInstancePrivateIpAddresses": [ "string" ],
    "ReplicationInstancePublicIpAddress": "string",
    "ReplicationInstancePublicIpAddresses": [ "string" ],
    "ReplicationInstanceStatus": "string",
    "ReplicationSubnetGroup": {
      "ReplicationSubnetGroupDescription": "string",
      "ReplicationSubnetGroupIdentifier": "string",
      "SubnetGroupStatus": "string",
      "Subnets": [
        {
          "SubnetAvailabilityZone": {
            "Name": "string"
          },
          "SubnetIdentifier": "string",
          "SubnetStatus": "string"
        }
      ],
      "VpcId": "string"
    },
    "SecondaryAvailabilityZone": "string",
    "VpcSecurityGroups": [
      {
        "Status": "string",
        "VpcSecurityGroupId": "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.

ReplicationInstance (p. 96)

The modified replication instance.
Type: [ReplicationInstance \(p. 133\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

InsufficientResourceCapacityFault

There are not enough resources allocated to the database migration.

HTTP Status Code: 400

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.

HTTP Status Code: 400

ResourceAlreadyExistsFault

The resource you are attempting to create already exists.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

StorageQuotaExceededFault

The storage quota has been exceeded.

HTTP Status Code: 400

UpgradeDependencyFailureFault

An upgrade dependency is preventing the database migration.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256
Credential=<Credential>,
SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.ModifyReplicationInstance
{
  "ReplicationInstanceArn": "arn:aws:dms:us-east-1:152683116123:rep:PWEBBEUNOLU7VEB2OHTEH4I4GQ",
  "AllocatedStorage": 0,
  "ApplyImmediately": true,
  "ReplicationInstanceClass": "dms.t2.small",
  "PreferredMaintenanceWindow": "",
  "EngineVersion": "",
  "AllowMajorVersionUpgrade": true,
  "AutoMinorVersionUpgrade": true,
  "ReplicationInstanceIdentifier": ""
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationInstance":{
    "AvailabilityZone":"us-east-1c",
    "ReplicationInstancePrivateIpAddress":"172.31.6.45",
    "ReplicationInstanceArn":"arn:aws:dms:us-east-1:152683116123:rep:PWEBBEUNOLU7VEB2OHTEH4I4GQ",
    "ReplicationInstanceClass":"dms.t2.micro",
    "ReplicationSubnetGroup":{
      "ReplicationSubnetGroupDescription":"default",
      "Subnets":[
        {
          "SubnetStatus":"Active",
          "SubnetIdentifier":"subnet-f6dd91af",
          "SubnetAvailabilityZone":{
            "Name":"us-east-1d"
          }
        },
        {
          "SubnetStatus":"Active",
          "SubnetIdentifier":"subnet-3605751d",
          "SubnetAvailabilityZone":{
            "Name":"us-east-1b"
          }
        },
        {
          "SubnetStatus":"Active",
          "SubnetIdentifier":"subnet-c2daefb5",
          "SubnetAvailabilityZone":{
            "Name":"us-east-1c"
          }
        },
        {
          "SubnetStatus":"Active",
          "SubnetIdentifier":"subnet-85e90cb8",
          "SubnetAvailabilityZone":{
            "Name":"us-east-1e"
          }
        }
      ],
      "VpcId":"vpc-6741a603",
      "SubnetGroupStatus":"Complete",
      "ReplicationSubnetGroupIdentifier":"default"
    },
    "AutoMinorVersionUpgrade":true,
    "ReplicationInstanceStatus":"available",
    "KmsKeyId":"arn:aws:kms:us-east-1:152683116123:key/4dc17316-5543-4ded-ble3-d53a7cfb411d",
    "InstanceCreateTime":1457645140.38,
    "ReplicationInstancePublicIpAddress":"52.87.66.36",
    "AllocatedStorage":5,
  }
}
```

```
"EngineVersion": "1.5.0",  
"ReplicationInstanceIdentifier": "test-rep-1",  
"PubliclyAccessible": true,  
"PreferredMaintenanceWindow": "sun:06:00-sun:14:00",  
"PendingModifiedValues": {  
  "ReplicationInstanceClass": "dms.t2.small"  
}  
}  
}
```

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 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](#)

ModifyReplicationSubnetGroup

Modifies the settings for the specified replication subnet group.

Request Syntax

```
{
  "ReplicationSubnetGroupDescription": "string",
  "ReplicationSubnetGroupIdentifier": "string",
  "SubnetIds": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 147\)](#).

The request accepts the following data in JSON format.

