aws

API Reference

AWS Database Migration Service

API Version 2016-01-01

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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.

For more information about AWS DMS, see What Is AWS Database Migration Service? in the *AWS Database Migration Service User Guide.*

This document was last published on July 2, 2024.

Actions

The following actions are supported:

- AddTagsToResource
- ApplyPendingMaintenanceAction
- BatchStartRecommendations
- CancelReplicationTaskAssessmentRun
- CreateDataProvider
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AddTagsToResource

Adds metadata tags to an AWS DMS resource, including replication instance, endpoint, subnet 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. For more information, see Tag data type description.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

ResourceArn

Identifies the AWS DMS resource to which tags should be added. The value for this parameter is an Amazon Resource Name (ARN).

For AWS DMS, you can tag a replication instance, an endpoint, or a replication task.

Type: String

Required: Yes

Tags

One or more tags to be assigned to the resource.

Type: Array of Tag 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.

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of AddTagsToResource.

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-
          1:123456789012: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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ApplyPendingMaintenanceAction

Applies a pending maintenance action to a resource (for example, to a replication instance).

Request Syntax

```
{
   "ApplyAction": "string",
   "OptInType": "string",
   "ReplicationInstanceArn": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ApplyAction

The pending maintenance action to apply to this resource.

Valid values: `os-upgrade`, `system-update`, `db-upgrade`

Type: String

Required: Yes

OptInType

A value that specifies the type of opt-in request, or undoes an opt-in request. You can't undo an opt-in request of type `immediate`.

Valid values:

- `immediate` - Apply the maintenance action immediately.
- `next-maintenance` - Apply the maintenance action during the next maintenance window for the resource.
- `undo-opt-in` - Cancel any existing `next-maintenance` opt-in requests.

Type: String

Required: Yes

ReplicationInstanceArn

The Amazon Resource Name (ARN) of the AWS DMS resource that the pending maintenance action applies to.

Type: String

Required: Yes

Response Syntax

```
{
   "ResourcePendingMaintenanceActions": {
      "PendingMaintenanceActionDetails": [
         {
            "Action": "string",
            "AutoAppliedAfterDate": number,
            "CurrentApplyDate": number,
            "Description": "string",
            "ForcedApplyDate": number,
            "OptInStatus": "string"
         }
      ],
      "ResourceIdentifier": "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.

ResourcePendingMaintenanceActions

The AWS DMS resource that the pending maintenance action will be applied to.

Type: ResourcePendingMaintenanceActions object

Errors

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

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchStartRecommendations

Starts the analysis of up to 20 source databases to recommend target engines for each source database. This is a batch version of StartRecommendations.

The result of analysis of each source database is reported individually in the response. Because the batch request can result in a combination of successful and unsuccessful actions, you should check for batch errors even when the call returns an HTTP status code of `200`.

Request Syntax

```
{
   "Data": [
      {
         "DatabaseId": "string",
         "Settings": {
            "InstanceSizingType": "string",
            "WorkloadType": "string"
         }
      }
   ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Data

Provides information about source databases to analyze. After this analysis, Fleet Advisor recommends target engines for each source database.

Type: Array of StartRecommendationsRequestEntry objects

Required: No

Response Syntax

```
{
```

```
   "ErrorEntries": [
      {
         "Code": "string",
         "DatabaseId": "string",
         "Message": "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.

ErrorEntries

A list with error details about the analysis of each source database.

Type: Array of BatchStartRecommendationsErrorEntry objects

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

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 .NET
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- AWS SDK for Ruby V3

CancelReplicationTaskAssessmentRun

Cancels a single premigration assessment run.

This operation prevents any individual assessments from running if they haven't started running. It also attempts to cancel any individual assessments that are currently running.

Request Syntax

```
{
   "ReplicationTaskAssessmentRunArn": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ReplicationTaskAssessmentRunArn

Amazon Resource Name (ARN) of the premigration assessment run to be canceled.

Type: String

Required: Yes

Response Syntax

```
{
   "ReplicationTaskAssessmentRun": {
      "AssessmentProgress": {
         "IndividualAssessmentCompletedCount": number,
         "IndividualAssessmentCount": number
      },
      "AssessmentRunName": "string",
      "LastFailureMessage": "string",
      "ReplicationTaskArn": "string",
      "ReplicationTaskAssessmentRunArn": "string",
      "ReplicationTaskAssessmentRunCreationDate": number,
```

```
      "ResultEncryptionMode": "string",
      "ResultKmsKeyArn": "string",
      "ResultLocationBucket": "string",
      "ResultLocationFolder": "string",
      "ServiceAccessRoleArn": "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.

ReplicationTaskAssessmentRun

The `ReplicationTaskAssessmentRun` object for the canceled assessment run.

Type: ReplicationTaskAssessmentRun object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

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

Examples

Example

This example illustrates one usage of CancelReplicationTaskAssessmentRun.

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.CancelReplicationTaskAssessmentRun
{
  "ReplicationTaskAssessmentRunArn": "arn:aws:dms:us-west-2:123456789012:assessment-
run:G7C26HZ4A3CRB6DJKIMT4RDSHCIGP4T4BHOMHRA"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationTaskAssessmentRun": {
    "AssessmentProgress": {
      "IndividualAssessmentCompletedCount": 0,
      "IndividualAssessmentCount": 3
    },
    "AssessmentRunName": "Assessment-run-2020-07-10-17-49-37",
```

```
    "ReplicationTaskArn": "arn:aws:dms:us-
west-2:123456789012:task:L6XROPGLRF25LCREVEDPT3XL5QJM5IZNUSVFV6Q",
    "ReplicationTaskAssessmentRunArn": "arn:aws:dms:us-west-2:123456789012:assessment-
run:G7C26HZ4A3CRB6DJKIMT4RDSHCIGP4T4BHOMHRA",
    "ReplicationTaskAssessmentRunCreationDate": 1594428591.99,
    "ResultEncryptionMode": "NONE",
    "ResultLocationBucket": "s3-endpoint-bucket",
    "ResultLocationFolder": "",
    "ServiceAccessRoleArn": "arn:aws:iam::123456789012:role/Admin",
    "Status": "cancelling"
  }
}
```

See Also

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

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

CreateDataProvider

Creates a data provider using the provided settings. A data provider stores a data store type and location information about your database.

Request Syntax

```
{
   "DataProviderName": "string",
   "Description": "string",
   "Engine": "string",
   "Settings": { ... },
   "Tags": [
      {
         "Key": "string",
         "ResourceArn": "string",
         "Value": "string"
      }
   ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

DataProviderName

A user-friendly name for the data provider.

Type: String

Required: No

Description

A user-friendly description of the data provider.

Type: String

Required: No

Engine

The type of database engine for the data provider. Valid values include "aurora", "aurora-postgresql", "mysql", "oracle", "postgres", "sqlserver", redshift, mariadb, mongodb, and docdb. A value of "aurora" represents Amazon Aurora MySQL-Compatible Edition.

Type: String

Required: Yes

Settings

The settings in JSON format for a data provider.

Type: DataProviderSettings object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Tags

One or more tags to be assigned to the data provider.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
   "DataProvider": {
      "DataProviderArn": "string",
      "DataProviderCreationTime": "string",
      "DataProviderName": "string",
      "Description": "string",
      "Engine": "string",
      "Settings": { ... }
   }
}
```

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.

DataProvider

The data provider that was created.

Type: DataProvider object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

ResourceAlreadyExistsFault

The resource you are attempting to create already exists.

HTTP Status Code: 400

ResourceQuotaExceededFault

The quota for this resource quota has been exceeded.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of CreateDataProvider.

Sample Request

```
{
```

```
        "DataProviderName": "sqlServer-dev",
        "Engine": "sqlserver",
        "Description": "description",
        "Settings": {
                "MicrosoftSqlServerSettings": {
                        "ServerName": "ServerName2",
                        "Port": 11112,
                        "DatabaseName": "DatabaseName",
                        "SslMode": "none"
                }
        },
        "Tags": [
                {
                    "Key": "access",
                    "Value": "authorizedusers"
                }
        ]
}
```

See Also

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

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

CreateEndpoint

Creates an endpoint using the provided settings.

> **Note**
>
> For a MySQL source or target endpoint, don't explicitly specify the database using the `DatabaseName` request parameter on the `CreateEndpoint` API call. Specifying `DatabaseName` when you create a MySQL endpoint replicates all the task tables to this single database. For MySQL endpoints, you specify the database only when you specify the schema in the table-mapping rules of the AWS DMS task.

Request Syntax

```
{
   "CertificateArn": "string",
   "DatabaseName": "string",
   "DmsTransferSettings": {
      "BucketName": "string",
      "ServiceAccessRoleArn": "string"
   },
   "DocDbSettings": {
      "DatabaseName": "string",
      "DocsToInvestigate": number,
      "ExtractDocId": boolean,
      "KmsKeyId": "string",
      "NestingLevel": "string",
      "Password": "string",
      "Port": number,
      "ReplicateShardCollections": boolean,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "Username": "string",
      "UseUpdateLookUp": boolean
   },
   "DynamoDbSettings": {
      "ServiceAccessRoleArn": "string"
   },
   "ElasticsearchSettings": {
```

```
      "EndpointUri": "string",
      "ErrorRetryDuration": number,
      "FullLoadErrorPercentage": number,
      "ServiceAccessRoleArn": "string",
      "UseNewMappingType": boolean
   },
   "EndpointIdentifier": "string",
   "EndpointType": "string",
   "EngineName": "string",
   "ExternalTableDefinition": "string",
   "ExtraConnectionAttributes": "string",
   "GcpMySQLSettings": {
      "AfterConnectScript": "string",
      "CleanSourceMetadataOnMismatch": boolean,
      "DatabaseName": "string",
      "EventsPollInterval": number,
      "MaxFileSize": number,
      "ParallelLoadThreads": number,
      "Password": "string",
      "Port": number,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "ServerTimezone": "string",
      "TargetDbType": "string",
      "Username": "string"
   },
   "IBMDb2Settings": {
      "CurrentLsn": "string",
      "DatabaseName": "string",
      "KeepCsvFiles": boolean,
      "LoadTimeout": number,
      "MaxFileSize": number,
      "MaxKBytesPerRead": number,
      "Password": "string",
      "Port": number,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "SetDataCaptureChanges": boolean,
      "Username": "string",
      "WriteBufferSize": number
   },
   "KafkaSettings": {
```

```
      "Broker": "string",
      "IncludeControlDetails": boolean,
      "IncludeNullAndEmpty": boolean,
      "IncludePartitionValue": boolean,
      "IncludeTableAlterOperations": boolean,
      "IncludeTransactionDetails": boolean,
      "MessageFormat": "string",
      "MessageMaxBytes": number,
      "NoHexPrefix": boolean,
      "PartitionIncludeSchemaTable": boolean,
      "SaslMechanism": "string",
      "SaslPassword": "string",
      "SaslUsername": "string",
      "SecurityProtocol": "string",
      "SslCaCertificateArn": "string",
      "SslClientCertificateArn": "string",
      "SslClientKeyArn": "string",
      "SslClientKeyPassword": "string",
      "SslEndpointIdentificationAlgorithm": "string",
      "Topic": "string"
   },
   "KinesisSettings": {
      "IncludeControlDetails": boolean,
      "IncludeNullAndEmpty": boolean,
      "IncludePartitionValue": boolean,
      "IncludeTableAlterOperations": boolean,
      "IncludeTransactionDetails": boolean,
      "MessageFormat": "string",
      "NoHexPrefix": boolean,
      "PartitionIncludeSchemaTable": boolean,
      "ServiceAccessRoleArn": "string",
      "StreamArn": "string"
   },
   "KmsKeyId": "string",
   "MicrosoftSQLServerSettings": {
      "BcpPacketSize": number,
      "ControlTablesFileGroup": "string",
      "DatabaseName": "string",
      "ForceLobLookup": boolean,
      "Password": "string",
      "Port": number,
      "QuerySingleAlwaysOnNode": boolean,
      "ReadBackupOnly": boolean,
      "SafeguardPolicy": "string",
```

```
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "TlogAccessMode": "string",
      "TrimSpaceInChar": boolean,
      "UseBcpFullLoad": boolean,
      "Username": "string",
      "UseThirdPartyBackupDevice": boolean
   },
   "MongoDbSettings": {
      "AuthMechanism": "string",
      "AuthSource": "string",
      "AuthType": "string",
      "DatabaseName": "string",
      "DocsToInvestigate": "string",
      "ExtractDocId": "string",
      "KmsKeyId": "string",
      "NestingLevel": "string",
      "Password": "string",
      "Port": number,
      "ReplicateShardCollections": boolean,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "Username": "string",
      "UseUpdateLookUp": boolean
   },
   "MySQLSettings": {
      "AfterConnectScript": "string",
      "CleanSourceMetadataOnMismatch": boolean,
      "DatabaseName": "string",
      "EventsPollInterval": number,
      "ExecuteTimeout": number,
      "MaxFileSize": number,
      "ParallelLoadThreads": number,
      "Password": "string",
      "Port": number,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "ServerTimezone": "string",
      "TargetDbType": "string",
      "Username": "string"
   },
```

```
   "NeptuneSettings": {
      "ErrorRetryDuration": number,
      "IamAuthEnabled": boolean,
      "MaxFileSize": number,
      "MaxRetryCount": number,
      "S3BucketFolder": "string",
      "S3BucketName": "string",
      "ServiceAccessRoleArn": "string"
   },
   "OracleSettings": {
      "AccessAlternateDirectly": boolean,
      "AdditionalArchivedLogDestId": number,
      "AddSupplementalLogging": boolean,
      "AllowSelectNestedTables": boolean,
      "ArchivedLogDestId": number,
      "ArchivedLogsOnly": boolean,
      "AsmPassword": "string",
      "AsmServer": "string",
      "AsmUser": "string",
      "CharLengthSemantics": "string",
      "ConvertTimestampWithZoneToUTC": boolean,
      "DatabaseName": "string",
      "DirectPathNoLog": boolean,
      "DirectPathParallelLoad": boolean,
      "EnableHomogenousTablespace": boolean,
      "ExtraArchivedLogDestIds": [ number ],
      "FailTasksOnLobTruncation": boolean,
      "NumberDatatypeScale": number,
      "OpenTransactionWindow": number,
      "OraclePathPrefix": "string",
      "ParallelAsmReadThreads": number,
      "Password": "string",
      "Port": number,
      "ReadAheadBlocks": number,
      "ReadTableSpaceName": boolean,
      "ReplacePathPrefix": boolean,
      "RetryInterval": number,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerOracleAsmAccessRoleArn": "string",
      "SecretsManagerOracleAsmSecretId": "string",
      "SecretsManagerSecretId": "string",
      "SecurityDbEncryption": "string",
      "SecurityDbEncryptionName": "string",
      "ServerName": "string",
```

```
      "SpatialDataOptionToGeoJsonFunctionName": "string",
      "StandbyDelayTime": number,
      "TrimSpaceInChar": boolean,
      "UseAlternateFolderForOnline": boolean,
      "UseBFile": boolean,
      "UseDirectPathFullLoad": boolean,
      "UseLogminerReader": boolean,
      "UsePathPrefix": "string",
      "Username": "string"
   },
   "Password": "string",
   "Port": number,
   "PostgreSQLSettings": {
      "AfterConnectScript": "string",
      "BabelfishDatabaseName": "string",
      "CaptureDdls": boolean,
      "DatabaseMode": "string",
      "DatabaseName": "string",
      "DdlArtifactsSchema": "string",
      "ExecuteTimeout": number,
      "FailTasksOnLobTruncation": boolean,
      "HeartbeatEnable": boolean,
      "HeartbeatFrequency": number,
      "HeartbeatSchema": "string",
      "MapBooleanAsBoolean": boolean,
      "MapJsonbAsClob": boolean,
      "MapLongVarcharAs": "string",
      "MaxFileSize": number,
      "Password": "string",
      "PluginName": "string",
      "Port": number,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "SlotName": "string",
      "TrimSpaceInChar": boolean,
      "Username": "string"
   },
   "RedisSettings": {
      "AuthPassword": "string",
      "AuthType": "string",
      "AuthUserName": "string",
      "Port": number,
      "ServerName": "string",
```

```
      "SslCaCertificateArn": "string",
      "SslSecurityProtocol": "string"
   },
   "RedshiftSettings": {
      "AcceptAnyDate": boolean,
      "AfterConnectScript": "string",
      "BucketFolder": "string",
      "BucketName": "string",
      "CaseSensitiveNames": boolean,
      "CompUpdate": boolean,
      "ConnectionTimeout": number,
      "DatabaseName": "string",
      "DateFormat": "string",
      "EmptyAsNull": boolean,
      "EncryptionMode": "string",
      "ExplicitIds": boolean,
      "FileTransferUploadStreams": number,
      "LoadTimeout": number,
      "MapBooleanAsBoolean": boolean,
      "MaxFileSize": number,
      "Password": "string",
      "Port": number,
      "RemoveQuotes": boolean,
      "ReplaceChars": "string",
      "ReplaceInvalidChars": "string",
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "ServerSideEncryptionKmsKeyId": "string",
      "ServiceAccessRoleArn": "string",
      "TimeFormat": "string",
      "TrimBlanks": boolean,
      "TruncateColumns": boolean,
      "Username": "string",
      "WriteBufferSize": number
   },
   "ResourceIdentifier": "string",
   "S3Settings": {
      "AddColumnName": boolean,
      "AddTrailingPaddingCharacter": boolean,
      "BucketFolder": "string",
      "BucketName": "string",
      "CannedAclForObjects": "string",
      "CdcInsertsAndUpdates": boolean,
```

```
      "CdcInsertsOnly": boolean,
      "CdcMaxBatchInterval": number,
      "CdcMinFileSize": number,
      "CdcPath": "string",
      "CompressionType": "string",
      "CsvDelimiter": "string",
      "CsvNoSupValue": "string",
      "CsvNullValue": "string",
      "CsvRowDelimiter": "string",
      "DataFormat": "string",
      "DataPageSize": number,
      "DatePartitionDelimiter": "string",
      "DatePartitionEnabled": boolean,
      "DatePartitionSequence": "string",
      "DatePartitionTimezone": "string",
      "DictPageSizeLimit": number,
      "EnableStatistics": boolean,
      "EncodingType": "string",
      "EncryptionMode": "string",
      "ExpectedBucketOwner": "string",
      "ExternalTableDefinition": "string",
      "GlueCatalogGeneration": boolean,
      "IgnoreHeaderRows": number,
      "IncludeOpForFullLoad": boolean,
      "MaxFileSize": number,
      "ParquetTimestampInMillisecond": boolean,
      "ParquetVersion": "string",
      "PreserveTransactions": boolean,
      "Rfc4180": boolean,
      "RowGroupLength": number,
      "ServerSideEncryptionKmsKeyId": "string",
      "ServiceAccessRoleArn": "string",
      "TimestampColumnName": "string",
      "UseCsvNoSupValue": boolean,
      "UseTaskStartTimeForFullLoadTimestamp": boolean
   },
   "ServerName": "string",
   "ServiceAccessRoleArn": "string",
   "SslMode": "string",
   "SybaseSettings": {
      "DatabaseName": "string",
      "Password": "string",
      "Port": number,
      "SecretsManagerAccessRoleArn": "string",
```

```
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "Username": "string"
   },
   "Tags": [
      {
         "Key": "string",
         "ResourceArn": "string",
         "Value": "string"
      }
   ],
   "TimestreamSettings": {
      "CdcInsertsAndUpdates": boolean,
      "DatabaseName": "string",
      "EnableMagneticStoreWrites": boolean,
      "MagneticDuration": number,
      "MemoryDuration": number
   },
   "Username": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

CertificateArn

The Amazon Resource Name (ARN) for the certificate.

Type: String

Required: No

DatabaseName

The name of the endpoint database. For a MySQL source or target endpoint, do not specify DatabaseName. To migrate to a specific database, use this setting and `targetDbType`.

Type: String

Required: No

DmsTransferSettings

The settings in JSON format for the DMS transfer type of source endpoint.

Possible settings include the following:

- `ServiceAccessRoleArn` - The Amazon Resource Name (ARN) used by the service access IAM role. The role must allow the `iam:PassRole` action.
- `BucketName` - The name of the S3 bucket to use.

Shorthand syntax for these settings is as follows: `ServiceAccessRoleArn=string,BucketName=string`

JSON syntax for these settings is as follows: `{ "ServiceAccessRoleArn": "string", "BucketName": "string", }`

Type: DmsTransferSettings object

Required: No

DocDbSettings

Provides information that defines a DocumentDB endpoint.

Type: DocDbSettings object

Required: No

DynamoDbSettings

Settings in JSON format for the target Amazon DynamoDB endpoint. For information about other available settings, see Using Object Mapping to Migrate Data to DynamoDB in the *AWS Database Migration Service User Guide.*

Type: DynamoDbSettings object

Required: No

ElasticsearchSettings

Settings in JSON format for the target OpenSearch endpoint. For more information about the available settings, see Extra Connection Attributes When Using OpenSearch as a Target for AWS DMS in the *AWS Database Migration Service User Guide*.

Type: ElasticsearchSettings object

Required: No

EndpointIdentifier

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

Type: String

Required: Yes

EndpointType

The type of endpoint. Valid values are `source` and `target`.

Type: String

Valid Values: `source | target`

Required: Yes

EngineName

The type of engine for the endpoint. Valid values, depending on the EndpointType value, include `"mysql"`, `"oracle"`, `"postgres"`, `"mariadb"`, `"aurora"`, `"aurora-postgresql"`, `"opensearch"`, `"redshift"`, `"s3"`, `"db2"`, `"db2-zos"`, `"azuredb"`, `"sybase"`, `"dynamodb"`, `"mongodb"`, `"kinesis"`, `"kafka"`, `"elasticsearch"`, `"docdb"`, `"sqlserver"`, `"neptune"`, `"babelfish"`, `redshift-serverless`, `aurora-serverless`, `aurora-postgresql-serverless`, `gcp-mysql`, `azure-sql-managed-instance`, `redis`, `dms-transfer`.

Type: String

Required: Yes

ExternalTableDefinition

The external table definition.

Type: String

Required: No

ExtraConnectionAttributes

Additional attributes associated with the connection. Each attribute is specified as a name-value pair associated by an equal sign (=). Multiple attributes are separated by a semicolon (;) with no additional white space. For information on the attributes available for connecting your source or target endpoint, see Working with AWS DMS Endpoints in the *AWS Database Migration Service User Guide.*

Type: String

Required: No

GcpMySQLSettings

Settings in JSON format for the source GCP MySQL endpoint.

Type: GcpMySQLSettings object

Required: No

IBMDb2Settings

Settings in JSON format for the source IBM Db2 LUW endpoint. For information about other available settings, see Extra connection attributes when using Db2 LUW as a source for AWS DMS in the *AWS Database Migration Service User Guide.*

Type: IBMDb2Settings object

Required: No

KafkaSettings

Settings in JSON format for the target Apache Kafka endpoint. For more information about the available settings, see Using object mapping to migrate data to a Kafka topic in the *AWS Database Migration Service User Guide.*

Type: KafkaSettings object

Required: No

KinesisSettings

Settings in JSON format for the target endpoint for Amazon Kinesis Data Streams. For more information about the available settings, see Using object mapping to migrate data to a Kinesis data stream in the *AWS Database Migration Service User Guide.*

Type: KinesisSettings object

Required: No

KmsKeyId

An AWS KMS key identifier that is used to encrypt the connection parameters for the endpoint.

If you don't specify a value for the `KmsKeyId` parameter, then AWS DMS uses 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

MicrosoftSQLServerSettings

Settings in JSON format for the source and target Microsoft SQL Server endpoint. For information about other available settings, see Extra connection attributes when using SQL Server as a source for AWS DMS and Extra connection attributes when using SQL Server as a target for AWS DMS in the *AWS Database Migration Service User Guide.*

Type: MicrosoftSQLServerSettings object

Required: No

MongoDbSettings

Settings in JSON format for the source MongoDB endpoint. For more information about the available settings, see Endpoint configuration settings when using MongoDB as a source for AWS Database Migration Service in the *AWS Database Migration Service User Guide.*

Type: MongoDbSettings object

Required: No

MySQLSettings

Settings in JSON format for the source and target MySQL endpoint. For information about other available settings, see Extra connection attributes when using MySQL as a source for AWS DMS and Extra connection attributes when using a MySQL-compatible database as a target for AWS DMS in the *AWS Database Migration Service User Guide.*

Type: MySQLSettings object

Required: No

NeptuneSettings

Settings in JSON format for the target Amazon Neptune endpoint. For more information about the available settings, see Specifying graph-mapping rules using Gremlin and R2RML for Amazon Neptune as a target in the *AWS Database Migration Service User Guide.*

Type: NeptuneSettings object

Required: No

OracleSettings

Settings in JSON format for the source and target Oracle endpoint. For information about other available settings, see Extra connection attributes when using Oracle as a source for AWS DMS and Extra connection attributes when using Oracle as a target for AWS DMS in the *AWS Database Migration Service User Guide.*

Type: OracleSettings object

Required: No

Password

The password to be used to log in to the endpoint database.

Type: String

Required: No

Port

The port used by the endpoint database.

Type: Integer

Required: No

PostgreSQLSettings

Settings in JSON format for the source and target PostgreSQL endpoint. For information about other available settings, see Extra connection attributes when using PostgreSQL as a source for

AWS DMS and Extra connection attributes when using PostgreSQL as a target for AWS DMS in the *AWS Database Migration Service User Guide.*

Type: PostgreSQLSettings object

Required: No

RedisSettings

Settings in JSON format for the target Redis endpoint.

Type: RedisSettings object

Required: No

RedshiftSettings

Provides information that defines an Amazon Redshift endpoint.

Type: RedshiftSettings object

Required: No

ResourceIdentifier

A friendly name for the resource identifier at the end of the `EndpointArn` response parameter that is returned in the created `Endpoint` object. The value for this parameter can have up to 31 characters. It can contain only ASCII letters, digits, and hyphen ('-'). Also, it can't end with a hyphen or contain two consecutive hyphens, and can only begin with a letter, such as `Example-App-ARN1`. For example, this value might result in the `EndpointArn` value `arn:aws:dms:eu-west-1:012345678901:rep:Example-App-ARN1`. If you don't specify a `ResourceIdentifier` value, AWS DMS generates a default identifier value for the end of `EndpointArn`.

Type: String

Required: No

S3Settings

Settings in JSON format for the target Amazon S3 endpoint. For more information about the available settings, see Extra Connection Attributes When Using Amazon S3 as a Target for AWS DMS in the *AWS Database Migration Service User Guide.*

Type: S3Settings object

Required: No

ServerName

The name of the server where the endpoint database resides.

Type: String

Required: No

ServiceAccessRoleArn

The Amazon Resource Name (ARN) for the service access role that you want to use to create the endpoint. The role must allow the `iam:PassRole` action.

Type: String

Required: No

SslMode

The Secure Sockets Layer (SSL) mode to use for the SSL connection. The default is none

Type: String

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

Required: No

SybaseSettings

Settings in JSON format for the source and target SAP ASE endpoint. For information about other available settings, see Extra connection attributes when using SAP ASE as a source for AWS DMS and Extra connection attributes when using SAP ASE as a target for AWS DMS in the *AWS Database Migration Service User Guide.*

Type: SybaseSettings object

Required: No

Tags

One or more tags to be assigned to the endpoint.

Type: Array of Tag objects

Required: No

TimestreamSettings

Settings in JSON format for the target Amazon Timestream endpoint.

Type: TimestreamSettings object

Required: No

Username

The user name to be used to log in to the endpoint database.

Type: String

Required: No

Response Syntax

```
{
   "Endpoint": {
      "CertificateArn": "string",
      "DatabaseName": "string",
      "DmsTransferSettings": {
         "BucketName": "string",
         "ServiceAccessRoleArn": "string"
      },
      "DocDbSettings": {
         "DatabaseName": "string",
         "DocsToInvestigate": number,
         "ExtractDocId": boolean,
         "KmsKeyId": "string",
         "NestingLevel": "string",
         "Password": "string",
         "Port": number,
         "ReplicateShardCollections": boolean,
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerSecretId": "string",
         "ServerName": "string",
         "Username": "string",
         "UseUpdateLookUp": boolean
      },
      "DynamoDbSettings": {
         "ServiceAccessRoleArn": "string"
      },
```

```
      "ElasticsearchSettings": {
         "EndpointUri": "string",
         "ErrorRetryDuration": number,
         "FullLoadErrorPercentage": number,
         "ServiceAccessRoleArn": "string",
         "UseNewMappingType": boolean
      },
      "EndpointArn": "string",
      "EndpointIdentifier": "string",
      "EndpointType": "string",
      "EngineDisplayName": "string",
      "EngineName": "string",
      "ExternalId": "string",
      "ExternalTableDefinition": "string",
      "ExtraConnectionAttributes": "string",
      "GcpMySQLSettings": {
         "AfterConnectScript": "string",
         "CleanSourceMetadataOnMismatch": boolean,
         "DatabaseName": "string",
         "EventsPollInterval": number,
         "MaxFileSize": number,
         "ParallelLoadThreads": number,
         "Password": "string",
         "Port": number,
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerSecretId": "string",
         "ServerName": "string",
         "ServerTimezone": "string",
         "TargetDbType": "string",
         "Username": "string"
      },
      "IBMDb2Settings": {
         "CurrentLsn": "string",
         "DatabaseName": "string",
         "KeepCsvFiles": boolean,
         "LoadTimeout": number,
         "MaxFileSize": number,
         "MaxKBytesPerRead": number,
         "Password": "string",
         "Port": number,
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerSecretId": "string",
         "ServerName": "string",
         "SetDataCaptureChanges": boolean,
```

```
      "Username": "string",
      "WriteBufferSize": number
   },
   "KafkaSettings": {
      "Broker": "string",
      "IncludeControlDetails": boolean,
      "IncludeNullAndEmpty": boolean,
      "IncludePartitionValue": boolean,
      "IncludeTableAlterOperations": boolean,
      "IncludeTransactionDetails": boolean,
      "MessageFormat": "string",
      "MessageMaxBytes": number,
      "NoHexPrefix": boolean,
      "PartitionIncludeSchemaTable": boolean,
      "SaslMechanism": "string",
      "SaslPassword": "string",
      "SaslUsername": "string",
      "SecurityProtocol": "string",
      "SslCaCertificateArn": "string",
      "SslClientCertificateArn": "string",
      "SslClientKeyArn": "string",
      "SslClientKeyPassword": "string",
      "SslEndpointIdentificationAlgorithm": "string",
      "Topic": "string"
   },
   "KinesisSettings": {
      "IncludeControlDetails": boolean,
      "IncludeNullAndEmpty": boolean,
      "IncludePartitionValue": boolean,
      "IncludeTableAlterOperations": boolean,
      "IncludeTransactionDetails": boolean,
      "MessageFormat": "string",
      "NoHexPrefix": boolean,
      "PartitionIncludeSchemaTable": boolean,
      "ServiceAccessRoleArn": "string",
      "StreamArn": "string"
   },
   "KmsKeyId": "string",
   "MicrosoftSQLServerSettings": {
      "BcpPacketSize": number,
      "ControlTablesFileGroup": "string",
      "DatabaseName": "string",
      "ForceLobLookup": boolean,
      "Password": "string",
```

```
            "Port": number,
            "QuerySingleAlwaysOnNode": boolean,
            "ReadBackupOnly": boolean,
            "SafeguardPolicy": "string",
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string",
            "ServerName": "string",
            "TlogAccessMode": "string",
            "TrimSpaceInChar": boolean,
            "UseBcpFullLoad": boolean,
            "Username": "string",
            "UseThirdPartyBackupDevice": boolean
         },
         "MongoDbSettings": {
            "AuthMechanism": "string",
            "AuthSource": "string",
            "AuthType": "string",
            "DatabaseName": "string",
            "DocsToInvestigate": "string",
            "ExtractDocId": "string",
            "KmsKeyId": "string",
            "NestingLevel": "string",
            "Password": "string",
            "Port": number,
            "ReplicateShardCollections": boolean,
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string",
            "ServerName": "string",
            "Username": "string",
            "UseUpdateLookUp": boolean
         },
         "MySQLSettings": {
            "AfterConnectScript": "string",
            "CleanSourceMetadataOnMismatch": boolean,
            "DatabaseName": "string",
            "EventsPollInterval": number,
            "ExecuteTimeout": number,
            "MaxFileSize": number,
            "ParallelLoadThreads": number,
            "Password": "string",
            "Port": number,
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string",
            "ServerName": "string",
```

```
         "ServerTimezone": "string",
         "TargetDbType": "string",
         "Username": "string"
      },
      "NeptuneSettings": {
         "ErrorRetryDuration": number,
         "IamAuthEnabled": boolean,
         "MaxFileSize": number,
         "MaxRetryCount": number,
         "S3BucketFolder": "string",
         "S3BucketName": "string",
         "ServiceAccessRoleArn": "string"
      },
      "OracleSettings": {
         "AccessAlternateDirectly": boolean,
         "AdditionalArchivedLogDestId": number,
         "AddSupplementalLogging": boolean,
         "AllowSelectNestedTables": boolean,
         "ArchivedLogDestId": number,
         "ArchivedLogsOnly": boolean,
         "AsmPassword": "string",
         "AsmServer": "string",
         "AsmUser": "string",
         "CharLengthSemantics": "string",
         "ConvertTimestampWithZoneToUTC": boolean,
         "DatabaseName": "string",
         "DirectPathNoLog": boolean,
         "DirectPathParallelLoad": boolean,
         "EnableHomogenousTablespace": boolean,
         "ExtraArchivedLogDestIds": [ number ],
         "FailTasksOnLobTruncation": boolean,
         "NumberDatatypeScale": number,
         "OpenTransactionWindow": number,
         "OraclePathPrefix": "string",
         "ParallelAsmReadThreads": number,
         "Password": "string",
         "Port": number,
         "ReadAheadBlocks": number,
         "ReadTableSpaceName": boolean,
         "ReplacePathPrefix": boolean,
         "RetryInterval": number,
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerOracleAsmAccessRoleArn": "string",
         "SecretsManagerOracleAsmSecretId": "string",
```

```
            "SecretsManagerSecretId": "string",
            "SecurityDbEncryption": "string",
            "SecurityDbEncryptionName": "string",
            "ServerName": "string",
            "SpatialDataOptionToGeoJsonFunctionName": "string",
            "StandbyDelayTime": number,
            "TrimSpaceInChar": boolean,
            "UseAlternateFolderForOnline": boolean,
            "UseBFile": boolean,
            "UseDirectPathFullLoad": boolean,
            "UseLogminerReader": boolean,
            "UsePathPrefix": "string",
            "Username": "string"
        },
        "Port": number,
        "PostgreSQLSettings": {
            "AfterConnectScript": "string",
            "BabelfishDatabaseName": "string",
            "CaptureDdls": boolean,
            "DatabaseMode": "string",
            "DatabaseName": "string",
            "DdlArtifactsSchema": "string",
            "ExecuteTimeout": number,
            "FailTasksOnLobTruncation": boolean,
            "HeartbeatEnable": boolean,
            "HeartbeatFrequency": number,
            "HeartbeatSchema": "string",
            "MapBooleanAsBoolean": boolean,
            "MapJsonbAsClob": boolean,
            "MapLongVarcharAs": "string",
            "MaxFileSize": number,
            "Password": "string",
            "PluginName": "string",
            "Port": number,
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string",
            "ServerName": "string",
            "SlotName": "string",
            "TrimSpaceInChar": boolean,
            "Username": "string"
        },
        "RedisSettings": {
            "AuthPassword": "string",
            "AuthType": "string",
```

```
         "AuthUserName": "string",
         "Port": number,
         "ServerName": "string",
         "SslCaCertificateArn": "string",
         "SslSecurityProtocol": "string"
      },
      "RedshiftSettings": {
         "AcceptAnyDate": boolean,
         "AfterConnectScript": "string",
         "BucketFolder": "string",
         "BucketName": "string",
         "CaseSensitiveNames": boolean,
         "CompUpdate": boolean,
         "ConnectionTimeout": number,
         "DatabaseName": "string",
         "DateFormat": "string",
         "EmptyAsNull": boolean,
         "EncryptionMode": "string",
         "ExplicitIds": boolean,
         "FileTransferUploadStreams": number,
         "LoadTimeout": number,
         "MapBooleanAsBoolean": boolean,
         "MaxFileSize": number,
         "Password": "string",
         "Port": number,
         "RemoveQuotes": boolean,
         "ReplaceChars": "string",
         "ReplaceInvalidChars": "string",
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerSecretId": "string",
         "ServerName": "string",
         "ServerSideEncryptionKmsKeyId": "string",
         "ServiceAccessRoleArn": "string",
         "TimeFormat": "string",
         "TrimBlanks": boolean,
         "TruncateColumns": boolean,
         "Username": "string",
         "WriteBufferSize": number
      },
      "S3Settings": {
         "AddColumnName": boolean,
         "AddTrailingPaddingCharacter": boolean,
         "BucketFolder": "string",
         "BucketName": "string",
```

```
            "CannedAclForObjects": "string",
            "CdcInsertsAndUpdates": boolean,
            "CdcInsertsOnly": boolean,
            "CdcMaxBatchInterval": number,
            "CdcMinFileSize": number,
            "CdcPath": "string",
            "CompressionType": "string",
            "CsvDelimiter": "string",
            "CsvNoSupValue": "string",
            "CsvNullValue": "string",
            "CsvRowDelimiter": "string",
            "DataFormat": "string",
            "DataPageSize": number,
            "DatePartitionDelimiter": "string",
            "DatePartitionEnabled": boolean,
            "DatePartitionSequence": "string",
            "DatePartitionTimezone": "string",
            "DictPageSizeLimit": number,
            "EnableStatistics": boolean,
            "EncodingType": "string",
            "EncryptionMode": "string",
            "ExpectedBucketOwner": "string",
            "ExternalTableDefinition": "string",
            "GlueCatalogGeneration": boolean,
            "IgnoreHeaderRows": number,
            "IncludeOpForFullLoad": boolean,
            "MaxFileSize": number,
            "ParquetTimestampInMillisecond": boolean,
            "ParquetVersion": "string",
            "PreserveTransactions": boolean,
            "Rfc4180": boolean,
            "RowGroupLength": number,
            "ServerSideEncryptionKmsKeyId": "string",
            "ServiceAccessRoleArn": "string",
            "TimestampColumnName": "string",
            "UseCsvNoSupValue": boolean,
            "UseTaskStartTimeForFullLoadTimestamp": boolean
        },
        "ServerName": "string",
        "ServiceAccessRoleArn": "string",
        "SslMode": "string",
        "Status": "string",
        "SybaseSettings": {
            "DatabaseName": "string",
```

```
            "Password": "string",
            "Port": number,
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string",
            "ServerName": "string",
            "Username": "string"
        },
        "TimestreamSettings": {
            "CdcInsertsAndUpdates": boolean,
            "DatabaseName": "string",
            "EnableMagneticStoreWrites": boolean,
            "MagneticDuration": number,
            "MemoryDuration": number
        },
        "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

The endpoint that was created.

Type: Endpoint object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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

S3AccessDeniedFault

Insufficient privileges are preventing access to an Amazon S3 object.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of CreateEndpoint.

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.cxln7iyxx1lo.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-
1:123456789012:endpoint:RAAR3R22XSH46S3PWLC3NJAWKM",
      "ServerName":"test-source.cxln7iyxx1lo.us-west-2.rds.amazonaws.com",
```

```
      "EndpointType":"SOURCE",
      "KmsKeyId":"arn:aws:kms:us-east-1:123456789012:key/4dc17316-5543-
4ded-b1e3-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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateEventSubscription

Creates an AWS DMS event notification subscription.

You can specify the type of source (`SourceType`) you want to be notified of, provide a list of AWS DMS source IDs (`SourceIds`) that triggers the events, and provide a list of event categories (`EventCategories`) for events you want to be notified of. If you specify both the `SourceType` and `SourceIds`, such as `SourceType = replication-instance` and `SourceIdentifier = my-replinstance`, you will be notified of all the replication instance events for the specified source. If you specify a `SourceType` but don't specify a `SourceIdentifier`, you receive notice of the events for that source type for all your AWS DMS sources. If you don't specify either `SourceType` nor `SourceIdentifier`, you will be notified of events generated from all AWS DMS sources belonging to your customer account.

For more information about AWS DMS events, see Working with Events and Notifications in the *AWS Database Migration Service User Guide.*

Request Syntax

```
{
   "Enabled": boolean,
   "EventCategories": [ "string" ],
   "SnsTopicArn": "string",
   "SourceIds": [ "string" ],
   "SourceType": "string",
   "SubscriptionName": "string",
   "Tags": [
      {
         "Key": "string",
         "ResourceArn": "string",
         "Value": "string"
      }
   ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Enabled

A Boolean value; set to `true` to activate the subscription, or set to `false` to create the subscription but not activate it.