ReplicationSubnetGroupDescription (p. 101)

The description of the replication instance subnet group.

Type: String

Required: No

ReplicationSubnetGroupIdentifier (p. 101)

The name of the replication instance subnet group.

Type: String

Required: Yes

SubnetIds (p. 101)

A list of subnet IDs.

Type: array of Strings

Required: Yes

Response Syntax

```
{
  "ReplicationSubnetGroup": {
    "ReplicationSubnetGroupDescription": "string",
    "ReplicationSubnetGroupIdentifier": "string",
    "SubnetGroupStatus": "string",
    "Subnets": [
      {
        "SubnetAvailabilityZone": {
          "Name": "string"
        },
        "SubnetIdentifier": "string",
        "SubnetStatus": "string"
      }
    ],
    "VpcId": "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.

ReplicationSubnetGroup (p. 101)

The modified replication subnet group.

Type: [ReplicationSubnetGroup \(p. 137\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

AccessDeniedFault

AWS DMS was denied access to the endpoint.

HTTP Status Code: 400

InvalidSubnet

The subnet provided is invalid.

HTTP Status Code: 400

ReplicationSubnetGroupDoesNotCoverEnoughAZs

The replication subnet group does not cover enough Availability Zones (AZs). Edit the replication subnet group and add more AZs.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

ResourceQuotaExceededFault

The quota for this resource quota has been exceeded.

HTTP Status Code: 400

SubnetAlreadyInUse

The specified subnet is already in use.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256
Credential=<Credential>,
SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.ModifyReplicationSubnetGroup
```

```
{
  "ReplicationSubnetGroupIdentifier": "test-subnet-group",
  "ReplicationSubnetGroupDescription": "",
  "SubnetIds": [
    "subnet-f6dd91af",
    "subnet-3605751d "
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationSubnetGroup": {
    "ReplicationSubnetGroupDescription": "dms testing",
    "Subnets": [
      {
        "SubnetStatus": "Active",
        "SubnetIdentifier": "subnet-f6dd91af",
        "SubnetAvailabilityZone": {
          "Name": "us-east-1d"
        }
      },
      {
        "SubnetStatus": "Active",
        "SubnetIdentifier": "subnet-3605751d",
        "SubnetAvailabilityZone": {
          "Name": "us-east-1b"
        }
      }
    ],
    "VpcId": "vpc-6741a603",
    "SubnetGroupStatus": "Complete",
    "ReplicationSubnetGroupIdentifier": "test-subnet-group"
  }
}
```

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 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](#)

ModifyReplicationTask

Modifies the specified replication task.

You can't modify the task endpoints. The task must be stopped before you can modify it.

Request Syntax

```
{  
  "CdcStartTime": number,  
  "MigrationType": "string",  
  "ReplicationTaskArn": "string",  
  "ReplicationTaskIdentifier": "string",  
  "ReplicationTaskSettings": "string",  
  "TableMappings": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

CdcStartTime (p. 105)

The start time for the Change Data Capture (CDC) operation.

Type: Timestamp

Required: No

MigrationType (p. 105)

The migration type.

Valid values: full-load | cdc | full-load-and-cdc

Type: String

Valid Values: full-load | cdc | full-load-and-cdc

Required: No

ReplicationTaskArn (p. 105)

The Amazon Resource Name (ARN) of the replication task.

Type: String

Required: Yes

ReplicationTaskIdentifier (p. 105)

The replication task identifier.

Constraints:

- Must contain from 1 to 63 alphanumeric characters or hyphens.
- First character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

Type: String

Required: No

ReplicationTaskSettings (p. 105)

JSON file that contains settings for the task, such as target metadata settings.

Type: String

Required: No

TableMappings (p. 105)

The path of the JSON file that contains the table mappings. Precede the path with "file://".

For example, `--table-mappings file://mappingfile.json`

Type: String

Required: No

Response Syntax

```
{
  "ReplicationTask": {
    "LastFailureMessage": "string",
    "MigrationType": "string",
    "ReplicationInstanceArn": "string",
    "ReplicationTaskArn": "string",
    "ReplicationTaskCreationDate": number,
    "ReplicationTaskIdentifier": "string",
    "ReplicationTaskSettings": "string",
    "ReplicationTaskStartDate": number,
    "ReplicationTaskStats": {
      "ElapsedTimeMillis": number,
      "FullLoadProgressPercent": number,
      "TablesErrored": number,
      "TablesLoaded": number,
      "TablesLoading": number,
      "TablesQueued": number
    },
    "SourceEndpointArn": "string",
    "Status": "string",
    "StopReason": "string",
    "TableMappings": "string",
    "TargetEndpointArn": "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.

ReplicationTask (p. 106)

The replication task that was modified.

Type: [ReplicationTask \(p. 138\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.

HTTP Status Code: 400

KMSKeyNotAccessibleFault

AWS DMS cannot access the KMS key.

HTTP Status Code: 400

ResourceAlreadyExistsFault

The resource you are attempting to create already exists.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Example

Sample Request

Sample Response

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 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](#)

RefreshSchemas

Populates the schema for the specified endpoint. This is an asynchronous operation and can take several minutes. You can check the status of this operation by calling the DescribeRefreshSchemasStatus operation.

Request Syntax

```
{
  "EndpointArn": "string",
  "ReplicationInstanceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

EndpointArn (p. 108)

The Amazon Resource Name (ARN) string that uniquely identifies the endpoint.

Type: String

Required: Yes

ReplicationInstanceArn (p. 108)

The Amazon Resource Name (ARN) of the replication instance.

Type: String

Required: Yes

Response Syntax

```
{
  "RefreshSchemasStatus": {
    "EndpointArn": "string",
    "LastFailureMessage": "string",
    "LastRefreshDate": number,
    "ReplicationInstanceArn": "string",
    "Status": "string"
  }
}
```

Response Elements

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

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

RefreshSchemasStatus (p. 108)

The status of the refreshed schema.

Type: [RefreshSchemasStatus](#) (p. 132) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 149).

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.

HTTP Status Code: 400

KMSKeyNotAccessibleFault

AWS DMS cannot access the KMS key.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

ResourceQuotaExceededFault

The quota for this resource quota has been exceeded.

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 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](#)

RemoveTagsFromResource

Removes metadata tags from a DMS resource.

Request Syntax

```
{  
  "ResourceArn": "string",  
  "TagKeys": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

ResourceArn (p. 110)

>The Amazon Resource Name (ARN) of the AWS DMS resource the tag is to be removed from.

Type: String

Required: Yes

TagKeys (p. 110)

The tag key (name) of the tag to be removed.

Type: array of Strings

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. 149).

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1  
Host: dms.<region>.<domain>  
x-amz-Date: <Date>  
Authorization: AWS4-HMAC-SHA256  
Credential=<Credential>,  
SignedHeaders=contenttype;date;host;user-  
agent;x-amz-date;x-amz-target;x-amzn-  
requestid,Signature=<Signature>
```

```
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.RemoveTagsFromResource
{
  "ResourceArn": "arn:aws:dms:us-east-
1:152683116123:rep:PWEBBEUNOLU7VEB2OHTEH4I4GQ",
  "TagKeys": [
    "CostCenter"
  ]
}
```

Sample Response

```
Empty
```

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 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](#)

StartReplicationTask

Starts the replication task.

Request Syntax

```
{  
  "CdcStartTime": number,  
  "ReplicationTaskArn": "string",  
  "StartReplicationTaskType": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

CdcStartTime (p. 112)

The start time for the Change Data Capture (CDC) operation.

Type: Timestamp

Required: No

ReplicationTaskArn (p. 112)

The Amazon Resource Number (ARN) of the replication task to be started.

Type: String

Required: Yes

StartReplicationTaskType (p. 112)

The type of replication task.

Type: String

Valid Values: start-replication | resume-processing | reload-target

Required: Yes

Response Syntax

```
{  
  "ReplicationTask": {  
    "LastFailureMessage": "string",  
    "MigrationType": "string",  
    "ReplicationInstanceArn": "string",  
    "ReplicationTaskArn": "string",  
    "ReplicationTaskCreationDate": number,  
    "ReplicationTaskIdentifier": "string",  
    "ReplicationTaskSettings": "string",  
    "ReplicationTaskStartDate": number,  
    "ReplicationTaskStats": {  
      "ElapsedTimeMillis": number,  
      "FullLoadProgressPercent": number,  
      "TablesErrored": number,  
      "TablesLoaded": number,  
      "TablesLoading": number,  
      "TablesQueued": number  
    }  
  }  
},
```



```
    "SourceEndpointArn": "string",  
    "Status": "string",  
    "StopReason": "string",  
    "TableMappings": "string",  
    "TargetEndpointArn": "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.

ReplicationTask (p. 112)

The replication task started.
Type: [ReplicationTask \(p. 138\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.
HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.
HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1  
Host: dms.<region>.<domain>  
x-amz-Date: <Date>  
Authorization: AWS4-HMAC-SHA256  
Credential=<Credential>,  
SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid,Signature=<Signature>  
User-Agent: <UserAgentString>  
Content-Type: application/x-amz-json-1.1  
Content-Length: <PayloadSizeBytes>  
Connection: Keep-Alive  
X-Amz-Target: AmazonDMSv20160101.StartReplicationTask  
{  
  "ReplicationTaskArn": "arn:aws:dms:us-east-1:152683116123:task:RALPZGYI3IUSJCBKKIRBEURKDY",  
  "StartReplicationTaskType": "reload-target",  
  "CdcStartTime": null  
}
```