Type: Boolean

Required: No

EventCategories

A list of event categories for a source type that you want to subscribe to. For more information, see Working with Events and Notifications in the *AWS Database Migration Service User Guide.*

Type: Array of strings

Required: No

SnsTopicArn

The Amazon Resource Name (ARN) of the Amazon SNS topic created for event notification. The ARN is created by Amazon SNS when you create a topic and subscribe to it.

Type: String

Required: Yes

SourceIds

A list of identifiers for which AWS DMS provides notification events.

If you don't specify a value, notifications are provided for all sources.

If you specify multiple values, they must be of the same type. For example, if you specify a database instance ID, then all of the other values must be database instance IDs.

Type: Array of strings

Required: No

SourceType

The type of AWS DMS resource that generates the events. For example, if you want to be notified of events generated by a replication instance, you set this parameter to `replication-instance`. If this value isn't specified, all events are returned.

Valid values: `replication-instance` | `replication-task`

Type: String

Required: No

SubscriptionName

The name of the AWS DMS event notification subscription. This name must be less than 255 characters.

Type: String

Required: Yes

Tags

One or more tags to be assigned to the event subscription.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
   "EventSubscription": {
      "CustomerAwsId": "string",
      "CustSubscriptionId": "string",
      "Enabled": boolean,
      "EventCategoriesList": [ "string" ],
      "SnsTopicArn": "string",
      "SourceIdsList": [ "string" ],
      "SourceType": "string",
      "Status": "string",
      "SubscriptionCreationTime": "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.

EventSubscription

The event subscription that was created.

Type: EventSubscription object

Errors

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

KMSAccessDeniedFault

The ciphertext references a key that doesn't exist or that the DMS account doesn't have access to.

HTTP Status Code: 400

KMSDisabledFault

The specified KMS key isn't enabled.

HTTP Status Code: 400

KMSInvalidStateFault

The state of the specified AWS KMS resource isn't valid for this request.

HTTP Status Code: 400

KMSNotFoundFault

The specified AWS KMS entity or resource can't be found.

HTTP Status Code: 400

KMSThrottlingFault

This request triggered AWS KMS request throttling.

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

SNSInvalidTopicFault

The SNS topic is invalid.

HTTP Status Code: 400

SNSNoAuthorizationFault

You are not authorized for the SNS subscription.

HTTP Status Code: 400

See Also

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

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

CreateFleetAdvisorCollector

Creates a Fleet Advisor collector using the specified parameters.

Request Syntax

```
{
   "CollectorName": "string",
   "Description": "string",
   "S3BucketName": "string",
   "ServiceAccessRoleArn": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

CollectorName

The name of your Fleet Advisor collector (for example, `sample-collector`).

Type: String

Required: Yes

Description

A summary description of your Fleet Advisor collector.

Type: String

Required: No

S3BucketName

The Amazon S3 bucket that the Fleet Advisor collector uses to store inventory metadata.

Type: String

Required: Yes

ServiceAccessRoleArn

The IAM role that grants permissions to access the specified Amazon S3 bucket.

Type: String

Required: Yes

Response Syntax

```
{
   "CollectorName": "string",
   "CollectorReferencedId": "string",
   "Description": "string",
   "S3BucketName": "string",
   "ServiceAccessRoleArn": "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.

CollectorName

The name of the new Fleet Advisor collector.

Type: String

CollectorReferencedId

The unique ID of the new Fleet Advisor collector, for example: `22fda70c-40d5-4acf-b233-a495bd8eb7f5`

Type: String

Description

A summary description of the Fleet Advisor collector.

Type: String

S3BucketName

The Amazon S3 bucket that the collector uses to store inventory metadata.

Type: String

ServiceAccessRoleArn

The IAM role that grants permissions to access the specified Amazon S3 bucket.

Type: String

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

InvalidResourceStateFault

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

HTTP Status Code: 400

ResourceQuotaExceededFault

The quota for this resource quota has been exceeded.

HTTP Status Code: 400

S3AccessDeniedFault

Insufficient privileges are preventing access to an Amazon S3 object.

HTTP Status Code: 400

S3ResourceNotFoundFault

A specified Amazon S3 bucket, bucket folder, or other object can't 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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateInstanceProfile

Creates the instance profile using the specified parameters.

Request Syntax

```
{
   "AvailabilityZone": "string",
   "Description": "string",
   "InstanceProfileName": "string",
   "KmsKeyArn": "string",
   "NetworkType": "string",
   "PubliclyAccessible": boolean,
   "SubnetGroupIdentifier": "string",
   "Tags": [
      {
         "Key": "string",
         "ResourceArn": "string",
         "Value": "string"
      }
   ],
   "VpcSecurityGroups": [ "string" ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

AvailabilityZone

The Availability Zone where the instance profile will be created. The default value is a random, system-chosen Availability Zone in the AWS Region where your data provider is created, for examplem `us-east-1d`.

Type: String

Required: No

Description

A user-friendly description of the instance profile.

Type: String

Required: No

InstanceProfileName

A user-friendly name for the instance profile.

Type: String

Required: No

KmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key that is used to encrypt the connection parameters for the instance profile.

If you don't specify a value for the `KmsKeyArn` parameter, then AWS DMS uses 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

NetworkType

Specifies the network type for the instance profile. A value of `IPV4` represents an instance profile with IPv4 network type and only supports IPv4 addressing. A value of `IPV6` represents an instance profile with IPv6 network type and only supports IPv6 addressing. A value of `DUAL` represents an instance profile with dual network type that supports IPv4 and IPv6 addressing.

Type: String

Required: No

PubliclyAccessible

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

Type: Boolean

Required: No

SubnetGroupIdentifier

A subnet group to associate with the instance profile.

Type: String

Required: No

Tags

One or more tags to be assigned to the instance profile.

Type: Array of Tag objects

Required: No

VpcSecurityGroups

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

Type: Array of strings

Required: No

Response Syntax

```
{
   "InstanceProfile": {
      "AvailabilityZone": "string",
      "Description": "string",
      "InstanceProfileArn": "string",
      "InstanceProfileCreationTime": "string",
      "InstanceProfileName": "string",
      "KmsKeyArn": "string",
      "NetworkType": "string",
      "PubliclyAccessible": boolean,
      "SubnetGroupIdentifier": "string",
      "VpcSecurityGroups": [ "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.

InstanceProfile

The instance profile that was created.

Type: InstanceProfile object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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

S3AccessDeniedFault

Insufficient privileges are preventing access to an Amazon S3 object.

HTTP Status Code: 400

S3ResourceNotFoundFault

A specified Amazon S3 bucket, bucket folder, or other object can't be found.

HTTP Status Code: 400

Examples

Creating a replication subnet group

Before you create an instance profile, you must create a replication subnet group. The following example demonstrates creating a replication subnet group using the CreateReplicationSubnetGroup action:

Sample Request

```
{
    "ReplicationSubnetGroupIdentifier": "your-subnet-group",
    "ReplicationSubnetGroupDescription": "Your subnet group description",
    "SubnetIds": [
        "subnet-0123EXAMPLE456789", "subnet-012EXAMPLE3456789"
    ]
}
```

Creating an instance profile

The following example demonstrates creating an instance profile with the CreateInstanceProfile action:

Sample Request

```
{
    "SubnetGroupIdentifier": "my-subnet-group",
    "VpcSecurityGroupIds": ["sg-0123456789abcdef0"],
    "VpcIdentifier": "vpc-0123456789abcdef0",
    "PubliclyAccessible": true,
    "KmsKeyArn": "arn:aws:kms:us-east-1:012345678901:key/01234567-89ab-
cdef-0123-456789abcdef",
    "InstanceProfileName": "my-instance-profile",
    "Description": "Description",
    "NetworkType": "DUAL",
    "Tags": [
                {
                    "Key": "access",
                    "Value": "authorizedusers"
                }
        ]
}
```

See Also

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

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

CreateMigrationProject

Creates the migration project using the specified parameters.

You can run this action only after you create an instance profile and data providers using CreateInstanceProfile and CreateDataProvider.

Request Syntax

```
{
   "Description": "string",
   "InstanceProfileIdentifier": "string",
   "MigrationProjectName": "string",
   "SchemaConversionApplicationAttributes": {
      "S3BucketPath": "string",
      "S3BucketRoleArn": "string"
   },
   "SourceDataProviderDescriptors": [
      {
         "DataProviderIdentifier": "string",
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerSecretId": "string"
      }
   ],
   "Tags": [
      {
         "Key": "string",
         "ResourceArn": "string",
         "Value": "string"
      }
   ],
   "TargetDataProviderDescriptors": [
      {
         "DataProviderIdentifier": "string",
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerSecretId": "string"
      }
   ],
   "TransformationRules": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Description

A user-friendly description of the migration project.

Type: String

Required: No

InstanceProfileIdentifier

The identifier of the associated instance profile. Identifiers must begin with a letter and must contain only ASCII letters, digits, and hyphens. They can't end with a hyphen, or contain two consecutive hyphens.

Type: String

Required: Yes

MigrationProjectName

A user-friendly name for the migration project.

Type: String

Required: No

SchemaConversionApplicationAttributes

The schema conversion application attributes, including the Amazon S3 bucket name and Amazon S3 role ARN.

Type: SCApplicationAttributes object

Required: No

SourceDataProviderDescriptors

Information about the source data provider, including the name, ARN, and AWS Secrets Manager parameters.

Type: Array of DataProviderDescriptorDefinition objects

Required: Yes

Tags

One or more tags to be assigned to the migration project.

Type: Array of Tag objects

Required: No

TargetDataProviderDescriptors

Information about the target data provider, including the name, ARN, and AWS Secrets Manager parameters.

Type: Array of DataProviderDescriptorDefinition objects

Required: Yes

TransformationRules

The settings in JSON format for migration rules. Migration rules make it possible for you to change the object names according to the rules that you specify. For example, you can change an object name to lowercase or uppercase, add or remove a prefix or suffix, or rename objects.

Type: String

Required: No

Response Syntax

```
{
   "MigrationProject": {
      "Description": "string",
      "InstanceProfileArn": "string",
      "InstanceProfileName": "string",
      "MigrationProjectArn": "string",
      "MigrationProjectCreationTime": "string",
      "MigrationProjectName": "string",
      "SchemaConversionApplicationAttributes": {
         "S3BucketPath": "string",
         "S3BucketRoleArn": "string"
```

```
      },
      "SourceDataProviderDescriptors": [
         {
            "DataProviderArn": "string",
            "DataProviderName": "string",
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string"
         }
      ],
      "TargetDataProviderDescriptors": [
         {
            "DataProviderArn": "string",
            "DataProviderName": "string",
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string"
         }
      ],
      "TransformationRules": "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.

MigrationProject

The migration project that was created.

Type: MigrationProject object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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

S3AccessDeniedFault

Insufficient privileges are preventing access to an Amazon S3 object.

HTTP Status Code: 400

S3ResourceNotFoundFault

A specified Amazon S3 bucket, bucket folder, or other object can't be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of CreateMigrationProject.

Sample Request

```
{
    "MigrationProjectName": "my-migration-project",
    "SourceDataProviderDescriptors": [
                {
                        "DataProviderIdentifier": "arn:aws:dms:us-
east-1:012345678901:data-provider:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345",
                        "SecretsManagerSecretId": "arn:aws:secretsmanager:us-
east-1:012345678901:secret:myorg/example1/ALL.SOURCE.ORACLE_12-A1B2C3",
```

```
                        "SecretsManagerAccessRoleArn": "arn:aws:iam::012345678901:role/
myuser-admin-access"
                }
        ],
    "TargetDataProviderDescriptors": [
                {
                        "DataProviderIdentifier": "arn:aws:dms:us-
east-1:012345678901:data-provider:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345",
                        "SecretsManagerSecretId": "arn:aws:secretsmanager:us-
east-1:012345678901:secret:myorg/example1/TARGET.postgresql-A1B2C3",
                        "SecretsManagerAccessRoleArn": "arn:aws:iam::012345678901:role/
myuser-admin-access"
                }
        ],
    "InstanceProfileIdentifier": "ip-au-17",
    "SchemaConversionApplicationAttributes": {
        "S3BucketPath": "arn:aws:s3:::mylogin-bucket",
        "S3BucketRoleArn": "arn:aws:iam::012345678901:role/Admin"
    },
    "Tags": [
                {
                    "Key": "access",
                    "Value": "authorizedusers"
                }
        ],
    "Description": "description",
    "TransformationRules": "{\"key0\":\"value0\",\"key1\":\"value1\",\"key2\":
\"value2\"}"
}
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

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

CreateReplicationConfig

Creates a configuration that you can later provide to configure and start an AWS DMS Serverless replication. You can also provide options to validate the configuration inputs before you start the replication.

Request Syntax

```
{
   "ComputeConfig": {
      "AvailabilityZone": "string",
      "DnsNameServers": "string",
      "KmsKeyId": "string",
      "MaxCapacityUnits": number,
      "MinCapacityUnits": number,
      "MultiAZ": boolean,
      "PreferredMaintenanceWindow": "string",
      "ReplicationSubnetGroupId": "string",
      "VpcSecurityGroupIds": [ "string" ]
   },
   "ReplicationConfigIdentifier": "string",
   "ReplicationSettings": "string",
   "ReplicationType": "string",
   "ResourceIdentifier": "string",
   "SourceEndpointArn": "string",
   "SupplementalSettings": "string",
   "TableMappings": "string",
   "Tags": [
      {
         "Key": "string",
         "ResourceArn": "string",
         "Value": "string"
      }
   ],
   "TargetEndpointArn": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ComputeConfig

Configuration parameters for provisioning an AWS DMS Serverless replication.

Type: ComputeConfig object

Required: Yes

ReplicationConfigIdentifier

A unique identifier that you want to use to create a `ReplicationConfigArn` that is returned as part of the output from this action. You can then pass this output `ReplicationConfigArn` as the value of the `ReplicationConfigArn` option for other actions to identify both AWS DMS Serverless replications and replication configurations that you want those actions to operate on. For some actions, you can also use either this unique identifier or a corresponding ARN in action filters to identify the specific replication and replication configuration to operate on.

Type: String

Required: Yes

ReplicationSettings

Optional JSON settings for AWS DMS Serverless replications that are provisioned using this replication configuration. For example, see Change processing tuning settings.

Type: String

Required: No

ReplicationType

The type of AWS DMS Serverless replication to provision using this replication configuration.

Possible values:

- `"full-load"`
- `"cdc"`
- `"full-load-and-cdc"`

Type: String

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

Required: Yes

ResourceIdentifier

Optional unique value or name that you set for a given resource that can be used to construct an Amazon Resource Name (ARN) for that resource. For more information, see Fine-grained access control using resource names and tags.

Type: String

Required: No

SourceEndpointArn

The Amazon Resource Name (ARN) of the source endpoint for this AWS DMS Serverless replication configuration.

Type: String

Required: Yes

SupplementalSettings

Optional JSON settings for specifying supplemental data. For more information, see Specifying supplemental data for task settings.

Type: String

Required: No

TableMappings

JSON table mappings for AWS DMS Serverless replications that are provisioned using this replication configuration. For more information, see Specifying table selection and transformations rules using JSON.

Type: String

Required: Yes

Tags

One or more optional tags associated with resources used by the AWS DMS Serverless replication. For more information, see Tagging resources in AWS Database Migration Service.

Type: Array of Tag objects

Required: No

TargetEndpointArn

The Amazon Resource Name (ARN) of the target endpoint for this AWS DMS serverless replication configuration.

Type: String

Required: Yes

Response Syntax

```
{
   "ReplicationConfig": {
      "ComputeConfig": {
         "AvailabilityZone": "string",
         "DnsNameServers": "string",
         "KmsKeyId": "string",
         "MaxCapacityUnits": number,
         "MinCapacityUnits": number,
         "MultiAZ": boolean,
         "PreferredMaintenanceWindow": "string",
         "ReplicationSubnetGroupId": "string",
         "VpcSecurityGroupIds": [ "string" ]
      },
      "ReplicationConfigArn": "string",
      "ReplicationConfigCreateTime": number,
      "ReplicationConfigIdentifier": "string",
      "ReplicationConfigUpdateTime": number,
      "ReplicationSettings": "string",
      "ReplicationType": "string",
      "SourceEndpointArn": "string",
      "SupplementalSettings": "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.

ReplicationConfig

Configuration parameters returned from the AWS DMS Serverless replication after it is created.

Type: ReplicationConfig object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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 isn't valid.

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

Examples

Example

This example illustrates one usage of CreateReplicationConfig.

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.CreateReplicationConfig
{
    "ReplicationConfigIdentifier":"test-replication-config",
    "SourceEndpointArn":"arn:aws:dms:us-
east-1:123456789012:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
    "TargetEndpointArn":"arn:aws:dms:us-
east-1:123456789012:endpoint:GVBUJQXJZASXWHTWCLN2WNT57E",
    "ComputeConfig": "{\"MaxCapacityUnits\":2}",
    "ReplicationType": "full-load",
    "TableMappings":"{\n \"TableMappings\": [ \n
        {\n \"Type\": \"Include\",\n \"SourceSchema\": \"/\",
```

```
            \n \"SourceTable\": \"/ \"\n }\n ]\n
        }\n\n",
    "ReplicationTaskSettings":"",
    "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>
{
    "ReplicationConfigIdentifier":"test-replication-config",
    "ReplicationConfigArn":"arn:aws:dms:us-east-
1:123456789012:replication-config:UX6OL6MHMMJKFFOXE3H7LLJCMEKBDUG4ZV7DRSI",
    "SourceEndpointArn":"arn:aws:dms:us-east-
1:123456789012:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
    "TargetEndpointArn":"arn:aws:dms:us-east-
1:123456789012:endpoint:GVBUJQXJZASXWHTWCLN2WNT57E",
    "ReplicationConfigCreateTime":1677683717.524,
    "TableMappings":"{\n \"TableMappings\": [ \n
        {\n \"Type\": \"Include\",\n \"SourceSchema\": \"/\",
            \n \"SourceTable\": \"/ \"\n }\n ]\n
        }\n\n",
    "ReplicationTaskSettings":"{\"TargetMetadata\":
    {
        \"TargetSchema\":\"\",\"SupportLobs\":true,\"FullLobMode\":
        true,\"LobChunkSize\":64,\"LimitedSizeLobMode\":
        false,\"LobMaxSize\":0},\"FullLoadSettings\":{
        \"FullLoadEnabled\":true,
        \"TargetTablePrepMode\":\"DROP_AND_CREATE\",
        \"CreatePkAfterFullLoad\":false,
        \"StopTaskCachedChangesApplied\":false,
        \"StopTaskCachedChangesNotApplied\":false,
```

```
        \"ResumeEnabled\":false,
        \"ResumeMinTableSize\":100000,
        \"ResumeOnlyClusteredPKTables\":true,
        \"MaxFullLoadSubTasks\":8,
        \"TransactionConsistencyTimeout\":600,
        \"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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateReplicationInstance

Creates the replication instance using the specified parameters.

AWS DMS requires that your account have certain roles with appropriate permissions before you can create a replication instance. For information on the required roles, see Creating the IAM Roles to Use With the AWS CLI and AWS DMS API. For information on the required permissions, see IAM Permissions Needed to Use AWS DMS.

> **Note**
>
> If you don't specify a version when creating a replication instance, AWS DMS will create the instance using the default engine version. For information about the default engine version, see Release Notes.

Request Syntax

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

```
}
```

Request Parameters

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

The request accepts the following data in JSON format.

AllocatedStorage

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

Type: Integer

Required: No

AutoMinorVersionUpgrade

A value that indicates whether minor engine upgrades are applied automatically to the replication instance during the maintenance window. This parameter defaults to `true`.

Default: `true`

Type: Boolean

Required: No

AvailabilityZone

The Availability Zone where the replication instance will be created. The default value is a random, system-chosen Availability Zone in the endpoint's AWS Region, for example: `us-east-1d`.

Type: String

Required: No

DnsNameServers

A list of custom DNS name servers supported for the replication instance to access your on-premise source or target database. This list overrides the default name servers supported by the replication instance. You can specify a comma-separated list of internet addresses for up to four on-premise DNS name servers. For example: `"1.1.1.1,2.2.2.2,3.3.3.3,4.4.4.4"`

Type: String

Required: No

EngineVersion

The engine version number of the replication instance.

If an engine version number is not specified when a replication instance is created, the default is the latest engine version available.

Type: String

Required: No

KmsKeyId

An AWS KMS key identifier that is used to encrypt the data on the replication instance.

If you don't specify a value for the `KmsKeyId` parameter, then AWS DMS uses 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 whether the replication instance is a Multi-AZ deployment. You can't set the `AvailabilityZone` parameter if the Multi-AZ parameter is set to `true`.

Type: Boolean

Required: No

NetworkType

The type of IP address protocol used by a replication instance, such as IPv4 only or Dual-stack that supports both IPv4 and IPv6 addressing. IPv6 only is not yet supported.

Type: String

Required: No

PreferredMaintenanceWindow

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 AWS 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

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

The compute and memory capacity of the replication instance as defined for the specified replication instance class. For example to specify the instance class dms.c4.large, set this parameter to `"dms.c4.large"`.

For more information on the settings and capacities for the available replication instance classes, see Choosing the right AWS DMS replication instance; and, Selecting the best size for a replication instance.

Type: String

Required: Yes

ReplicationInstanceIdentifier

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

Constraints:

- Must contain 1-63 alphanumeric characters or hyphens.
- First character must be a letter.
- Can't end with a hyphen or contain two consecutive hyphens.

Example: `myrepinstance`

Type: String

Required: Yes

ReplicationSubnetGroupIdentifier

A subnet group to associate with the replication instance.

Type: String

Required: No

ResourceIdentifier

A friendly name for the resource identifier at the end of the `EndpointArn` response parameter that is returned in the created `Endpoint` object. The value for this parameter can have up to 31 characters. It can contain only ASCII letters, digits, and hyphen ('-'). Also, it can't end with a hyphen or contain two consecutive hyphens, and can only begin with a letter, such as `Example-App-ARN1`. For example, this value might result in the `EndpointArn` value `arn:aws:dms:eu-west-1:012345678901:rep:Example-App-ARN1`. If you don't specify a `ResourceIdentifier` value, AWS DMS generates a default identifier value for the end of `EndpointArn`.

Type: String

Required: No

Tags

One or more tags to be assigned to the replication instance.

Type: Array of Tag objects

Required: No

VpcSecurityGroupIds

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",
      "DnsNameServers": "string",
      "EngineVersion": "string",
      "FreeUntil": number,
      "InstanceCreateTime": number,
      "KmsKeyId": "string",
      "MultiAZ": boolean,
      "NetworkType": "string",
      "PendingModifiedValues": {
         "AllocatedStorage": number,
         "EngineVersion": "string",
         "MultiAZ": boolean,
         "NetworkType": "string",
         "ReplicationInstanceClass": "string"
      },
      "PreferredMaintenanceWindow": "string",
      "PubliclyAccessible": boolean,
      "ReplicationInstanceArn": "string",
      "ReplicationInstanceClass": "string",
      "ReplicationInstanceIdentifier": "string",
      "ReplicationInstanceIpv6Addresses": [ "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"
            }
         ],
         "SupportedNetworkTypes": [ "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

The replication instance that was created.

Type: ReplicationInstance object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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 isn't valid.

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

Examples

Example

This example illustrates one usage of CreateReplicationInstance.

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,
   "NetworkType":"IPv4",
   "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-
1:123456789012: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":"creating",
      "KmsKeyId":"arn:aws:kms:us-east-1:123456789012:key/4dc17316-5543-
4ded-b1e3-d53a7cfb411d",
      "AllocatedStorage":5,
      "NetworkType":"IPv4",
      "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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

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

CreateReplicationSubnetGroup

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

The VPC needs to have at least one subnet in at least two availability zones in the AWS Region, otherwise the service will throw a `ReplicationSubnetGroupDoesNotCoverEnoughAZs` exception.

If a replication subnet group exists in your AWS account, the CreateReplicationSubnetGroup action returns the following error message: The Replication Subnet Group already exists. In this case, delete the existing replication subnet group. To do so, use the DeleteReplicationSubnetGroup action. Optionally, choose Subnet groups in the AWS DMS console, then choose your subnet group. Next, choose Delete from Actions.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

ReplicationSubnetGroupDescription

The description for the subnet group.

Type: String

Required: Yes

ReplicationSubnetGroupIdentifier

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, underscores, or hyphens. Must not be "default".

Example: `mySubnetgroup`

Type: String

Required: Yes

SubnetIds

Two or more subnet IDs to be assigned to the subnet group.

Type: Array of strings

Required: Yes

Tags

One or more tags to be assigned to the subnet group.

Type: Array of Tag objects

Required: No

Response Syntax

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

```
            "SubnetStatus": "string"
         }
      ],
      "SupportedNetworkTypes": [ "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

The replication subnet group that was created.

Type: ReplicationSubnetGroup object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

InvalidSubnet

The subnet provided isn't valid.

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

Examples

Example

This example illustrates one usage of CreateReplicationSubnetGroup.

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateReplicationTask

Creates a replication task using the specified parameters.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

CdcStartPosition

Indicates when you want a change data capture (CDC) operation to start. Use either CdcStartPosition or CdcStartTime to specify when you want a CDC operation to start. Specifying both values results in an error.

The value can be in date, checkpoint, or LSN/SCN format.

Date Example: --cdc-start-position “2018-03-08T12:12:12”

Checkpoint Example: --cdc-start-position "checkpoint:V1#27#mysql-bin-changelog.157832:1975:-1:2002:677883278264080:mysql-bin-changelog.157832:1876#0#0#*#0#93"

LSN Example: --cdc-start-position “mysql-bin-changelog.000024:373”

> **Note**
>
> When you use this task setting with a source PostgreSQL database, a logical replication slot should already be created and associated with the source endpoint. You can verify this by setting the `slotName` extra connection attribute to the name of this logical replication slot. For more information, see Extra Connection Attributes When Using PostgreSQL as a Source for AWS DMS.

Type: String

Required: No

CdcStartTime

Indicates the start time for a change data capture (CDC) operation. Use either CdcStartTime or CdcStartPosition to specify when you want a CDC operation to start. Specifying both values results in an error.

Timestamp Example: --cdc-start-time “2018-03-08T12:12:12”

Type: Timestamp

Required: No

CdcStopPosition

Indicates when you want a change data capture (CDC) operation to stop. The value can be either server time or commit time.

Server time example: --cdc-stop-position “server_time:2018-02-09T12:12:12”

Commit time example: --cdc-stop-position “commit_time:2018-02-09T12:12:12“

Type: String

Required: No

MigrationType

The migration type. Valid values: `full-load` | `cdc` | `full-load-and-cdc`

Type: String

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

Required: Yes

ReplicationInstanceArn

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

Type: String

Required: Yes

ReplicationTaskIdentifier

An identifier for the replication task.

Constraints:

- Must contain 1-255 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

Overall settings for the task, in JSON format. For more information, see Specifying Task Settings for AWS Database Migration Service Tasks in the *AWS Database Migration Service User Guide.*

Type: String

Required: No

ResourceIdentifier

A friendly name for the resource identifier at the end of the `EndpointArn` response parameter that is returned in the created `Endpoint` object. The value for this parameter can have up to 31 characters. It can contain only ASCII letters, digits, and hyphen ('-'). Also, it can't end with a hyphen or contain two consecutive hyphens, and can only begin with a letter, such as `Example-App-ARN1`. For example, this value might result in the `EndpointArn` value `arn:aws:dms:eu-west-1:012345678901:rep:Example-App-ARN1`. If you don't specify a `ResourceIdentifier` value, AWS DMS generates a default identifier value for the end of `EndpointArn`.

Type: String

Required: No

SourceEndpointArn

An Amazon Resource Name (ARN) that uniquely identifies the source endpoint.

Type: String

Required: Yes

TableMappings

The table mappings for the task, in JSON format. For more information, see Using Table Mapping to Specify Task Settings in the *AWS Database Migration Service User Guide.*

Type: String

Required: Yes

Tags

One or more tags to be assigned to the replication task.

Type: Array of Tag objects

Required: No

TargetEndpointArn

An Amazon Resource Name (ARN) that uniquely identifies the target endpoint.

Type: String

Required: Yes

TaskData

Supplemental information that the task requires to migrate the data for certain source and target endpoints. For more information, see Specifying Supplemental Data for Task Settings in the *AWS Database Migration Service User Guide.*

Type: String

Required: No

Response Syntax

```
{
   "ReplicationTask": {
      "CdcStartPosition": "string",
      "CdcStopPosition": "string",
      "LastFailureMessage": "string",
      "MigrationType": "string",
      "RecoveryCheckpoint": "string",
      "ReplicationInstanceArn": "string",
      "ReplicationTaskArn": "string",
      "ReplicationTaskCreationDate": number,
      "ReplicationTaskIdentifier": "string",
      "ReplicationTaskSettings": "string",
      "ReplicationTaskStartDate": number,
      "ReplicationTaskStats": {
         "ElapsedTimeMillis": number,
         "FreshStartDate": number,
         "FullLoadFinishDate": number,
         "FullLoadProgressPercent": number,
         "FullLoadStartDate": number,
         "StartDate": number,
         "StopDate": number,
         "TablesErrored": number,
         "TablesLoaded": number,
         "TablesLoading": number,
         "TablesQueued": number
      },
      "SourceEndpointArn": "string",
      "Status": "string",
      "StopReason": "string",
```

```
        "TableMappings": "string",
        "TargetEndpointArn": "string",
        "TargetReplicationInstanceArn": "string",
        "TaskData": "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

The replication task that was created.

Type: ReplicationTask object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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

Examples

Example

This example illustrates one usage of CreateReplicationTask.

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:
        123456789012:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
    "TargetEndpointArn":"arn:aws:dms:us-east-1:
        123456789012:endpoint:GVBUJQXJZASXWHTWCLN2WNT57E",
    "ReplicationInstanceArn":"arn:aws:dms:us-east-1:
        123456789012:rep:6USOU366XFJUWATDJGBCJS3VIQ",
    "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:
            123456789012:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
        "ReplicationTaskIdentifier":"task1",
        "ReplicationInstanceArn":"arn:aws:dms:us-east-1:
            123456789012:rep:6USOU366XFJUWATDJGBCJS3VIQ",
        "TableMappings":"{\n \"TableMappings\":
            [\n
                {\n \"Type\": \"Include\",\n \"SourceSchema\": \"/\",
                    \n \"SourceTable\": \"/ \"\n
                }\n
            ]\n
        }\n\n",
        "Status":"creating",
        "ReplicationTaskArn":"arn:aws:dms:us-east-1:
            123456789012:task:OEAMB3NXSTZ6LFYZFEPPBBXPYM",
        "ReplicationTaskCreationDate":1457658407.492,
        "MigrationType":"full-load",
        "TargetEndpointArn":"arn:aws:dms:us-east-1:
            123456789012:endpoint:GVBUJQXJZASXWHTWCLN2WNT57E",
        "ReplicationTaskSettings":"{\"TargetMetadata\":
            {\"TargetSchema\":\"\",\"SupportLobs\":true,\"FullLobMode\":
                true,\"LobChunkSize\":64,\"LimitedSizeLobMode\":
```

```
                false,\"LobMaxSize\":0},\"FullLoadSettings\":{
                    \"FullLoadEnabled\":true,
                    \"TargetTablePrepMode\":\"DROP_AND_CREATE\",
                    \"CreatePkAfterFullLoad\":false,
                    \"StopTaskCachedChangesApplied\":false,
                    \"StopTaskCachedChangesNotApplied\":false,
                    \"ResumeEnabled\":false,
                    \"ResumeMinTableSize\":100000,
                    \"ResumeOnlyClusteredPKTables\":true,
                    \"MaxFullLoadSubTasks\":8,
                    \"TransactionConsistencyTimeout\":600,
                    \"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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

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.

The request accepts the following data in JSON format.

CertificateArn

The Amazon Resource Name (ARN) of the 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

The Secure Sockets Layer (SSL) certificate.

Type: Certificate object

Errors

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

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

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

DeleteConnection

Deletes the connection between a replication instance and an endpoint.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

EndpointArn

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

Type: String

Required: Yes

ReplicationInstanceArn

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

The connection that is being deleted.

Type: Connection object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

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

Examples

Example

This example illustrates one usage of DeleteConnection.

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.DeleteConnection
{
   "ReplicationInstanceArn": "arn:aws:dms:us-
east-1:123456789012:rep:6USOU366XFJUWATDJGBCJS3VIQ",
   "EndpointArn": "arn:aws:dms:us-
east-1:123456789012: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":"deleting",
      "ReplicationInstanceIdentifier":"akshay1",
      "EndpointArn":"arn:aws:dms:us-
east-1:123456789012:endpoint:WKBULDZKUDQZIHPOUUSEH34EMU",
      "EndpointIdentifier":"akshay",
      "ReplicationInstanceArn":"arn:aws:dms:us-
east-1:123456789012: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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteDataProvider

Deletes the specified data provider.

> **Note**
>
> All migration projects associated with the data provider must be deleted or modified before you can delete the data provider.

Request Syntax

```
{
   "DataProviderIdentifier": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

DataProviderIdentifier

The identifier of the data provider to delete.

Type: String

Required: Yes

Response Syntax

```
{
   "DataProvider": {
      "DataProviderArn": "string",
      "DataProviderCreationTime": "string",
      "DataProviderName": "string",
      "Description": "string",
      "Engine": "string",
      "Settings": { ... }
```

```
    }
}
```

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.

DataProvider

The data provider that was deleted.

Type: DataProvider object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

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

Examples

Example

This example illustrates one usage of DeleteDataProvider.

Sample Request

```
{
    "DataProviderIdentifier": "arn:aws:dms:us-east-1:012345678901:data-
provider:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345"
}
```

See Also

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

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

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.

The request accepts the following data in JSON format.