Sample Response

```

HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationTask":{
    "SourceEndpointArn": "arn:aws:dms:us-east-1:152683116123:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
    "ReplicationTaskIdentifier": "aks145",
    "ReplicationInstanceArn": "arn:aws:dms:us-east-1:152683116123:rep:6USOU366XFJUWATDJGBCJS3VIQ",
    "TableMappings": "{ \"TableMappings\": [ { \"Type\": \"Include\", \"SourceSchema\": \"testDB\", \"SourceTable\": \"%\" \"}, { \"Type\": \"Include\", \"SourceSchema\": \"testDB\", \"SourceTable\": \"%\" \"} ] }\",
    "ReplicationTaskStartDate": 1457658794.056,
    "Status": "starting",
    "ReplicationTaskArn": "arn:aws:dms:us-east-1:152683116123:task:RALPZGYI3IUSJCBKKIRBEURKDY",
    "ReplicationTaskCreationDate": 1449185680.107,
    "MigrationType": "full-load",
    "TargetEndpointArn": "arn:aws:dms:us-east-1:152683116123:endpoint:GVBUJQXJZASXWHTWCLN2WNT57E",
    "ReplicationTaskSettings": "{ \"TargetMetadata\": { \"TargetSchema\": \"\", \"SupportLobs\": true, \"FullLobMode\": true, \"LobChunkSize\": 64, \"LimitedSizeLobMode\": false, \"LobMaxSize\": 0 }, \"FullLoadSettings\": { \"FullLoadEnabled\": true, \"ApplyChangesEnabled\": true, \"TargetTablePrepMode\": \"DO_NOTHING\", \"CreatePkAfterFullLoad\": false, \"StopTaskCachedChangesApplied\": false, \"StopTaskCachedChangesNotApplied\": false, \"ResumeEnabled\": false, \"ResumeMinTableSize\": 100000, \"ResumeOnlyClusteredPKTables\": true, \"MaxFullLoadSubTasks\": 8, \"TransactionConsistencyTimeout\": 600, \"CommitRate\": 10000 } } }
  }
}

```

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 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](#)

StopReplicationTask

Stops the replication task.

Request Syntax

```
{
  "ReplicationTaskArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 147).

The request accepts the following data in JSON format.

ReplicationTaskArn (p. 116)

The Amazon Resource Number(ARN) of the replication task to be stopped.

Type: String

Required: Yes

Response Syntax

```
{
  "ReplicationTask": {
    "LastFailureMessage": "string",
    "MigrationType": "string",
    "ReplicationInstanceArn": "string",
    "ReplicationTaskArn": "string",
    "ReplicationTaskCreationDate": number,
    "ReplicationTaskIdentifier": "string",
    "ReplicationTaskSettings": "string",
    "ReplicationTaskStartDate": number,
    "ReplicationTaskStats": {
      "ElapsedTimeMillis": number,
      "FullLoadProgressPercent": number,
      "TablesErrored": number,
      "TablesLoaded": number,
      "TablesLoading": number,
      "TablesQueued": number
    },
    "SourceEndpointArn": "string",
    "Status": "string",
    "StopReason": "string",
    "TableMappings": "string",
    "TargetEndpointArn": "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.

ReplicationTask (p. 116)

The replication task stopped.

Type: [ReplicationTask \(p. 138\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256
Credential=<Credential>,
SignedHeaders=contenttype;date;host;user-
agent;x-amz-date;x-amz-target;x-amzn-
requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.StopReplicationTask
{
  "ReplicationTaskArn": "arn:aws:dms:us-east-
1:152683116123:task:OEAMB3NXSTZ6LFYZFEPBBXPYM"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationTask": {
    "SourceEndpointArn": "arn:aws:dms:us-east-
1:152683116123:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
    "ReplicationTaskIdentifier": "task1",
    "ReplicationInstanceArn": "arn:aws:dms:us-east-
```


TestConnection

Tests the connection between the replication instance and the endpoint.

Request Syntax

```
{
  "EndpointArn": "string",
  "ReplicationInstanceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 147\)](#).

The request accepts the following data in JSON format.

EndpointArn (p. 119)

The Amazon Resource Name (ARN) string that uniquely identifies the endpoint.

Type: String

Required: Yes

ReplicationInstanceArn (p. 119)

The Amazon Resource Name (ARN) of the replication instance.

Type: String

Required: Yes

Response Syntax

```
{
  "Connection": {
    "EndpointArn": "string",
    "EndpointIdentifier": "string",
    "LastFailureMessage": "string",
    "ReplicationInstanceArn": "string",
    "ReplicationInstanceIdentifier": "string",
    "Status": "string"
  }
}
```

Response Elements

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

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

Connection (p. 119)

The connection tested.

Type: [Connection \(p. 127\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 149\)](#).

InvalidResourceStateFault

The resource is in a state that prevents it from being used for database migration.

HTTP Status Code: 400

KMSKeyNotAccessibleFault

AWS DMS cannot access the KMS key.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

ResourceQuotaExceededFault

The quota for this resource quota has been exceeded.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: dms.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256
Credential=<Credential>,
SignedHeaders=contenttype;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid,Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AmazonDMSv20160101.TestConnection
{
  "ReplicationInstanceArn": "arn:aws:dms:us-east-1:152683116123:rep:6USOU366XFJUWATDJGBCJS3VIQ",
  "EndpointArn": "arn:aws:dms:us-east-1:152683116123:endpoint:WKBULDZKUDQZIHPOUUSEH34EMU"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "Connection": {
    "Status": "testing",
    "ReplicationInstanceIdentifier": "akshay1",
    "EndpointArn": "arn:aws:dms:us-east-
```