EndpointArn

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

Type: String

Required: Yes

Response Syntax

```
{
   "Endpoint": {
      "CertificateArn": "string",
      "DatabaseName": "string",
      "DmsTransferSettings": {
         "BucketName": "string",
         "ServiceAccessRoleArn": "string"
      },
      "DocDbSettings": {
```

```
      "DatabaseName": "string",
      "DocsToInvestigate": number,
      "ExtractDocId": boolean,
      "KmsKeyId": "string",
      "NestingLevel": "string",
      "Password": "string",
      "Port": number,
      "ReplicateShardCollections": boolean,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "Username": "string",
      "UseUpdateLookUp": boolean
   },
   "DynamoDbSettings": {
      "ServiceAccessRoleArn": "string"
   },
   "ElasticsearchSettings": {
      "EndpointUri": "string",
      "ErrorRetryDuration": number,
      "FullLoadErrorPercentage": number,
      "ServiceAccessRoleArn": "string",
      "UseNewMappingType": boolean
   },
   "EndpointArn": "string",
   "EndpointIdentifier": "string",
   "EndpointType": "string",
   "EngineDisplayName": "string",
   "EngineName": "string",
   "ExternalId": "string",
   "ExternalTableDefinition": "string",
   "ExtraConnectionAttributes": "string",
   "GcpMySQLSettings": {
      "AfterConnectScript": "string",
      "CleanSourceMetadataOnMismatch": boolean,
      "DatabaseName": "string",
      "EventsPollInterval": number,
      "MaxFileSize": number,
      "ParallelLoadThreads": number,
      "Password": "string",
      "Port": number,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
```

```
         "ServerTimezone": "string",
         "TargetDbType": "string",
         "Username": "string"
      },
      "IBMDb2Settings": {
         "CurrentLsn": "string",
         "DatabaseName": "string",
         "KeepCsvFiles": boolean,
         "LoadTimeout": number,
         "MaxFileSize": number,
         "MaxKBytesPerRead": number,
         "Password": "string",
         "Port": number,
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerSecretId": "string",
         "ServerName": "string",
         "SetDataCaptureChanges": boolean,
         "Username": "string",
         "WriteBufferSize": number
      },
      "KafkaSettings": {
         "Broker": "string",
         "IncludeControlDetails": boolean,
         "IncludeNullAndEmpty": boolean,
         "IncludePartitionValue": boolean,
         "IncludeTableAlterOperations": boolean,
         "IncludeTransactionDetails": boolean,
         "MessageFormat": "string",
         "MessageMaxBytes": number,
         "NoHexPrefix": boolean,
         "PartitionIncludeSchemaTable": boolean,
         "SaslMechanism": "string",
         "SaslPassword": "string",
         "SaslUsername": "string",
         "SecurityProtocol": "string",
         "SslCaCertificateArn": "string",
         "SslClientCertificateArn": "string",
         "SslClientKeyArn": "string",
         "SslClientKeyPassword": "string",
         "SslEndpointIdentificationAlgorithm": "string",
         "Topic": "string"
      },
      "KinesisSettings": {
         "IncludeControlDetails": boolean,
```

```
      "IncludeNullAndEmpty": boolean,
      "IncludePartitionValue": boolean,
      "IncludeTableAlterOperations": boolean,
      "IncludeTransactionDetails": boolean,
      "MessageFormat": "string",
      "NoHexPrefix": boolean,
      "PartitionIncludeSchemaTable": boolean,
      "ServiceAccessRoleArn": "string",
      "StreamArn": "string"
   },
   "KmsKeyId": "string",
   "MicrosoftSQLServerSettings": {
      "BcpPacketSize": number,
      "ControlTablesFileGroup": "string",
      "DatabaseName": "string",
      "ForceLobLookup": boolean,
      "Password": "string",
      "Port": number,
      "QuerySingleAlwaysOnNode": boolean,
      "ReadBackupOnly": boolean,
      "SafeguardPolicy": "string",
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "TlogAccessMode": "string",
      "TrimSpaceInChar": boolean,
      "UseBcpFullLoad": boolean,
      "Username": "string",
      "UseThirdPartyBackupDevice": boolean
   },
   "MongoDbSettings": {
      "AuthMechanism": "string",
      "AuthSource": "string",
      "AuthType": "string",
      "DatabaseName": "string",
      "DocsToInvestigate": "string",
      "ExtractDocId": "string",
      "KmsKeyId": "string",
      "NestingLevel": "string",
      "Password": "string",
      "Port": number,
      "ReplicateShardCollections": boolean,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
```

```
         "ServerName": "string",
         "Username": "string",
         "UseUpdateLookUp": boolean
      },
      "MySQLSettings": {
         "AfterConnectScript": "string",
         "CleanSourceMetadataOnMismatch": boolean,
         "DatabaseName": "string",
         "EventsPollInterval": number,
         "ExecuteTimeout": number,
         "MaxFileSize": number,
         "ParallelLoadThreads": number,
         "Password": "string",
         "Port": number,
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerSecretId": "string",
         "ServerName": "string",
         "ServerTimezone": "string",
         "TargetDbType": "string",
         "Username": "string"
      },
      "NeptuneSettings": {
         "ErrorRetryDuration": number,
         "IamAuthEnabled": boolean,
         "MaxFileSize": number,
         "MaxRetryCount": number,
         "S3BucketFolder": "string",
         "S3BucketName": "string",
         "ServiceAccessRoleArn": "string"
      },
      "OracleSettings": {
         "AccessAlternateDirectly": boolean,
         "AdditionalArchivedLogDestId": number,
         "AddSupplementalLogging": boolean,
         "AllowSelectNestedTables": boolean,
         "ArchivedLogDestId": number,
         "ArchivedLogsOnly": boolean,
         "AsmPassword": "string",
         "AsmServer": "string",
         "AsmUser": "string",
         "CharLengthSemantics": "string",
         "ConvertTimestampWithZoneToUTC": boolean,
         "DatabaseName": "string",
         "DirectPathNoLog": boolean,
```

```
      "DirectPathParallelLoad": boolean,
      "EnableHomogenousTablespace": boolean,
      "ExtraArchivedLogDestIds": [ number ],
      "FailTasksOnLobTruncation": boolean,
      "NumberDatatypeScale": number,
      "OpenTransactionWindow": number,
      "OraclePathPrefix": "string",
      "ParallelAsmReadThreads": number,
      "Password": "string",
      "Port": number,
      "ReadAheadBlocks": number,
      "ReadTableSpaceName": boolean,
      "ReplacePathPrefix": boolean,
      "RetryInterval": number,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerOracleAsmAccessRoleArn": "string",
      "SecretsManagerOracleAsmSecretId": "string",
      "SecretsManagerSecretId": "string",
      "SecurityDbEncryption": "string",
      "SecurityDbEncryptionName": "string",
      "ServerName": "string",
      "SpatialDataOptionToGeoJsonFunctionName": "string",
      "StandbyDelayTime": number,
      "TrimSpaceInChar": boolean,
      "UseAlternateFolderForOnline": boolean,
      "UseBFile": boolean,
      "UseDirectPathFullLoad": boolean,
      "UseLogminerReader": boolean,
      "UsePathPrefix": "string",
      "Username": "string"
   },
   "Port": number,
   "PostgreSQLSettings": {
      "AfterConnectScript": "string",
      "BabelfishDatabaseName": "string",
      "CaptureDdls": boolean,
      "DatabaseMode": "string",
      "DatabaseName": "string",
      "DdlArtifactsSchema": "string",
      "ExecuteTimeout": number,
      "FailTasksOnLobTruncation": boolean,
      "HeartbeatEnable": boolean,
      "HeartbeatFrequency": number,
      "HeartbeatSchema": "string",
```

```
      "MapBooleanAsBoolean": boolean,
      "MapJsonbAsClob": boolean,
      "MapLongVarcharAs": "string",
      "MaxFileSize": number,
      "Password": "string",
      "PluginName": "string",
      "Port": number,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "SlotName": "string",
      "TrimSpaceInChar": boolean,
      "Username": "string"
   },
   "RedisSettings": {
      "AuthPassword": "string",
      "AuthType": "string",
      "AuthUserName": "string",
      "Port": number,
      "ServerName": "string",
      "SslCaCertificateArn": "string",
      "SslSecurityProtocol": "string"
   },
   "RedshiftSettings": {
      "AcceptAnyDate": boolean,
      "AfterConnectScript": "string",
      "BucketFolder": "string",
      "BucketName": "string",
      "CaseSensitiveNames": boolean,
      "CompUpdate": boolean,
      "ConnectionTimeout": number,
      "DatabaseName": "string",
      "DateFormat": "string",
      "EmptyAsNull": boolean,
      "EncryptionMode": "string",
      "ExplicitIds": boolean,
      "FileTransferUploadStreams": number,
      "LoadTimeout": number,
      "MapBooleanAsBoolean": boolean,
      "MaxFileSize": number,
      "Password": "string",
      "Port": number,
      "RemoveQuotes": boolean,
      "ReplaceChars": "string",
```

```
      "ReplaceInvalidChars": "string",
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "ServerSideEncryptionKmsKeyId": "string",
      "ServiceAccessRoleArn": "string",
      "TimeFormat": "string",
      "TrimBlanks": boolean,
      "TruncateColumns": boolean,
      "Username": "string",
      "WriteBufferSize": number
   },
   "S3Settings": {
      "AddColumnName": boolean,
      "AddTrailingPaddingCharacter": boolean,
      "BucketFolder": "string",
      "BucketName": "string",
      "CannedAclForObjects": "string",
      "CdcInsertsAndUpdates": boolean,
      "CdcInsertsOnly": boolean,
      "CdcMaxBatchInterval": number,
      "CdcMinFileSize": number,
      "CdcPath": "string",
      "CompressionType": "string",
      "CsvDelimiter": "string",
      "CsvNoSupValue": "string",
      "CsvNullValue": "string",
      "CsvRowDelimiter": "string",
      "DataFormat": "string",
      "DataPageSize": number,
      "DatePartitionDelimiter": "string",
      "DatePartitionEnabled": boolean,
      "DatePartitionSequence": "string",
      "DatePartitionTimezone": "string",
      "DictPageSizeLimit": number,
      "EnableStatistics": boolean,
      "EncodingType": "string",
      "EncryptionMode": "string",
      "ExpectedBucketOwner": "string",
      "ExternalTableDefinition": "string",
      "GlueCatalogGeneration": boolean,
      "IgnoreHeaderRows": number,
      "IncludeOpForFullLoad": boolean,
      "MaxFileSize": number,
```

```
            "ParquetTimestampInMillisecond": boolean,
            "ParquetVersion": "string",
            "PreserveTransactions": boolean,
            "Rfc4180": boolean,
            "RowGroupLength": number,
            "ServerSideEncryptionKmsKeyId": "string",
            "ServiceAccessRoleArn": "string",
            "TimestampColumnName": "string",
            "UseCsvNoSupValue": boolean,
            "UseTaskStartTimeForFullLoadTimestamp": boolean
         },
         "ServerName": "string",
         "ServiceAccessRoleArn": "string",
         "SslMode": "string",
         "Status": "string",
         "SybaseSettings": {
            "DatabaseName": "string",
            "Password": "string",
            "Port": number,
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string",
            "ServerName": "string",
            "Username": "string"
         },
         "TimestreamSettings": {
            "CdcInsertsAndUpdates": boolean,
            "DatabaseName": "string",
            "EnableMagneticStoreWrites": boolean,
            "MagneticDuration": number,
            "MemoryDuration": number
         },
         "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

The endpoint that was deleted.

Type: Endpoint object

Errors

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

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

Examples

Example

This example illustrates one usage of DeleteEndpoint.

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-
1:123456789012: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-
1:123456789012:endpoint:RAAR3R22XSH46S3PWLC3NJAWKM",
      "ServerName":"apurvap-source.cxln7iyxx1lo.us-west-
2.rds.amazonaws.com",
      "EndpointType":"TARGET",
      "KmsKeyId":"arn:aws:kms:us-east-1:123456789012: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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

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

DeleteEventSubscription

Deletes an AWS DMS event subscription.

Request Syntax

```
{
   "SubscriptionName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

SubscriptionName

The name of the DMS event notification subscription to be deleted.

Type: String

Required: Yes

Response Syntax

```
{
   "EventSubscription": {
      "CustomerAwsId": "string",
      "CustSubscriptionId": "string",
      "Enabled": boolean,
      "EventCategoriesList": [ "string" ],
      "SnsTopicArn": "string",
      "SourceIdsList": [ "string" ],
      "SourceType": "string",
      "Status": "string",
      "SubscriptionCreationTime": "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.

EventSubscription

The event subscription that was deleted.

Type: EventSubscription object

Errors

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

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

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

DeleteFleetAdvisorCollector

Deletes the specified Fleet Advisor collector.

Request Syntax

```
{
   "CollectorReferencedId": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

CollectorReferencedId

The reference ID of the Fleet Advisor collector to delete.

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.

CollectorNotFoundFault

The specified collector doesn't exist.

HTTP Status Code: 400

InvalidResourceStateFault

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

HTTP Status Code: 400

See Also

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

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

DeleteFleetAdvisorDatabases

Deletes the specified Fleet Advisor collector databases.

Request Syntax

```
{
   "DatabaseIds": [ "string" ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

DatabaseIds

The IDs of the Fleet Advisor collector databases to delete.

Type: Array of strings

Required: Yes

Response Syntax

```
{
   "DatabaseIds": [ "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.

DatabaseIds

The IDs of the databases that the operation deleted.

Type: Array of strings

Errors

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

InvalidOperationFault

The action or operation requested isn't valid.

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteInstanceProfile

Deletes the specified instance profile.

> **Note**
>
> All migration projects associated with the instance profile must be deleted or modified before you can delete the instance profile.

Request Syntax

```
{
   "InstanceProfileIdentifier": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

InstanceProfileIdentifier

The identifier of the instance profile to delete.

Type: String

Required: Yes

Response Syntax

```
{
   "InstanceProfile": {
      "AvailabilityZone": "string",
      "Description": "string",
      "InstanceProfileArn": "string",
      "InstanceProfileCreationTime": "string",
```

```
      "InstanceProfileName": "string",
      "KmsKeyArn": "string",
      "NetworkType": "string",
      "PubliclyAccessible": boolean,
      "SubnetGroupIdentifier": "string",
      "VpcSecurityGroups": [ "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.

InstanceProfile

The instance profile that was deleted.

Type: InstanceProfile object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

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

Examples

Example

This example illustrates one usage of DeleteInstanceProfile.

Sample Request

```
{
    "InstanceProfileIdentifier": "arn:aws:dms:us-east-1:012345678901:instance-
profile:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345"
}
```

See Also

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

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

DeleteMigrationProject

Deletes the specified migration project.

> **Note**
>
> The migration project must be closed before you can delete it.

Request Syntax

```
{
   "MigrationProjectIdentifier": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

MigrationProjectIdentifier

The name or Amazon Resource Name (ARN) of the migration project to delete.

Type: String

Required: Yes

Response Syntax

```
{
   "MigrationProject": {
      "Description": "string",
      "InstanceProfileArn": "string",
      "InstanceProfileName": "string",
      "MigrationProjectArn": "string",
      "MigrationProjectCreationTime": "string",
      "MigrationProjectName": "string",
      "SchemaConversionApplicationAttributes": {
```

```
         "S3BucketPath": "string",
         "S3BucketRoleArn": "string"
      },
      "SourceDataProviderDescriptors": [
         {
            "DataProviderArn": "string",
            "DataProviderName": "string",
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string"
         }
      ],
      "TargetDataProviderDescriptors": [
         {
            "DataProviderArn": "string",
            "DataProviderName": "string",
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string"
         }
      ],
      "TransformationRules": "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.

MigrationProject

The migration project that was deleted.

Type: MigrationProject object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

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

Examples

Example

This example illustrates one usage of DeleteMigrationProject.

Sample Request

```
{
    "MigrationProjectIdentifier": "arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345"
}
```

See Also

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

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

- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteReplicationConfig

Deletes an AWS DMS Serverless replication configuration. This effectively deprovisions any and all replications that use this configuration. You can't delete the configuration for an AWS DMS Serverless replication that is ongoing. You can delete the configuration when the replication is in a non-RUNNING and non-STARTING state.

Request Syntax

```
{
   "ReplicationConfigArn": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ReplicationConfigArn

The replication config to delete.

Type: String

Required: Yes

Response Syntax

```
{
   "ReplicationConfig": {
      "ComputeConfig": {
         "AvailabilityZone": "string",
         "DnsNameServers": "string",
         "KmsKeyId": "string",
         "MaxCapacityUnits": number,
         "MinCapacityUnits": number,
         "MultiAZ": boolean,
         "PreferredMaintenanceWindow": "string",
         "ReplicationSubnetGroupId": "string",
         "VpcSecurityGroupIds": [ "string" ]
```

```
      },
      "ReplicationConfigArn": "string",
      "ReplicationConfigCreateTime": number,
      "ReplicationConfigIdentifier": "string",
      "ReplicationConfigUpdateTime": number,
      "ReplicationSettings": "string",
      "ReplicationType": "string",
      "SourceEndpointArn": "string",
      "SupplementalSettings": "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.

ReplicationConfig

Configuration parameters returned for the AWS DMS Serverless replication after it is deleted.

Type: ReplicationConfig object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

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

Examples

Example

This example illustrates one usage of DeleteReplicationConfig.

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.DeleteReplicationConfig
{
   "ReplicationConfigArn":"arn:aws:dms:us-east-
1:123456789012:replication-config:UX6OL6MHMMJKFFOXE3H7LLJCMEKBDUG4ZV7DRSI"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
    "ReplicationConfig":"{
        "ReplicationConfigIdentifier":"test-replication-config",
        "ReplicationConfigArn":"arn:aws:dms:us-east-
1:123456789012:replication-config:UX6OL6MHMMJKFFOXE3H7LLJCMEKBDUG4ZV7DRSI",
        "SourceEndpointArn":"arn:aws:dms:us-east-
```

```
1:123456789012:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
        "TargetEndpointArn":"arn:aws:dms:us-east-
1:123456789012:endpoint:GVBUJQXJZASXWHTWCLN2WNT57E",
        "ReplicationConfigCreateTime":1677683717.524,
        "TableMappings":"{\n \"TableMappings\":
            [\n
                {\n \"Type\": \"Include\",\n \"SourceSchema\": \"/\",
                    \n \"SourceTable\": \"/ \"\n
                }\n
            ]\n
        }\n\n",
        "ReplicationTaskSettings":"{\"TargetMetadata\":
            {\"TargetSchema\":\"\",\"SupportLobs\":true,\"FullLobMode\":
                true,\"LobChunkSize\":64,\"LimitedSizeLobMode\":
                false,\"LobMaxSize\":0
            },
            \"FullLoadSettings\":{
                \"FullLoadEnabled\":true,
                \"TargetTablePrepMode\":\"DROP_AND_CREATE\",
                \"CreatePkAfterFullLoad\":false,
                \"StopTaskCachedChangesApplied\":false,
                \"StopTaskCachedChangesNotApplied\":false,
                \"ResumeEnabled\":false,
                \"ResumeMinTableSize\":100000,
                \"ResumeOnlyClusteredPKTables\":true,
                \"MaxFullLoadSubTasks\":8,
                \"TransactionConsistencyTimeout\":600,
                \"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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

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.

The request accepts the following data in JSON format.

ReplicationInstanceArn

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",
      "DnsNameServers": "string",
      "EngineVersion": "string",
      "FreeUntil": number,
```

```
      "InstanceCreateTime": number,
      "KmsKeyId": "string",
      "MultiAZ": boolean,
      "NetworkType": "string",
      "PendingModifiedValues": {
         "AllocatedStorage": number,
         "EngineVersion": "string",
         "MultiAZ": boolean,
         "NetworkType": "string",
         "ReplicationInstanceClass": "string"
      },
      "PreferredMaintenanceWindow": "string",
      "PubliclyAccessible": boolean,
      "ReplicationInstanceArn": "string",
      "ReplicationInstanceClass": "string",
      "ReplicationInstanceIdentifier": "string",
      "ReplicationInstanceIpv6Addresses": [ "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"
            }
         ],
         "SupportedNetworkTypes": [ "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

The replication instance that was deleted.

Type: ReplicationInstance object

Errors

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

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

Examples

Example

This example illustrates one usage of DeleteReplicationInstance.

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-
1:123456789012: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>
{
   "ReplicationInstance":{
      "AvailabilityZone":"us-east-1c",
      "ReplicationInstancePrivateIpAddress":"172.31.15.23",
      "ReplicationInstanceArn":"arn:aws:dms:us-east-
1:123456789012:rep:PWEBBEUNOLU7VEB2OHTEH4I4GQ",
      "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-1:123456789012: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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

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.

The request accepts the following data in JSON format.

ReplicationSubnetGroupIdentifier

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.

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

Examples

Example

This example illustrates one usage of DeleteReplicationSubnetGroup.

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 .NET
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

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.

The request accepts the following data in JSON format.

ReplicationTaskArn

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

Type: String

Required: Yes

Response Syntax

```
{
   "ReplicationTask": {
      "CdcStartPosition": "string",
      "CdcStopPosition": "string",
      "LastFailureMessage": "string",
      "MigrationType": "string",
      "RecoveryCheckpoint": "string",
      "ReplicationInstanceArn": "string",
      "ReplicationTaskArn": "string",
      "ReplicationTaskCreationDate": number,
      "ReplicationTaskIdentifier": "string",
      "ReplicationTaskSettings": "string",
      "ReplicationTaskStartDate": number,
      "ReplicationTaskStats": {
         "ElapsedTimeMillis": number,
```

```
            "FreshStartDate": number,
            "FullLoadFinishDate": number,
            "FullLoadProgressPercent": number,
            "FullLoadStartDate": number,
            "StartDate": number,
            "StopDate": number,
            "TablesErrored": number,
            "TablesLoaded": number,
            "TablesLoading": number,
            "TablesQueued": number
        },
        "SourceEndpointArn": "string",
        "Status": "string",
        "StopReason": "string",
        "TableMappings": "string",
        "TargetEndpointArn": "string",
        "TargetReplicationInstanceArn": "string",
        "TaskData": "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

The deleted replication task.

Type: ReplicationTask object

Errors

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

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteReplicationTaskAssessmentRun

Deletes the record of a single premigration assessment run.

This operation removes all metadata that AWS DMS maintains about this assessment run. However, the operation leaves untouched all information about this assessment run that is stored in your Amazon S3 bucket.

Request Syntax

```
{
   "ReplicationTaskAssessmentRunArn": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ReplicationTaskAssessmentRunArn

Amazon Resource Name (ARN) of the premigration assessment run to be deleted.

Type: String

Required: Yes

Response Syntax

```
{
   "ReplicationTaskAssessmentRun": {
      "AssessmentProgress": {
         "IndividualAssessmentCompletedCount": number,
         "IndividualAssessmentCount": number
      },
      "AssessmentRunName": "string",
      "LastFailureMessage": "string",
      "ReplicationTaskArn": "string",
      "ReplicationTaskAssessmentRunArn": "string",
```

```
      "ReplicationTaskAssessmentRunCreationDate": number,
      "ResultEncryptionMode": "string",
      "ResultKmsKeyArn": "string",
      "ResultLocationBucket": "string",
      "ResultLocationFolder": "string",
      "ServiceAccessRoleArn": "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.

ReplicationTaskAssessmentRun

The `ReplicationTaskAssessmentRun` object for the deleted assessment run.

Type: ReplicationTaskAssessmentRun object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

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

Examples

Example

This example illustrates one usage of DeleteReplicationTaskAssessmentRun.

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.DeleteReplicationTaskAssessmentRun
{
  "ReplicationTaskAssessmentRunArn": "arn:aws:dms:us-west-2:123456789012:assessment-
run:FCBLKM7PRVDJ3S4DJKFZYV6XJE6KDMIUHJX4O4I"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationTaskAssessmentRun": {
    "AssessmentProgress": {
      "IndividualAssessmentCompletedCount": 4,
      "IndividualAssessmentCount": 4
    },
    "AssessmentRunName": "myRun",
```

```
    "ReplicationTaskArn": "arn:aws:dms:us-
west-2:123456789012:task:L6XROPGLRF25LCREVEDPT3XL5QJM5IZNUSVFV6A",
    "ReplicationTaskAssessmentRunArn": "arn:aws:dms:us-west-2:123456789012:assessment-
run:FCBLKM7PRVDJ3S4DJKFZYV6XJE6KDMIUHJX4O4I",
    "ReplicationTaskAssessmentRunCreationDate": 1594068046.933,
    "ResultEncryptionMode": "NONE",
    "ResultLocationBucket": "myBucket",
    "ResultLocationFolder": "myFolder",
    "ServiceAccessRoleArn": "arn:aws:iam::123456789012:role/Admin",
    "Status": "deleting"
  }
}
```

See Also

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

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

DescribeAccountAttributes

Lists all of the AWS DMS attributes for a customer account. These attributes include AWS DMS quotas for the account and a unique account identifier in a particular DMS region. DMS quotas include a list of resource quotas supported by the account, such as the number of replication instances allowed. The description for each resource quota, includes the quota name, current usage toward that quota, and the quota's maximum value. DMS uses the unique account identifier to name each artifact used by DMS in the given region.

This command does not take any parameters.

Response Syntax

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

AccountQuotas

Account quota information.

Type: Array of AccountQuota objects

UniqueAccountIdentifier

A unique AWS DMS identifier for an account in a particular AWS Region. The value of this identifier has the following format: c99999999999. DMS uses this identifier to name artifacts. For example, DMS uses this identifier to name the default Amazon S3 bucket for storing task

assessment reports in a given AWS Region. The format of this S3 bucket name is the following: dms-*AccountNumber-UniqueAccountIdentifier*. Here is an example name for this default S3 bucket: dms-111122223333-c44445555666.

> **Note**
>
> AWS DMS supports the UniqueAccountIdentifier parameter in versions 3.1.4 and later.

Type: String

Errors

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

Examples

Example

This example illustrates one usage of DescribeAccountAttributes.

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
```

```
      }
   ]
   "UniqueAccountIdentifier":"c44445555666"
}
```

See Also

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

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

DescribeApplicableIndividualAssessments

Provides a list of individual assessments that you can specify for a new premigration assessment run, given one or more parameters.

If you specify an existing migration task, this operation provides the default individual assessments you can specify for that task. Otherwise, the specified parameters model elements of a possible migration task on which to base a premigration assessment run.

To use these migration task modeling parameters, you must specify an existing replication instance, a source database engine, a target database engine, and a migration type. This combination of parameters potentially limits the default individual assessments available for an assessment run created for a corresponding migration task.

If you specify no parameters, this operation provides a list of all possible individual assessments that you can specify for an assessment run. If you specify any one of the task modeling parameters, you must specify all of them or the operation cannot provide a list of individual assessments. The only parameter that you can specify alone is for an existing migration task. The specified task definition then determines the default list of individual assessments that you can specify in an assessment run for the task.

Request Syntax

```
{
   "Marker": "string",
   "MaxRecords": number,
   "MigrationType": "string",
   "ReplicationInstanceArn": "string",
   "ReplicationTaskArn": "string",
   "SourceEngineName": "string",
   "TargetEngineName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Marker

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

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.

Type: Integer

Required: No

MigrationType

Name of the migration type that each provided individual assessment must support.

Type: String

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

Required: No

ReplicationInstanceArn

ARN of a replication instance on which you want to base the default list of individual assessments.

Type: String

Required: No

ReplicationTaskArn

Amazon Resource Name (ARN) of a migration task on which you want to base the default list of individual assessments.

Type: String

Required: No

SourceEngineName

Name of a database engine that the specified replication instance supports as a source.

Type: String

Required: No

TargetEngineName

Name of a database engine that the specified replication instance supports as a target.

Type: String

Required: No

Response Syntax

```
{
   "IndividualAssessmentNames": [ "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.

IndividualAssessmentNames

List of names for the individual assessments supported by the premigration assessment run that you start based on the specified request parameters. For more information on the available individual assessments, including compatibility with different migration task configurations, see Working with premigration assessment runs in the *AWS Database Migration Service User Guide.*

Type: Array of strings

Marker

Pagination token returned for you to pass to a subsequent request. If you pass this token as the `Marker` value in a subsequent request, the response includes only records beyond the marker, up to the value specified in the request by `MaxRecords`.

Type: String

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

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

Examples

Example

This example illustrates one usage of DescribeApplicableIndividualAssessments.

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.DescribeApplicableIndividualAssessments
{
  "SourceEngineName": "oracle",
  "TargetEngineName": "postgres",
  "MigrationType": "full-load",
  "ReplicationInstanceArn": "arn:aws:dms:us-
east-1:123456789023:rep:LPIXGJNGKAMDWSAESJNDNECHHZMKBS5OG3H5RVB"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "IndividualAssessmentNames": [
    "full-lob-not-nullable-at-target",
    "table-with-lob-but-without-primary-key-or-unique-constraint",
    "unsupported-data-types-in-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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

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.

The request accepts the following data in JSON format.

Filters

Filters applied to the certificates described in the form of key-value pairs. Valid values are `certificate-arn` and `certificate-id`.

Type: Array of Filter objects

Required: No

Marker

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

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

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

Type: Array of Certificate objects

Marker

The pagination token.

Type: String

Errors

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

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

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.

The request accepts the following data in JSON format.

Filters

The filters applied to the connection.

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

Type: Array of Filter objects

Required: No

Marker

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

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

A description of the connections.

Type: Array of Connection objects

Marker

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.

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeConnections.

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-
1:123456789012: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-
1:123456789012:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
         "EndpointIdentifier":"akssrc1",
         "ReplicationInstanceArn":"arn:aws:dms:us-east-
1:123456789012: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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeConversionConfiguration

Returns configuration parameters for a schema conversion project.

Request Syntax

```
{
   "MigrationProjectIdentifier": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

MigrationProjectIdentifier

The name or Amazon Resource Name (ARN) for the schema conversion project to describe.

Type: String

Required: Yes

Response Syntax

```
{
   "ConversionConfiguration": "string",
   "MigrationProjectIdentifier": "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.

ConversionConfiguration

The configuration parameters for the schema conversion project.

Type: String

MigrationProjectIdentifier

The name or Amazon Resource Name (ARN) for the schema conversion project.

Type: String

Errors

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeConversionConfiguration.

Sample Request

```
awsdms describe-conversion-configuration --migration-project-identifier
arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2

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

DescribeDataProviders

Returns a paginated list of data providers 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.

The request accepts the following data in JSON format.

Filters

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

Valid filter names and values: data-provider-identifier, data provider arn or name

Type: Array of Filter objects

Required: No

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Required: No

MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, AWS DMS includes a pagination token in the response so that you can retrieve the remaining results.

Type: Integer

Required: No

Response Syntax

```
{
   "DataProviders": [
      {
         "DataProviderArn": "string",
         "DataProviderCreationTime": "string",
         "DataProviderName": "string",
         "Description": "string",
         "Engine": "string",
         "Settings": { ... }
      }
   ],
   "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.

DataProviders

A description of data providers.

Type: Array of DataProvider objects

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeDataProviders.

Sample Request

```
{
    "Filters": [
        {
            "Name": "data-provider-identifier",
            "Values": [
```

```
                "arn:aws:dms:us-east-1:012345678901:data-
provider:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345"
            ]
        }
    ],
    "MaxRecords": 20,
    "Marker": "EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345"
}
```

See Also

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

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

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.

The request accepts the following data in JSON format.

Filters

Filters applied to the endpoints.

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

Type: Array of Filter objects

Required: No

Marker

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

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",
         "DmsTransferSettings": {
            "BucketName": "string",
            "ServiceAccessRoleArn": "string"
         },
         "DocDbSettings": {
            "DatabaseName": "string",
            "DocsToInvestigate": number,
            "ExtractDocId": boolean,
            "KmsKeyId": "string",
            "NestingLevel": "string",
            "Password": "string",
            "Port": number,
            "ReplicateShardCollections": boolean,
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string",
            "ServerName": "string",
            "Username": "string",
            "UseUpdateLookUp": boolean
         },
         "DynamoDbSettings": {
            "ServiceAccessRoleArn": "string"
         },
```

```
      "ElasticsearchSettings": {
         "EndpointUri": "string",
         "ErrorRetryDuration": number,
         "FullLoadErrorPercentage": number,
         "ServiceAccessRoleArn": "string",
         "UseNewMappingType": boolean
      },
      "EndpointArn": "string",
      "EndpointIdentifier": "string",
      "EndpointType": "string",
      "EngineDisplayName": "string",
      "EngineName": "string",
      "ExternalId": "string",
      "ExternalTableDefinition": "string",
      "ExtraConnectionAttributes": "string",
      "GcpMySQLSettings": {
         "AfterConnectScript": "string",
         "CleanSourceMetadataOnMismatch": boolean,
         "DatabaseName": "string",
         "EventsPollInterval": number,
         "MaxFileSize": number,
         "ParallelLoadThreads": number,
         "Password": "string",
         "Port": number,
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerSecretId": "string",
         "ServerName": "string",
         "ServerTimezone": "string",
         "TargetDbType": "string",
         "Username": "string"
      },
      "IBMDb2Settings": {
         "CurrentLsn": "string",
         "DatabaseName": "string",
         "KeepCsvFiles": boolean,
         "LoadTimeout": number,
         "MaxFileSize": number,
         "MaxKBytesPerRead": number,
         "Password": "string",
         "Port": number,
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerSecretId": "string",
         "ServerName": "string",
         "SetDataCaptureChanges": boolean,
```

```
            "Username": "string",
            "WriteBufferSize": number
         },
         "KafkaSettings": {
            "Broker": "string",
            "IncludeControlDetails": boolean,
            "IncludeNullAndEmpty": boolean,
            "IncludePartitionValue": boolean,
            "IncludeTableAlterOperations": boolean,
            "IncludeTransactionDetails": boolean,
            "MessageFormat": "string",
            "MessageMaxBytes": number,
            "NoHexPrefix": boolean,
            "PartitionIncludeSchemaTable": boolean,
            "SaslMechanism": "string",
            "SaslPassword": "string",
            "SaslUsername": "string",
            "SecurityProtocol": "string",
            "SslCaCertificateArn": "string",
            "SslClientCertificateArn": "string",
            "SslClientKeyArn": "string",
            "SslClientKeyPassword": "string",
            "SslEndpointIdentificationAlgorithm": "string",
            "Topic": "string"
         },
         "KinesisSettings": {
            "IncludeControlDetails": boolean,
            "IncludeNullAndEmpty": boolean,
            "IncludePartitionValue": boolean,
            "IncludeTableAlterOperations": boolean,
            "IncludeTransactionDetails": boolean,
            "MessageFormat": "string",
            "NoHexPrefix": boolean,
            "PartitionIncludeSchemaTable": boolean,
            "ServiceAccessRoleArn": "string",
            "StreamArn": "string"
         },
         "KmsKeyId": "string",
         "MicrosoftSQLServerSettings": {
            "BcpPacketSize": number,
            "ControlTablesFileGroup": "string",
            "DatabaseName": "string",
            "ForceLobLookup": boolean,
            "Password": "string",
```

```
            "Port": number,
            "QuerySingleAlwaysOnNode": boolean,
            "ReadBackupOnly": boolean,
            "SafeguardPolicy": "string",
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string",
            "ServerName": "string",
            "TlogAccessMode": "string",
            "TrimSpaceInChar": boolean,
            "UseBcpFullLoad": boolean,
            "Username": "string",
            "UseThirdPartyBackupDevice": boolean
         },
         "MongoDbSettings": {
            "AuthMechanism": "string",
            "AuthSource": "string",
            "AuthType": "string",
            "DatabaseName": "string",
            "DocsToInvestigate": "string",
            "ExtractDocId": "string",
            "KmsKeyId": "string",
            "NestingLevel": "string",
            "Password": "string",
            "Port": number,
            "ReplicateShardCollections": boolean,
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string",
            "ServerName": "string",
            "Username": "string",
            "UseUpdateLookUp": boolean
         },
         "MySQLSettings": {
            "AfterConnectScript": "string",
            "CleanSourceMetadataOnMismatch": boolean,
            "DatabaseName": "string",
            "EventsPollInterval": number,
            "ExecuteTimeout": number,
            "MaxFileSize": number,
            "ParallelLoadThreads": number,
            "Password": "string",
            "Port": number,
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string",
            "ServerName": "string",
```

```
            "ServerTimezone": "string",
            "TargetDbType": "string",
            "Username": "string"
         },
         "NeptuneSettings": {
            "ErrorRetryDuration": number,
            "IamAuthEnabled": boolean,
            "MaxFileSize": number,
            "MaxRetryCount": number,
            "S3BucketFolder": "string",
            "S3BucketName": "string",
            "ServiceAccessRoleArn": "string"
         },
         "OracleSettings": {
            "AccessAlternateDirectly": boolean,
            "AdditionalArchivedLogDestId": number,
            "AddSupplementalLogging": boolean,
            "AllowSelectNestedTables": boolean,
            "ArchivedLogDestId": number,
            "ArchivedLogsOnly": boolean,
            "AsmPassword": "string",
            "AsmServer": "string",
            "AsmUser": "string",
            "CharLengthSemantics": "string",
            "ConvertTimestampWithZoneToUTC": boolean,
            "DatabaseName": "string",
            "DirectPathNoLog": boolean,
            "DirectPathParallelLoad": boolean,
            "EnableHomogenousTablespace": boolean,
            "ExtraArchivedLogDestIds": [ number ],
            "FailTasksOnLobTruncation": boolean,
            "NumberDatatypeScale": number,
            "OpenTransactionWindow": number,
            "OraclePathPrefix": "string",
            "ParallelAsmReadThreads": number,
            "Password": "string",
            "Port": number,
            "ReadAheadBlocks": number,
            "ReadTableSpaceName": boolean,
            "ReplacePathPrefix": boolean,
            "RetryInterval": number,
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerOracleAsmAccessRoleArn": "string",
            "SecretsManagerOracleAsmSecretId": "string",
```

```
            "SecretsManagerSecretId": "string",
            "SecurityDbEncryption": "string",
            "SecurityDbEncryptionName": "string",
            "ServerName": "string",
            "SpatialDataOptionToGeoJsonFunctionName": "string",
            "StandbyDelayTime": number,
            "TrimSpaceInChar": boolean,
            "UseAlternateFolderForOnline": boolean,
            "UseBFile": boolean,
            "UseDirectPathFullLoad": boolean,
            "UseLogminerReader": boolean,
            "UsePathPrefix": "string",
            "Username": "string"
         },
         "Port": number,
         "PostgreSQLSettings": {
            "AfterConnectScript": "string",
            "BabelfishDatabaseName": "string",
            "CaptureDdls": boolean,
            "DatabaseMode": "string",
            "DatabaseName": "string",
            "DdlArtifactsSchema": "string",
            "ExecuteTimeout": number,
            "FailTasksOnLobTruncation": boolean,
            "HeartbeatEnable": boolean,
            "HeartbeatFrequency": number,
            "HeartbeatSchema": "string",
            "MapBooleanAsBoolean": boolean,
            "MapJsonbAsClob": boolean,
            "MapLongVarcharAs": "string",
            "MaxFileSize": number,
            "Password": "string",
            "PluginName": "string",
            "Port": number,
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string",
            "ServerName": "string",
            "SlotName": "string",
            "TrimSpaceInChar": boolean,
            "Username": "string"
         },
         "RedisSettings": {
            "AuthPassword": "string",
            "AuthType": "string",
```

```
            "AuthUserName": "string",
            "Port": number,
            "ServerName": "string",
            "SslCaCertificateArn": "string",
            "SslSecurityProtocol": "string"
         },
         "RedshiftSettings": {
            "AcceptAnyDate": boolean,
            "AfterConnectScript": "string",
            "BucketFolder": "string",
            "BucketName": "string",
            "CaseSensitiveNames": boolean,
            "CompUpdate": boolean,
            "ConnectionTimeout": number,
            "DatabaseName": "string",
            "DateFormat": "string",
            "EmptyAsNull": boolean,
            "EncryptionMode": "string",
            "ExplicitIds": boolean,
            "FileTransferUploadStreams": number,
            "LoadTimeout": number,
            "MapBooleanAsBoolean": boolean,
            "MaxFileSize": number,
            "Password": "string",
            "Port": number,
            "RemoveQuotes": boolean,
            "ReplaceChars": "string",
            "ReplaceInvalidChars": "string",
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string",
            "ServerName": "string",
            "ServerSideEncryptionKmsKeyId": "string",
            "ServiceAccessRoleArn": "string",
            "TimeFormat": "string",
            "TrimBlanks": boolean,
            "TruncateColumns": boolean,
            "Username": "string",
            "WriteBufferSize": number
         },
         "S3Settings": {
            "AddColumnName": boolean,
            "AddTrailingPaddingCharacter": boolean,
            "BucketFolder": "string",
            "BucketName": "string",
```

```
            "CannedAclForObjects": "string",
            "CdcInsertsAndUpdates": boolean,
            "CdcInsertsOnly": boolean,
            "CdcMaxBatchInterval": number,
            "CdcMinFileSize": number,
            "CdcPath": "string",
            "CompressionType": "string",
            "CsvDelimiter": "string",
            "CsvNoSupValue": "string",
            "CsvNullValue": "string",
            "CsvRowDelimiter": "string",
            "DataFormat": "string",
            "DataPageSize": number,
            "DatePartitionDelimiter": "string",
            "DatePartitionEnabled": boolean,
            "DatePartitionSequence": "string",
            "DatePartitionTimezone": "string",
            "DictPageSizeLimit": number,
            "EnableStatistics": boolean,
            "EncodingType": "string",
            "EncryptionMode": "string",
            "ExpectedBucketOwner": "string",
            "ExternalTableDefinition": "string",
            "GlueCatalogGeneration": boolean,
            "IgnoreHeaderRows": number,
            "IncludeOpForFullLoad": boolean,
            "MaxFileSize": number,
            "ParquetTimestampInMillisecond": boolean,
            "ParquetVersion": "string",
            "PreserveTransactions": boolean,
            "Rfc4180": boolean,
            "RowGroupLength": number,
            "ServerSideEncryptionKmsKeyId": "string",
            "ServiceAccessRoleArn": "string",
            "TimestampColumnName": "string",
            "UseCsvNoSupValue": boolean,
            "UseTaskStartTimeForFullLoadTimestamp": boolean
        },
        "ServerName": "string",
        "ServiceAccessRoleArn": "string",
        "SslMode": "string",
        "Status": "string",
        "SybaseSettings": {
            "DatabaseName": "string",
```

```
            "Password": "string",
            "Port": number,
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string",
            "ServerName": "string",
            "Username": "string"
         },
         "TimestreamSettings": {
            "CdcInsertsAndUpdates": boolean,
            "DatabaseName": "string",
            "EnableMagneticStoreWrites": boolean,
            "MagneticDuration": number,
            "MemoryDuration": number
         },
         "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

Endpoint description.

Type: Array of Endpoint objects

Marker

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.

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeEndpoints.

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-
1:123456789012:endpoint:SFLP3SJIHID2WOFLWY2OKWKVEE",
         "ServerName":"ec2-52-32-48-61.us-west-2.compute.amazonaws.com",
         "EndpointType":"SOURCE",
         "KmsKeyId":"arn:aws:kms:us-east-1:123456789012:key/945c4e7d-
4ec4-44be-b58a-c8a7adf57dcd",
         "DatabaseName":"sbtest",
         "EngineName":"mysql",
         "EndpointIdentifier":"pri100",
         "Port":8193
      },
      {
         "Username":"admin",
         "Status":"active",
         "EndpointArn":"arn:aws:dms:us-east-
1:123456789012:endpoint:TJTJ2JZCIH3CWFR4VC32WEJRU4",
         "ServerName":"test.oracle.com",
         "EndpointType":"SOURCE",
         "KmsKeyId":"arn:aws:kms:us-east-1:123456789012: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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeEndpointSettings

Returns information about the possible endpoint settings available when you create an endpoint for a specific database engine.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

EngineName

The database engine used for your source or target endpoint.

Type: String

Required: Yes

Marker

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

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.

Type: Integer

Required: No

Response Syntax

```
{
   "EndpointSettings": [
      {
         "Applicability": "string",
         "DefaultValue": "string",
         "EnumValues": [ "string" ],
         "IntValueMax": number,
         "IntValueMin": number,
         "Name": "string",
         "Sensitive": boolean,
         "Type": "string",
         "Units": "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.

EndpointSettings

Descriptions of the endpoint settings available for your source or target database engine.

Type: Array of EndpointSetting objects

Marker

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.

Examples

Example

This example illustrates one usage of DescribeEndpointSettings.