```
1:152683116123:endpoint:WKBULDZKUDQZIHPOUUSEH34EMU",
  "EndpointIdentifier": "akshay",
  "ReplicationInstanceArn": "arn:aws:dms:us-east-
1:152683116123:rep:6USOU366XFJUWATDJGBCJS3VIQ"
}
}
```

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 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 Database 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:

- [AccountQuota](#) (p. 123)
- [AvailabilityZone](#) (p. 124)
- [Certificate](#) (p. 125)
- [Connection](#) (p. 127)
- [Endpoint](#) (p. 128)
- [Filter](#) (p. 130)
- [OrderableReplicationInstance](#) (p. 131)
- [RefreshSchemasStatus](#) (p. 132)
- [ReplicationInstance](#) (p. 133)
- [ReplicationPendingModifiedValues](#) (p. 136)
- [ReplicationSubnetGroup](#) (p. 137)
- [ReplicationTask](#) (p. 138)
- [ReplicationTaskStats](#) (p. 140)
- [Subnet](#) (p. 141)
- [SupportedEndpointType](#) (p. 142)
- [TableStatistics](#) (p. 143)
- [Tag](#) (p. 145)
- [VpcSecurityGroupMembership](#) (p. 146)

AccountQuota

Describes a quota for an AWS account, for example, the number of replication instances allowed.

Contents

AccountQuotaName

The name of the AWS DMS quota for this AWS account.

Type: String

Required: No

Max

The maximum allowed value for the quota.

Type: Long

Required: No

Used

The amount currently used toward the quota maximum.

Type: Long

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](#)

AvailabilityZone

Contents

Name

The name of the availability zone.

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](#)

Certificate

The SSL certificate that can be used to encrypt connections between the endpoints and the replication instance.

Contents

CertificateArn

The Amazon Resource Name (ARN) for the certificate.

Type: String

Required: No

CertificateCreationDate

The date that the certificate was created.

Type: Timestamp

Required: No

CertificateIdentifier

The customer-assigned name of the certificate. Valid characters are A-z and 0-9.

Type: String

Required: No

CertificateOwner

The owner of the certificate.

Type: String

Required: No

CertificatePem

The contents of the .pem X.509 certificate file for the certificate.

Type: String

Required: No

CertificateWallet

The location of the imported Oracle Wallet certificate for use with SSL.

Type: Base64-encoded binary data object

Required: No

KeyLength

The key length of the cryptographic algorithm being used.

Type: Integer

Required: No

SigningAlgorithm

The signing algorithm for the certificate.

Type: String

Required: No

ValidFromDate

The beginning date that the certificate is valid.

Type: Timestamp

Required: No

ValidToDate

The final date that the certificate is valid.

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](#)

Connection

Contents

EndpointArn

The Amazon Resource Name (ARN) string that uniquely identifies the endpoint.

Type: String

Required: No

EndpointIdentifier

The identifier of the endpoint. Identifiers must begin with a letter; must contain only ASCII letters, digits, and hyphens; and must not end with a hyphen or contain two consecutive hyphens.

Type: String

Required: No

LastFailureMessage

The error message when the connection last failed.

Type: String

Required: No

ReplicationInstanceArn

The Amazon Resource Name (ARN) of the replication instance.

Type: String

Required: No

ReplicationInstanceIdentifier

The replication instance identifier. This parameter is stored as a lowercase string.

Type: String

Required: No

Status

The connection status.

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](#)

Endpoint

Contents

CertificateArn

The Amazon Resource Name (ARN) used for SSL connection to the endpoint.

Type: String

Required: No

DatabaseName

The name of the database at the endpoint.

Type: String

Required: No

EndpointArn

The Amazon Resource Name (ARN) string that uniquely identifies the endpoint.

Type: String

Required: No

EndpointIdentifier

The database endpoint identifier. Identifiers must begin with a letter; must contain only ASCII letters, digits, and hyphens; and must not end with a hyphen or contain two consecutive hyphens.

Type: String

Required: No

EndpointType

The type of endpoint.

Type: String

Valid Values: `source` | `target`

Required: No

EngineName

The database engine name. Valid values include MYSQL, ORACLE, POSTGRES, MARIADB, AURORA, REDSHIFT, SYBASE, and SQLSERVER.

Type: String

Required: No

ExtraConnectionAttributes

Additional connection attributes used to connect to the endpoint.

Type: String

Required: No

KmsKeyId

The KMS key identifier that will be used to encrypt the connection parameters. If you do not specify a value for the KmsKeyId parameter, then AWS DMS will use your default encryption key. AWS KMS creates the default encryption key for your AWS account. Your AWS account has a different default encryption key for each AWS region.

Type: String

Required: No

Port

The port value used to access the endpoint.

Type: Integer

Required: No

ServerName

The name of the server at the endpoint.

Type: String

Required: No

SslMode

The SSL mode used to connect to the endpoint.

SSL mode can be one of four values: none, require, verify-ca, verify-full.

The default value is none.

Type: String

Valid Values: none | require | verify-ca | verify-full

Required: No

Status

The status of the endpoint.

Type: String

Required: No

Username

The user name used to connect to the endpoint.

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](#)

Filter

Contents

Name

The name of the filter.

Type: String

Required: Yes

Values

The filter value.

Type: array of Strings

Required: Yes

See Also

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

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

OrderableReplicationInstance

Contents

DefaultAllocatedStorage

The default amount of storage (in gigabytes) that is allocated for the replication instance.

Type: Integer

Required: No

EngineVersion

The version of the replication engine.

Type: String

Required: No

IncludedAllocatedStorage

The amount of storage (in gigabytes) that is allocated for the replication instance.

Type: Integer

Required: No

MaxAllocatedStorage

The minimum amount of storage (in gigabytes) that can be allocated for the replication instance.

Type: Integer

Required: No

MinAllocatedStorage

The minimum amount of storage (in gigabytes) that can be allocated for the replication instance.

Type: Integer

Required: No

ReplicationInstanceClass

The compute and memory capacity of the replication instance.

Valid Values: `dms.t2.micro` | `dms.t2.small` | `dms.t2.medium` | `dms.t2.large` | `dms.c4.large` | `dms.c4.xlarge` | `dms.c4.2xlarge` | `dms.c4.4xlarge`

Type: String

Required: No

StorageType

The type of storage used by the replication instance.

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](#)

RefreshSchemasStatus

Contents

EndpointArn

The Amazon Resource Name (ARN) string that uniquely identifies the endpoint.

Type: String

Required: No

LastFailureMessage

The last failure message for the schema.

Type: String

Required: No

LastRefreshDate

The date the schema was last refreshed.

Type: Timestamp

Required: No

ReplicationInstanceArn

The Amazon Resource Name (ARN) of the replication instance.

Type: String

Required: No

Status

The status of the schema.

Type: String

Valid Values: `successful` | `failed` | `refreshing`

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](#)

ReplicationInstance

Contents

AllocatedStorage

The amount of storage (in gigabytes) that is allocated for the replication instance.

Type: Integer

Required: No

AutoMinorVersionUpgrade

Boolean value indicating if minor version upgrades will be automatically applied to the instance.

Type: Boolean

Required: No

AvailabilityZone

The Availability Zone for the instance.

Type: String

Required: No

EngineVersion

The engine version number of the replication instance.

Type: String

Required: No

InstanceCreateTime

The time the replication instance was created.

Type: Timestamp

Required: No

KmsKeyId

The KMS key identifier that is used to encrypt the content on the replication instance. If you do not specify a value for the `KmsKeyId` parameter, then AWS DMS will use your default encryption key. AWS KMS creates the default encryption key for your AWS account. Your AWS account has a different default encryption key for each AWS region.

Type: String

Required: No

MultiAZ

Specifies if the replication instance is a Multi-AZ deployment. You cannot set the `AvailabilityZone` parameter if the Multi-AZ parameter is set to `true`.

Type: Boolean

Required: No

PendingModifiedValues

The pending modification values.

Type: [ReplicationPendingModifiedValues](#) (p. 136) object

Required: No

PreferredMaintenanceWindow

The maintenance window times for the replication instance.

Type: String

Required: No

PubliclyAccessible

Specifies the accessibility options for the replication instance. A value of `true` represents an instance with a public IP address. A value of `false` represents an instance with a private IP address. The default value is `true`.

Type: Boolean

Required: No

ReplicationInstanceArn

The Amazon Resource Name (ARN) of the replication instance.

Type: String

Required: No

ReplicationInstanceClass

The compute and memory capacity of the replication instance.

Valid Values: `dms.t2.micro` | `dms.t2.small` | `dms.t2.medium` | `dms.t2.large` | `dms.c4.large` | `dms.c4.xlarge` | `dms.c4.2xlarge` | `dms.c4.4xlarge`

Type: String

Required: No

ReplicationInstanceIdentifier

The replication instance identifier. This parameter is stored as a lowercase string.

Constraints:

- Must contain from 1 to 63 alphanumeric characters or hyphens.
- First character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

Example: `myrepinstance`

Type: String

Required: No

ReplicationInstancePrivateIpAddress

The private IP address of the replication instance.

Type: String

Required: No

ReplicationInstancePrivateIpAddresses

The private IP address of the replication instance.

Type: array of Strings

Required: No

ReplicationInstancePublicIpAddress

The public IP address of the replication instance.

Type: String

Required: No

ReplicationInstancePublicIpAddresses

The public IP address of the replication instance.

Type: array of Strings

Required: No

ReplicationInstanceStatus

The status of the replication instance.

Type: String

Required: No

ReplicationSubnetGroup

The subnet group for the replication instance.

Type: [ReplicationSubnetGroup](#) (p. 137) object

Required: No

SecondaryAvailabilityZone

The availability zone of the standby replication instance in a Multi-AZ deployment.

Type: String

Required: No

VpcSecurityGroups

The VPC security group for the instance.

Type: array of [VpcSecurityGroupMembership](#) (p. 146) 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](#)

ReplicationPendingModifiedValues

Contents

AllocatedStorage

The amount of storage (in gigabytes) that is allocated for the replication instance.

Type: Integer

Required: No

EngineVersion

The engine version number of the replication instance.

Type: String

Required: No

MultiAZ

Specifies if the replication instance is a Multi-AZ deployment. You cannot set the `AvailabilityZone` parameter if the Multi-AZ parameter is set to `true`.

Type: Boolean

Required: No

ReplicationInstanceClass

The compute and memory capacity of the replication instance.

Valid Values: `dms.t2.micro` | `dms.t2.small` | `dms.t2.medium` | `dms.t2.large` | `dms.c4.large` | `dms.c4.xlarge` | `dms.c4.2xlarge` | `dms.c4.4xlarge`

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](#)

ReplicationSubnetGroup

Contents

ReplicationSubnetGroupDescription

The description of the replication subnet group.

Type: String

Required: No

ReplicationSubnetGroupIdentifier

The identifier of the replication instance subnet group.

Type: String

Required: No

SubnetGroupStatus