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.DescribeEndpointSettings
{
   "Filters":[
      {
         "Name":"engine-name",
         "Values":[
            "sqlserver"
         ]
      }
   ],
   "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>
{
    "EndpointSettings": [
        {
            "Name": "BcpPacketSize",
            "Type": "integer",
            "Sensitive": false,
            "Applicability": "TARGET_ONLY",
            "IntValueMin": 1,
            "IntValueMax": 100000
        },
        {
            "Name": "ControlTablesFileGroup",
            "Type": "string",
            "Sensitive": false
        },
        {
            "Name": "DatabaseName",
            "Type": "string",
            "Sensitive": false
        },
        {
            "Name": "Password",
            "Type": "string",
            "Sensitive": true
        },
        {
            "Name": "Port",
            "Type": "integer",
            "Sensitive": false
        },
        {
            "Name": "QuerySingleAlwaysOnNode",
            "Type": "boolean",
            "Sensitive": false
        },
        {
            "Name": "ReadBackupOnly",
            "Type": "boolean",
            "Sensitive": false,
```

```
            "Applicability": "SOURCE_ONLY"
        },
        {
            "Name": "SafeguardPolicy",
            "Type": "enum",
            "EnumValues": [
                "rely-on-sql-server-replication-agent",
                "exclusive-automatic-truncation",
                "shared-automatic-truncation"
            ],
            "Sensitive": false,
            "Applicability": "SOURCE_ONLY"
        },
        {
            "Name": "SecretsManagerAccessRoleArn",
            "Type": "string",
            "Sensitive": false
        },
        {
            "Name": "SecretsManagerSecretId",
            "Type": "string",
            "Sensitive": false
        },
        {
            "Name": "ServerName",
            "Type": "string",
            "Sensitive": false
        },
        {
            "Name": "UseBcpFullLoad",
            "Type": "boolean",
            "Sensitive": false,
            "Applicability": "TARGET_ONLY"
        },
        {
            "Name": "UseThirdPartyBackupDevice",
            "Type": "boolean",
            "Sensitive": false
        },
        {
            "Name": "Username",
            "Type": "string",
            "Sensitive": 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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

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.

The request accepts the following data in JSON format.

Filters

Filters applied to the endpoint types.

Valid filter names: engine-name | endpoint-type

Type: Array of Filter objects

Required: No

Marker

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

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",
         "EngineDisplayName": "string",
         "EngineName": "string",
         "ReplicationInstanceEngineMinimumVersion": "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

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

The types of endpoints that are supported.

Type: Array of SupportedEndpointType objects

Errors

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

Examples

Example

This example illustrates one usage of DescribeEndpointTypes.

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":[
            "target"
         ]
      }
   ],
   "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": "aurora",
            "SupportsCDC": true,
            "EndpointType": "source",
            "EngineDisplayName": "Amazon Aurora MySQL"
        },
        {
            "EngineName": "aurora",
            "SupportsCDC": true,
            "EndpointType": "target",
            "EngineDisplayName": "Amazon Aurora MySQL"
        },
        {
            "EngineName": "aurora-serverless",
            "SupportsCDC": true,
            "EndpointType": "target",
            "EngineDisplayName": "Amazon Aurora MySQL Serverless"
        },
        {
            "EngineName": "aurora-postgresql",
            "SupportsCDC": true,
            "EndpointType": "source",
            "EngineDisplayName": "Amazon Aurora PostgreSQL"
        },
        {
            "EngineName": "aurora-postgresql",
            "SupportsCDC": true,
            "EndpointType": "target",
            "EngineDisplayName": "Amazon Aurora PostgreSQL"
```

```
        },
        {
            "EngineName": "aurora-postgresql-serverless",
            "SupportsCDC": true,
            "EndpointType": "target",
            "EngineDisplayName": "Amazon Aurora PostgreSQL Serverless"
        },
        {
            "EngineName": "docdb",
            "SupportsCDC": true,
            "EndpointType": "source",
            "ReplicationInstanceEngineMinimumVersion": "3.1.1",
            "EngineDisplayName": "Amazon DocumentDB (with MongoDB compatibility)"
        },
        {
            "EngineName": "docdb",
            "SupportsCDC": true,
            "EndpointType": "target",
            "ReplicationInstanceEngineMinimumVersion": "3.1.1",
            "EngineDisplayName": "Amazon DocumentDB (with MongoDB compatibility)"
        },
        {
            "EngineName": "dynamodb",
            "SupportsCDC": true,
            "EndpointType": "target",
            "EngineDisplayName": "Amazon DynamoDB"
        },
        {
            "EngineName": "kinesis",
            "SupportsCDC": true,
            "EndpointType": "target",
            "ReplicationInstanceEngineMinimumVersion": "3.1.3",
            "EngineDisplayName": "Amazon Kinesis"
        },
        {
            "EngineName": "neptune",
            "SupportsCDC": false,
            "EndpointType": "target",
            "ReplicationInstanceEngineMinimumVersion": "3.3.2",
            "EngineDisplayName": "Amazon Neptune"
        },
        {
            "EngineName": "opensearch",
            "SupportsCDC": true,
```

```
            "EndpointType": "target",
            "EngineDisplayName": "Amazon OpenSearch Service (successor to Amazon
 Elasticsearch Service)"
        },
        {
            "EngineName": "redshift",
            "SupportsCDC": true,
            "EndpointType": "target",
            "EngineDisplayName": "Amazon Redshift"
        },
        {
            "EngineName": "s3",
            "SupportsCDC": true,
            "EndpointType": "source",
            "EngineDisplayName": "Amazon S3"
        },
        {
            "EngineName": "s3",
            "SupportsCDC": true,
            "EndpointType": "target",
            "EngineDisplayName": "Amazon S3"
        },
        {
            "EngineName": "dms-transfer",
            "SupportsCDC": true,
            "EndpointType": "source",
            "EngineDisplayName": "AWS DMS Transfer"
        },
        {
            "EngineName": "elasticsearch",
            "SupportsCDC": true,
            "EndpointType": "target",
            "ReplicationInstanceEngineMinimumVersion": "3.1.1",
            "EngineDisplayName": "Elasticsearch Service"
        },
        {
            "EngineName": "db2",
            "SupportsCDC": true,
            "EndpointType": "source",
            "EngineDisplayName": "IBM Db2 LUW"
        },
        {
            "EngineName": "kafka",
            "SupportsCDC": true,
```

```
            "EndpointType": "target",
            "ReplicationInstanceEngineMinimumVersion": "3.3.1",
            "EngineDisplayName": "Kafka"
        },
        {
            "EngineName": "mariadb",
            "SupportsCDC": true,
            "EndpointType": "source",
            "EngineDisplayName": "MariaDB"
        },
        {
            "EngineName": "mariadb",
            "SupportsCDC": true,
            "EndpointType": "target",
            "EngineDisplayName": "MariaDB"
        },
        {
            "EngineName": "azuredb",
            "SupportsCDC": false,
            "EndpointType": "source",
            "EngineDisplayName": "Microsoft Azure SQL Database"
        },
        {
            "EngineName": "sqlserver",
            "SupportsCDC": true,
            "EndpointType": "source",
            "EngineDisplayName": "Microsoft SQL Server"
        },
        {
            "EngineName": "sqlserver",
            "SupportsCDC": true,
            "EndpointType": "target",
            "EngineDisplayName": "Microsoft SQL Server"
        },
        {
            "EngineName": "mongodb",
            "SupportsCDC": true,
            "EndpointType": "source",
            "EngineDisplayName": "MongoDB"
        },
        {
            "EngineName": "mysql",
            "SupportsCDC": true,
            "EndpointType": "source",
```

```
            "EngineDisplayName": "MySQL"
        },
        {
            "EngineName": "mysql",
            "SupportsCDC": true,
            "EndpointType": "target",
            "EngineDisplayName": "MySQL"
        },
        {
            "EngineName": "oracle",
            "SupportsCDC": true,
            "EndpointType": "source",
            "EngineDisplayName": "Oracle"
        },
        {
            "EngineName": "oracle",
            "SupportsCDC": true,
            "EndpointType": "target",
            "EngineDisplayName": "Oracle"
        },
        {
            "EngineName": "postgres",
            "SupportsCDC": true,
            "EndpointType": "source",
            "EngineDisplayName": "PostgreSQL"
        },
        {
            "EngineName": "postgres",
            "SupportsCDC": true,
            "EndpointType": "target",
            "EngineDisplayName": "PostgreSQL"
        },
        {
            "EngineName": "redis",
            "SupportsCDC": true,
            "EndpointType": "target",
            "ReplicationInstanceEngineMinimumVersion": "3.4.4",
            "EngineDisplayName": "Redis"
        },
        {
            "EngineName": "sybase",
            "SupportsCDC": true,
            "EndpointType": "source",
            "EngineDisplayName": "SAP Sybase ASE"
```

```
        },
        {
            "EngineName": "sybase",
            "SupportsCDC": true,
            "EndpointType": "target",
            "EngineDisplayName": "SAP Sybase ASE"
        }
    ]
}
```

See Also

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

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

DescribeEngineVersions

Returns information about the replication instance versions used in the project.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Marker

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

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.

Type: Integer

Required: No

Response Syntax

```
{
   "EngineVersions": [
```

```
      {
         "AutoUpgradeDate": number,
         "AvailableUpgrades": [ "string" ],
         "DeprecationDate": number,
         "ForceUpgradeDate": number,
         "LaunchDate": number,
         "Lifecycle": "string",
         "ReleaseStatus": "string",
         "Version": "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.

EngineVersions

Returned `EngineVersion` objects that describe the replication instance engine versions used in the project.

Type: Array of EngineVersion objects

Marker

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.

See Also

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

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

DescribeEventCategories

Lists categories for all event source types, or, if specified, for a specified source type. You can see a list of the event categories and source types in Working with Events and Notifications in the *AWS Database Migration Service User Guide.*

Request Syntax

```
{
   "Filters": [
      {
         "Name": "string",
         "Values": [ "string" ]
      }
   ],
   "SourceType": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Filters

Filters applied to the event categories.

Type: Array of Filter objects

Required: No

SourceType

The type of AWS DMS resource that generates events.

Valid values: replication-instance | replication-task

Type: String

Required: No

Response Syntax

```
{
   "EventCategoryGroupList": [
      {
         "EventCategories": [ "string" ],
         "SourceType": "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.

EventCategoryGroupList

A list of event categories.

Type: Array of EventCategoryGroup objects

Errors

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

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

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

DescribeEvents

Lists events for a given source identifier and source type. You can also specify a start and end time. For more information on AWS DMS events, see Working with Events and Notifications in the *AWS Database Migration Service User Guide.*

Request Syntax

```
{
   "Duration": number,
   "EndTime": number,
   "EventCategories": [ "string" ],
   "Filters": [
      {
         "Name": "string",
         "Values": [ "string" ]
      }
   ],
   "Marker": "string",
   "MaxRecords": number,
   "SourceIdentifier": "string",
   "SourceType": "string",
   "StartTime": number
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Duration

The duration of the events to be listed.

Type: Integer

Required: No

EndTime

The end time for the events to be listed.

Type: Timestamp

Required: No

EventCategories

A list of event categories for the source type that you've chosen.

Type: Array of strings

Required: No

Filters

Filters applied to events. The only valid filter is `replication-instance-id`.

Type: Array of Filter objects

Required: No

Marker

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

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

SourceIdentifier

The identifier of an event source.

Type: String

Required: No

SourceType

The type of AWS DMS resource that generates events.

Valid values: replication-instance | replication-task

Type: String

Valid Values: `replication-instance`

Required: No

StartTime

The start time for the events to be listed.

Type: Timestamp

Required: No

Response Syntax

```
{
   "Events": [
      {
         "Date": number,
         "EventCategories": [ "string" ],
         "Message": "string",
         "SourceIdentifier": "string",
         "SourceType": "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.

Events

The events described.

Type: Array of Event objects

Marker

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.

See Also

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

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

DescribeEventSubscriptions

Lists all the event subscriptions for a customer account. The description of a subscription includes `SubscriptionName`, `SNSTopicARN`, `CustomerID`, `SourceType`, `SourceID`, `CreationTime`, and `Status`.

If you specify `SubscriptionName`, this action lists the description for that subscription.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

Filters applied to event subscriptions.

Valid filter names: event-subscription-arn | event-subscription-id

Type: Array of Filter objects

Required: No

Marker

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

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

SubscriptionName

The name of the AWS DMS event subscription to be described.

Type: String

Required: No

Response Syntax

```
{
   "EventSubscriptionsList": [
      {
         "CustomerAwsId": "string",
         "CustSubscriptionId": "string",
         "Enabled": boolean,
         "EventCategoriesList": [ "string" ],
         "SnsTopicArn": "string",
         "SourceIdsList": [ "string" ],
         "SourceType": "string",
         "Status": "string",
         "SubscriptionCreationTime": "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.

EventSubscriptionsList

A list of event subscriptions.

Type: Array of EventSubscription objects

Marker

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.

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2

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

DescribeExtensionPackAssociations

Returns a paginated list of extension pack associations for the specified migration project. An extension pack is an add-on module that emulates functions present in a source database that are required when converting objects to the target database.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

Filters applied to the extension pack associations described in the form of key-value pairs.

Type: Array of Filter objects

Required: No

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Required: No

MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, AWS DMS includes a pagination token in the response so that you can retrieve the remaining results.

Type: Integer

Required: No

MigrationProjectIdentifier

The name or Amazon Resource Name (ARN) for the migration project.

Type: String

Required: Yes

Response Syntax

```
{
   "Marker": "string",
   "Requests": [
      {
         "Error": { ... },
         "ExportSqlDetails": {
            "ObjectURL": "string",
            "S3ObjectKey": "string"
         },
         "MigrationProjectArn": "string",
         "RequestIdentifier": "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.

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Requests

A paginated list of extension pack associations for the specified migration project.

Type: Array of SchemaConversionRequest objects

Errors

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

Examples

Example

This example illustrates one usage of DescribeExtensionPackAssociations.

Sample Request

```
awsdms describe-extension-pack-associations --migration-project-identifier
 arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345
 --filters Name=request-id,Values=01234567-89ab-cdef-0123-456789abcdef
```

See Also

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

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

DescribeFleetAdvisorCollectors

Returns a list of the Fleet Advisor collectors in your account.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

If you specify any of the following filters, the output includes information for only those collectors that meet the filter criteria:

- `collector-referenced-id` – The ID of the collector agent, for example `d4610ac5-e323-4ad9-bc50-eaf7249dfe9d`.
- `collector-name` – The name of the collector agent.

An example is: `describe-fleet-advisor-collectors --filter Name="collector-referenced-id",Values="d4610ac5-e323-4ad9-bc50-eaf7249dfe9d"`

Type: Array of Filter objects

Required: No

MaxRecords

Sets the maximum number of records returned in the response.

Type: Integer

Required: No

NextToken

If NextToken is returned by a previous response, there are more results available. The value of NextToken is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged.

Type: String

Required: No

Response Syntax

```
{
   "Collectors": [
      {
         "CollectorHealthCheck": {
            "CollectorStatus": "string",
            "LocalCollectorS3Access": boolean,
            "WebCollectorGrantedRoleBasedAccess": boolean,
            "WebCollectorS3Access": boolean
         },
         "CollectorName": "string",
         "CollectorReferencedId": "string",
         "CollectorVersion": "string",
         "CreatedDate": "string",
         "Description": "string",
         "InventoryData": {
            "NumberOfDatabases": number,
            "NumberOfSchemas": number
         },
         "LastDataReceived": "string",
         "ModifiedDate": "string",
         "RegisteredDate": "string",
         "S3BucketName": "string",
         "ServiceAccessRoleArn": "string",
         "VersionStatus": "string"
      }
   ],
   "NextToken": "string"
```

```
}
```

Response Elements

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

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

Collectors

Provides descriptions of the Fleet Advisor collectors, including the collectors' name and ID, and the latest inventory data.

Type: Array of CollectorResponse objects

NextToken

If `NextToken` is returned, there are more results available. The value of `NextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged.

Type: String

Errors

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

InvalidResourceStateFault

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

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET

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

DescribeFleetAdvisorDatabases

Returns a list of Fleet Advisor databases in your account.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

If you specify any of the following filters, the output includes information for only those databases that meet the filter criteria:

- `database-id` – The ID of the database.
- `database-name` – The name of the database.
- `database-engine` – The name of the database engine.
- `server-ip-address` – The IP address of the database server.
- `database-ip-address` – The IP address of the database.
- `collector-name` – The name of the associated Fleet Advisor collector.

An example is: `describe-fleet-advisor-databases --filter Name="database-id",Values="45"`

Type: Array of Filter objects

Required: No

MaxRecords

Sets the maximum number of records returned in the response.

Type: Integer

Required: No

NextToken

If `NextToken` is returned by a previous response, there are more results available. The value of `NextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged.

Type: String

Required: No

Response Syntax

```
{
   "Databases": [
      {
         "Collectors": [
            {
               "CollectorName": "string",
               "CollectorReferencedId": "string"
            }
         ],
         "DatabaseId": "string",
         "DatabaseName": "string",
         "IpAddress": "string",
         "NumberOfSchemas": number,
         "Server": {
            "IpAddress": "string",
            "ServerId": "string",
            "ServerName": "string"
         },
         "SoftwareDetails": {
            "Engine": "string",
            "EngineEdition": "string",
```

```
            "EngineVersion": "string",
            "OsArchitecture": number,
            "ServicePack": "string",
            "SupportLevel": "string",
            "Tooltip": "string"
         }
      }
   ],
   "NextToken": "string"
}
```

Response Elements

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

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

Databases

Provides descriptions of the Fleet Advisor collector databases, including the database's collector, ID, and name.

Type: Array of DatabaseResponse objects

NextToken

If `NextToken` is returned, there are more results available. The value of `NextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged.

Type: String

Errors

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

InvalidResourceStateFault

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

HTTP Status Code: 400

See Also

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

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

DescribeFleetAdvisorLsaAnalysis

Provides descriptions of large-scale assessment (LSA) analyses produced by your Fleet Advisor collectors.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

MaxRecords

Sets the maximum number of records returned in the response.

Type: Integer

Required: No

NextToken

If `NextToken` is returned by a previous response, there are more results available. The value of `NextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged.

Type: String

Required: No

Response Syntax

```
{
   "Analysis": [
      {
```

```
            "LsaAnalysisId": "string",
            "Status": "string"
        }
    ],
    "NextToken": "string"
}
```

Response Elements

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

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

Analysis

A list of `FleetAdvisorLsaAnalysisResponse` objects.

Type: Array of FleetAdvisorLsaAnalysisResponse objects

NextToken

If `NextToken` is returned, there are more results available. The value of `NextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged.

Type: String

Errors

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

InvalidResourceStateFault

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

HTTP Status Code: 400

See Also

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

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

DescribeFleetAdvisorSchemaObjectSummary

Provides descriptions of the schemas discovered by your Fleet Advisor collectors.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

If you specify any of the following filters, the output includes information for only those schema objects that meet the filter criteria:

- `schema-id` – The ID of the schema, for example `d4610ac5-e323-4ad9-bc50-eaf7249dfe9d`.

Example: `describe-fleet-advisor-schema-object-summary --filter Name="schema-id",Values="50"`

Type: Array of Filter objects

Required: No

MaxRecords

Sets the maximum number of records returned in the response.

Type: Integer

Required: No

NextToken

If `NextToken` is returned by a previous response, there are more results available. The value of `NextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged.

Type: String

Required: No

Response Syntax

```
{
   "FleetAdvisorSchemaObjects": [
      {
         "CodeLineCount": number,
         "CodeSize": number,
         "NumberOfObjects": number,
         "ObjectType": "string",
         "SchemaId": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

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

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

FleetAdvisorSchemaObjects

A collection of `FleetAdvisorSchemaObjectResponse` objects.

Type: Array of FleetAdvisorSchemaObjectResponse objects

NextToken

If `NextToken` is returned, there are more results available. The value of `NextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged.

Type: String

Errors

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

InvalidResourceStateFault

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

HTTP Status Code: 400

See Also

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

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

DescribeFleetAdvisorSchemas

Returns a list of schemas detected by Fleet Advisor Collectors in your account.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

If you specify any of the following filters, the output includes information for only those schemas that meet the filter criteria:

- `complexity` – The schema's complexity, for example `Simple`.
- `database-id` – The ID of the schema's database.
- `database-ip-address` – The IP address of the schema's database.
- `database-name` – The name of the schema's database.
- `database-engine` – The name of the schema database's engine.
- `original-schema-name` – The name of the schema's database's main schema.
- `schema-id` – The ID of the schema, for example 15.
- `schema-name` – The name of the schema.
- `server-ip-address` – The IP address of the schema database's server.

An example is: `describe-fleet-advisor-schemas --filter Name="schema-id",Values="50"`

Type: Array of Filter objects

Required: No

MaxRecords

Sets the maximum number of records returned in the response.

Type: Integer

Required: No

NextToken

If `NextToken` is returned by a previous response, there are more results available. The value of `NextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged.

Type: String

Required: No

Response Syntax

```
{
   "FleetAdvisorSchemas": [
      {
         "CodeLineCount": number,
         "CodeSize": number,
         "Complexity": "string",
         "DatabaseInstance": {
            "DatabaseEngine": "string",
            "DatabaseId": "string",
            "DatabaseIpAddress": "string",
            "DatabaseName": "string"
         },
         "OriginalSchema": {
            "DatabaseId": "string",
            "DatabaseIpAddress": "string",
            "DatabaseName": "string",
```

```
            "SchemaId": "string",
            "SchemaName": "string"
         },
         "SchemaId": "string",
         "SchemaName": "string",
         "Server": {
            "IpAddress": "string",
            "ServerId": "string",
            "ServerName": "string"
         },
         "Similarity": number
      }
   ],
   "NextToken": "string"
}
```

Response Elements

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

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

FleetAdvisorSchemas

A collection of SchemaResponse objects.

Type: Array of SchemaResponse objects

NextToken

If NextToken is returned, there are more results available. The value of NextToken is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged.

Type: String

Errors

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

InvalidResourceStateFault

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

HTTP Status Code: 400

See Also

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

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

DescribeInstanceProfiles

Returns a paginated list of instance profiles 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.

The request accepts the following data in JSON format.

Filters

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

Valid filter names and values: instance-profile-identifier, instance profile arn or name

Type: Array of Filter objects

Required: No

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Required: No

MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, AWS DMS includes a pagination token in the response so that you can retrieve the remaining results.

Type: Integer

Required: No

Response Syntax

```
{
   "InstanceProfiles": [
      {
         "AvailabilityZone": "string",
         "Description": "string",
         "InstanceProfileArn": "string",
         "InstanceProfileCreationTime": "string",
         "InstanceProfileName": "string",
         "KmsKeyArn": "string",
         "NetworkType": "string",
         "PubliclyAccessible": boolean,
         "SubnetGroupIdentifier": "string",
         "VpcSecurityGroups": [ "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.

InstanceProfiles

A description of instance profiles.

Type: Array of InstanceProfile objects

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeInstanceProfiles.

Sample Request

```
{
    "Filters": [
        {
            "Name": "instance-profile-identifier",
```

```
            "Values": [
                "arn:aws:dms:us-east-1:012345678901:instance-
profile:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345"
             ]
        }
    ],
    "MaxRecords": 20,
    "Marker": "EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345"
}
```

See Also

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

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

DescribeMetadataModelAssessments

Returns a paginated list of metadata model assessments for your account in the current region.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

Filters applied to the metadata model assessments described in the form of key-value pairs.

Type: Array of Filter objects

Required: No

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Required: No

MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, AWS DMS includes a pagination token in the response so that you can retrieve the remaining results.

Type: Integer

Required: No

MigrationProjectIdentifier

The name or Amazon Resource Name (ARN) of the migration project.

Type: String

Required: Yes

Response Syntax

```
{
   "Marker": "string",
   "Requests": [
      {
         "Error": { ... },
         "ExportSqlDetails": {
            "ObjectURL": "string",
            "S3ObjectKey": "string"
         },
         "MigrationProjectArn": "string",
         "RequestIdentifier": "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.

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Requests

A paginated list of metadata model assessments for the specified migration project.

Type: Array of SchemaConversionRequest objects

Errors

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeMetadataModelAssessments.

Sample Request

```
awsdms describe-metadata-model-assessments --migration-project-identifier
 arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345
```

```
--filters Name=request-id,Values=01234567-89ab-cdef-0123-456789abcdef
```

See Also

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

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

DescribeMetadataModelConversions

Returns a paginated list of metadata model conversions for a migration project.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

Filters applied to the metadata model conversions described in the form of key-value pairs.

Type: Array of Filter objects

Required: No

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Required: No

MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, AWS DMS includes a pagination token in the response so that you can retrieve the remaining results.

Type: Integer

Required: No

MigrationProjectIdentifier

The migration project name or Amazon Resource Name (ARN).

Type: String

Required: Yes

Response Syntax

```
{
   "Marker": "string",
   "Requests": [
      {
         "Error": { ... },
         "ExportSqlDetails": {
            "ObjectURL": "string",
            "S3ObjectKey": "string"
         },
         "MigrationProjectArn": "string",
         "RequestIdentifier": "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.

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Requests

A paginated list of metadata model conversions.

Type: Array of SchemaConversionRequest objects

Errors

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeMetadataModelConversions.

Sample Request

```
awsdms describe-metadata-model-conversions --migration-project-identifier
 arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345
```

```
--filters Name=request-id,Values=01234567-89ab-cdef-0123-456789abcdef
```

See Also

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

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

DescribeMetadataModelExportsAsScript

Returns a paginated list of metadata model exports.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

Filters applied to the metadata model exports described in the form of key-value pairs.

Type: Array of Filter objects

Required: No

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Required: No

MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, AWS DMS includes a pagination token in the response so that you can retrieve the remaining results.

Type: Integer

Required: No

MigrationProjectIdentifier

The migration project name or Amazon Resource Name (ARN).

Type: String

Required: Yes

Response Syntax

```
{
   "Marker": "string",
   "Requests": [
      {
         "Error": { ... },
         "ExportSqlDetails": {
            "ObjectURL": "string",
            "S3ObjectKey": "string"
         },
         "MigrationProjectArn": "string",
         "RequestIdentifier": "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.

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Requests

A paginated list of metadata model exports.

Type: Array of SchemaConversionRequest objects

Errors

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeMetadataModelExportsAsScript.

Sample Request

```
awsdms describe-metadata-model-exports-as-script --migration-project-identifier
 arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345
```

```
--filters Name=request-id,Values=01234567-89ab-cdef-0123-456789abcdef
```

See Also

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

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

DescribeMetadataModelExportsToTarget

Returns a paginated list of metadata model exports.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

Filters applied to the metadata model exports described in the form of key-value pairs.

Type: Array of Filter objects

Required: No

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Required: No

MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, AWS DMS includes a pagination token in the response so that you can retrieve the remaining results.

Type: Integer

Required: No

MigrationProjectIdentifier

The migration project name or Amazon Resource Name (ARN).

Type: String

Required: Yes

Response Syntax

```
{
   "Marker": "string",
   "Requests": [
      {
         "Error": { ... },
         "ExportSqlDetails": {
            "ObjectURL": "string",
            "S3ObjectKey": "string"
         },
         "MigrationProjectArn": "string",
         "RequestIdentifier": "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.

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Requests

A paginated list of metadata model exports.

Type: Array of SchemaConversionRequest objects

Errors

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeMetadataModelExportsToTarget.

Sample Request

```
awsdms describe-metadata-model-exports-to-target --migration-project-identifier
 arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345
```

```
--filters Name=request-id,Values=01234567-89ab-cdef-0123-456789abcdef
```

See Also

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

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

DescribeMetadataModelImports

Returns a paginated list of metadata model imports.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

Filters applied to the metadata model imports described in the form of key-value pairs.

Type: Array of Filter objects

Required: No

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Required: No

MaxRecords

A paginated list of metadata model imports.

Type: Integer

Required: No

MigrationProjectIdentifier

The migration project name or Amazon Resource Name (ARN).

Type: String

Required: Yes

Response Syntax

```
{
   "Marker": "string",
   "Requests": [
      {
         "Error": { ... },
         "ExportSqlDetails": {
            "ObjectURL": "string",
            "S3ObjectKey": "string"
         },
         "MigrationProjectArn": "string",
         "RequestIdentifier": "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.

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Requests

A paginated list of metadata model imports.

Type: Array of SchemaConversionRequest objects

Errors

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeMetadataModelImports.

Sample Request

```
awsdms describe-metadata-model-imports --migration-project-identifier
 arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345
 --filters Name=request-id,Values=01234567-89ab-cdef-0123-456789abcdef
```

See Also

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

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

DescribeMigrationProjects

Returns a paginated list of migration projects 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.

The request accepts the following data in JSON format.

Filters

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

Valid filter names and values:

- instance-profile-identifier, instance profile arn or name
- data-provider-identifier, data provider arn or name
- migration-project-identifier, migration project arn or name

Type: Array of Filter objects

Required: No

Marker

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Required: No

MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, AWS DMS includes a pagination token in the response so that you can retrieve the remaining results.

Type: Integer

Required: No

Response Syntax

```
{
   "Marker": "string",
   "MigrationProjects": [
      {
         "Description": "string",
         "InstanceProfileArn": "string",
         "InstanceProfileName": "string",
         "MigrationProjectArn": "string",
         "MigrationProjectCreationTime": "string",
         "MigrationProjectName": "string",
         "SchemaConversionApplicationAttributes": {
            "S3BucketPath": "string",
            "S3BucketRoleArn": "string"
         },
         "SourceDataProviderDescriptors": [
            {
               "DataProviderArn": "string",
               "DataProviderName": "string",
               "SecretsManagerAccessRoleArn": "string",
               "SecretsManagerSecretId": "string"
            }
         ],
         "TargetDataProviderDescriptors": [
```

```
            {
               "DataProviderArn": "string",
               "DataProviderName": "string",
               "SecretsManagerAccessRoleArn": "string",
               "SecretsManagerSecretId": "string"
            }
         ],
         "TransformationRules": "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

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `Marker` is returned by a previous response, there are more results available. The value of `Marker` is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

MigrationProjects

A description of migration projects.

Type: Array of MigrationProject objects

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeMigrationProjects.

Sample Request

```
{    "Filters": [
        {
            "Name": "migration-project-identifier",
            "Values": [
                "arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ12345678901"
             ]
        }
    ],
    "MaxRecords": 20,
    "Marker": "EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ123456"
}
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

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

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.

The request accepts the following data in JSON format.

Marker

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

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": [
      {
         "AvailabilityZones": [ "string" ],
         "DefaultAllocatedStorage": number,
         "EngineVersion": "string",
         "IncludedAllocatedStorage": number,
         "MaxAllocatedStorage": number,
         "MinAllocatedStorage": number,
         "ReleaseStatus": "string",
         "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

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

The order-able replication instances available.

Type: Array of OrderableReplicationInstance objects

Errors

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

Examples

Example

This example illustrates one usage of DescribeOrderableReplicationInstances.

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
         },
         {
            "MaxAllocatedStorage": 6144,
            "AvailabilityZones": [
                "us-east-1a",
                "us-east-1b",
                "us-east-1c",
                "us-east-1d",
                "us-east-1e"
            ],
```

```
            "ReleaseStatus": "BETA",
            "DefaultAllocatedStorage": 100,
            "ReplicationInstanceClass": "dms.c4.2xlarge",
            "MinAllocatedStorage": 5,
            "EngineVersion": "3.3.0",
            "StorageType": "gp2",
            "IncludedAllocatedStorage": 100
        }
    ]
}
```

See Also

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

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

DescribePendingMaintenanceActions

For internal use only

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

Type: Array of Filter objects

Required: No

Marker

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

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

ReplicationInstanceArn

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

Type: String

Required: No

Response Syntax

```
{
   "Marker": "string",
   "PendingMaintenanceActions": [
      {
         "PendingMaintenanceActionDetails": [
            {
               "Action": "string",
               "AutoAppliedAfterDate": number,
               "CurrentApplyDate": number,
               "Description": "string",
               "ForcedApplyDate": number,
               "OptInStatus": "string"
            }
         ],
         "ResourceIdentifier": "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

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

PendingMaintenanceActions

The pending maintenance action.

Type: Array of ResourcePendingMaintenanceActions objects

Errors

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

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

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

DescribeRecommendationLimitations

Returns a paginated list of limitations for recommendations of target AWS engines.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

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

Type: Array of Filter objects

Required: No

MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, Fleet Advisor includes a pagination token in the response so that you can retrieve the remaining results.

Type: Integer

Required: No

NextToken

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `NextToken` is returned by a previous response, there are more results available. The value of `NextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged.

Type: String

Required: No

Response Syntax

```
{
   "Limitations": [
      {
         "DatabaseId": "string",
         "Description": "string",
         "EngineName": "string",
         "Impact": "string",
         "Name": "string",
         "Type": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

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

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

Limitations

The list of limitations for recommendations of target AWS engines.

Type: Array of Limitation objects

NextToken

The unique pagination token returned for you to pass to a subsequent request. Fleet Advisor returns this token when the number of records in the response is greater than the `MaxRecords` value. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

InvalidResourceStateFault

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

HTTP Status Code: 400

See Also

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

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

- AWS SDK for Ruby V3

DescribeRecommendations

Returns a paginated list of target engine recommendations for your source databases.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

Filters applied to the target engine recommendations described in the form of key-value pairs.

Type: Array of Filter objects

Required: No

MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, Fleet Advisor includes a pagination token in the response so that you can retrieve the remaining results.

Type: Integer

Required: No

NextToken

Specifies the unique pagination token that makes it possible to display the next page of results. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

If `NextToken` is returned by a previous response, there are more results available. The value of `NextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged.

Type: String

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "Recommendations": [
      {
         "CreatedDate": "string",
         "Data": {
            "RdsEngine": {
               "RequirementsToTarget": {
                  "DeploymentOption": "string",
                  "EngineEdition": "string",
                  "EngineVersion": "string",
                  "InstanceMemory": number,
                  "InstanceVcpu": number,
                  "StorageIops": number,
                  "StorageSize": number
               },
               "TargetConfiguration": {
                  "DeploymentOption": "string",
                  "EngineEdition": "string",
                  "EngineVersion": "string",
                  "InstanceMemory": number,
                  "InstanceType": "string",
                  "InstanceVcpu": number,
                  "StorageIops": number,
                  "StorageSize": number,
                  "StorageType": "string"
```

```
                }
             }
          },
          "DatabaseId": "string",
          "EngineName": "string",
          "Preferred": boolean,
          "Settings": {
             "InstanceSizingType": "string",
             "WorkloadType": "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.

NextToken

The unique pagination token returned for you to pass to a subsequent request. Fleet Advisor returns this token when the number of records in the response is greater than the `MaxRecords` value. To retrieve the next page, make the call again using the returned token and keeping all other arguments unchanged.

Type: String

Recommendations

The list of recommendations of target engines that Fleet Advisor created for the source database.

Type: Array of Recommendation objects

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

InvalidResourceStateFault

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

HTTP Status Code: 400

See Also

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

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

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.

The request accepts the following data in JSON format.

EndpointArn

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

The status of the schema.

Type: RefreshSchemasStatus object

Errors

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

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

Examples

Example

This example illustrates one usage of DescribeRefreshSchemasStatus.

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-1:123456789012: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:
            123456789012:endpoint:WKBULDZKUDQZIHPOUUSEH34EMU",
        "ReplicationInstanceArn":"arn:aws:dms:us-east-1:
            123456789012: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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

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

DescribeReplicationConfigs

Returns one or more existing AWS DMS Serverless replication configurations as a list of structures.

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.

The request accepts the following data in JSON format.

Filters

Filters applied to the replication configs.

Type: Array of Filter objects

Required: No

Marker

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

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.

Type: Integer

Required: No

Response Syntax

```
{
   "Marker": "string",
   "ReplicationConfigs": [
      {
         "ComputeConfig": {
            "AvailabilityZone": "string",
            "DnsNameServers": "string",
            "KmsKeyId": "string",
            "MaxCapacityUnits": number,
            "MinCapacityUnits": number,
            "MultiAZ": boolean,
            "PreferredMaintenanceWindow": "string",
            "ReplicationSubnetGroupId": "string",
            "VpcSecurityGroupIds": [ "string" ]
         },
         "ReplicationConfigArn": "string",
         "ReplicationConfigCreateTime": number,
         "ReplicationConfigIdentifier": "string",
         "ReplicationConfigUpdateTime": number,
         "ReplicationSettings": "string",
         "ReplicationType": "string",
         "SourceEndpointArn": "string",
         "SupplementalSettings": "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

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

ReplicationConfigs

Returned configuration parameters that describe each provisioned AWS DMS Serverless replication.

Type: Array of ReplicationConfig objects

Errors

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeReplicationConfigs.

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.DescribeReplicationConfigs
{
   "Filters":[
      {
         "Name":"replication-config-arn",
         "Values":[
            "arn:aws:dms:us-east-
1:123456789012:replication-config:UX6OL6MHMMJKFFOXE3H7LLJCMEKBDUG4ZV7DRSI"
         ]
      }
   ],
   "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>
{
    "ReplicationConfig":"{
        "ReplicationConfigIdentifier":"test-replication-config",
        "ReplicationConfigArn":"arn:aws:dms:us-east-
1:123456789012:replication-config:UX6OL6MHMMJKFFOXE3H7LLJCMEKBDUG4ZV7DRSI",
        "SourceEndpointArn":"arn:aws:dms:us-east-
1:123456789012:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
        "TargetEndpointArn":"arn:aws:dms:us-east-
1:123456789012:endpoint:GVBUJQXJZASXWHTWCLN2WNT57E",
        "ReplicationConfigCreateTime":1677683717.524,
        "TableMappings":"{\n \"TableMappings\":
```

```
            [\n
                {\n \"Type\": \"Include\",\n \"SourceSchema\": \"/\",
                    \n \"SourceTable\": \"/ \"\n
                }\n
            ]\n
        }\n\n",
        "ReplicationTaskSettings":"{\"TargetMetadata\":
            {\"TargetSchema\":\"\",\"SupportLobs\":true,\"FullLobMode\":
                true,\"LobChunkSize\":64,\"LimitedSizeLobMode\":
                false,\"LobMaxSize\":0
            },
            \"FullLoadSettings\":{
                \"FullLoadEnabled\":true,
                \"TargetTablePrepMode\":\"DROP_AND_CREATE\",
                \"CreatePkAfterFullLoad\":false,
                \"StopTaskCachedChangesApplied\":false,
                \"StopTaskCachedChangesNotApplied\":false,
                \"ResumeEnabled\":false,
                \"ResumeMinTableSize\":100000,
                \"ResumeOnlyClusteredPKTables\":true,
                \"MaxFullLoadSubTasks\":8,
                \"TransactionConsistencyTimeout\":600,
                \"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 .NET
- AWS SDK for C++
- AWS SDK for Go v2

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

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.

The request accepts the following data in JSON format.

Filters

Filters applied to replication instances.

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

Type: Array of Filter objects

Required: No

Marker

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

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",
         "DnsNameServers": "string",
         "EngineVersion": "string",
         "FreeUntil": number,
         "InstanceCreateTime": number,
         "KmsKeyId": "string",
         "MultiAZ": boolean,
         "NetworkType": "string",
         "PendingModifiedValues": {
            "AllocatedStorage": number,
            "EngineVersion": "string",
            "MultiAZ": boolean,
            "NetworkType": "string",
            "ReplicationInstanceClass": "string"
         },
         "PreferredMaintenanceWindow": "string",
         "PubliclyAccessible": boolean,
         "ReplicationInstanceArn": "string",
         "ReplicationInstanceClass": "string",
         "ReplicationInstanceIdentifier": "string",
```

```
         "ReplicationInstanceIpv6Addresses": [ "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"
               }
            ],
            "SupportedNetworkTypes": [ "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

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

The replication instances described.

Type: Array of ReplicationInstance objects

Errors

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeReplicationInstances.

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-
1:123456789012: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-
1:123456789012: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":"creating",
        "KmsKeyId":"arn:aws:kms:us-east-1:123456789012: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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeReplicationInstanceTaskLogs

Returns information about the task logs for the specified task.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Marker

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

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

ReplicationInstanceArn

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

Type: String

Required: Yes

Response Syntax

```
{
   "Marker": "string",
   "ReplicationInstanceArn": "string",
   "ReplicationInstanceTaskLogs": [
      {
         "ReplicationInstanceTaskLogSize": number,
         "ReplicationTaskArn": "string",
         "ReplicationTaskName": "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

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

ReplicationInstanceArn

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

Type: String

ReplicationInstanceTaskLogs

An array of replication task log metadata. Each member of the array contains the replication task name, ARN, and task log size (in bytes).

Type: Array of ReplicationInstanceTaskLog objects

Errors

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

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

Examples

Example

This example illustrates one usage of DescribeReplicationInstanceTaskLogs.

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.DescribeReplicationInstanceTaskLogs
{
   "Filters":[
      {
         "Name":"replication-task-arn",
```

```
         "Values":[
            "arn:aws:dms:us-east-
1:237565436:task:MY34U6Z4MSY52GRTIX3O4AY"
         ]
      }
   ],
   "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>
{
     "ReplicationInstanceTaskLogs": [
         {
             "ReplicationTaskArn": "arn:aws:dms:useast-
              1:237565436:task:MY34U6Z4MSY52GRTIX3O4AY",
             "ReplicationTaskName": "mysql-to-ddb",
             "ReplicationInstanceTaskLogSize": 3726134
         }
      ],
      "ReplicationInstanceArn": "arn:aws:dms:us-east-1:237565436:rep:CDSFSFSFFFSSUFCAY"
}
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2

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

DescribeReplications

Provides details on replication progress by returning status information for one or more provisioned AWS DMS Serverless replications.

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.

The request accepts the following data in JSON format.

Filters

Filters applied to the replications.

Type: Array of Filter objects

Required: No

Marker

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

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.

Type: Integer

Required: No

Response Syntax

```
{
   "Marker": "string",
   "Replications": [
      {
         "CdcStartPosition": "string",
         "CdcStartTime": number,
         "CdcStopPosition": "string",
         "FailureMessages": [ "string" ],
         "ProvisionData": {
            "DateNewProvisioningDataAvailable": number,
            "DateProvisioned": number,
            "IsNewProvisioningAvailable": boolean,
            "ProvisionedCapacityUnits": number,
            "ProvisionState": "string",
            "ReasonForNewProvisioningData": "string"
         },
         "RecoveryCheckpoint": "string",
         "ReplicationConfigArn": "string",
         "ReplicationConfigIdentifier": "string",
         "ReplicationCreateTime": number,
         "ReplicationDeprovisionTime": number,
         "ReplicationLastStopTime": number,
         "ReplicationStats": {
            "ElapsedTimeMillis": number,
            "FreshStartDate": number,
            "FullLoadFinishDate": number,
            "FullLoadProgressPercent": number,
            "FullLoadStartDate": number,
            "StartDate": number,
            "StopDate": number,
```

```
            "TablesErrored": number,
            "TablesLoaded": number,
            "TablesLoading": number,
            "TablesQueued": number
         },
         "ReplicationType": "string",
         "ReplicationUpdateTime": number,
         "SourceEndpointArn": "string",
         "StartReplicationType": "string",
         "Status": "string",
         "StopReason": "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

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

Replications

The replication descriptions.

Type: Array of Replication objects

Errors

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeReplications.

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.DescribeReplications
{
   "Filters":[
      {
         "Name":"endpoint-arn",
         "Values":[
            "arn:aws:dms:us-east
1:123456789012:endpoint:WTMG7G6X5TQ5GOQG46WGEBNMPDSH47J5JZHXUFI"
         ]
      }
   ],
   "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>
{
   "Replications": {
      {
         "SourceEndpointArn": "arn:aws:dms:us-east-
1:123456789012:endpoint:5OFSBLSONLVVSYQAY7IBDSMCEHD6NU4FJQ5L7XY",
         "Status": "created",
         "ReplicationConfigIdentifier": "serverless-kms-0",
         "ReplicationStats": {
             "TablesLoading": 0,
             "TablesQueued": 0,
             "TablesErrored": 0,
             "FullLoadProgressPercent": 0,
             "TablesLoaded": 0,
             "ElapsedTimeMillis": 0
         },
         "ReplicationCreateTime": 1679665872.025,
         "ReplicationConfigArn": "arn:aws:dms:us-east-
1:123456789012:replication-config:ZKIB7GSLEJ2CIG5I6FGI6OR6Y25RRIDGG4H5OCY",
         "ReplicationType": "full-load-and-cdc",
         "ReplicationUpdateTime": 1679665872.025,
         "ProvisionData": {
             "IsNewProvisioningAvailable": false,
             "ProvisionedCapacityUnits": 0
         },
         "TargetEndpointArn": "arn:aws:dms:us-west-
2:123456789012:endpoint:WTMG7G6X5TQ5GOQG46WGEBNMPDSH47J5JZHXUFI",
         "FailureMessages": []
      }
   }
}
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET

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

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.

The request accepts the following data in JSON format.

Filters

Filters applied to replication subnet groups.

Valid filter names: replication-subnet-group-id

Type: Array of Filter objects

Required: No

Marker

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

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"
            }
         ],
         "SupportedNetworkTypes": [ "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

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

A description of the replication subnet groups.

Type: Array of ReplicationSubnetGroup objects

Errors

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeReplicationSubnetGroups.

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeReplicationTableStatistics

Returns table and schema statistics for one or more provisioned replications that use a given AWS DMS Serverless replication configuration.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

Filters applied to the replication table statistics.

Type: Array of Filter objects

Required: No

Marker

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

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.

Type: Integer

Required: No

ReplicationConfigArn

The replication config to describe.

Type: String

Required: Yes

Response Syntax

```
{
   "Marker": "string",
   "ReplicationConfigArn": "string",
   "ReplicationTableStatistics": [
      {
         "AppliedDdls": number,
         "AppliedDeletes": number,
         "AppliedInserts": number,
         "AppliedUpdates": number,
         "Ddls": number,
         "Deletes": number,
         "FullLoadCondtnlChkFailedRows": number,
         "FullLoadEndTime": number,
         "FullLoadErrorRows": number,
         "FullLoadReloaded": boolean,
         "FullLoadRows": number,
         "FullLoadStartTime": number,
         "Inserts": number,
         "LastUpdateTime": number,
         "SchemaName": "string",
         "TableName": "string",
         "TableState": "string",
         "Updates": number,
```

```
            "ValidationFailedRecords": number,
            "ValidationPendingRecords": number,
            "ValidationState": "string",
            "ValidationStateDetails": "string",
            "ValidationSuspendedRecords": 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

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

ReplicationConfigArn

The Amazon Resource Name of the replication config.

Type: String

ReplicationTableStatistics

Returns table statistics on the replication, including table name, rows inserted, rows updated, and rows deleted.

Type: Array of TableStatistics objects

Errors

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

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

Examples

Example

This example illustrates one usage of DescribeReplicationTableStatistics.

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.DescribeReplicationTableStatistics
{
   "ReplicationConfigArn": "arn:aws:dms:us-east-
1:123456789012:replication-config: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>
{
   "ReplicationConfigArn": "arn:aws:dms:us-east-
1:123456789012:replication-config:WZVIPF3D4AJSNJASB42D4Z7GBE",
   "TableStatistics": [
      {
         "SchemaName": "travel",
         "TableName": "vehicle",
         "Inserts": 3872,
         "Deletes": 0,
         "Updates": 0,
         "Ddls": 1,
         "AppliedInserts": 3872,
         "AppliedDeletes": 0,
         "AppliedUpdates": 0,
         "AppliedDdls": 1,
         "FullLoadRows": 0,
         "FullLoadCondtnlChkFailedRows": 0,
         "FullLoadErrorRows": 0,
         "FullLoadStartTime": 1658436291.83,
         "FullLoadEndTime": 1658437392.059,
         "FullLoadReloaded": false,
         "LastUpdateTime": 1658437401.063,
         "TableState": "Table completed",
         "ScheduledForReload": false,
         "ValidationPendingRecords": 0,
         "ValidationFailedRecords": 0,
         "ValidationSuspendedRecords": 0,
         "ValidationState": "Not enabled"
      },
      {
         "SchemaName": "travel",
         "TableName": "drivers",
         "Inserts": 20,
         "Deletes": 0,
         "Updates": 0,
         "Ddls": 1,
         "AppliedInserts": 20,
         "AppliedDeletes": 0,
         "AppliedUpdates": 0,
         "AppliedDdls": 1,
         "FullLoadRows": 0,
```

```
            "FullLoadCondtnlChkFailedRows": 0,
            "FullLoadErrorRows": 0,
            "FullLoadStartTime": 1658436291.534,
            "FullLoadEndTime": 1658436483.802,
            "FullLoadReloaded": false,
            "LastUpdateTime": 1658437212.063,
            "TableState": "Table completed",
            "ScheduledForReload": false,
            "ValidationPendingRecords": 0,
            "ValidationFailedRecords": 0,
            "ValidationSuspendedRecords": 0,
            "ValidationState": "Not enabled"
        },
        {
            "SchemaName": "travel",
            "TableName": "passengers",
            "Inserts": 60,
            "Deletes": 0,
            "Updates": 0,
            "Ddls": 1,
            "AppliedInserts": 60,
            "AppliedDeletes": 0,
            "AppliedUpdates": 0,
            "AppliedDdls": 1,
            "FullLoadRows": 0,
            "FullLoadCondtnlChkFailedRows": 0,
            "FullLoadErrorRows": 0,
            "FullLoadStartTime": 1658446502.641,
            "FullLoadEndTime": 1658454293.712,
            "FullLoadReloaded": false,
            "LastUpdateTime": 1658454301.153,
            "TableState": "Table completed",
            "ScheduledForReload": false,
            "ValidationPendingRecords": 0,
            "ValidationFailedRecords": 0,
            "ValidationSuspendedRecords": 0,
            "ValidationState": "Not enabled"
        }
    ]
}
```

See Also

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

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

DescribeReplicationTaskAssessmentResults

Returns the task assessment results from the Amazon S3 bucket that AWS DMS creates in your AWS account. This action always returns the latest results.

For more information about AWS DMS task assessments, see Creating a task assessment report in the *AWS Database Migration Service User Guide*.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Marker

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

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

The Amazon Resource Name (ARN) string that uniquely identifies the task. When this input parameter is specified, the API returns only one result and ignore the values of the `MaxRecords` and `Marker` parameters.

Type: String

Required: No

Response Syntax

```
{
   "BucketName": "string",
   "Marker": "string",
   "ReplicationTaskAssessmentResults": [
      {
         "AssessmentResults": "string",
         "AssessmentResultsFile": "string",
         "AssessmentStatus": "string",
         "ReplicationTaskArn": "string",
         "ReplicationTaskIdentifier": "string",
         "ReplicationTaskLastAssessmentDate": number,
         "S3ObjectUrl": "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.

BucketName

- The Amazon S3 bucket where the task assessment report is located.

Type: String

Marker

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

ReplicationTaskAssessmentResults

The task assessment report.

Type: Array of ReplicationTaskAssessmentResult objects

Errors

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

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeReplicationTaskAssessmentRuns

Returns a paginated list of premigration assessment runs based on filter settings.

These filter settings can specify a combination of premigration assessment runs, migration tasks, replication instances, and assessment run status values.

> **Note**
>
> This operation doesn't return information about individual assessments. For this information, see the `DescribeReplicationTaskIndividualAssessments` operation.

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.

The request accepts the following data in JSON format.

Filters

Filters applied to the premigration assessment runs described in the form of key-value pairs.

Valid filter names: `replication-task-assessment-run-arn`, `replication-task-arn`, `replication-instance-arn`, `status`

Type: Array of Filter objects

Required: No

Marker

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

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.

Type: Integer

Required: No

Response Syntax

```
{
   "Marker": "string",
   "ReplicationTaskAssessmentRuns": [
      {
         "AssessmentProgress": {
            "IndividualAssessmentCompletedCount": number,
            "IndividualAssessmentCount": number
         },
         "AssessmentRunName": "string",
         "LastFailureMessage": "string",
         "ReplicationTaskArn": "string",
         "ReplicationTaskAssessmentRunArn": "string",
         "ReplicationTaskAssessmentRunCreationDate": number,
         "ResultEncryptionMode": "string",
         "ResultKmsKeyArn": "string",
         "ResultLocationBucket": "string",
         "ResultLocationFolder": "string",
         "ServiceAccessRoleArn": "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.

Marker

A pagination token returned for you to pass to a subsequent request. If you pass this token as the `Marker` value in a subsequent request, the response includes only records beyond the marker, up to the value specified in the request by `MaxRecords`.

Type: String

ReplicationTaskAssessmentRuns

One or more premigration assessment runs as specified by `Filters`.

Type: Array of ReplicationTaskAssessmentRun objects

Errors

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeReplicationTaskAssessmentRuns.

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.DescribeReplicationTaskAssessmentRuns
{
  "Filters": [
    {
      "Name": "replication-task-arn",
      "Values": [
        "arn:aws:dms:us-
west-2:123456789012:task:Z5GKNMVRGGFINESYJIQHG4RLONJGRSRVLCBTECQ"
      ]
    }
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationTaskAssessmentRuns": [
    {
      "AssessmentProgress": {
        "IndividualAssessmentCompletedCount": 3,
        "IndividualAssessmentCount": 3
      },
```

```
      "AssessmentRunName": "Assessment-run-2020-07-07-18-15-03",
      "ReplicationTaskArn": "arn:aws:dms:us-
west-2:123456789012:task:Z5GKNMVRGGFINESYJIQHG4RLONJGRSRVLCBTECQ",
      "ReplicationTaskAssessmentRunArn": "arn:aws:dms:us-
west-2:123456789012:assessment-run:OGH64BOBSW535SPB5RFJAU7OCYEHXZTWWUGCXZA",
      "ReplicationTaskAssessmentRunCreationDate": 1594170933.203,
      "ResultEncryptionMode": "NONE",
      "ResultLocationBucket": "myBucket",
      "ResultLocationFolder": "myFolder",
      "ServiceAccessRoleArn": "arn:aws:iam::123456789012:role/Admin",
      "Status": "passed"
    }
  ]
}
```


See Also

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

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

DescribeReplicationTaskIndividualAssessments

Returns a paginated list of individual assessments based on filter settings.

These filter settings can specify a combination of premigration assessment runs, migration tasks, and assessment status values.

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.

The request accepts the following data in JSON format.

Filters

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

Valid filter names: `replication-task-assessment-run-arn`, `replication-task-arn`, `status`

Type: Array of Filter objects

Required: No

Marker

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

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.

Type: Integer

Required: No

Response Syntax

```
{
   "Marker": "string",
   "ReplicationTaskIndividualAssessments": [
      {
         "IndividualAssessmentName": "string",
         "ReplicationTaskAssessmentRunArn": "string",
         "ReplicationTaskIndividualAssessmentArn": "string",
         "ReplicationTaskIndividualAssessmentStartDate": number,
         "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.

Marker

A pagination token returned for you to pass to a subsequent request. If you pass this token as the `Marker` value in a subsequent request, the response includes only records beyond the marker, up to the value specified in the request by `MaxRecords`.

Type: String

ReplicationTaskIndividualAssessments

One or more individual assessments as specified by `Filters`.

Type: Array of ReplicationTaskIndividualAssessment objects

Errors

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeReplicationTaskIndividualAssessments.

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.DescribeReplicationTaskIndividualAssessments
{
  "Filters": [
    {
```

```
      "Name": "replication-task-assessment-run-arn",
      "Values": [
        "arn:aws:dms:us-west-2:123456789012:assessment-
run:TSUXVACQ2UUMXUS5OYQOGXB6FXSAZ4LE3FXRNII",
        "arn:aws:dms:us-west-2:123456789012:assessment-
run:ZQ3KWJEUM7SW2Q2BH5BFMPS525KH56C3G5DHMTQ",
        "arn:aws:dms:us-west-2:123456789012:assessment-
run:3GOFKWZXGIT7ZWBBZOXDDBUS4VPAV63PPOQGFHQ"
      ]
    }
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationTaskIndividualAssessments": [
    {
      "IndividualAssessmentName": "unsupported-data-types-in-source",
      "ReplicationTaskAssessmentRunArn": "arn:aws:dms:us-
west-2:123456789012:assessment-run:3GOFKWZXGIT7ZWBBZOXDDBUS4VPAV63PPOQGFHQ",
      "ReplicationTaskIndividualAssessmentArn": "arn:aws:dms:us-
west-2:123456789012:individual-assessment:TSUXVACQ2UUMXUS5OYQOGXB6FXSAZ4LE3FXRNII",
      "ReplicationTaskIndividualAssessmentStartDate": 1594066482.995,
      "Status": "passed"
    },
    {
      "IndividualAssessmentName": "full-lob-not-nullable-at-target",
      "ReplicationTaskAssessmentRunArn": "arn:aws:dms:us-
west-2:123456789012:assessment-run:3GOFKWZXGIT7ZWBBZOXDDBUS4VPAV63PPOQGFHQ",
      "ReplicationTaskIndividualAssessmentArn": "arn:aws:dms:us-
west-2:123456789012:individual-assessment:ZQ3KWJEUM7SW2Q2BH5BFMPS525KH56C3G5DHMTQ",
      "ReplicationTaskIndividualAssessmentStartDate": 1594066482.989,
      "Status": "passed"
    },
    {
      "IndividualAssessmentName": "table-with-no-primary-key-or-unique-constraint",
```

```
      "ReplicationTaskAssessmentRunArn": "arn:aws:dms:us-
west-2:123456789012:assessment-run:3GOFKWZXGIT7ZWBBZOXDDBUS4VPAV63PPOQGFHQ",
      "ReplicationTaskIndividualAssessmentArn": "arn:aws:dms:us-
west-2:123456789012:individual-assessment:3GOFKWZXGIT7ZWBBZOXDDBUS4VPAV63PPOQGFHQ",
      "ReplicationTaskIndividualAssessmentStartDate": 1594066591.595,
      "Status": "passed"
    }
  ]
}
```

See Also

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

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

DescribeReplicationTasks

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

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

Filters applied to replication tasks.

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

Type: Array of Filter objects

Required: No

Marker

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

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

WithoutSettings

An option to set to avoid returning information about settings. Use this to reduce overhead when setting information is too large. To use this option, choose `true`; otherwise, choose `false` (the default).

Type: Boolean

Required: No

Response Syntax

```
{
   "Marker": "string",
   "ReplicationTasks": [
      {
         "CdcStartPosition": "string",
         "CdcStopPosition": "string",
         "LastFailureMessage": "string",
         "MigrationType": "string",
         "RecoveryCheckpoint": "string",
         "ReplicationInstanceArn": "string",
         "ReplicationTaskArn": "string",
         "ReplicationTaskCreationDate": number,
         "ReplicationTaskIdentifier": "string",
         "ReplicationTaskSettings": "string",
```

```
            "ReplicationTaskStartDate": number,
            "ReplicationTaskStats": {
               "ElapsedTimeMillis": number,
               "FreshStartDate": number,
               "FullLoadFinishDate": number,
               "FullLoadProgressPercent": number,
               "FullLoadStartDate": number,
               "StartDate": number,
               "StopDate": number,
               "TablesErrored": number,
               "TablesLoaded": number,
               "TablesLoading": number,
               "TablesQueued": number
            },
            "SourceEndpointArn": "string",
            "Status": "string",
            "StopReason": "string",
            "TableMappings": "string",
            "TargetEndpointArn": "string",
            "TargetReplicationInstanceArn": "string",
            "TaskData": "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

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

A description of the replication tasks.

Type: Array of ReplicationTask objects

Errors

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeReplicationTasks.

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-
1:123456789012: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-
1:123456789012:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
         "ReplicationTaskIdentifier":"aks145",
         "ReplicationInstanceArn":"arn:aws:dms:us-east-
1:123456789012:rep:6USOU366XFJUWATDJGBCJS3VIQ",
         "TableMappings":"{ \n\t\"TableMappings\": [ {
\n\t\t\"Type\": \"Include\",\n\t\t \"SourceSchema\": \"testDB\",\n\t\t
\"SourceTable\": \"%\" \n\t}, { \n\t\t\"Type\": \"Include\",\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-
1:123456789012:task:RALPZGYI3IUSJCBKKIRBEURKDY",
         "ReplicationTaskCreationDate":1449185680.107,
         "MigrationType":"full-load",
         "TargetEndpointArn":"arn:aws:dms:us-east-
1:123456789012:endpoint:GVBUJQXJZASXWHTWCLN2WNT57E",
         "ReplicationTaskSettings":"{\"TargetMetadata\":{\"TargetSchema\":\"\",
\"SupportLobs\":true,\"FullLobMod
```

```
e\":true,\"LobChunkSize\":64,\"LimitedSizeLobMode\":false,\"LobMaxSize\":0},\
"         FullLoadSettings\":{
            \"FullLoadEnabled\":true,
            \"
TargetTablePrepMode\":\"DO_NOTHING\",
            \"CreatePkAfterFullLoad\":false,
            \"StopTaskCachedChangesApplied\":false,
            \"StopTaskCachedChangesNotApplied\":false,
            \"Re
sumeEnabled\":false,
            \"ResumeMinTableSize\":100000,
            \"ResumeOnlyClusteredPKTabl
es\":true,
            \"MaxFullLoadSubTasks\":8,
            \"TransactionConsistencyTimeout\":600,
            \"C
ommitRate\":10000
         }
      }      "
   }
]
}
```

Example

This example illustrates one usage of DescribeReplicationTasks.

Sample Request

```
aws dms describe-replication-tasks --filters "Name=replication-task-
arn,Values=arn:aws:dms:us-west-2:012345678912:task:AAABBBCCC0123456789YYYZZZ0"
```

Sample Response

```
{
    "ReplicationTasks": [
        {
            "ReplicationTaskIdentifier": "<Task identifier>",
            "SourceEndpointArn": "<Source Endpoint ARN>",
            "TargetEndpointArn": "<Target Endpoint ARN>",
            "ReplicationInstanceArn": "<Instance ARN>",
            "MigrationType": "full-load",
```

```
            "TableMappings": "...output omitted...",
            "ReplicationTaskSettings": "...output omitted...",
            "Status": "ready",
            "StopReason": "Stop Reason NORMAL",
            "ReplicationTaskCreationDate": "2024-02-20T15:05:59.827000+00:00",
            "ReplicationTaskArn": "<Task ARN>",
            "ReplicationTaskStats": {
                "FullLoadProgressPercent": 0,
                "ElapsedTimeMillis": 0,
                "TablesLoaded": 0,
                "TablesLoading": 0,
                "TablesQueued": 0,
                "TablesErrored": 0
            }
        }
    ]
}
```

Example

This example illustrates one usage of DescribeReplicationTasks.

Sample Request

```
aws dms describe-replication-tasks --filters "Name=endpoint-arn,Values=arn:aws:dms:us-
west-2:012345678912:endpoint:AAABBBCCC0123456789YYYZZZ0"
```

Sample Response

```
{
    "ReplicationTasks": [
        {
            "ReplicationTaskIdentifier": "<Task identifier>",
            "SourceEndpointArn": "<Source Endpoint ARN>",
            "TargetEndpointArn": "<Target Endpoint ARN>",
            "ReplicationInstanceArn": "<Instance ARN>",
            "MigrationType": "cdc",
            "TableMappings": "...output omitted...",
            "ReplicationTaskSettings": "...output omitted...",
            "Status": "stopped",
            "StopReason": "Stop Reason NORMAL",
            "ReplicationTaskCreationDate": "2023-12-07T15:26:08.594000+00:00",
            "ReplicationTaskStartDate": "2023-12-07T17:31:09.127000+00:00",
```

```
            "CdcStartPosition": "2023-12-07T15:38:51",
            "RecoveryCheckpoint":
 "checkpoint:V1#156#00000032:00000a55:000c#0#217#00000032:00000a5a:0003#0#213",
            "ReplicationTaskArn": "<Task ARN>",
            "ReplicationTaskStats": {
                "FullLoadProgressPercent": 100,
                "ElapsedTimeMillis": 4262,
                "TablesLoaded": 3,
                "TablesLoading": 0,
                "TablesQueued": 0,
                "TablesErrored": 0,
                "FreshStartDate": "2023-12-07T17:31:16.987000+00:00",
                "StartDate": "2023-12-07T17:31:16.987000+00:00",
                "StopDate": "2023-12-07T17:39:30.181000+00:00"
            }
        }
        {
            "ReplicationTaskIdentifier": "<Task identifier 2>",
            <...>
        },
        {
            "ReplicationTaskIdentifier": "<Task identifier 3>",
            <...>
        }
    ]
}
```

Example

This example illustrates one usage of DescribeReplicationTasks.

Sample Request

```
aws dms describe-replication-tasks --filters "Name=migration-type,Values=full-load,cdc"
```

Sample Response

```
{
    "ReplicationTasks": [
        {
            "ReplicationTaskIdentifier": "<Task identifier>",
            "SourceEndpointArn": "<Source Endpoint ARN>",
            "TargetEndpointArn": "<Target Endpoint ARN>",
```

```
            "ReplicationInstanceArn": "<Instance ARN>",
            "MigrationType": "cdc",
            "TableMappings": "...output omitted...",
            "ReplicationTaskSettings": "...output omitted...",
            "Status": "stopped",
            "StopReason": "Stop Reason NORMAL",
            "ReplicationTaskCreationDate": "2023-12-07T15:26:08.594000+00:00",
            "ReplicationTaskStartDate": "2023-12-07T17:31:09.127000+00:00",
            "CdcStartPosition": "2023-12-07T15:38:51",
            "RecoveryCheckpoint":
  "checkpoint:V1#156#00000032:00000a55:000c#0#217#00000032:00000a5a:0003#0#213",
            "ReplicationTaskArn": "<Task ARN>",
            "ReplicationTaskStats": {
                "FullLoadProgressPercent": 100,
                "ElapsedTimeMillis": 4262,
                "TablesLoaded": 3,
                "TablesLoading": 0,
                "TablesQueued": 0,
                "TablesErrored": 0,
                "FreshStartDate": "2023-12-07T17:31:16.987000+00:00",
                "StartDate": "2023-12-07T17:31:16.987000+00:00",
                "StopDate": "2023-12-07T17:39:30.181000+00:00"
            }
        },
        {
            "ReplicationTaskIdentifier": "<Task identifier>",
            "SourceEndpointArn": "<Source Endpoint ARN>",
            "TargetEndpointArn": "<Target Endpoint ARN>",
            "ReplicationInstanceArn": "<Instance ARN>",
            "MigrationType": "full-load",
            "TableMappings": "...output omitted...",
            "ReplicationTaskSettings": "...output omitted...",
            "Status": "stopped",
            "StopReason": "Stop Reason FULL_LOAD_ONLY_FINISHED",
            "ReplicationTaskCreationDate": "2023-02-28T13:02:34.389000+00:00",
            "ReplicationTaskStartDate": "2023-02-28T14:33:59.617000+00:00",
            "RecoveryCheckpoint":
  "checkpoint:V1#5015#00000007.c99042d0.00000001.000c.01.0000:401032.58563.16#0#0#*#0#0",
            "ReplicationTaskArn": "<Task ARN>",
            "ReplicationTaskStats": {
                "FullLoadProgressPercent": 100,
                "ElapsedTimeMillis": 0,
                "TablesLoaded": 0,
                "TablesLoading": 0,
```

```
                "TablesQueued": 0,
                "TablesErrored": 1,
                "FreshStartDate": "2023-02-28T14:34:10.998000+00:00",
                "StartDate": "2023-02-28T14:34:10.998000+00:00",
                "StopDate": "2023-02-28T14:34:51.004000+00:00"
            }
        }
    ]
}
```

See Also

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

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

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.

The request accepts the following data in JSON format.

EndpointArn

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

Type: String

Required: Yes

Marker

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

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

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

The described schema.

Type: Array of strings

Errors

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

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

Examples

Example

This example illustrates one usage of DescribeSchemas.

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-
1:123456789012:endpoint:WKBULDZKUDQZIHPOUUSEH34EMU",
   "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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeTableStatistics

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

Note that the "last updated" column the DMS console only indicates the time that AWS DMS last updated the table statistics record for a table. It does not indicate the time of the last update to the table.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Filters

Filters applied to table statistics.

Valid filter names: schema-name | table-name | table-state

A combination of filters creates an AND condition where each record matches all specified filters.

Type: Array of Filter objects

Required: No

Marker

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

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 500.

Type: Integer

Required: No

ReplicationTaskArn

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

Type: String

Required: Yes

Response Syntax

```
{
   "Marker": "string",
   "ReplicationTaskArn": "string",
   "TableStatistics": [
      {
         "AppliedDdls": number,
         "AppliedDeletes": number,
         "AppliedInserts": number,
         "AppliedUpdates": number,
         "Ddls": number,
```

```
            "Deletes": number,
            "FullLoadCondtnlChkFailedRows": number,
            "FullLoadEndTime": number,
            "FullLoadErrorRows": number,
            "FullLoadReloaded": boolean,
            "FullLoadRows": number,
            "FullLoadStartTime": number,
            "Inserts": number,
            "LastUpdateTime": number,
            "SchemaName": "string",
            "TableName": "string",
            "TableState": "string",
            "Updates": number,
            "ValidationFailedRecords": number,
            "ValidationPendingRecords": number,
            "ValidationState": "string",
            "ValidationStateDetails": "string",
            "ValidationSuspendedRecords": 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

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

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

Type: String

TableStatistics

The table statistics.

Type: Array of TableStatistics objects

Errors

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

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

Examples

Example

This example illustrates one usage of DescribeTableStatistics.

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": [
        {
            "SchemaName": "travel",
            "TableName": "vehicle",
            "Inserts": 3872,
            "Deletes": 0,
            "Updates": 0,
            "Ddls": 1,
            "AppliedInserts": 3872,
            "AppliedDeletes": 0,
            "AppliedUpdates": 0,
            "AppliedDdls": 1,
            "FullLoadRows": 0,
            "FullLoadCondtnlChkFailedRows": 0,
            "FullLoadErrorRows": 0,
            "FullLoadStartTime": 1658436291.83,
            "FullLoadEndTime": 1658437392.059,
            "FullLoadReloaded": false,
            "LastUpdateTime": 1658437401.063,
            "TableState": "Table completed",
            "ScheduledForReload": false,
            "ValidationPendingRecords": 0,
```

```
            "ValidationFailedRecords": 0,
            "ValidationSuspendedRecords": 0,
            "ValidationState": "Not enabled"
        },
        {
            "SchemaName": "travel",
            "TableName": "drivers",
            "Inserts": 20,
            "Deletes": 0,
            "Updates": 0,
            "Ddls": 1,
            "AppliedInserts": 20,
            "AppliedDeletes": 0,
            "AppliedUpdates": 0,
            "AppliedDdls": 1,
            "FullLoadRows": 0,
            "FullLoadCondtnlChkFailedRows": 0,
            "FullLoadErrorRows": 0,
            "FullLoadStartTime": 1658436291.534,
            "FullLoadEndTime": 1658436483.802,
            "FullLoadReloaded": false,
            "LastUpdateTime": 1658437212.063,
            "TableState": "Table completed",
            "ScheduledForReload": false,
            "ValidationPendingRecords": 0,
            "ValidationFailedRecords": 0,
            "ValidationSuspendedRecords": 0,
            "ValidationState": "Not enabled"
        },
        {
            "SchemaName": "travel",
            "TableName": "passengers",
            "Inserts": 60,
            "Deletes": 0,
            "Updates": 0,
            "Ddls": 1,
            "AppliedInserts": 60,
            "AppliedDeletes": 0,
            "AppliedUpdates": 0,
            "AppliedDdls": 1,
            "FullLoadRows": 0,
            "FullLoadCondtnlChkFailedRows": 0,
            "FullLoadErrorRows": 0,
            "FullLoadStartTime": 1658446502.641,
```

```
            "FullLoadEndTime": 1658454293.712,
            "FullLoadReloaded": false,
            "LastUpdateTime": 1658454301.153,
            "TableState": "Table completed",
            "ScheduledForReload": false,
            "ValidationPendingRecords": 0,
            "ValidationFailedRecords": 0,
            "ValidationSuspendedRecords": 0,
            "ValidationState": "Not enabled"
        }
    ]
}
```

See Also

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

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

ExportMetadataModelAssessment

Saves a copy of a database migration assessment report to your Amazon S3 bucket. AWS DMS can save your assessment report as a comma-separated value (CSV) or a PDF file.

Request Syntax

```
{
   "AssessmentReportTypes": [ "string" ],
   "FileName": "string",
   "MigrationProjectIdentifier": "string",
   "SelectionRules": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

AssessmentReportTypes

The file format of the assessment file.

Type: Array of strings

Array Members: Minimum number of 1 item.

Valid Values: `pdf | csv`

Required: No

FileName

The name of the assessment file to create in your Amazon S3 bucket.

Type: String

Required: No

MigrationProjectIdentifier

The migration project name or Amazon Resource Name (ARN).

Type: String

Required: Yes

SelectionRules

A value that specifies the database objects to assess.

Type: String

Required: Yes

Response Syntax

```
{
   "CsvReport": {
      "ObjectURL": "string",
      "S3ObjectKey": "string"
   },
   "PdfReport": {
      "ObjectURL": "string",
      "S3ObjectKey": "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.

CsvReport

The Amazon S3 details for an assessment exported in CSV format.

Type: ExportMetadataModelAssessmentResultEntry object

PdfReport

The Amazon S3 details for an assessment exported in PDF format.

Type: ExportMetadataModelAssessmentResultEntry object

Errors

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ExportMetadataModelAssessment.

Sample Request

```
awsdms export-metadata-model-assessment --migration-project-identifier
arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345
--selection-rules "{\"rules\": [{\"rule-type\": \"selection\",\"rule-id\": \"1\",
\"rule-name\": \"1\",\"object-locator\": {\"server-name\": \"aurora-pg.cluster-
a1b2c3d4e5f6.us-east-1.rds.amazonaws.com\", \"schema-name\": \"schema1\", \"table-name
\": \"Cities\"},\"rule-action\": \"explicit\"} ]}"
--assessment-report-types PDF --file-name file
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

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

ImportCertificate

Uploads the specified certificate.

Request Syntax

```
{
   "CertificateIdentifier": "string",
   "CertificatePem": "string",
   "CertificateWallet": blob,
   "Tags": [
      {
         "Key": "string",
         "ResourceArn": "string",
         "Value": "string"
      }
   ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

CertificateIdentifier

A customer-assigned name for the certificate. Identifiers must begin with a letter and must contain only ASCII letters, digits, and hyphens. They can't end with a hyphen or contain two consecutive hyphens.

Type: String

Required: Yes

CertificatePem

The contents of a `.pem` file, which contains an X.509 certificate.

Type: String

Required: No

CertificateWallet

The location of an imported Oracle Wallet certificate for use with SSL. Provide the name of a `.sso` file using the `fileb://` prefix. You can't provide the certificate inline.

Example: `filebase64("${path.root}/rds-ca-2019-root.sso")`

Type: Base64-encoded binary data object

Required: No

Tags

The tags associated with the certificate.

Type: Array of Tag objects

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

The certificate to be uploaded.

Type: Certificate object

Errors

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

InvalidCertificateFault

The certificate was not valid.

HTTP Status Code: 400

ResourceAlreadyExistsFault

The resource you are attempting to create already exists.

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

ListTagsForResource

Lists all metadata tags attached to an AWS DMS resource, including replication instance, endpoint, subnet group, and migration task. For more information, see Tag data type description.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

ResourceArn

The Amazon Resource Name (ARN) string that uniquely identifies the AWS DMS resource to list tags for. This returns a list of keys (names of tags) created for the resource and their associated tag values.

Type: String

Required: No

ResourceArnList

List of ARNs that identify multiple AWS DMS resources that you want to list tags for. This returns a list of keys (tag names) and their associated tag values. It also returns each tag's associated `ResourceArn` value, which is the ARN of the resource for which each listed tag is created.

Type: Array of strings

Required: No

Response Syntax

```
{
   "TagList": [
      {
         "Key": "string",
         "ResourceArn": "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

A list of tags for the resource.

Type: Array of Tag objects

Errors

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListTagsForResource.

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-
1:123456789012: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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ModifyConversionConfiguration

Modifies the specified schema conversion configuration using the provided parameters.

Request Syntax

```
{
   "ConversionConfiguration": "string",
   "MigrationProjectIdentifier": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ConversionConfiguration

The new conversion configuration.

Type: String

Required: Yes

MigrationProjectIdentifier

The migration project name or Amazon Resource Name (ARN).

Type: String

Required: Yes

Response Syntax

```
{
   "MigrationProjectIdentifier": "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.

MigrationProjectIdentifier

The name or Amazon Resource Name (ARN) of the modified configuration.

Type: String

Errors

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

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

Examples

Example

This example illustrates one usage of ModifyConversionConfiguration.

Sample Request

```
awsdms modify-conversion-configuration --migration-project-identifier
arn:aws:dms:us-east-1:012345678901:migration-project:01234567-89ab-
cdef-0123-456789abcdef
--conversion-configuration "{\"Common project settings\":{\"ShowSeverityLevelInSql
\":\"CRITICAL\"},\"ORACLE_TO_POSTGRESQL\" : {\"ToTimeZone\":false,
\"LastDayBuiltinFunctionOracle\":false,   \"NextDayBuiltinFunctionOracle\":false,
\"ConvertProceduresToFunction\":false,\"NvlBuiltinFunctionOracle\":false,
\"DbmsAssertBuiltinFunctionOracle\":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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ModifyDataProvider

Modifies the specified data provider using the provided settings.

> **Note**
>
> You must remove the data provider from all migration projects before you can modify it.

Request Syntax

```
{
   "DataProviderIdentifier": "string",
   "DataProviderName": "string",
   "Description": "string",
   "Engine": "string",
   "ExactSettings": boolean,
   "Settings": { ... }
}
```

Request Parameters

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

The request accepts the following data in JSON format.

DataProviderIdentifier

The identifier of the data provider. Identifiers must begin with a letter and must contain only ASCII letters, digits, and hyphens. They can't end with a hyphen, or contain two consecutive hyphens.

Type: String

Required: Yes

DataProviderName

The name of the data provider.

Type: String

Required: No

Description

A user-friendly description of the data provider.

Type: String

Required: No

Engine

The type of database engine for the data provider. Valid values include `"aurora"`, `"aurora-postgresql"`, `"mysql"`, `"oracle"`, `"postgres"`, `"sqlserver"`, `redshift`, `mariadb`, `mongodb`, and `docdb`. A value of `"aurora"` represents Amazon Aurora MySQL-Compatible Edition.

Type: String

Required: No

ExactSettings

If this attribute is Y, the current call to `ModifyDataProvider` replaces all existing data provider settings with the exact settings that you specify in this call. If this attribute is N, the current call to `ModifyDataProvider` does two things:

- It replaces any data provider settings that already exist with new values, for settings with the same names.
- It creates new data provider settings that you specify in the call, for settings with different names.

Type: Boolean

Required: No

Settings

The settings in JSON format for a data provider.

Type: DataProviderSettings object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

Response Syntax

```
{
   "DataProvider": {
      "DataProviderArn": "string",
      "DataProviderCreationTime": "string",
      "DataProviderName": "string",
      "Description": "string",
      "Engine": "string",
      "Settings": { ... }
   }
}
```

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.

DataProvider

The data provider that was modified.

Type: DataProvider object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

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

Examples

Example

This example illustrates one usage of ModifyDataProvider.

Sample Request

```
{
        "DataProviderIdentifier": "arn:aws:dms:us-east-1:012345678901:data-
provider:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345",
        "DataProviderName": "new-name",
        "Engine": "sqlserver",
        "Description": "description",
        "Settings": {
                "MicrosoftSqlServerSettings": {
                        "ServerName": "ServerName2",
                        "Port": 11112,
                        "DatabaseName": "DatabaseName",
                        "SslMode": "none"
                }
        },
        "Tags": [
                {
                    "Key": "access",
                    "Value": "authorizedusers"
                }
        ]
}
```

See Also

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

- AWS Command Line Interface

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ModifyEndpoint

Modifies the specified endpoint.

> **Note**
>
> For a MySQL source or target endpoint, don't explicitly specify the database using the `DatabaseName` request parameter on the `ModifyEndpoint` API call. Specifying `DatabaseName` when you modify a MySQL endpoint replicates all the task tables to this single database. For MySQL endpoints, you specify the database only when you specify the schema in the table-mapping rules of the AWS DMS task.