The status of the subnet group.

Type: String

Required: No

Subnets

The subnets that are in the subnet group.

Type: array of [Subnet \(p. 141\)](#) objects

Required: No

VpcId

The ID of the VPC.

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](#)

ReplicationTask

Contents

LastFailureMessage

The last error (failure) message generated for the replication instance.

Type: String

Required: No

MigrationType

The type of migration.

Type: String

Valid Values: `full-load` | `cdc` | `full-load-and-cdc`

Required: No

ReplicationInstanceArn

The Amazon Resource Name (ARN) of the replication instance.

Type: String

Required: No

ReplicationTaskArn

The Amazon Resource Name (ARN) of the replication task.

Type: String

Required: No

ReplicationTaskCreationDate

The date the replication task was created.

Type: Timestamp

Required: No

ReplicationTaskIdentifier

The replication task identifier.

Constraints:

- Must contain from 1 to 63 alphanumeric characters or hyphens.
- First character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

Type: String

Required: No

ReplicationTaskSettings

The settings for the replication task.

Type: String

Required: No

ReplicationTaskStartDate

The date the replication task is scheduled to start.

Type: Timestamp

Required: No

ReplicationTaskStats

The statistics for the task, including elapsed time, tables loaded, and table errors.

Type: [ReplicationTaskStats](#) (p. 140) object

Required: No

SourceEndpointArn

The Amazon Resource Name (ARN) string that uniquely identifies the endpoint.

Type: String

Required: No

Status

The status of the replication task.

Type: String

Required: No

StopReason

The reason the replication task was stopped.

Type: String

Required: No

TableMappings

Table mappings specified in the task.

Type: String

Required: No

TargetEndpointArn

The Amazon Resource Name (ARN) string that uniquely identifies the endpoint.

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](#)

ReplicationTaskStats

Contents

ElapsedTimeMillis

The elapsed time of the task, in milliseconds.

Type: Long

Required: No

FullLoadProgressPercent

The percent complete for the full load migration task.

Type: Integer

Required: No

TablesErrored

The number of errors that have occurred during this task.

Type: Integer

Required: No

TablesLoaded

The number of tables loaded for this task.

Type: Integer

Required: No

TablesLoading

The number of tables currently loading for this task.

Type: Integer

Required: No

TablesQueued

The number of tables queued for this task.

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](#)

Subnet

Contents

SubnetAvailabilityZone

The Availability Zone of the subnet.

Type: [AvailabilityZone](#) (p. 124) object

Required: No

SubnetIdentifier

The subnet identifier.

Type: String

Required: No

SubnetStatus

The status of the subnet.

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](#)

SupportedEndpointType

Contents

EndpointType

The type of endpoint.

Type: String

Valid Values: `source` | `target`

Required: No

EngineName

The database engine name. Valid values include MYSQL, ORACLE, POSTGRES, MARIADB, AURORA, REDSHIFT, SYBASE, and SQLSERVER.

Type: String

Required: No

SupportsCDC

Indicates if Change Data Capture (CDC) is supported.

Type: Boolean

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](#)

TableStatistics

Contents

Ddls

The Data Definition Language (DDL) used to build and modify the structure of your tables.

Type: Long

Required: No

Deletes

The number of delete actions performed on a table.

Type: Long

Required: No

FullLoadRows

The number of rows added during the Full Load operation.

Type: Long

Required: No

Inserts

The number of insert actions performed on a table.

Type: Long

Required: No

LastUpdateTime

The last time the table was updated.

Type: Timestamp

Required: No

SchemaName

The schema name.

Type: String

Required: No

TableName

The name of the table.

Type: String

Required: No

TableState

The state of the table.

Type: String

Required: No

Updates

The number of update actions performed on a table.

Type: Long

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

Contents

Key

A key is the required name of the tag. The string value can be from 1 to 128 Unicode characters in length and cannot be prefixed with "aws:" or "dms:". The string can only contain only the set of Unicode letters, digits, white-space, '_', '.', '/', '=', '+', '-' (Java regex: "`^\p{L}\p{Z}\p{N}_./=+\-]*$`").

Type: String

Required: No

Value

A value is the optional value of the tag. The string value can be from 1 to 256 Unicode characters in length and cannot be prefixed with "aws:" or "dms:". The string can only contain only the set of Unicode letters, digits, white-space, '_', '.', '/', '=', '+', '-' (Java regex: "`^\p{L}\p{Z}\p{N}_./=+\-]*$`").

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](#)

VpcSecurityGroupMembership

Contents

Status

The status of the VPC security group.

Type: String

Required: No

VpcSecurityGroupId

The VPC security group Id.

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 table lists the parameters that all actions use for signing Signature Version 4 requests. Any action-specific parameters are listed in the topic for that action. To view sample requests, see [Examples of Signed Signature Version 4 Requests](#) or [Signature Version 4 Test Suite](#) 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'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service. For a list of services that support AWS Security Token Service, go to [Using Temporary Security Credentials to Access AWS](#) in *Using Temporary Security Credentials*.

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 common errors that all actions return. Any action-specific errors are listed in the topic for the action.

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

Throttling

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