Request Syntax

```
{
   "CertificateArn": "string",
   "DatabaseName": "string",
   "DmsTransferSettings": {
      "BucketName": "string",
      "ServiceAccessRoleArn": "string"
   },
   "DocDbSettings": {
      "DatabaseName": "string",
      "DocsToInvestigate": number,
      "ExtractDocId": boolean,
      "KmsKeyId": "string",
      "NestingLevel": "string",
      "Password": "string",
      "Port": number,
      "ReplicateShardCollections": boolean,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "Username": "string",
      "UseUpdateLookUp": boolean
   },
   "DynamoDbSettings": {
      "ServiceAccessRoleArn": "string"
   },
   "ElasticsearchSettings": {
```

```
      "EndpointUri": "string",
      "ErrorRetryDuration": number,
      "FullLoadErrorPercentage": number,
      "ServiceAccessRoleArn": "string",
      "UseNewMappingType": boolean
   },
   "EndpointArn": "string",
   "EndpointIdentifier": "string",
   "EndpointType": "string",
   "EngineName": "string",
   "ExactSettings": boolean,
   "ExternalTableDefinition": "string",
   "ExtraConnectionAttributes": "string",
   "GcpMySQLSettings": {
      "AfterConnectScript": "string",
      "CleanSourceMetadataOnMismatch": boolean,
      "DatabaseName": "string",
      "EventsPollInterval": number,
      "MaxFileSize": number,
      "ParallelLoadThreads": number,
      "Password": "string",
      "Port": number,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "ServerTimezone": "string",
      "TargetDbType": "string",
      "Username": "string"
   },
   "IBMDb2Settings": {
      "CurrentLsn": "string",
      "DatabaseName": "string",
      "KeepCsvFiles": boolean,
      "LoadTimeout": number,
      "MaxFileSize": number,
      "MaxKBytesPerRead": number,
      "Password": "string",
      "Port": number,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "SetDataCaptureChanges": boolean,
      "Username": "string",
      "WriteBufferSize": number
```

```
    },
    "KafkaSettings": {
       "Broker": "string",
       "IncludeControlDetails": boolean,
       "IncludeNullAndEmpty": boolean,
       "IncludePartitionValue": boolean,
       "IncludeTableAlterOperations": boolean,
       "IncludeTransactionDetails": boolean,
       "MessageFormat": "string",
       "MessageMaxBytes": number,
       "NoHexPrefix": boolean,
       "PartitionIncludeSchemaTable": boolean,
       "SaslMechanism": "string",
       "SaslPassword": "string",
       "SaslUsername": "string",
       "SecurityProtocol": "string",
       "SslCaCertificateArn": "string",
       "SslClientCertificateArn": "string",
       "SslClientKeyArn": "string",
       "SslClientKeyPassword": "string",
       "SslEndpointIdentificationAlgorithm": "string",
       "Topic": "string"
    },
    "KinesisSettings": {
       "IncludeControlDetails": boolean,
       "IncludeNullAndEmpty": boolean,
       "IncludePartitionValue": boolean,
       "IncludeTableAlterOperations": boolean,
       "IncludeTransactionDetails": boolean,
       "MessageFormat": "string",
       "NoHexPrefix": boolean,
       "PartitionIncludeSchemaTable": boolean,
       "ServiceAccessRoleArn": "string",
       "StreamArn": "string"
    },
    "MicrosoftSQLServerSettings": {
       "BcpPacketSize": number,
       "ControlTablesFileGroup": "string",
       "DatabaseName": "string",
       "ForceLobLookup": boolean,
       "Password": "string",
       "Port": number,
       "QuerySingleAlwaysOnNode": boolean,
       "ReadBackupOnly": boolean,
```

```
      "SafeguardPolicy": "string",
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "TlogAccessMode": "string",
      "TrimSpaceInChar": boolean,
      "UseBcpFullLoad": boolean,
      "Username": "string",
      "UseThirdPartyBackupDevice": boolean
   },
   "MongoDbSettings": {
      "AuthMechanism": "string",
      "AuthSource": "string",
      "AuthType": "string",
      "DatabaseName": "string",
      "DocsToInvestigate": "string",
      "ExtractDocId": "string",
      "KmsKeyId": "string",
      "NestingLevel": "string",
      "Password": "string",
      "Port": number,
      "ReplicateShardCollections": boolean,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "Username": "string",
      "UseUpdateLookUp": boolean
   },
   "MySQLSettings": {
      "AfterConnectScript": "string",
      "CleanSourceMetadataOnMismatch": boolean,
      "DatabaseName": "string",
      "EventsPollInterval": number,
      "ExecuteTimeout": number,
      "MaxFileSize": number,
      "ParallelLoadThreads": number,
      "Password": "string",
      "Port": number,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "ServerTimezone": "string",
      "TargetDbType": "string",
      "Username": "string"
```

```
    },
    "NeptuneSettings": {
       "ErrorRetryDuration": number,
       "IamAuthEnabled": boolean,
       "MaxFileSize": number,
       "MaxRetryCount": number,
       "S3BucketFolder": "string",
       "S3BucketName": "string",
       "ServiceAccessRoleArn": "string"
    },
    "OracleSettings": {
       "AccessAlternateDirectly": boolean,
       "AdditionalArchivedLogDestId": number,
       "AddSupplementalLogging": boolean,
       "AllowSelectNestedTables": boolean,
       "ArchivedLogDestId": number,
       "ArchivedLogsOnly": boolean,
       "AsmPassword": "string",
       "AsmServer": "string",
       "AsmUser": "string",
       "CharLengthSemantics": "string",
       "ConvertTimestampWithZoneToUTC": boolean,
       "DatabaseName": "string",
       "DirectPathNoLog": boolean,
       "DirectPathParallelLoad": boolean,
       "EnableHomogenousTablespace": boolean,
       "ExtraArchivedLogDestIds": [ number ],
       "FailTasksOnLobTruncation": boolean,
       "NumberDatatypeScale": number,
       "OpenTransactionWindow": number,
       "OraclePathPrefix": "string",
       "ParallelAsmReadThreads": number,
       "Password": "string",
       "Port": number,
       "ReadAheadBlocks": number,
       "ReadTableSpaceName": boolean,
       "ReplacePathPrefix": boolean,
       "RetryInterval": number,
       "SecretsManagerAccessRoleArn": "string",
       "SecretsManagerOracleAsmAccessRoleArn": "string",
       "SecretsManagerOracleAsmSecretId": "string",
       "SecretsManagerSecretId": "string",
       "SecurityDbEncryption": "string",
       "SecurityDbEncryptionName": "string",
```

```
      "ServerName": "string",
      "SpatialDataOptionToGeoJsonFunctionName": "string",
      "StandbyDelayTime": number,
      "TrimSpaceInChar": boolean,
      "UseAlternateFolderForOnline": boolean,
      "UseBFile": boolean,
      "UseDirectPathFullLoad": boolean,
      "UseLogminerReader": boolean,
      "UsePathPrefix": "string",
      "Username": "string"
   },
   "Password": "string",
   "Port": number,
   "PostgreSQLSettings": {
      "AfterConnectScript": "string",
      "BabelfishDatabaseName": "string",
      "CaptureDdls": boolean,
      "DatabaseMode": "string",
      "DatabaseName": "string",
      "DdlArtifactsSchema": "string",
      "ExecuteTimeout": number,
      "FailTasksOnLobTruncation": boolean,
      "HeartbeatEnable": boolean,
      "HeartbeatFrequency": number,
      "HeartbeatSchema": "string",
      "MapBooleanAsBoolean": boolean,
      "MapJsonbAsClob": boolean,
      "MapLongVarcharAs": "string",
      "MaxFileSize": number,
      "Password": "string",
      "PluginName": "string",
      "Port": number,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "SlotName": "string",
      "TrimSpaceInChar": boolean,
      "Username": "string"
   },
   "RedisSettings": {
      "AuthPassword": "string",
      "AuthType": "string",
      "AuthUserName": "string",
      "Port": number,
```

```
      "ServerName": "string",
      "SslCaCertificateArn": "string",
      "SslSecurityProtocol": "string"
   },
   "RedshiftSettings": {
      "AcceptAnyDate": boolean,
      "AfterConnectScript": "string",
      "BucketFolder": "string",
      "BucketName": "string",
      "CaseSensitiveNames": boolean,
      "CompUpdate": boolean,
      "ConnectionTimeout": number,
      "DatabaseName": "string",
      "DateFormat": "string",
      "EmptyAsNull": boolean,
      "EncryptionMode": "string",
      "ExplicitIds": boolean,
      "FileTransferUploadStreams": number,
      "LoadTimeout": number,
      "MapBooleanAsBoolean": boolean,
      "MaxFileSize": number,
      "Password": "string",
      "Port": number,
      "RemoveQuotes": boolean,
      "ReplaceChars": "string",
      "ReplaceInvalidChars": "string",
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "ServerSideEncryptionKmsKeyId": "string",
      "ServiceAccessRoleArn": "string",
      "TimeFormat": "string",
      "TrimBlanks": boolean,
      "TruncateColumns": boolean,
      "Username": "string",
      "WriteBufferSize": number
   },
   "S3Settings": {
      "AddColumnName": boolean,
      "AddTrailingPaddingCharacter": boolean,
      "BucketFolder": "string",
      "BucketName": "string",
      "CannedAclForObjects": "string",
      "CdcInsertsAndUpdates": boolean,
```

```
      "CdcInsertsOnly": boolean,
      "CdcMaxBatchInterval": number,
      "CdcMinFileSize": number,
      "CdcPath": "string",
      "CompressionType": "string",
      "CsvDelimiter": "string",
      "CsvNoSupValue": "string",
      "CsvNullValue": "string",
      "CsvRowDelimiter": "string",
      "DataFormat": "string",
      "DataPageSize": number,
      "DatePartitionDelimiter": "string",
      "DatePartitionEnabled": boolean,
      "DatePartitionSequence": "string",
      "DatePartitionTimezone": "string",
      "DictPageSizeLimit": number,
      "EnableStatistics": boolean,
      "EncodingType": "string",
      "EncryptionMode": "string",
      "ExpectedBucketOwner": "string",
      "ExternalTableDefinition": "string",
      "GlueCatalogGeneration": boolean,
      "IgnoreHeaderRows": number,
      "IncludeOpForFullLoad": boolean,
      "MaxFileSize": number,
      "ParquetTimestampInMillisecond": boolean,
      "ParquetVersion": "string",
      "PreserveTransactions": boolean,
      "Rfc4180": boolean,
      "RowGroupLength": number,
      "ServerSideEncryptionKmsKeyId": "string",
      "ServiceAccessRoleArn": "string",
      "TimestampColumnName": "string",
      "UseCsvNoSupValue": boolean,
      "UseTaskStartTimeForFullLoadTimestamp": boolean
   },
   "ServerName": "string",
   "ServiceAccessRoleArn": "string",
   "SslMode": "string",
   "SybaseSettings": {
      "DatabaseName": "string",
      "Password": "string",
      "Port": number,
      "SecretsManagerAccessRoleArn": "string",
```

```
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "Username": "string"
   },
   "TimestreamSettings": {
      "CdcInsertsAndUpdates": boolean,
      "DatabaseName": "string",
      "EnableMagneticStoreWrites": boolean,
      "MagneticDuration": number,
      "MemoryDuration": number
   },
   "Username": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

CertificateArn

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

Type: String

Required: No

DatabaseName

The name of the endpoint database. For a MySQL source or target endpoint, do not specify DatabaseName.

Type: String

Required: No

DmsTransferSettings

The settings in JSON format for the DMS transfer type of source endpoint.

Attributes include the following:

- serviceAccessRoleArn - The Amazon Resource Name (ARN) used by the service access IAM role. The role must allow the `iam:PassRole` action.

- BucketName - The name of the S3 bucket to use.

Shorthand syntax for these settings is as follows: `ServiceAccessRoleArn=string ,BucketName=string`

JSON syntax for these settings is as follows: `{ "ServiceAccessRoleArn": "string", "BucketName": "string"}`

Type: DmsTransferSettings object

Required: No

DocDbSettings

Settings in JSON format for the source DocumentDB endpoint. For more information about the available settings, see the configuration properties section in Using DocumentDB as a Target for AWS Database Migration Service in the *AWS Database Migration Service User Guide.*

Type: DocDbSettings object

Required: No

DynamoDbSettings

Settings in JSON format for the target Amazon DynamoDB endpoint. For information about other available settings, see Using Object Mapping to Migrate Data to DynamoDB in the *AWS Database Migration Service User Guide.*

Type: DynamoDbSettings object

Required: No

ElasticsearchSettings

Settings in JSON format for the target OpenSearch endpoint. For more information about the available settings, see Extra Connection Attributes When Using OpenSearch as a Target for AWS DMS in the *AWS Database Migration Service User Guide.*

Type: ElasticsearchSettings object

Required: No

EndpointArn

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

Type: String

Required: Yes

EndpointIdentifier

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

Type: String

Required: No

EndpointType

The type of endpoint. Valid values are `source` and `target`.

Type: String

Valid Values: `source | target`

Required: No

EngineName

The database engine name. Valid values, depending on the EndpointType, include `"mysql"`, `"oracle"`, `"postgres"`, `"mariadb"`, `"aurora"`, `"aurora-postgresql"`, `"redshift"`, `"s3"`, `"db2"`, `"db2-zos"`, `"azuredb"`, `"sybase"`, `"dynamodb"`, `"mongodb"`, `"kinesis"`, `"kafka"`, `"elasticsearch"`, `"documentdb"`, `"sqlserver"`, `"neptune"`, and `"babelfish"`.

Type: String

Required: No

ExactSettings

If this attribute is Y, the current call to `ModifyEndpoint` replaces all existing endpoint settings with the exact settings that you specify in this call. If this attribute is N, the current call to `ModifyEndpoint` does two things:

- It replaces any endpoint settings that already exist with new values, for settings with the same names.
- It creates new endpoint settings that you specify in the call, for settings with different names.

For example, if you call `create-endpoint ... --endpoint-settings '{"a":1}' ...`, the endpoint has the following endpoint settings: `'{"a":1}'`. If you then call `modify-endpoint ... --endpoint-settings '{"b":2}' ...` for the same endpoint, the endpoint has the following settings: `'{"a":1,"b":2}'`.

However, suppose that you follow this with a call to `modify-endpoint ... --endpoint-settings '{"b":2}' --exact-settings ...` for that same endpoint again. Then the endpoint has the following settings: `'{"b":2}'`. All existing settings are replaced with the exact settings that you specify.

Type: Boolean

Required: No

ExternalTableDefinition

The external table definition.

Type: String

Required: No

ExtraConnectionAttributes

Additional attributes associated with the connection. To reset this parameter, pass the empty string ("") as an argument.

Type: String

Required: No

GcpMySQLSettings

Settings in JSON format for the source GCP MySQL endpoint.

Type: GcpMySQLSettings object

Required: No

IBMDb2Settings

Settings in JSON format for the source IBM Db2 LUW endpoint. For information about other available settings, see Extra connection attributes when using Db2 LUW as a source for AWS DMS in the *AWS Database Migration Service User Guide.*

Type: IBMDb2Settings object

Required: No

KafkaSettings

Settings in JSON format for the target Apache Kafka endpoint. For more information about the available settings, see Using object mapping to migrate data to a Kafka topic in the *AWS Database Migration Service User Guide.*

Type: KafkaSettings object

Required: No

KinesisSettings

Settings in JSON format for the target endpoint for Amazon Kinesis Data Streams. For more information about the available settings, see Using object mapping to migrate data to a Kinesis data stream in the *AWS Database Migration Service User Guide.*

Type: KinesisSettings object

Required: No

MicrosoftSQLServerSettings

Settings in JSON format for the source and target Microsoft SQL Server endpoint. For information about other available settings, see Extra connection attributes when using SQL Server as a source for AWS DMS and Extra connection attributes when using SQL Server as a target for AWS DMS in the *AWS Database Migration Service User Guide.*

Type: MicrosoftSQLServerSettings object

Required: No

MongoDbSettings

Settings in JSON format for the source MongoDB endpoint. For more information about the available settings, see the configuration properties section in Endpoint configuration settings when using MongoDB as a source for AWS Database Migration Service in the *AWS Database Migration Service User Guide.*

Type: MongoDbSettings object

Required: No

MySQLSettings

Settings in JSON format for the source and target MySQL endpoint. For information about other available settings, see Extra connection attributes when using MySQL as a source for AWS DMS and Extra connection attributes when using a MySQL-compatible database as a target for AWS DMS in the *AWS Database Migration Service User Guide.*

Type: MySQLSettings object

Required: No

NeptuneSettings

Settings in JSON format for the target Amazon Neptune endpoint. For more information about the available settings, see Specifying graph-mapping rules using Gremlin and R2RML for Amazon Neptune as a target in the *AWS Database Migration Service User Guide.*

Type: NeptuneSettings object

Required: No

OracleSettings

Settings in JSON format for the source and target Oracle endpoint. For information about other available settings, see Extra connection attributes when using Oracle as a source for AWS DMS and Extra connection attributes when using Oracle as a target for AWS DMS in the *AWS Database Migration Service User Guide.*

Type: OracleSettings object

Required: No

Password

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

Type: String

Required: No

Port

The port used by the endpoint database.

Type: Integer

Required: No

PostgreSQLSettings

Settings in JSON format for the source and target PostgreSQL endpoint. For information about other available settings, see Extra connection attributes when using PostgreSQL as a source for AWS DMS and Extra connection attributes when using PostgreSQL as a target for AWS DMS in the *AWS Database Migration Service User Guide.*

Type: PostgreSQLSettings object

Required: No

RedisSettings

Settings in JSON format for the Redis target endpoint.

Type: RedisSettings object

Required: No

RedshiftSettings

Provides information that defines an Amazon Redshift endpoint.

Type: RedshiftSettings object

Required: No

S3Settings

Settings in JSON format for the target Amazon S3 endpoint. For more information about the available settings, see Extra Connection Attributes When Using Amazon S3 as a Target for AWS DMS in the *AWS Database Migration Service User Guide.*

Type: S3Settings object

Required: No

ServerName

The name of the server where the endpoint database resides.

Type: String

Required: No

ServiceAccessRoleArn

The Amazon Resource Name (ARN) for the IAM role you want to use to modify the endpoint. The role must allow the `iam:PassRole` action.

Type: String

Required: No

SslMode

The SSL mode used to connect to the endpoint. The default value is none.

Type: String

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

Required: No

SybaseSettings

Settings in JSON format for the source and target SAP ASE endpoint. For information about other available settings, see Extra connection attributes when using SAP ASE as a source for AWS DMS and Extra connection attributes when using SAP ASE as a target for AWS DMS in the *AWS Database Migration Service User Guide.*

Type: SybaseSettings object

Required: No

TimestreamSettings

Settings in JSON format for the target Amazon Timestream endpoint.

Type: TimestreamSettings object

Required: No

Username

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

Type: String

Required: No

Response Syntax

```
{
   "Endpoint": {
      "CertificateArn": "string",
      "DatabaseName": "string",
      "DmsTransferSettings": {
         "BucketName": "string",
         "ServiceAccessRoleArn": "string"
      },
      "DocDbSettings": {
         "DatabaseName": "string",
         "DocsToInvestigate": number,
         "ExtractDocId": boolean,
         "KmsKeyId": "string",
         "NestingLevel": "string",
         "Password": "string",
         "Port": number,
         "ReplicateShardCollections": boolean,
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerSecretId": "string",
         "ServerName": "string",
         "Username": "string",
         "UseUpdateLookUp": boolean
      },
      "DynamoDbSettings": {
         "ServiceAccessRoleArn": "string"
      },
      "ElasticsearchSettings": {
         "EndpointUri": "string",
         "ErrorRetryDuration": number,
         "FullLoadErrorPercentage": number,
         "ServiceAccessRoleArn": "string",
         "UseNewMappingType": boolean
      },
      "EndpointArn": "string",
      "EndpointIdentifier": "string",
      "EndpointType": "string",
      "EngineDisplayName": "string",
      "EngineName": "string",
      "ExternalId": "string",
      "ExternalTableDefinition": "string",
      "ExtraConnectionAttributes": "string",
```

```
      "GcpMySQLSettings": {
         "AfterConnectScript": "string",
         "CleanSourceMetadataOnMismatch": boolean,
         "DatabaseName": "string",
         "EventsPollInterval": number,
         "MaxFileSize": number,
         "ParallelLoadThreads": number,
         "Password": "string",
         "Port": number,
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerSecretId": "string",
         "ServerName": "string",
         "ServerTimezone": "string",
         "TargetDbType": "string",
         "Username": "string"
      },
      "IBMDb2Settings": {
         "CurrentLsn": "string",
         "DatabaseName": "string",
         "KeepCsvFiles": boolean,
         "LoadTimeout": number,
         "MaxFileSize": number,
         "MaxKBytesPerRead": number,
         "Password": "string",
         "Port": number,
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerSecretId": "string",
         "ServerName": "string",
         "SetDataCaptureChanges": boolean,
         "Username": "string",
         "WriteBufferSize": number
      },
      "KafkaSettings": {
         "Broker": "string",
         "IncludeControlDetails": boolean,
         "IncludeNullAndEmpty": boolean,
         "IncludePartitionValue": boolean,
         "IncludeTableAlterOperations": boolean,
         "IncludeTransactionDetails": boolean,
         "MessageFormat": "string",
         "MessageMaxBytes": number,
         "NoHexPrefix": boolean,
         "PartitionIncludeSchemaTable": boolean,
         "SaslMechanism": "string",
```

```
      "SaslPassword": "string",
      "SaslUsername": "string",
      "SecurityProtocol": "string",
      "SslCaCertificateArn": "string",
      "SslClientCertificateArn": "string",
      "SslClientKeyArn": "string",
      "SslClientKeyPassword": "string",
      "SslEndpointIdentificationAlgorithm": "string",
      "Topic": "string"
   },
   "KinesisSettings": {
      "IncludeControlDetails": boolean,
      "IncludeNullAndEmpty": boolean,
      "IncludePartitionValue": boolean,
      "IncludeTableAlterOperations": boolean,
      "IncludeTransactionDetails": boolean,
      "MessageFormat": "string",
      "NoHexPrefix": boolean,
      "PartitionIncludeSchemaTable": boolean,
      "ServiceAccessRoleArn": "string",
      "StreamArn": "string"
   },
   "KmsKeyId": "string",
   "MicrosoftSQLServerSettings": {
      "BcpPacketSize": number,
      "ControlTablesFileGroup": "string",
      "DatabaseName": "string",
      "ForceLobLookup": boolean,
      "Password": "string",
      "Port": number,
      "QuerySingleAlwaysOnNode": boolean,
      "ReadBackupOnly": boolean,
      "SafeguardPolicy": "string",
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "TlogAccessMode": "string",
      "TrimSpaceInChar": boolean,
      "UseBcpFullLoad": boolean,
      "Username": "string",
      "UseThirdPartyBackupDevice": boolean
   },
   "MongoDbSettings": {
      "AuthMechanism": "string",
```

```
      "AuthSource": "string",
      "AuthType": "string",
      "DatabaseName": "string",
      "DocsToInvestigate": "string",
      "ExtractDocId": "string",
      "KmsKeyId": "string",
      "NestingLevel": "string",
      "Password": "string",
      "Port": number,
      "ReplicateShardCollections": boolean,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "Username": "string",
      "UseUpdateLookUp": boolean
   },
   "MySQLSettings": {
      "AfterConnectScript": "string",
      "CleanSourceMetadataOnMismatch": boolean,
      "DatabaseName": "string",
      "EventsPollInterval": number,
      "ExecuteTimeout": number,
      "MaxFileSize": number,
      "ParallelLoadThreads": number,
      "Password": "string",
      "Port": number,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "ServerTimezone": "string",
      "TargetDbType": "string",
      "Username": "string"
   },
   "NeptuneSettings": {
      "ErrorRetryDuration": number,
      "IamAuthEnabled": boolean,
      "MaxFileSize": number,
      "MaxRetryCount": number,
      "S3BucketFolder": "string",
      "S3BucketName": "string",
      "ServiceAccessRoleArn": "string"
   },
   "OracleSettings": {
      "AccessAlternateDirectly": boolean,
```

```
            "AdditionalArchivedLogDestId": number,
            "AddSupplementalLogging": boolean,
            "AllowSelectNestedTables": boolean,
            "ArchivedLogDestId": number,
            "ArchivedLogsOnly": boolean,
            "AsmPassword": "string",
            "AsmServer": "string",
            "AsmUser": "string",
            "CharLengthSemantics": "string",
            "ConvertTimestampWithZoneToUTC": boolean,
            "DatabaseName": "string",
            "DirectPathNoLog": boolean,
            "DirectPathParallelLoad": boolean,
            "EnableHomogenousTablespace": boolean,
            "ExtraArchivedLogDestIds": [ number ],
            "FailTasksOnLobTruncation": boolean,
            "NumberDatatypeScale": number,
            "OpenTransactionWindow": number,
            "OraclePathPrefix": "string",
            "ParallelAsmReadThreads": number,
            "Password": "string",
            "Port": number,
            "ReadAheadBlocks": number,
            "ReadTableSpaceName": boolean,
            "ReplacePathPrefix": boolean,
            "RetryInterval": number,
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerOracleAsmAccessRoleArn": "string",
            "SecretsManagerOracleAsmSecretId": "string",
            "SecretsManagerSecretId": "string",
            "SecurityDbEncryption": "string",
            "SecurityDbEncryptionName": "string",
            "ServerName": "string",
            "SpatialDataOptionToGeoJsonFunctionName": "string",
            "StandbyDelayTime": number,
            "TrimSpaceInChar": boolean,
            "UseAlternateFolderForOnline": boolean,
            "UseBFile": boolean,
            "UseDirectPathFullLoad": boolean,
            "UseLogminerReader": boolean,
            "UsePathPrefix": "string",
            "Username": "string"
        },
        "Port": number,
```

```
      "PostgreSQLSettings": {
         "AfterConnectScript": "string",
         "BabelfishDatabaseName": "string",
         "CaptureDdls": boolean,
         "DatabaseMode": "string",
         "DatabaseName": "string",
         "DdlArtifactsSchema": "string",
         "ExecuteTimeout": number,
         "FailTasksOnLobTruncation": boolean,
         "HeartbeatEnable": boolean,
         "HeartbeatFrequency": number,
         "HeartbeatSchema": "string",
         "MapBooleanAsBoolean": boolean,
         "MapJsonbAsClob": boolean,
         "MapLongVarcharAs": "string",
         "MaxFileSize": number,
         "Password": "string",
         "PluginName": "string",
         "Port": number,
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerSecretId": "string",
         "ServerName": "string",
         "SlotName": "string",
         "TrimSpaceInChar": boolean,
         "Username": "string"
      },
      "RedisSettings": {
         "AuthPassword": "string",
         "AuthType": "string",
         "AuthUserName": "string",
         "Port": number,
         "ServerName": "string",
         "SslCaCertificateArn": "string",
         "SslSecurityProtocol": "string"
      },
      "RedshiftSettings": {
         "AcceptAnyDate": boolean,
         "AfterConnectScript": "string",
         "BucketFolder": "string",
         "BucketName": "string",
         "CaseSensitiveNames": boolean,
         "CompUpdate": boolean,
         "ConnectionTimeout": number,
         "DatabaseName": "string",
```

```
      "DateFormat": "string",
      "EmptyAsNull": boolean,
      "EncryptionMode": "string",
      "ExplicitIds": boolean,
      "FileTransferUploadStreams": number,
      "LoadTimeout": number,
      "MapBooleanAsBoolean": boolean,
      "MaxFileSize": number,
      "Password": "string",
      "Port": number,
      "RemoveQuotes": boolean,
      "ReplaceChars": "string",
      "ReplaceInvalidChars": "string",
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "ServerSideEncryptionKmsKeyId": "string",
      "ServiceAccessRoleArn": "string",
      "TimeFormat": "string",
      "TrimBlanks": boolean,
      "TruncateColumns": boolean,
      "Username": "string",
      "WriteBufferSize": number
   },
   "S3Settings": {
      "AddColumnName": boolean,
      "AddTrailingPaddingCharacter": boolean,
      "BucketFolder": "string",
      "BucketName": "string",
      "CannedAclForObjects": "string",
      "CdcInsertsAndUpdates": boolean,
      "CdcInsertsOnly": boolean,
      "CdcMaxBatchInterval": number,
      "CdcMinFileSize": number,
      "CdcPath": "string",
      "CompressionType": "string",
      "CsvDelimiter": "string",
      "CsvNoSupValue": "string",
      "CsvNullValue": "string",
      "CsvRowDelimiter": "string",
      "DataFormat": "string",
      "DataPageSize": number,
      "DatePartitionDelimiter": "string",
      "DatePartitionEnabled": boolean,
```

```
      "DatePartitionSequence": "string",
      "DatePartitionTimezone": "string",
      "DictPageSizeLimit": number,
      "EnableStatistics": boolean,
      "EncodingType": "string",
      "EncryptionMode": "string",
      "ExpectedBucketOwner": "string",
      "ExternalTableDefinition": "string",
      "GlueCatalogGeneration": boolean,
      "IgnoreHeaderRows": number,
      "IncludeOpForFullLoad": boolean,
      "MaxFileSize": number,
      "ParquetTimestampInMillisecond": boolean,
      "ParquetVersion": "string",
      "PreserveTransactions": boolean,
      "Rfc4180": boolean,
      "RowGroupLength": number,
      "ServerSideEncryptionKmsKeyId": "string",
      "ServiceAccessRoleArn": "string",
      "TimestampColumnName": "string",
      "UseCsvNoSupValue": boolean,
      "UseTaskStartTimeForFullLoadTimestamp": boolean
   },
   "ServerName": "string",
   "ServiceAccessRoleArn": "string",
   "SslMode": "string",
   "Status": "string",
   "SybaseSettings": {
      "DatabaseName": "string",
      "Password": "string",
      "Port": number,
      "SecretsManagerAccessRoleArn": "string",
      "SecretsManagerSecretId": "string",
      "ServerName": "string",
      "Username": "string"
   },
   "TimestreamSettings": {
      "CdcInsertsAndUpdates": boolean,
      "DatabaseName": "string",
      "EnableMagneticStoreWrites": boolean,
      "MagneticDuration": number,
      "MemoryDuration": number
   },
   "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

The modified endpoint.

Type: Endpoint object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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

Examples

Example

This example illustrates one usage of ModifyEndpoint.

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-1:123456789012: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-
1:123456789012:endpoint:RAAR3R22XSH46S3PWLC3NJAWKM",
      "ServerName":"apurvap-source.cxln7iyxx1lo.us-west-
2.rds.amazonaws.com",
      "EndpointType":"TARGET",
      "KmsKeyId":"arn:aws:kms:us-east-1:123456789012: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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ModifyEventSubscription

Modifies an existing AWS DMS event notification subscription.

Request Syntax

```
{
   "Enabled": boolean,
   "EventCategories": [ "string" ],
   "SnsTopicArn": "string",
   "SourceType": "string",
   "SubscriptionName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Enabled

A Boolean value; set to **true** to activate the subscription.

Type: Boolean

Required: No

EventCategories

A list of event categories for a source type that you want to subscribe to. Use the `DescribeEventCategories` action to see a list of event categories.

Type: Array of strings

Required: No

SnsTopicArn

The Amazon Resource Name (ARN) of the Amazon SNS topic created for event notification. The ARN is created by Amazon SNS when you create a topic and subscribe to it.

Type: String

Required: No

SourceType

The type of AWS DMS resource that generates the events you want to subscribe to.

Valid values: replication-instance | replication-task

Type: String

Required: No

SubscriptionName

The name of the AWS DMS event notification subscription to be modified.

Type: String

Required: Yes

Response Syntax

```
{
   "EventSubscription": {
      "CustomerAwsId": "string",
      "CustSubscriptionId": "string",
      "Enabled": boolean,
      "EventCategoriesList": [ "string" ],
      "SnsTopicArn": "string",
      "SourceIdsList": [ "string" ],
      "SourceType": "string",
      "Status": "string",
      "SubscriptionCreationTime": "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.

EventSubscription

The modified event subscription.

Type: EventSubscription object

Errors

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

KMSAccessDeniedFault

The ciphertext references a key that doesn't exist or that the DMS account doesn't have access to.

HTTP Status Code: 400

KMSDisabledFault

The specified KMS key isn't enabled.

HTTP Status Code: 400

KMSInvalidStateFault

The state of the specified AWS KMS resource isn't valid for this request.

HTTP Status Code: 400

KMSNotFoundFault

The specified AWS KMS entity or resource can't be found.

HTTP Status Code: 400

KMSThrottlingFault

This request triggered AWS KMS request throttling.

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

SNSInvalidTopicFault

The SNS topic is invalid.

HTTP Status Code: 400

SNSNoAuthorizationFault

You are not authorized for the SNS subscription.

HTTP Status Code: 400

See Also

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

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

ModifyInstanceProfile

Modifies the specified instance profile using the provided parameters.

> **Note**
>
> All migration projects associated with the instance profile must be deleted or modified before you can modify the instance profile.

Request Syntax

```
{
   "AvailabilityZone": "string",
   "Description": "string",
   "InstanceProfileIdentifier": "string",
   "InstanceProfileName": "string",
   "KmsKeyArn": "string",
   "NetworkType": "string",
   "PubliclyAccessible": boolean,
   "SubnetGroupIdentifier": "string",
   "VpcSecurityGroups": [ "string" ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

AvailabilityZone

The Availability Zone where the instance profile runs.

Type: String

Required: No

Description

A user-friendly description for the instance profile.

Type: String

Required: No

InstanceProfileIdentifier

The identifier of the instance profile. Identifiers must begin with a letter and must contain only ASCII letters, digits, and hyphens. They can't end with a hyphen, or contain two consecutive hyphens.

Type: String

Required: Yes

InstanceProfileName

A user-friendly name for the instance profile.

Type: String

Required: No

KmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key that is used to encrypt the connection parameters for the instance profile.

If you don't specify a value for the `KmsKeyArn` parameter, then AWS DMS uses 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

NetworkType

Specifies the network type for the instance profile. A value of `IPV4` represents an instance profile with IPv4 network type and only supports IPv4 addressing. A value of `IPV6` represents an instance profile with IPv6 network type and only supports IPv6 addressing. A value of `DUAL` represents an instance profile with dual network type that supports IPv4 and IPv6 addressing.

Type: String

Required: No

PubliclyAccessible

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

Type: Boolean

Required: No

SubnetGroupIdentifier

A subnet group to associate with the instance profile.

Type: String

Required: No

VpcSecurityGroups

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

Type: Array of strings

Required: No

Response Syntax

```
{
   "InstanceProfile": {
      "AvailabilityZone": "string",
      "Description": "string",
      "InstanceProfileArn": "string",
      "InstanceProfileCreationTime": "string",
      "InstanceProfileName": "string",
      "KmsKeyArn": "string",
      "NetworkType": "string",
      "PubliclyAccessible": boolean,
      "SubnetGroupIdentifier": "string",
      "VpcSecurityGroups": [ "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.

InstanceProfile

The instance profile that was modified.

Type: InstanceProfile object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

S3AccessDeniedFault

Insufficient privileges are preventing access to an Amazon S3 object.

HTTP Status Code: 400

S3ResourceNotFoundFault

A specified Amazon S3 bucket, bucket folder, or other object can't be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ModifyInstanceProfile.

Sample Request

```
{
    "InstanceProfileIdentifier": "arn:aws:dms:us-east-1:012345678901:instance-
profile:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345",
    "SubnetGroupIdentifier": "myuser-subnet-group",
    "VpcSecurityGroupIds": ["sg-0123456789abcdef0"],
    "VpcIdentifier": "vpc-0123456789abcdef0",
    "PubliclyAccessible": true,
    "KmsKeyArn": "arn:aws:kms:us-east-1:012345678901:key/01234567-89ab-
cdef-0123-456789abcdef",
    "InstanceProfileName": "new-name",
    "Description": "Description",
    "NetworkType": "DUAL"
}
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

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

ModifyMigrationProject

Modifies the specified migration project using the provided parameters.

> **Note**
>
> The migration project must be closed before you can modify it.

Request Syntax

```
{
   "Description": "string",
   "InstanceProfileIdentifier": "string",
   "MigrationProjectIdentifier": "string",
   "MigrationProjectName": "string",
   "SchemaConversionApplicationAttributes": {
      "S3BucketPath": "string",
      "S3BucketRoleArn": "string"
   },
   "SourceDataProviderDescriptors": [
      {
         "DataProviderIdentifier": "string",
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerSecretId": "string"
      }
   ],
   "TargetDataProviderDescriptors": [
      {
         "DataProviderIdentifier": "string",
         "SecretsManagerAccessRoleArn": "string",
         "SecretsManagerSecretId": "string"
      }
   ],
   "TransformationRules": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Description

A user-friendly description of the migration project.

Type: String

Required: No

InstanceProfileIdentifier

The name or Amazon Resource Name (ARN) for the instance profile.

Type: String

Required: No

MigrationProjectIdentifier

The identifier of the migration project. Identifiers must begin with a letter and must contain only ASCII letters, digits, and hyphens. They can't end with a hyphen, or contain two consecutive hyphens.

Type: String

Required: Yes

MigrationProjectName

A user-friendly name for the migration project.

Type: String

Required: No

SchemaConversionApplicationAttributes

The schema conversion application attributes, including the Amazon S3 bucket name and Amazon S3 role ARN.

Type: SCApplicationAttributes object

Required: No

SourceDataProviderDescriptors

Information about the source data provider, including the name, ARN, and AWS Secrets Manager parameters.

Type: Array of DataProviderDescriptorDefinition objects

Required: No

TargetDataProviderDescriptors

Information about the target data provider, including the name, ARN, and AWS Secrets Manager parameters.

Type: Array of DataProviderDescriptorDefinition objects

Required: No

TransformationRules

The settings in JSON format for migration rules. Migration rules make it possible for you to change the object names according to the rules that you specify. For example, you can change an object name to lowercase or uppercase, add or remove a prefix or suffix, or rename objects.

Type: String

Required: No

Response Syntax

```
{
   "MigrationProject": {
      "Description": "string",
      "InstanceProfileArn": "string",
      "InstanceProfileName": "string",
      "MigrationProjectArn": "string",
      "MigrationProjectCreationTime": "string",
      "MigrationProjectName": "string",
      "SchemaConversionApplicationAttributes": {
         "S3BucketPath": "string",
         "S3BucketRoleArn": "string"
      },
      "SourceDataProviderDescriptors": [
         {
            "DataProviderArn": "string",
            "DataProviderName": "string",
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string"
         }
```

```
      ],
      "TargetDataProviderDescriptors": [
         {
            "DataProviderArn": "string",
            "DataProviderName": "string",
            "SecretsManagerAccessRoleArn": "string",
            "SecretsManagerSecretId": "string"
         }
      ],
      "TransformationRules": "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.

MigrationProject

The migration project that was modified.

Type: MigrationProject object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

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

S3AccessDeniedFault

Insufficient privileges are preventing access to an Amazon S3 object.

HTTP Status Code: 400

S3ResourceNotFoundFault

A specified Amazon S3 bucket, bucket folder, or other object can't be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ModifyMigrationProject.

Sample Request

```
{
    "MigrationProjectIdentifier": "arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345",
    "MigrationProjectName": "new-name",
    "SourceDataProviderDescriptors": [
                {
                        "DataProviderIdentifier": "arn:aws:dms:us-
east-1:012345678901:data-provider:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345",
                        "SecretsManagerSecretId": "arn:aws:secretsmanager:us-
east-1:012345678901:secret:myorg/myuser/ALL.SOURCE.ORACLE_12-A1B2C3",
                        "SecretsManagerAccessRoleArn": "arn:aws:iam::012345678901:role/
myuser-admin-access"
                }
        ],
    "TargetDataProviderDescriptors": [
                {
                        "DataProviderIdentifier": "arn:aws:dms:us-
east-1:012345678901:data-provider:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345",
                        "SecretsManagerSecretId": "arn:aws:secretsmanager:us-
east-1:012345678901:secret:myorg/myuser/TARGET.postgresql-A1B2C3",
                        "SecretsManagerAccessRoleArn": "arn:aws:iam::012345678901:role/
myuser-admin-access"
```

```
                }
        ],
    "InstanceProfileIdentifier": "my-instance-profile",
    "SchemaConversionApplicationAttributes": {
        "S3BucketPath": "arn:aws:s3:::myuser-bucket",
        "S3BucketRoleArn": "arn:aws:iam::012345678901:role/Admin"
    },
    "Description": "description"
}
```

See Also

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

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

ModifyReplicationConfig

Modifies an existing AWS DMS Serverless replication configuration that you can use to start a replication. This command includes input validation and logic to check the state of any replication that uses this configuration. You can only modify a replication configuration before any replication that uses it has started. As soon as you have initially started a replication with a given configuiration, you can't modify that configuration, even if you stop it.

Other run statuses that allow you to run this command include FAILED and CREATED. A provisioning state that allows you to run this command is FAILED_PROVISION.

Request Syntax

```
{
   "ComputeConfig": {
      "AvailabilityZone": "string",
      "DnsNameServers": "string",
      "KmsKeyId": "string",
      "MaxCapacityUnits": number,
      "MinCapacityUnits": number,
      "MultiAZ": boolean,
      "PreferredMaintenanceWindow": "string",
      "ReplicationSubnetGroupId": "string",
      "VpcSecurityGroupIds": [ "string" ]
   },
   "ReplicationConfigArn": "string",
   "ReplicationConfigIdentifier": "string",
   "ReplicationSettings": "string",
   "ReplicationType": "string",
   "SourceEndpointArn": "string",
   "SupplementalSettings": "string",
   "TableMappings": "string",
   "TargetEndpointArn": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ComputeConfig

Configuration parameters for provisioning an AWS DMS Serverless replication.

Type: ComputeConfig object

Required: No

ReplicationConfigArn

The Amazon Resource Name of the replication to modify.

Type: String

Required: Yes

ReplicationConfigIdentifier

The new replication config to apply to the replication.

Type: String

Required: No

ReplicationSettings

The settings for the replication.

Type: String

Required: No

ReplicationType

The type of replication.

Type: String

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

Required: No

SourceEndpointArn

The Amazon Resource Name (ARN) of the source endpoint for this AWS DMS serverless replication configuration.

Type: String

Required: No

SupplementalSettings

Additional settings for the replication.

Type: String

Required: No

TableMappings

Table mappings specified in the replication.

Type: String

Required: No

TargetEndpointArn

The Amazon Resource Name (ARN) of the target endpoint for this AWS DMS serverless replication configuration.

Type: String

Required: No

Response Syntax

```
{
   "ReplicationConfig": {
      "ComputeConfig": {
         "AvailabilityZone": "string",
         "DnsNameServers": "string",
         "KmsKeyId": "string",
         "MaxCapacityUnits": number,
         "MinCapacityUnits": number,
         "MultiAZ": boolean,
         "PreferredMaintenanceWindow": "string",
         "ReplicationSubnetGroupId": "string",
         "VpcSecurityGroupIds": [ "string" ]
      },
      "ReplicationConfigArn": "string",
      "ReplicationConfigCreateTime": number,
```

```
      "ReplicationConfigIdentifier": "string",
      "ReplicationConfigUpdateTime": number,
      "ReplicationSettings": "string",
      "ReplicationType": "string",
      "SourceEndpointArn": "string",
      "SupplementalSettings": "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.

ReplicationConfig

Information about the serverless replication config that was modified.

Type: ReplicationConfig object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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 isn't valid.

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

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ModifyReplicationConfig.

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.ModifyReplicationConfig
{
    "ReplicationConfigIdentifier":"test-replication-config",
    "ReplicationConfigArn":"arn:aws:dms:us-east-1:123456789012:replication-
config:UX6OL6MHMMJKFFOXE3H7LLJCMEKBDUG4ZV7DRSI"
```

```
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
    "ReplicationConfig":"{
        "ReplicationConfigIdentifier":"test-replication-config",
        "ReplicationConfigArn":"arn:aws:dms:us-east-
1:123456789012:replication-config:UX6OL6MHMMJKFFOXE3H7LLJCMEKBDUG4ZV7DRSI",
        "SourceEndpointArn":"arn:aws:dms:us-east-
1:123456789012:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
        "TargetEndpointArn":"arn:aws:dms:us-east-
1:123456789012:endpoint:GVBUJQXJZASXWHTWCLN2WNT57E",
        "ReplicationConfigCreateTime":1677683717.524,
        "TableMappings":"{\n \"TableMappings\":
            [\n
                {\n \"Type\": \"Include\",\n \"SourceSchema\": \"/\",
                    \n \"SourceTable\": \"/ \"\n
                }\n
            ]\n
        }\n\n",
        "ReplicationTaskSettings":"{\"TargetMetadata\":
            {\"TargetSchema\":\"\",\"SupportLobs\":true,\"FullLobMode\":
                true,\"LobChunkSize\":64,\"LimitedSizeLobMode\":
                false,\"LobMaxSize\":0
            },
            \"FullLoadSettings\":{
                \"FullLoadEnabled\":true,
                \"TargetTablePrepMode\":\"DROP_AND_CREATE\",
                \"CreatePkAfterFullLoad\":false,
                \"StopTaskCachedChangesApplied\":false,
                \"StopTaskCachedChangesNotApplied\":false,
                \"ResumeEnabled\":false,
                \"ResumeMinTableSize\":100000,
                \"ResumeOnlyClusteredPKTables\":true,
                \"MaxFullLoadSubTasks\":8,
```

```
                \"TransactionConsistencyTimeout\":600,
                \"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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

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,
   "NetworkType": "string",
   "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.

The request accepts the following data in JSON format.

AllocatedStorage

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

Type: Integer

Required: No

AllowMajorVersionUpgrade

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.

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

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

Type: Boolean

Required: No

AutoMinorVersionUpgrade

A value that indicates that minor version upgrades are applied automatically to the replication instance during the maintenance window. Changing this parameter doesn't result in an outage, except in the case described following. The change is asynchronously applied as soon as possible.

An outage does result if these factors apply:

- This parameter is set to `true` during the maintenance window.
- A newer minor version is available.
- AWS DMS has enabled automatic patching for the given engine version.

Type: Boolean

Required: No

EngineVersion

The engine version number of the replication instance.

When modifying a major engine version of an instance, also set `AllowMajorVersionUpgrade` to `true`.

Type: String

Required: No

MultiAZ

Specifies whether the replication instance is a Multi-AZ deployment. You can't set the `AvailabilityZone` parameter if the Multi-AZ parameter is set to `true`.

Type: Boolean

Required: No

NetworkType

The type of IP address protocol used by a replication instance, such as IPv4 only or Dual-stack that supports both IPv4 and IPv6 addressing. IPv6 only is not yet supported.

Type: String

Required: No

PreferredMaintenanceWindow

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

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

Type: String

Required: Yes

ReplicationInstanceClass

The compute and memory capacity of the replication instance as defined for the specified replication instance class. For example to specify the instance class dms.c4.large, set this parameter to `"dms.c4.large"`.

For more information on the settings and capacities for the available replication instance classes, see Selecting the right AWS DMS replication instance for your migration.

Type: String

Required: No

ReplicationInstanceIdentifier

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

Type: String

Required: No

VpcSecurityGroupIds

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",
      "DnsNameServers": "string",
      "EngineVersion": "string",
      "FreeUntil": number,
      "InstanceCreateTime": number,
      "KmsKeyId": "string",
      "MultiAZ": boolean,
      "NetworkType": "string",
```

```
      "PendingModifiedValues": {
         "AllocatedStorage": number,
         "EngineVersion": "string",
         "MultiAZ": boolean,
         "NetworkType": "string",
         "ReplicationInstanceClass": "string"
      },
      "PreferredMaintenanceWindow": "string",
      "PubliclyAccessible": boolean,
      "ReplicationInstanceArn": "string",
      "ReplicationInstanceClass": "string",
      "ReplicationInstanceIdentifier": "string",
      "ReplicationInstanceIpv6Addresses": [ "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"
            }
         ],
         "SupportedNetworkTypes": [ "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

The modified replication instance.

Type: ReplicationInstance object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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

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

Examples

Example

This example illustrates one usage of ModifyReplicationInstance.

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-
1:123456789012:rep:PWEBBEUNOLU7VEB2OHTEH4I4GQ",
   "AllocatedStorage":0,
   "NetworkType":"IPv4",
   "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-
1:123456789012: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-1:123456789012:key/4dc17316-5543-
4ded-b1e3-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 .NET
- AWS SDK for C++
- AWS SDK for Go v2

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

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.

The request accepts the following data in JSON format.

ReplicationSubnetGroupDescription

A description for the replication instance subnet group.

Type: String

Required: No

ReplicationSubnetGroupIdentifier

The name of the replication instance subnet group.

Type: String

Required: Yes

SubnetIds

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"
         }
      ],
      "SupportedNetworkTypes": [ "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

The modified replication subnet group.

Type: ReplicationSubnetGroup object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

InvalidSubnet

The subnet provided isn't valid.

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

Examples

Example

This example illustrates one usage of ModifyReplicationSubnetGroup.

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ModifyReplicationTask

Modifies the specified replication task.

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

For more information about AWS DMS tasks, see Working with Migration Tasks in the *AWS Database Migration Service User Guide*.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

CdcStartPosition

Indicates when you want a change data capture (CDC) operation to start. Use either CdcStartPosition or CdcStartTime to specify when you want a CDC operation to start. Specifying both values results in an error.

The value can be in date, checkpoint, or LSN/SCN format.

Date Example: --cdc-start-position “2018-03-08T12:12:12”

Checkpoint Example: --cdc-start-position "checkpoint:V1#27#mysql-bin-changelog.157832:1975:-1:2002:677883278264080:mysql-bin-changelog.157832:1876#0#0#*#0#93"

LSN Example: --cdc-start-position “mysql-bin-changelog.000024:373”

> **Note**
>
> When you use this task setting with a source PostgreSQL database, a logical replication slot should already be created and associated with the source endpoint. You can verify this by setting the `slotName` extra connection attribute to the name of this logical replication slot. For more information, see Extra Connection Attributes When Using PostgreSQL as a Source for AWS DMS.

Type: String

Required: No

CdcStartTime

Indicates the start time for a change data capture (CDC) operation. Use either CdcStartTime or CdcStartPosition to specify when you want a CDC operation to start. Specifying both values results in an error.

Timestamp Example: --cdc-start-time “2018-03-08T12:12:12”

Type: Timestamp

Required: No

CdcStopPosition

Indicates when you want a change data capture (CDC) operation to stop. The value can be either server time or commit time.

Server time example: --cdc-stop-position “server_time:2018-02-09T12:12:12”

Commit time example: --cdc-stop-position “commit_time:2018-02-09T12:12:12“

Type: String

Required: No

MigrationType

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

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

Type: String

Required: Yes

ReplicationTaskIdentifier

The replication task identifier.

Constraints:

- Must contain 1-255 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

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

Type: String

Required: No

TableMappings

When using the AWS CLI or boto3, provide the path of the JSON file that contains the table mappings. Precede the path with `file://`. For example, `--table-mappings file://mappingfile.json`. When working with the AWS DMS API, provide the JSON as the parameter value.

Type: String

Required: No

TaskData

Supplemental information that the task requires to migrate the data for certain source and target endpoints. For more information, see Specifying Supplemental Data for Task Settings in the *AWS Database Migration Service User Guide.*

Type: String

Required: No

Response Syntax

```
{
   "ReplicationTask": {
      "CdcStartPosition": "string",
      "CdcStopPosition": "string",
      "LastFailureMessage": "string",
      "MigrationType": "string",
      "RecoveryCheckpoint": "string",
      "ReplicationInstanceArn": "string",
      "ReplicationTaskArn": "string",
      "ReplicationTaskCreationDate": number,
      "ReplicationTaskIdentifier": "string",
      "ReplicationTaskSettings": "string",
      "ReplicationTaskStartDate": number,
      "ReplicationTaskStats": {
         "ElapsedTimeMillis": number,
         "FreshStartDate": number,
         "FullLoadFinishDate": number,
         "FullLoadProgressPercent": number,
         "FullLoadStartDate": number,
         "StartDate": number,
         "StopDate": number,
         "TablesErrored": number,
         "TablesLoaded": number,
         "TablesLoading": number,
         "TablesQueued": number
      },
      "SourceEndpointArn": "string",
      "Status": "string",
      "StopReason": "string",
      "TableMappings": "string",
```

```
      "TargetEndpointArn": "string",
      "TargetReplicationInstanceArn": "string",
      "TaskData": "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

The replication task that was modified.

Type: ReplicationTask object

Errors

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

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

Examples

Example

This example illustrates one usage of ModifyReplicationTask.

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.ModifyReplicationTask
{
   "ReplicationTaskIdentifier":"task1_modified",
   "ReplicationTaskArn":"arn:aws:dms:us-
east-1:123456789012:task:RZZK4EZW5UANC7Y3P4E776WHBE"
}
```

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-1:123456789012:endpoint:DVBXJQXKZASYWHTCWNL4TNW76D",
      "ReplicationTaskIdentifier":"task1_modified",
      "ReplicationInstanceArn":"arn:aws:dms:us-
east-1:123456789012:rep:6USOU366XFJUWATDJGBCJS3VIQ",
      "TableMappings":"{\n \"TableMappings\": [
```

```
      \n {\n \"Type\": \"Include\",\n \"SourceSchema\": \"/\",\n \"SourceTable\": \"/
\"\n
         }\n ]\n}\n\n",
      "Status":"creating",
      "ReplicationTaskArn":"arn:aws:dms:us-
east-1:123456789012:task:RZZK4EZW5UANC7Y3P4E776WHBE",
      "ReplicationTaskCreationDate":1457658407.492,
      "MigrationType":"full-load",
      "TargetEndpointArn":"arn:aws:dms:us-
east-1:123456789012:endpoint:GVBUJQXJZASXWHTWCLN2WNT57E",
      "ReplicationTaskSettings":"{\"TargetMetadata\":
         {\"TargetSchema\":\"\",\"SupportLobs\":true,\"FullLobMode\":
         true,\"LobChunkSize\":64,\"LimitedSizeLobMode\":
         false,\"LobMaxSize\":0},\"FullLoadSettings\":{
            \"FullLoadEnabled\":true,
         \"TargetTablePrepMode\":\"DROP_AND_CREATE\",
         \"CreatePkAfterFullLoad\":false,
         \"StopTaskCachedChangesApplied\":false,
         \"StopTaskCachedChangesNotApplied\":false,
         \"ResumeEnabled\":false,
         \"ResumeMinTableSize\":100000,
         \"ResumeOnlyClusteredPKTables\":true,
         \"MaxFullLoadSubTasks\":8,
         \"TransactionConsistencyTimeout\":600,
         \"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 .NET
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

MoveReplicationTask

Moves a replication task from its current replication instance to a different target replication instance using the specified parameters. The target replication instance must be created with the same or later AWS DMS version as the current replication instance.

Request Syntax

```
{
   "ReplicationTaskArn": "string",
   "TargetReplicationInstanceArn": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ReplicationTaskArn

The Amazon Resource Name (ARN) of the task that you want to move.

Type: String

Required: Yes

TargetReplicationInstanceArn

The ARN of the replication instance where you want to move the task to.

Type: String

Required: Yes

Response Syntax

```
{
   "ReplicationTask": {
      "CdcStartPosition": "string",
      "CdcStopPosition": "string",
```

```
      "LastFailureMessage": "string",
      "MigrationType": "string",
      "RecoveryCheckpoint": "string",
      "ReplicationInstanceArn": "string",
      "ReplicationTaskArn": "string",
      "ReplicationTaskCreationDate": number,
      "ReplicationTaskIdentifier": "string",
      "ReplicationTaskSettings": "string",
      "ReplicationTaskStartDate": number,
      "ReplicationTaskStats": {
         "ElapsedTimeMillis": number,
         "FreshStartDate": number,
         "FullLoadFinishDate": number,
         "FullLoadProgressPercent": number,
         "FullLoadStartDate": number,
         "StartDate": number,
         "StopDate": number,
         "TablesErrored": number,
         "TablesLoaded": number,
         "TablesLoading": number,
         "TablesQueued": number
      },
      "SourceEndpointArn": "string",
      "Status": "string",
      "StopReason": "string",
      "TableMappings": "string",
      "TargetEndpointArn": "string",
      "TargetReplicationInstanceArn": "string",
      "TaskData": "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

The replication task that was moved.

Type: ReplicationTask object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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

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

Examples

Example

This example illustrates one usage of MoveReplicationTask.

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.MoveReplicationTask
{
   "ReplicationTaskArn": "arn:aws:dms:us-
east-1:123456789012:task:GBQBVYT7IIWCUUE44KI7ITKAK2OIURGWGDR4QZY",
   "TargetReplicationInstanceArn": "arn:aws:dms:us-
east-1:123456789012:rep:UMBQHEHRZ2WG23LSVP767KHNWGHSXVTTSSUXZCI"
}
```

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": {
      "ReplicationTaskIdentifier": "task-test",
      "SourceEndpointArn": "arn:aws:dms:us-
east-1:123456789012:endpoint:GDBXFEKRITMGQO2POUA6VHZPIY",
      "TargetEndpointArn": "arn:aws:dms:us-
east-1:123456789012:endpoint:DIGHLLJZKQUN3VEF2MQC7D4VNE",
      "ReplicationInstanceArn": "arn:aws:dms:us-
east-1:123456789012:rep:HBNEJHHRZ2WG23LSVP767KHNWGHSXVTTSASHB",
      "MigrationType": "full-load-and-cdc",
      "TableMappings": "{\n \"TableMappings\": [
      \n {\n \"Type\": \"Include\",\n \"SourceSchema\": \"/\",\n \"SourceTable\": \"/
\"\n
         }\n ]\n}\n\n",
      "ReplicationTaskSettings": "",
      "Status": "moving",
      "ReplicationTaskCreationDate": 1595513932.394
```

```
      "ReplicationTaskArn": "arn:aws:dms:us-
east-1:123456789012:task:GBQBVYT7IIWCUUE44KI7ITKAK2OIURGWGDR4QZY",
      "TargetReplicationInstanceArn": "arn:aws:dms:us-
east-1:123456789012:rep:UMBQHEHRZ2WG23LSVP767KHNWGHSXVTTSSUXZCI"
   }
}
```

See Also

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

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

RebootReplicationInstance

Reboots a replication instance. Rebooting results in a momentary outage, until the replication instance becomes available again.

Request Syntax

```
{
   "ForceFailover": boolean,
   "ForcePlannedFailover": boolean,
   "ReplicationInstanceArn": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ForceFailover

If this parameter is `true`, the reboot is conducted through a Multi-AZ failover. If the instance isn't configured for Multi-AZ, then you can't specify `true`. (`--force-planned-failover` and `--force-failover` can't both be set to `true`.)

Type: Boolean

Required: No

ForcePlannedFailover

If this parameter is `true`, the reboot is conducted through a planned Multi-AZ failover where resources are released and cleaned up prior to conducting the failover. If the instance isn''t configured for Multi-AZ, then you can't specify `true`. (`--force-planned-failover` and `--force-failover` can't both be set to `true`.)

Type: Boolean

Required: No

ReplicationInstanceArn

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

Type: String

Required: Yes

Response Syntax

```
{
   "ReplicationInstance": {
      "AllocatedStorage": number,
      "AutoMinorVersionUpgrade": boolean,
      "AvailabilityZone": "string",
      "DnsNameServers": "string",
      "EngineVersion": "string",
      "FreeUntil": number,
      "InstanceCreateTime": number,
      "KmsKeyId": "string",
      "MultiAZ": boolean,
      "NetworkType": "string",
      "PendingModifiedValues": {
         "AllocatedStorage": number,
         "EngineVersion": "string",
         "MultiAZ": boolean,
         "NetworkType": "string",
         "ReplicationInstanceClass": "string"
      },
      "PreferredMaintenanceWindow": "string",
      "PubliclyAccessible": boolean,
      "ReplicationInstanceArn": "string",
      "ReplicationInstanceClass": "string",
      "ReplicationInstanceIdentifier": "string",
      "ReplicationInstanceIpv6Addresses": [ "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"
            }
         ],
         "SupportedNetworkTypes": [ "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

The replication instance that is being rebooted.

Type: ReplicationInstance object

Errors

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

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

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.

The request accepts the following data in JSON format.

EndpointArn

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

Type: String

Required: Yes

ReplicationInstanceArn

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

The status of the refreshed schema.

Type: RefreshSchemasStatus object

Errors

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

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ReloadReplicationTables

Reloads the target database table with the source data for a given AWS DMS Serverless replication configuration.

You can only use this operation with a task in the RUNNING state, otherwise the service will throw an `InvalidResourceStateFault` exception.

Request Syntax

```
{
   "ReloadOption": "string",
   "ReplicationConfigArn": "string",
   "TablesToReload": [
      {
         "SchemaName": "string",
         "TableName": "string"
      }
   ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ReloadOption

Options for reload. Specify `data-reload` to reload the data and re-validate it if validation is enabled. Specify `validate-only` to re-validate the table. This option applies only when validation is enabled for the replication.

Type: String

Valid Values: `data-reload | validate-only`

Required: No

ReplicationConfigArn

The Amazon Resource Name of the replication config for which to reload tables.

Type: String

Required: Yes

TablesToReload

The list of tables to reload.

Type: Array of TableToReload objects

Required: Yes

Response Syntax

```
{
   "ReplicationConfigArn": "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.

ReplicationConfigArn

The Amazon Resource Name of the replication config for which to reload tables.

Type: String

Errors

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

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

Examples

Example

This example illustrates one usage of ReloadReplicationTables.

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.ReloadReplicationTables
{
   "ReplicationConfigArn": "arn:aws:dms:us-east-
1:123456789012:replication-config:WZVIPF3D4AJSNJASB42D4Z7GBE",
   "TablesToReload": [ { "SchemaName": "string", "TableName": "string" } ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
   "ReplicationConfigArn": "arn:aws:dms:us-east-
1:123456789012:replication-config:WZVIPF3D4AJSNJASB42D4Z7GBE"
}
```

See Also

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

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

ReloadTables

Reloads the target database table with the source data.

You can only use this operation with a task in the `RUNNING` state, otherwise the service will throw an `InvalidResourceStateFault` exception.

Request Syntax

```
{
   "ReloadOption": "string",
   "ReplicationTaskArn": "string",
   "TablesToReload": [
      {
         "SchemaName": "string",
         "TableName": "string"
      }
   ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ReloadOption

Options for reload. Specify `data-reload` to reload the data and re-validate it if validation is enabled. Specify `validate-only` to re-validate the table. This option applies only when validation is enabled for the task.

Valid values: data-reload, validate-only

Default value is data-reload.

Type: String

Valid Values: `data-reload | validate-only`

Required: No

ReplicationTaskArn

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

Type: String

Required: Yes

TablesToReload

The name and schema of the table to be reloaded.

Type: Array of TableToReload objects

Required: Yes

Response Syntax

```
{
   "ReplicationTaskArn": "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.

ReplicationTaskArn

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

Type: String

Errors

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

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

RemoveTagsFromResource

Removes metadata tags from an AWS DMS resource, including replication instance, endpoint, subnet group, and migration task. For more information, see Tag data type description.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

ResourceArn

An AWS DMS resource from which you want to remove tag(s). The value for this parameter is an Amazon Resource Name (ARN).

Type: String

Required: Yes

TagKeys

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.

ResourceNotFoundFault

The resource could not be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of RemoveTagsFromResource.

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-
1:123456789012: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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

RunFleetAdvisorLsaAnalysis

Runs large-scale assessment (LSA) analysis on every Fleet Advisor collector in your account.

Response Syntax

```
{
   "LsaAnalysisId": "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.

LsaAnalysisId

The ID of the LSA analysis run.

Type: String

Status

The status of the LSA analysis, for example `COMPLETED`.

Type: String

Errors

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

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartExtensionPackAssociation

Applies the extension pack to your target database. An extension pack is an add-on module that emulates functions present in a source database that are required when converting objects to the target database.

Request Syntax

```
{
   "MigrationProjectIdentifier": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

MigrationProjectIdentifier

The migration project name or Amazon Resource Name (ARN).

Type: String

Required: Yes

Response Syntax

```
{
   "RequestIdentifier": "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.

RequestIdentifier

The identifier for the request operation.

Type: String

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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

S3AccessDeniedFault

Insufficient privileges are preventing access to an Amazon S3 object.

HTTP Status Code: 400

S3ResourceNotFoundFault

A specified Amazon S3 bucket, bucket folder, or other object can't be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of StartExtensionPackAssociation.

Sample Request

```
awsdms start-extension-pack-association --migration-project-identifier
arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345
```

See Also

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

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

StartMetadataModelAssessment

Creates a database migration assessment report by assessing the migration complexity for your source database. A database migration assessment report summarizes all of the schema conversion tasks. It also details the action items for database objects that can't be converted to the database engine of your target database instance.

Request Syntax

```
{
   "MigrationProjectIdentifier": "string",
   "SelectionRules": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

MigrationProjectIdentifier

The migration project name or Amazon Resource Name (ARN).

Type: String

Required: Yes

SelectionRules

A value that specifies the database objects to assess.

Type: String

Required: Yes

Response Syntax

```
{
   "RequestIdentifier": "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.

RequestIdentifier

The identifier for the assessment operation.

Type: String

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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

S3AccessDeniedFault

Insufficient privileges are preventing access to an Amazon S3 object.

HTTP Status Code: 400

S3ResourceNotFoundFault

A specified Amazon S3 bucket, bucket folder, or other object can't be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of StartMetadataModelAssessment.

Sample Request

```
awsdms start-metadata-model-assessment --migration-project-identifier
arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345
--selection-rules "{\"rules\": [{\"rule-type\": \"selection\",\"rule-id\": \"1\",
\"rule-name\": \"1\",\"object-locator\": {\"server-name\": \"aurora-pg.cluster-
A1B2C3D4E5F6.us-east-1.rds.amazonaws.com\", \"schema-name\": \"schema1\", \"table-name
\": \"Cities\"},\"rule-action\": \"explicit\"} ]}"
```

See Also

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

- AWS Command Line Interface

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartMetadataModelConversion

Converts your source database objects to a format compatible with the target database.

Request Syntax

```
{
   "MigrationProjectIdentifier": "string",
   "SelectionRules": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

MigrationProjectIdentifier

The migration project name or Amazon Resource Name (ARN).

Type: String

Required: Yes

SelectionRules

A value that specifies the database objects to convert.

Type: String

Required: Yes

Response Syntax

```
{
   "RequestIdentifier": "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.

RequestIdentifier

The identifier for the conversion operation.

Type: String

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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

S3AccessDeniedFault

Insufficient privileges are preventing access to an Amazon S3 object.

HTTP Status Code: 400

S3ResourceNotFoundFault

A specified Amazon S3 bucket, bucket folder, or other object can't be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of StartMetadataModelConversion.

Sample Request

```
awsdms start-metadata-model-conversion --migration-project-identifier
arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345
--selection-rules "{\"rules\": [{\"rule-type\": \"selection\",\"rule-id\": \"1\",
\"rule-name\": \"1\",\"object-locator\": {\"server-name\": \"aurora-pg.cluster-
a1b2c3d4e5f6.us-east-1.rds.amazonaws.com\", \"schema-name\": \"schema1\", \"table-name
\": \"Cities\"},\"rule-action\": \"explicit\"} ]}"
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

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

StartMetadataModelExportAsScript

Saves your converted code to a file as a SQL script, and stores this file on your Amazon S3 bucket.

Request Syntax

```
{
   "FileName": "string",
   "MigrationProjectIdentifier": "string",
   "Origin": "string",
   "SelectionRules": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

FileName

The name of the model file to create in the Amazon S3 bucket.

Type: String

Required: No

MigrationProjectIdentifier

The migration project name or Amazon Resource Name (ARN).

Type: String

Required: Yes

Origin

Whether to export the metadata model from the source or the target.

Type: String

Valid Values: `SOURCE | TARGET`

Required: Yes

SelectionRules

A value that specifies the database objects to export.

Type: String

Required: Yes

Response Syntax

```
{
   "RequestIdentifier": "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.

RequestIdentifier

The identifier for the export operation.

Type: String

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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

S3AccessDeniedFault

Insufficient privileges are preventing access to an Amazon S3 object.

HTTP Status Code: 400

S3ResourceNotFoundFault

A specified Amazon S3 bucket, bucket folder, or other object can't be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of StartMetadataModelExportAsScript.

Sample Request

```
awsdms start-metadata-model-export-as-script --migration-project-identifier
```

```
arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345
--selection-rules "{\"rules\": [{\"rule-type\": \"selection\",\"rule-id\": \"1\",
\"rule-name\": \"1\",\"object-locator\": {\"server-name\": \"aurora-pg.cluster-
a1b2c3d4e5f6.us-east-1.rds.amazonaws.com\", \"schema-name\": \"schema1\", \"table-name
\": \"Cities\"},\"rule-action\": \"explicit\"} ]}"
--origin SOURCE --file-name file
```

See Also

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

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

StartMetadataModelExportToTarget

Applies converted database objects to your target database.

Request Syntax

```
{
   "MigrationProjectIdentifier": "string",
   "OverwriteExtensionPack": boolean,
   "SelectionRules": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

MigrationProjectIdentifier

The migration project name or Amazon Resource Name (ARN).

Type: String

Required: Yes

OverwriteExtensionPack

Whether to overwrite the migration project extension pack. An extension pack is an add-on module that emulates functions present in a source database that are required when converting objects to the target database.

Type: Boolean

Required: No

SelectionRules

A value that specifies the database objects to export.

Type: String

Required: Yes

Response Syntax

```
{
   "RequestIdentifier": "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.

RequestIdentifier

The identifier for the export operation.

Type: String

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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

S3AccessDeniedFault

Insufficient privileges are preventing access to an Amazon S3 object.

HTTP Status Code: 400

S3ResourceNotFoundFault

A specified Amazon S3 bucket, bucket folder, or other object can't be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of StartMetadataModelExportToTarget.

Sample Request

```
awsdms start-metadata-model-export-to-target --migration-project-identifier
arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345
--selection-rules "{\"rules\": [{\"rule-type\": \"selection\",\"rule-id\": \"1\",
\"rule-name\": \"1\",\"object-locator\": {\"server-name\": \"aurora-pg.cluster-
a1b2c3d4e5f6.us-east-1.rds.amazonaws.com\", \"schema-name\": \"schema1\", \"table-name
\": \"Cities\"},\"rule-action\": \"explicit\"} ]}"
```

```
--overwrite-extension-pack
```

See Also

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

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

StartMetadataModelImport

Loads the metadata for all the dependent database objects of the parent object.

This operation uses your project's Amazon S3 bucket as a metadata cache to improve performance.

Request Syntax

```
{
   "MigrationProjectIdentifier": "string",
   "Origin": "string",
   "Refresh": boolean,
   "SelectionRules": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

MigrationProjectIdentifier

The migration project name or Amazon Resource Name (ARN).

Type: String

Required: Yes

Origin

Whether to load metadata to the source or target database.

Type: String

Valid Values: `SOURCE | TARGET`

Required: Yes

Refresh

If `true`, AWS DMS loads metadata for the specified objects from the source database.

Type: Boolean

Required: No

SelectionRules

A value that specifies the database objects to import.

Type: String

Required: Yes

Response Syntax

```
{
   "RequestIdentifier": "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.

RequestIdentifier

The identifier for the import operation.

Type: String

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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

S3AccessDeniedFault

Insufficient privileges are preventing access to an Amazon S3 object.

HTTP Status Code: 400

S3ResourceNotFoundFault

A specified Amazon S3 bucket, bucket folder, or other object can't be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of StartMetadataModelImport.

Sample Request

```
awsdms start-metadata-model-import --migration-project-identifier
```

```
arn:aws:dms:us-east-1:012345678901:migration-
project:EXAMPLEABCDEFGHIJKLMNOPQRSTUVWXYZ012345
--selection-rules "{\"rules\": [{\"rule-type\": \"selection\",\"rule-id\":
 \"1\",\"rule-name\": \"1\",\"object-locator\": {\"server-name\": \"aurora-
pg.cluster-0A1B2C3D4E5F.us-east-1.rds.amazonaws.com\", \"schema-name\": \"schema1\",
 \"table-name\": \"Cities\"},\"rule-action\": \"explicit\"} ]}"
--origin SOURCE --refresh 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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartRecommendations

Starts the analysis of your source database to provide recommendations of target engines.

You can create recommendations for multiple source databases using BatchStartRecommendations.

Request Syntax

```
{
   "DatabaseId": "string",
   "Settings": {
      "InstanceSizingType": "string",
      "WorkloadType": "string"
   }
}
```

Request Parameters

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

The request accepts the following data in JSON format.

DatabaseId

The identifier of the source database to analyze and provide recommendations for.

Type: String

Required: Yes

Settings

The settings in JSON format that Fleet Advisor uses to determine target engine recommendations. These parameters include target instance sizing and availability and durability settings. For target instance sizing, Fleet Advisor supports the following two options: total capacity and resource utilization. For availability and durability, Fleet Advisor supports the following two options: production (Multi-AZ deployments) and Dev/Test (Single-AZ deployments).

Type: RecommendationSettings object

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.

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

StartReplication

For a given AWS DMS Serverless replication configuration, AWS DMS connects to the source endpoint and collects the metadata to analyze the replication workload. Using this metadata, AWS DMS then computes and provisions the required capacity and starts replicating to the target endpoint using the server resources that AWS DMS has provisioned for the AWS DMS Serverless replication.

Request Syntax

```
{
   "CdcStartPosition": "string",
   "CdcStartTime": number,
   "CdcStopPosition": "string",
   "ReplicationConfigArn": "string",
   "StartReplicationType": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

CdcStartPosition

Indicates when you want a change data capture (CDC) operation to start. Use either `CdcStartPosition` or `CdcStartTime` to specify when you want a CDC operation to start. Specifying both values results in an error.

The value can be in date, checkpoint, or LSN/SCN format.

Type: String

Required: No

CdcStartTime

Indicates the start time for a change data capture (CDC) operation. Use either `CdcStartTime` or `CdcStartPosition` to specify when you want a CDC operation to start. Specifying both values results in an error.

Type: Timestamp

Required: No

CdcStopPosition

Indicates when you want a change data capture (CDC) operation to stop. The value can be either server time or commit time.

Type: String

Required: No

ReplicationConfigArn

The Amazon Resource Name of the replication for which to start replication.

Type: String

Required: Yes

StartReplicationType

The replication type.

When the replication type is `full-load` or `full-load-and-cdc`, the only valid value for the first run of the replication is `start-replication`. This option will start the replication.

You can also use ReloadTables to reload specific tables that failed during replication instead of restarting the replication.

The `resume-processing` option isn't applicable for a full-load replication, because you can't resume partially loaded tables during the full load phase.

For a `full-load-and-cdc` replication, AWS DMS migrates table data, and then applies data changes that occur on the source. To load all the tables again, and start capturing source changes, use `reload-target`. Otherwise use `resume-processing`, to replicate the changes from the last stop position.

Type: String

Required: Yes

Response Syntax

```
{
   "Replication": {
      "CdcStartPosition": "string",
      "CdcStartTime": number,
      "CdcStopPosition": "string",
      "FailureMessages": [ "string" ],
      "ProvisionData": {
         "DateNewProvisioningDataAvailable": number,
         "DateProvisioned": number,
         "IsNewProvisioningAvailable": boolean,
         "ProvisionedCapacityUnits": number,
         "ProvisionState": "string",
         "ReasonForNewProvisioningData": "string"
      },
      "RecoveryCheckpoint": "string",
      "ReplicationConfigArn": "string",
      "ReplicationConfigIdentifier": "string",
      "ReplicationCreateTime": number,
      "ReplicationDeprovisionTime": number,
      "ReplicationLastStopTime": number,
      "ReplicationStats": {
         "ElapsedTimeMillis": number,
         "FreshStartDate": number,
         "FullLoadFinishDate": number,
         "FullLoadProgressPercent": number,
         "FullLoadStartDate": number,
         "StartDate": number,
         "StopDate": number,
         "TablesErrored": number,
         "TablesLoaded": number,
         "TablesLoading": number,
         "TablesQueued": number
      },
      "ReplicationType": "string",
      "ReplicationUpdateTime": number,
      "SourceEndpointArn": "string",
      "StartReplicationType": "string",
      "Status": "string",
      "StopReason": "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.

Replication

The replication that AWS DMS started.

Type: Replication object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

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

Examples

Example

This example illustrates one usage of StartReplication.

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.StartReplication
{
   "ReplicationConfigArn":"arn:aws:dms:us-east
1:123456789012:replication-config: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>
{
   "Replication": {
      {
         "SourceEndpointArn": "arn:aws:dms:us-west-
2:123456789012:endpoint:5OFSBLSONLVVSYQAY7IBDSMCEHD6NU4FJQ5L7XY",
         "Status": "created",
         "ReplicationConfigIdentifier": "serverless-kms-0",
         "ReplicationStats": {
            "TablesLoading": 0,
            "TablesQueued": 0,
            "TablesErrored": 0,
            "FullLoadProgressPercent": 0,
            "TablesLoaded": 0,
```

```
            "ElapsedTimeMillis": 0
         },
         "ReplicationCreateTime": 1679665872.025,
         "ReplicationConfigArn": "arn:aws:dms:us-east
1:123456789012:replication-config:RALPZGYI3IUSJCBKKIRBEURKDY",
         "ReplicationType": "full-load-and-cdc",
         "ReplicationUpdateTime": 1679665872.025,
         "ProvisionData": {
            "IsNewProvisioningAvailable": false,
            "ProvisionedCapacityUnits": 0
         },
         "TargetEndpointArn": "arn:aws:dms:us-west-
2:123456789012:endpoint:WTMG7G6X5TQ5GOQG46WGEBNMPDSH47J5JZHXUFI",
         "FailureMessages": []
      }
   }
}
```

See Also

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

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

StartReplicationTask

Starts the replication task.

For more information about AWS DMS tasks, see Working with Migration Tasks in the *AWS Database Migration Service User Guide.*

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

CdcStartPosition

Indicates when you want a change data capture (CDC) operation to start. Use either CdcStartPosition or CdcStartTime to specify when you want a CDC operation to start. Specifying both values results in an error.

The value can be in date, checkpoint, or LSN/SCN format.

Date Example: --cdc-start-position “2018-03-08T12:12:12”

Checkpoint Example: --cdc-start-position "checkpoint:V1#27#mysql-bin-changelog.157832:1975:-1:2002:677883278264080:mysql-bin-changelog.157832:1876#0#0#*#0#93"

LSN Example: --cdc-start-position “mysql-bin-changelog.000024:373”

> **Note**
>
> When you use this task setting with a source PostgreSQL database, a logical replication slot should already be created and associated with the source endpoint. You can verify this by setting the `slotName` extra connection attribute to the name of this logical replication slot. For more information, see Extra Connection Attributes When Using PostgreSQL as a Source for AWS DMS.

Type: String

Required: No

CdcStartTime

Indicates the start time for a change data capture (CDC) operation. Use either CdcStartTime or CdcStartPosition to specify when you want a CDC operation to start. Specifying both values results in an error.

Timestamp Example: --cdc-start-time “2018-03-08T12:12:12”

Type: Timestamp

Required: No

CdcStopPosition

Indicates when you want a change data capture (CDC) operation to stop. The value can be either server time or commit time.

Server time example: --cdc-stop-position “server_time:2018-02-09T12:12:12”

Commit time example: --cdc-stop-position “commit_time:2018-02-09T12:12:12“

Type: String

Required: No

ReplicationTaskArn

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

Type: String

Required: Yes

StartReplicationTaskType

The type of replication task to start.

When the migration type is `full-load` or `full-load-and-cdc`, the only valid value for the first run of the task is `start-replication`. This option will start the migration.

You can also use ReloadTables to reload specific tables that failed during migration instead of restarting the task.

The `resume-processing` option isn't applicable for a full-load task, because you can't resume partially loaded tables during the full load phase.

For a `full-load-and-cdc` task, AWS DMS migrates table data, and then applies data changes that occur on the source. To load all the tables again, and start capturing source changes, use `reload-target`. Otherwise use `resume-processing`, to replicate the changes from the last stop position.

Type: String

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

Required: Yes

Response Syntax

```
{
   "ReplicationTask": {
      "CdcStartPosition": "string",
      "CdcStopPosition": "string",
      "LastFailureMessage": "string",
      "MigrationType": "string",
      "RecoveryCheckpoint": "string",
      "ReplicationInstanceArn": "string",
      "ReplicationTaskArn": "string",
      "ReplicationTaskCreationDate": number,
      "ReplicationTaskIdentifier": "string",
      "ReplicationTaskSettings": "string",
      "ReplicationTaskStartDate": number,
```

```
      "ReplicationTaskStats": {
         "ElapsedTimeMillis": number,
         "FreshStartDate": number,
         "FullLoadFinishDate": number,
         "FullLoadProgressPercent": number,
         "FullLoadStartDate": number,
         "StartDate": number,
         "StopDate": number,
         "TablesErrored": number,
         "TablesLoaded": number,
         "TablesLoading": number,
         "TablesQueued": number
      },
      "SourceEndpointArn": "string",
      "Status": "string",
      "StopReason": "string",
      "TableMappings": "string",
      "TargetEndpointArn": "string",
      "TargetReplicationInstanceArn": "string",
      "TaskData": "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

The replication task started.

Type: ReplicationTask object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

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

Examples

Example

This example illustrates one usage of StartReplicationTask.

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-
1:123456789012: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-
1:123456789012:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
      "ReplicationTaskIdentifier":"aks145",
      "ReplicationInstanceArn":"arn:aws:dms:us-east-
1:123456789012:rep:6USOU366XFJUWATDJGBCJS3VIQ",
      "TableMappings":"{ \n\t\"TableMappings\": [ { \n\t\t\"Type\":
\"Include\",\n\t\t \"SourceSchema\": \"testDB\",\n\t\t \"SourceTable\":
\"%\" \n\t}, { \n\t\t\"Type\": \"Include\",\n\t\t
\"SourceSchema\": \"testDB\",\n\t\t \"SourceTable\": \"%\" \n\t} ]\n}",
      "ReplicationTaskStartDate":1457658794.056,
      "Status":"starting",
      "ReplicationTaskArn":"arn:aws:dms:us-east-
1:123456789012:task:RALPZGYI3IUSJCBKKIRBEURKDY",
      "ReplicationTaskCreationDate":1449185680.107,
      "MigrationType":"full-load",
      "TargetEndpointArn":"arn:aws:dms:us-east-
1:123456789012:endpoint:GVBUJQXJZASXWHTWCLN2WNT57E",
      "ReplicationTaskSettings":"{\"TargetMetadata\":{\"TargetSchema\":\"\",
\"SupportLobs\":true,\"FullLobMod
e\":true,\"LobChunkSize\":64,\"LimitedSizeLobMode\":false,\"LobMaxSize\":0},\
"      FullLoadSettings\":{
        \"FullLoadEnabled\":true,
        \"
TargetTablePrepMode\":\"DO_NOTHING\",
        \"CreatePkAfterFullLoad\":false,
        \"StopTaskCachedChangesApplied\":false,
        \"StopTaskCachedChangesNotApplied\":false,
        \"Re
sumeEnabled\":false,
        \"ResumeMinTableSize\":100000,
        \"ResumeOnlyClusteredPKTabl
es\":true,
        \"MaxFullLoadSubTasks\":8,
        \"TransactionConsistencyTimeout\":600,
```

```
         \"C
ommitRate\":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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartReplicationTaskAssessment

Starts the replication task assessment for unsupported data types in the source database.

You can only use this operation for a task if the following conditions are true:

- The task must be in the `stopped` state.
- The task must have successful connections to the source and target.

If either of these conditions are not met, an `InvalidResourceStateFault` error will result.

For information about AWS DMS task assessments, see Creating a task assessment report in the *AWS Database Migration Service User Guide*.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

ReplicationTaskArn

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

Type: String

Required: Yes

Response Syntax

```
{
   "ReplicationTask": {
      "CdcStartPosition": "string",
      "CdcStopPosition": "string",
```

```
      "LastFailureMessage": "string",
      "MigrationType": "string",
      "RecoveryCheckpoint": "string",
      "ReplicationInstanceArn": "string",
      "ReplicationTaskArn": "string",
      "ReplicationTaskCreationDate": number,
      "ReplicationTaskIdentifier": "string",
      "ReplicationTaskSettings": "string",
      "ReplicationTaskStartDate": number,
      "ReplicationTaskStats": {
         "ElapsedTimeMillis": number,
         "FreshStartDate": number,
         "FullLoadFinishDate": number,
         "FullLoadProgressPercent": number,
         "FullLoadStartDate": number,
         "StartDate": number,
         "StopDate": number,
         "TablesErrored": number,
         "TablesLoaded": number,
         "TablesLoading": number,
         "TablesQueued": number
      },
      "SourceEndpointArn": "string",
      "Status": "string",
      "StopReason": "string",
      "TableMappings": "string",
      "TargetEndpointArn": "string",
      "TargetReplicationInstanceArn": "string",
      "TaskData": "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

The assessed replication task.

Type: ReplicationTask object

Errors

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

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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartReplicationTaskAssessmentRun

Starts a new premigration assessment run for one or more individual assessments of a migration task.

The assessments that you can specify depend on the source and target database engine and the migration type defined for the given task. To run this operation, your migration task must already be created. After you run this operation, you can review the status of each individual assessment. You can also run the migration task manually after the assessment run and its individual assessments complete.

Request Syntax

```
{
   "AssessmentRunName": "string",
   "Exclude": [ "string" ],
   "IncludeOnly": [ "string" ],
   "ReplicationTaskArn": "string",
   "ResultEncryptionMode": "string",
   "ResultKmsKeyArn": "string",
   "ResultLocationBucket": "string",
   "ResultLocationFolder": "string",
   "ServiceAccessRoleArn": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

AssessmentRunName

Unique name to identify the assessment run.

Type: String

Required: Yes

Exclude

Space-separated list of names for specific individual assessments that you want to exclude. These names come from the default list of individual assessments that AWS DMS supports for the associated migration task. This task is specified by `ReplicationTaskArn`.

> **Note**
>
> You can't set a value for `Exclude` if you also set a value for `IncludeOnly` in the API operation.
> To identify the names of the default individual assessments that
> AWS DMS supports for the associated migration task, run the
> `DescribeApplicableIndividualAssessments` operation using its own
> `ReplicationTaskArn` request parameter.

Type: Array of strings

Required: No

IncludeOnly

Space-separated list of names for specific individual assessments that you want to include. These names come from the default list of individual assessments that AWS DMS supports for the associated migration task. This task is specified by `ReplicationTaskArn`.

> **Note**
>
> You can't set a value for `IncludeOnly` if you also set a value for `Exclude` in the API operation.
> To identify the names of the default individual assessments that
> AWS DMS supports for the associated migration task, run the
> `DescribeApplicableIndividualAssessments` operation using its own
> `ReplicationTaskArn` request parameter.

Type: Array of strings

Required: No

ReplicationTaskArn

Amazon Resource Name (ARN) of the migration task associated with the premigration assessment run that you want to start.

Type: String

Required: Yes

ResultEncryptionMode

Encryption mode that you can specify to encrypt the results of this assessment run. If you don't specify this request parameter, AWS DMS stores the assessment run results without encryption. You can specify one of the options following:

- `"SSE_S3"` – The server-side encryption provided as a default by Amazon S3.
- `"SSE_KMS"` – AWS Key Management Service (AWS KMS) encryption. This encryption can use either a custom KMS encryption key that you specify or the default KMS encryption key that DMS provides.

Type: String

Required: No

ResultKmsKeyArn

ARN of a custom KMS encryption key that you specify when you set `ResultEncryptionMode` to `"SSE_KMS"`.

Type: String

Required: No

ResultLocationBucket

Amazon S3 bucket where you want AWS DMS to store the results of this assessment run.

Type: String

Required: Yes

ResultLocationFolder

Folder within an Amazon S3 bucket where you want AWS DMS to store the results of this assessment run.

Type: String

Required: No

ServiceAccessRoleArn

ARN of the service role needed to start the assessment run. The role must allow the `iam:PassRole` action.

Type: String

Required: Yes

Response Syntax

```
{
   "ReplicationTaskAssessmentRun": {
      "AssessmentProgress": {
         "IndividualAssessmentCompletedCount": number,
         "IndividualAssessmentCount": number
      },
      "AssessmentRunName": "string",
      "LastFailureMessage": "string",
      "ReplicationTaskArn": "string",
      "ReplicationTaskAssessmentRunArn": "string",
      "ReplicationTaskAssessmentRunCreationDate": number,
      "ResultEncryptionMode": "string",
      "ResultKmsKeyArn": "string",
      "ResultLocationBucket": "string",
      "ResultLocationFolder": "string",
      "ServiceAccessRoleArn": "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.

ReplicationTaskAssessmentRun

The premigration assessment run that was started.

Type: ReplicationTaskAssessmentRun object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

InvalidResourceStateFault

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

HTTP Status Code: 400

KMSAccessDeniedFault

The ciphertext references a key that doesn't exist or that the DMS account doesn't have access to.

HTTP Status Code: 400

KMSDisabledFault

The specified KMS key isn't enabled.

HTTP Status Code: 400

KMSFault

An AWS Key Management Service (AWS KMS) error is preventing access to AWS KMS.

HTTP Status Code: 400

KMSInvalidStateFault

The state of the specified AWS KMS resource isn't valid for this request.

HTTP Status Code: 400

KMSKeyNotAccessibleFault

AWS DMS cannot access the KMS key.

HTTP Status Code: 400

KMSNotFoundFault

The specified AWS KMS entity or resource can't be found.

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

S3AccessDeniedFault

Insufficient privileges are preventing access to an Amazon S3 object.

HTTP Status Code: 400

S3ResourceNotFoundFault

A specified Amazon S3 bucket, bucket folder, or other object can't be found.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of StartReplicationTaskAssessmentRun.

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.StartReplicationTaskAssessmentRun
{
  "ReplicationTaskArn": "arn:aws:dms:us-
west-2:123456789012:task:L6XROPGLRF25LCREVEDPT3XL5QJM5IZNUSVFV6Q",
  "ServiceAccessRoleArn": "arn:aws:iam::123456789012:role/Admin",
  "ResultLocationBucket": "s3-endpoint-bucket",
  "ResultLocationFolder": "",
  "AssessmentRunName": "Assessment-run-2020-07-10-18-02-12",
  "IncludeOnly": [
    "full-lob-not-nullable-at-target",
    "table-with-lob-but-without-primary-key-or-unique-constraint",
    "unsupported-data-types-in-source"
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
  "ReplicationTaskAssessmentRun": {
    "AssessmentProgress": {
      "IndividualAssessmentCompletedCount": 0,
      "IndividualAssessmentCount": 3
    },
    "AssessmentRunName": "Assessment-run-2020-07-10-18-02-12",
    "ReplicationTaskArn": "arn:aws:dms:us-
west-2:123456789012:task:L6XROPGLRF25LCREVEDPT3XL5QJM5IZNUSVFV6Q",
    "ReplicationTaskAssessmentRunArn": "arn:aws:dms:us-west-2:123456789012:assessment-
run:W22Q73FR2FBBHSBENXMNMYEWFHX6YTIQUN4OTLA",
    "ReplicationTaskAssessmentRunCreationDate": 1594429350.259,
```

```
    "ResultEncryptionMode": "NONE",
    "ResultLocationBucket": "s3-endpoint-bucket",
    "ResultLocationFolder": "",
    "ServiceAccessRoleArn": "arn:aws:iam::123456789012:role/Admin",
    "Status": "starting"
  }
}
```

See Also

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

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

StopReplication

For a given AWS DMS Serverless replication configuration, AWS DMS stops any and all ongoing AWS DMS Serverless replications. This command doesn't deprovision the stopped replications.

Request Syntax

```
{
   "ReplicationConfigArn": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ReplicationConfigArn

The Amazon Resource Name of the replication to stop.

Type: String

Required: Yes

Response Syntax

```
{
   "Replication": {
      "CdcStartPosition": "string",
      "CdcStartTime": number,
      "CdcStopPosition": "string",
      "FailureMessages": [ "string" ],
      "ProvisionData": {
         "DateNewProvisioningDataAvailable": number,
         "DateProvisioned": number,
         "IsNewProvisioningAvailable": boolean,
         "ProvisionedCapacityUnits": number,
         "ProvisionState": "string",
```

```
            "ReasonForNewProvisioningData": "string"
         },
         "RecoveryCheckpoint": "string",
         "ReplicationConfigArn": "string",
         "ReplicationConfigIdentifier": "string",
         "ReplicationCreateTime": number,
         "ReplicationDeprovisionTime": number,
         "ReplicationLastStopTime": number,
         "ReplicationStats": {
            "ElapsedTimeMillis": number,
            "FreshStartDate": number,
            "FullLoadFinishDate": number,
            "FullLoadProgressPercent": number,
            "FullLoadStartDate": number,
            "StartDate": number,
            "StopDate": number,
            "TablesErrored": number,
            "TablesLoaded": number,
            "TablesLoading": number,
            "TablesQueued": number
         },
         "ReplicationType": "string",
         "ReplicationUpdateTime": number,
         "SourceEndpointArn": "string",
         "StartReplicationType": "string",
         "Status": "string",
         "StopReason": "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.

Replication

The replication that AWS DMS stopped.

Type: Replication object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

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

Examples

Example

This example illustrates one usage of StopReplication.

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.StopReplication
{
   "ReplicationConfigArn":"arn:aws:dms:us-east
```

```
1:123456789012:replication-config:RALPZGYI3IUSJCBKKIRBEURKDY"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
   "Replication": {
      {
         "SourceEndpointArn": "arn:aws:dms:us-west-
2:123456789012:endpoint:5OFSBLSONLVVSYQAY7IBDSMCEHD6NU4FJQ5L7XY",
         "Status": "created",
         "ReplicationConfigIdentifier": "serverless-kms-0",
         "ReplicationStats": {
            "TablesLoading": 0,
            "TablesQueued": 0,
            "TablesErrored": 0,
            "FullLoadProgressPercent": 0,
            "TablesLoaded": 0,
            "ElapsedTimeMillis": 0
         },
         "ReplicationCreateTime": 1679665872.025,
         "ReplicationConfigArn": "arn:aws:dms:us-east
1:123456789012:replication-config:RALPZGYI3IUSJCBKKIRBEURKDY",
         "ReplicationType": "full-load-and-cdc",
         "ReplicationUpdateTime": 1679665872.025,
         "ProvisionData": {
            "IsNewProvisioningAvailable": false,
            "ProvisionedCapacityUnits": 0
         },
         "TargetEndpointArn": "arn:aws:dms:us-west-
2:123456789012:endpoint:WTMG7G6X5TQ5GOQG46WGEBNMPDSH47J5JZHXUFI",
         "FailureMessages": []
      }
   }
}
```

See Also

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

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

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.

The request accepts the following data in JSON format.

ReplicationTaskArn

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

Type: String

Required: Yes

Response Syntax

```
{
   "ReplicationTask": {
      "CdcStartPosition": "string",
      "CdcStopPosition": "string",
      "LastFailureMessage": "string",
      "MigrationType": "string",
      "RecoveryCheckpoint": "string",
      "ReplicationInstanceArn": "string",
      "ReplicationTaskArn": "string",
      "ReplicationTaskCreationDate": number,
      "ReplicationTaskIdentifier": "string",
      "ReplicationTaskSettings": "string",
      "ReplicationTaskStartDate": number,
      "ReplicationTaskStats": {
         "ElapsedTimeMillis": number,
```

```
            "FreshStartDate": number,
            "FullLoadFinishDate": number,
            "FullLoadProgressPercent": number,
            "FullLoadStartDate": number,
            "StartDate": number,
            "StopDate": number,
            "TablesErrored": number,
            "TablesLoaded": number,
            "TablesLoading": number,
            "TablesQueued": number
        },
        "SourceEndpointArn": "string",
        "Status": "string",
        "StopReason": "string",
        "TableMappings": "string",
        "TargetEndpointArn": "string",
        "TargetReplicationInstanceArn": "string",
        "TaskData": "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

The replication task stopped.

Type: ReplicationTask object

Errors

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

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

Examples

Example

This example illustrates one usage of StopReplicationTask.

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-
1:123456789012:task:OEAMB3NXSTZ6LFYZFEPPBBXPYM"
}
```

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-
1:123456789012:endpoint:RZZK4EZW5UANC7Y3P4E776WHBE",
      "ReplicationTaskIdentifier":"task1",
      "ReplicationInstanceArn":"arn:aws:dms:us-east-
1:123456789012:rep:6USOU366XFJUWATDJGBCJS3VIQ",
      "TableMappings":"{\n \"TableMappings\": [\n {\n \"Type\":
\"Include\",\n \"SourceSchema\": \"/\",\n \"SourceTable\": \"/\"\n
}\n ]\n}\n\n",
      "ReplicationTaskStartDate":1457659049.081,
      "Status":"stopping",
      "ReplicationTaskArn":"arn:aws:dms:us-east-
1:123456789012:task:OEAMB3NXSTZ6LFYZFEPPBBXPYM",
      "ReplicationTaskCreationDate":1457658407.492,
      "MigrationType":"full-load",
      "TargetEndpointArn":"arn:aws:dms:us-east-
1:123456789012:endpoint:GVBUJQXJZASXWHTWCLN2WNT57E",
      "ReplicationTaskSettings":"{\"TargetMetadata\":{\"TargetSchema\":\"\",
\"SupportLobs\":true,\"FullLobMod
e\":true,\"LobChunkSize\":64,\"LimitedSizeLobMode\":false,\"LobMaxSize\":0},\
"      FullLoadSettings\":{
        \"FullLoadEnabled\":true,
        \
"TargetTablePrepMode\":\"DROP_AND_CREATE\",
        \"CreatePkAfterFullLoad\":false,
        \"
StopTaskCachedChangesApplied\":false,
        \"StopTaskCachedChangesNotApplied\":false,
        \"ResumeEnabled\":false,
        \"ResumeMinTableSize\":100000,
        \"ResumeOnlyClustered
PKTables\":true,
        \"MaxFullLoadSubTasks\":8,
        \"TransactionConsistencyTimeout\":6         00,
        \"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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

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.

The request accepts the following data in JSON format.

EndpointArn

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

Type: String

Required: Yes

ReplicationInstanceArn

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

The connection tested.

Type: Connection object

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

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

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

Examples

Example

This example illustrates one usage of TestConnection.

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-
 1:123456789012:rep:6USOU366XFJUWATDJGBCJS3VIQ",
     "EndpointArn": "arn:aws:dms:us-east-
 1:123456789012: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-
1:123456789012:endpoint:WKBULDZKUDQZIHPOUUSEH34EMU",
      "EndpointIdentifier":"akshay",
      "ReplicationInstanceArn":"arn:aws:dms:us-east-
1:123456789012: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 .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateSubscriptionsToEventBridge

Migrates 10 active and enabled Amazon SNS subscriptions at a time and converts them to corresponding Amazon EventBridge rules. By default, this operation migrates subscriptions only when all your replication instance versions are 3.4.5 or higher. If any replication instances are from versions earlier than 3.4.5, the operation raises an error and tells you to upgrade these instances to version 3.4.5 or higher. To enable migration regardless of version, set the `Force` option to true. However, if you don't upgrade instances earlier than version 3.4.5, some types of events might not be available when you use Amazon EventBridge.

To call this operation, make sure that you have certain permissions added to your user account. For more information, see Migrating event subscriptions to Amazon EventBridge in the *AWS Database Migration Service User Guide*.

Request Syntax

```
{
   "ForceMove": boolean
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ForceMove

When set to true, this operation migrates AWS DMS subscriptions for Amazon SNS notifications no matter what your replication instance version is. If not set or set to false, this operation runs only when all your replication instances are from AWS DMS version 3.4.5 or higher.

Type: Boolean

Required: No

Response Syntax

```
{
```

```
   "Result": "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.

Result

A string that indicates how many event subscriptions were migrated and how many remain to be migrated.

Type: String

Errors

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

AccessDeniedFault

AWS DMS was denied access to the endpoint. Check that the role is correctly configured.

HTTP Status Code: 400

InvalidResourceStateFault

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

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

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
- AvailabilityZone
- BatchStartRecommendationsErrorEntry
- Certificate
- CollectorHealthCheck
- CollectorResponse
- CollectorShortInfoResponse
- ComputeConfig
- Connection
- DatabaseInstanceSoftwareDetailsResponse
- DatabaseResponse
- DatabaseShortInfoResponse
- DataProvider
- DataProviderDescriptor
- DataProviderDescriptorDefinition
- DataProviderSettings
- DefaultErrorDetails
- DmsTransferSettings
- DocDbDataProviderSettings
- DocDbSettings

- DynamoDbSettings
- ElasticsearchSettings
- Endpoint
- EndpointSetting
- EngineVersion
- ErrorDetails
- Event
- EventCategoryGroup
- EventSubscription
- ExportMetadataModelAssessmentResultEntry
- ExportSqlDetails
- Filter
- FleetAdvisorLsaAnalysisResponse
- FleetAdvisorSchemaObjectResponse
- GcpMySQLSettings
- IBMDb2Settings
- InstanceProfile
- InventoryData
- KafkaSettings
- KinesisSettings
- Limitation
- MariaDbDataProviderSettings
- MicrosoftSqlServerDataProviderSettings
- MicrosoftSQLServerSettings
- MigrationProject
- MongoDbDataProviderSettings
- MongoDbSettings
- MySqlDataProviderSettings
- MySQLSettings
- NeptuneSettings

- OracleDataProviderSettings
- OracleSettings
- OrderableReplicationInstance
- PendingMaintenanceAction
- PostgreSqlDataProviderSettings
- PostgreSQLSettings
- ProvisionData
- RdsConfiguration
- RdsRecommendation
- RdsRequirements
- Recommendation
- RecommendationData
- RecommendationSettings
- RedisSettings
- RedshiftDataProviderSettings
- RedshiftSettings
- RefreshSchemasStatus
- Replication
- ReplicationConfig
- ReplicationInstance
- ReplicationInstanceTaskLog
- ReplicationPendingModifiedValues
- ReplicationStats
- ReplicationSubnetGroup
- ReplicationTask
- ReplicationTaskAssessmentResult
- ReplicationTaskAssessmentRun
- ReplicationTaskAssessmentRunProgress
- ReplicationTaskIndividualAssessment
- ReplicationTaskStats

- ResourcePendingMaintenanceActions
- S3Settings
- SCApplicationAttributes
- SchemaConversionRequest
- SchemaResponse
- SchemaShortInfoResponse
- ServerShortInfoResponse
- StartRecommendationsRequestEntry
- Subnet
- SupportedEndpointType
- SybaseSettings
- TableStatistics
- TableToReload
- Tag
- TimestreamSettings
- VpcSecurityGroupMembership

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 Java V2
- AWS SDK for Ruby V3

AvailabilityZone

The name of an Availability Zone for use during database migration. `AvailabilityZone` is an optional parameter to the `CreateReplicationInstance` operation, and it's value relates to the AWS Region of an endpoint. For example, the availability zone of an endpoint in the us-east-1 region might be us-east-1a, us-east-1b, us-east-1c, or us-east-1d.

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 Java V2
- AWS SDK for Ruby V3

BatchStartRecommendationsErrorEntry

Provides information about the errors that occurred during the analysis of the source database.

Contents

Code

The code of an error that occurred during the analysis of the source database.

Type: String

Required: No

DatabaseId

The identifier of the source database.

Type: String

Required: No

Message

The information about the error.

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 Java V2
- AWS SDK for Ruby V3

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

A customer-assigned name for the certificate. Identifiers must begin with a letter and must contain only ASCII letters, digits, and hyphens. They can't end with a hyphen or contain two consecutive hyphens.

Type: String

Required: No

CertificateOwner

The owner of the certificate.

Type: String

Required: No

CertificatePem

The contents of a `.pem` file, which contains an X.509 certificate.

Type: String

Required: No

CertificateWallet

The location of an imported Oracle Wallet certificate for use with SSL. Example: `filebase64("${path.root}/rds-ca-2019-root.sso")`

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 Java V2
- AWS SDK for Ruby V3

CollectorHealthCheck

Describes the last Fleet Advisor collector health check.

Contents

CollectorStatus

The status of the Fleet Advisor collector.

Type: String

Valid Values: `UNREGISTERED | ACTIVE`

Required: No

LocalCollectorS3Access

Whether the local collector can access its Amazon S3 bucket.

Type: Boolean

Required: No

WebCollectorGrantedRoleBasedAccess

Whether the role that you provided when creating the Fleet Advisor collector has sufficient permissions to access the Fleet Advisor web collector.

Type: Boolean

Required: No

WebCollectorS3Access

Whether the web collector can access its Amazon S3 bucket.

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 Java V2
- AWS SDK for Ruby V3

CollectorResponse

Describes a Fleet Advisor collector.

Contents

CollectorHealthCheck

Describes the last Fleet Advisor collector health check.

Type: CollectorHealthCheck object

Required: No

CollectorName

The name of the Fleet Advisor collector .

Type: String

Required: No

CollectorReferencedId

The reference ID of the Fleet Advisor collector.

Type: String

Required: No

CollectorVersion

The version of your Fleet Advisor collector, in semantic versioning format, for example `1.0.2`

Type: String

Required: No

CreatedDate

The timestamp when you created the collector, in the following format: `2022-01-24T19:04:02.596113Z`

Type: String

Required: No

Description

A summary description of the Fleet Advisor collector.

Type: String

Required: No

InventoryData

Describes a Fleet Advisor collector inventory.

Type: InventoryData object

Required: No

LastDataReceived

The timestamp of the last time the collector received data, in the following format: `2022-01-24T19:04:02.596113Z`

Type: String

Required: No

ModifiedDate

The timestamp when AWS DMS last modified the collector, in the following format: `2022-01-24T19:04:02.596113Z`

Type: String

Required: No

RegisteredDate

The timestamp when AWS DMS registered the collector, in the following format: `2022-01-24T19:04:02.596113Z`

Type: String

Required: No

S3BucketName

The Amazon S3 bucket that the Fleet Advisor collector uses to store inventory metadata.

Type: String

Required: No

ServiceAccessRoleArn

The IAM role that grants permissions to access the specified Amazon S3 bucket.

Type: String

Required: No

VersionStatus

Whether the collector version is up to date.

Type: String

Valid Values: `UP_TO_DATE | OUTDATED | UNSUPPORTED`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollectorShortInfoResponse

Briefly describes a Fleet Advisor collector.

Contents

CollectorName

The name of the Fleet Advisor collector.

Type: String

Required: No

CollectorReferencedId

The reference ID of the Fleet Advisor collector.

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 Java V2
- AWS SDK for Ruby V3

ComputeConfig

Configuration parameters for provisioning an AWS DMS Serverless replication.

Contents

AvailabilityZone

The Availability Zone where the AWS DMS Serverless replication using this configuration will run. The default value is a random, system-chosen Availability Zone in the configuration's AWS Region, for example, `"us-west-2"`. You can't set this parameter if the `MultiAZ` parameter is set to `true`.

Type: String

Required: No

DnsNameServers

A list of custom DNS name servers supported for the AWS DMS Serverless replication to access your source or target database. This list overrides the default name servers supported by the AWS DMS Serverless replication. You can specify a comma-separated list of internet addresses for up to four DNS name servers. For example: `"1.1.1.1,2.2.2.2,3.3.3.3,4.4.4.4"`

Type: String

Required: No

KmsKeyId

An AWS Key Management Service (AWS KMS) key Amazon Resource Name (ARN) that is used to encrypt the data during AWS DMS Serverless replication.

If you don't specify a value for the `KmsKeyId` parameter, AWS DMS uses your default encryption key.

AWS KMS creates the default encryption key for your Amazon Web Services account. Your AWS account has a different default encryption key for each AWS Region.

Type: String

Required: No

MaxCapacityUnits

Specifies the maximum value of the AWS DMS capacity units (DCUs) for which a given AWS DMS Serverless replication can be provisioned. A single DCU is 2GB of RAM, with 1 DCU as the minimum value allowed. The list of valid DCU values includes 1, 2, 4, 8, 16, 32, 64, 128, 192, 256, and 384. So, the maximum value that you can specify for AWS DMS Serverless is 384. The `MaxCapacityUnits` parameter is the only DCU parameter you are required to specify.

Type: Integer

Required: No

MinCapacityUnits

Specifies the minimum value of the AWS DMS capacity units (DCUs) for which a given AWS DMS Serverless replication can be provisioned. A single DCU is 2GB of RAM, with 1 DCU as the minimum value allowed. The list of valid DCU values includes 1, 2, 4, 8, 16, 32, 64, 128, 192, 256, and 384. So, the minimum DCU value that you can specify for AWS DMS Serverless is 1. If you don't set this value, AWS DMS sets this parameter to the minimum DCU value allowed, 1. If there is no current source activity, AWS DMS scales down your replication until it reaches the value specified in `MinCapacityUnits`.

Type: Integer

Required: No

MultiAZ

Specifies whether the AWS DMS Serverless replication is a Multi-AZ deployment. You can't set the `AvailabilityZone` parameter if the `MultiAZ` parameter is set to `true`.

Type: Boolean

Required: No

PreferredMaintenanceWindow

The weekly time range during which system maintenance can occur for the AWS DMS Serverless replication, in Universal Coordinated Time (UTC). The format is `ddd:hh24:mi-ddd:hh24:mi`.

The default is a 30-minute window selected at random from an 8-hour block of time per AWS Region. This maintenance occurs on a random day of the week. Valid values for days of the week include `Mon`, `Tue`, `Wed`, `Thu`, `Fri`, `Sat`, and `Sun`.

Constraints include a minimum 30-minute window.

Type: String

Required: No

ReplicationSubnetGroupId

Specifies a subnet group identifier to associate with the AWS DMS Serverless replication.

Type: String

Required: No

VpcSecurityGroupIds

Specifies the virtual private cloud (VPC) security group to use with the AWS DMS Serverless replication. The VPC security group must work with the VPC containing the replication.

Type: Array of strings

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Connection

Status of the connection between an endpoint and a replication instance, including Amazon Resource Names (ARNs) and the last error message issued.

Contents

EndpointArn

The ARN string that uniquely identifies the endpoint.

Type: String

Required: No

EndpointIdentifier

The identifier of the endpoint. Identifiers must begin with a letter and must contain only ASCII letters, digits, and hyphens. They can't 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 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. This parameter can return one of the following values:

- `"successful"`
- `"testing"`
- `"failed"`
- `"deleting"`

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 Java V2
- AWS SDK for Ruby V3

DatabaseInstanceSoftwareDetailsResponse

Describes an inventory database instance for a Fleet Advisor collector.

Contents

Engine

The database engine of a database in a Fleet Advisor collector inventory, for example `Microsoft SQL Server`.

Type: String

Required: No

EngineEdition

The database engine edition of a database in a Fleet Advisor collector inventory, for example `Express`.

Type: String

Required: No

EngineVersion

The database engine version of a database in a Fleet Advisor collector inventory, for example `2019`.

Type: String

Required: No

OsArchitecture

The operating system architecture of the database.

Type: Integer

Required: No

ServicePack

The service pack level of the database.

Type: String

Required: No

SupportLevel

The support level of the database, for example `Mainstream support`.

Type: String

Required: No

Tooltip

Information about the database engine software, for example `Mainstream support ends on November 14th, 2024`.

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 Java V2
- AWS SDK for Ruby V3

DatabaseResponse

Describes a database in a Fleet Advisor collector inventory.

Contents

Collectors

A list of collectors associated with the database.

Type: Array of CollectorShortInfoResponse objects

Required: No

DatabaseId

The ID of a database in a Fleet Advisor collector inventory.

Type: String

Required: No

DatabaseName

The name of a database in a Fleet Advisor collector inventory.

Type: String

Required: No

IpAddress

The IP address of a database in a Fleet Advisor collector inventory.

Type: String

Required: No

NumberOfSchemas

The number of schemas in a Fleet Advisor collector inventory database.

Type: Long

Required: No

Server

The server name of a database in a Fleet Advisor collector inventory.

Type: ServerShortInfoResponse object

Required: No

SoftwareDetails

The software details of a database in a Fleet Advisor collector inventory, such as database engine and version.

Type: DatabaseInstanceSoftwareDetailsResponse object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DatabaseShortInfoResponse

Describes a database in a Fleet Advisor collector inventory.

Contents

DatabaseEngine

The database engine of a database in a Fleet Advisor collector inventory, for example `PostgreSQL`.

Type: String

Required: No

DatabaseId

The ID of a database in a Fleet Advisor collector inventory.

Type: String

Required: No

DatabaseIpAddress

The IP address of a database in a Fleet Advisor collector inventory.

Type: String

Required: No

DatabaseName

The name of a database in a Fleet Advisor collector inventory.

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 Java V2
- AWS SDK for Ruby V3

DataProvider

Provides information that defines a data provider.

Contents

DataProviderArn

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

Type: String

Required: No

DataProviderCreationTime

The time the data provider was created.

Type: Timestamp

Required: No

DataProviderName

The name of the data provider.

Type: String

Required: No

Description

A description of the data provider. Descriptions can have up to 31 characters. A description can contain only ASCII letters, digits, and hyphens ('-'). Also, it can't end with a hyphen or contain two consecutive hyphens, and can only begin with a letter.

Type: String

Required: No

Engine

The type of database engine for the data provider. Valid values include `"aurora"`, `"aurora-postgresql"`, `"mysql"`, `"oracle"`, `"postgres"`, `"sqlserver"`, `redshift`, `mariadb`,

mongodb, and docdb. A value of "aurora" represents Amazon Aurora MySQL-Compatible Edition.

Type: String

Required: No

Settings

The settings in JSON format for a data provider.

Type: DataProviderSettings object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataProviderDescriptor

Information about a data provider.

Contents

DataProviderArn

The Amazon Resource Name (ARN) of the data provider.

Type: String

Required: No

DataProviderName

The user-friendly name of the data provider.

Type: String

Required: No

SecretsManagerAccessRoleArn

The ARN of the role used to access AWS Secrets Manager.

Type: String

Required: No

SecretsManagerSecretId

The identifier of the AWS Secrets Manager Secret used to store access credentials for the data provider.

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 Java V2
- AWS SDK for Ruby V3

DataProviderDescriptorDefinition

Information about a data provider.

Contents

DataProviderIdentifier

The name or Amazon Resource Name (ARN) of the data provider.

Type: String

Required: Yes

SecretsManagerAccessRoleArn

The ARN of the role used to access AWS Secrets Manager.

Type: String

Required: No

SecretsManagerSecretId

The identifier of the AWS Secrets Manager Secret used to store access credentials for the data provider.

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 Java V2
- AWS SDK for Ruby V3

DataProviderSettings

Provides information that defines a data provider.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

DocDbSettings

Provides information that defines a DocumentDB data provider.

Type: DocDbDataProviderSettings object

Required: No

MariaDbSettings

Provides information that defines a MariaDB data provider.

Type: MariaDbDataProviderSettings object

Required: No

MicrosoftSqlServerSettings

Provides information that defines a Microsoft SQL Server data provider.

Type: MicrosoftSqlServerDataProviderSettings object

Required: No

MongoDbSettings

Provides information that defines a MongoDB data provider.

Type: MongoDbDataProviderSettings object

Required: No

MySqlSettings

Provides information that defines a MySQL data provider.

Type: MySqlDataProviderSettings object

Required: No

OracleSettings

Provides information that defines an Oracle data provider.

Type: OracleDataProviderSettings object

Required: No

PostgreSqlSettings

Provides information that defines a PostgreSQL data provider.

Type: PostgreSqlDataProviderSettings object

Required: No

RedshiftSettings

Provides information that defines an Amazon Redshift data provider.

Type: RedshiftDataProviderSettings object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DefaultErrorDetails

Provides error information about a schema conversion operation.

Contents

Message

The error message.

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 Java V2
- AWS SDK for Ruby V3

DmsTransferSettings

The settings in JSON format for the DMS Transfer type source endpoint.

Contents

BucketName

The name of the S3 bucket to use.

Type: String

Required: No

ServiceAccessRoleArn

The Amazon Resource Name (ARN) used by the service access IAM role. The role must allow the `iam:PassRole` action.

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 Java V2
- AWS SDK for Ruby V3

DocDbDataProviderSettings

Provides information that defines a DocumentDB data provider.

Contents

CertificateArn

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

Type: String

Required: No

DatabaseName

The database name on the DocumentDB data provider.

Type: String

Required: No

Port

The port value for the DocumentDB data provider.

Type: Integer

Required: No

ServerName

The name of the source DocumentDB server.

Type: String

Required: No

SslMode

The SSL mode used to connect to the DocumentDB data provider. The default value is none.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DocDbSettings

Provides information that defines a DocumentDB endpoint.

Contents

DatabaseName

The database name on the DocumentDB source endpoint.

Type: String

Required: No

DocsToInvestigate

Indicates the number of documents to preview to determine the document organization. Use this setting when `NestingLevel` is set to `"one"`.

Must be a positive value greater than `0`. Default value is `1000`.

Type: Integer

Required: No

ExtractDocId

Specifies the document ID. Use this setting when `NestingLevel` is set to `"none"`.

Default value is `"false"`.

Type: Boolean

Required: No

KmsKeyId

The AWS KMS key identifier that is used to encrypt the content on the replication instance. If you don't specify a value for the `KmsKeyId` parameter, then AWS DMS uses 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

NestingLevel

Specifies either document or table mode.

Default value is "none". Specify "none" to use document mode. Specify "one" to use table mode.

Type: String

Valid Values: none | one

Required: No

Password

The password for the user account you use to access the DocumentDB source endpoint.

Type: String

Required: No

Port

The port value for the DocumentDB source endpoint.

Type: Integer

Required: No

ReplicateShardCollections

If `true`, AWS DMS replicates data to shard collections. AWS DMS only uses this setting if the target endpoint is a DocumentDB elastic cluster.

When this setting is `true`, note the following:

- You must set `TargetTablePrepMode` to `nothing`.
- AWS DMS automatically sets `useUpdateLookup` to `false`.

Type: Boolean

Required: No

SecretsManagerAccessRoleArn

The full Amazon Resource Name (ARN) of the IAM role that specifies AWS DMS as the trusted entity and grants the required permissions to access the value in `SecretsManagerSecret`.

The role must allow the `iam:PassRole` action. `SecretsManagerSecret` has the value of the AWS Secrets Manager secret that allows access to the DocumentDB endpoint.

> **Note**
>
> You can specify one of two sets of values for these permissions. You can specify the values for this setting and `SecretsManagerSecretId`. Or you can specify clear-text values for `UserName`, `Password`, `ServerName`, and `Port`. You can't specify both. For more information on creating this `SecretsManagerSecret` and the `SecretsManagerAccessRoleArn` and `SecretsManagerSecretId` required to access it, see Using secrets to access AWS Database Migration Service resources in the *AWS Database Migration Service User Guide*.

Type: String

Required: No

SecretsManagerSecretId

The full ARN, partial ARN, or friendly name of the `SecretsManagerSecret` that contains the DocumentDB endpoint connection details.

Type: String

Required: No

ServerName

The name of the server on the DocumentDB source endpoint.

Type: String

Required: No

Username

The user name you use to access the DocumentDB source endpoint.

Type: String

Required: No

UseUpdateLookUp

If `true`, AWS DMS retrieves the entire document from the DocumentDB source during migration. This may cause a migration failure if the server response exceeds bandwidth limits. To fetch only updates and deletes during migration, set this parameter to `false`.

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 Java V2
- AWS SDK for Ruby V3

DynamoDbSettings

Provides the Amazon Resource Name (ARN) of the AWS Identity and Access Management (IAM) role used to define an Amazon DynamoDB target endpoint.

Contents

ServiceAccessRoleArn

The Amazon Resource Name (ARN) used by the service to access the IAM role. The role must allow the `iam:PassRole` action.

Type: String

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ElasticsearchSettings

Provides information that defines an OpenSearch endpoint.

Contents

EndpointUri

The endpoint for the OpenSearch cluster. AWS DMS uses HTTPS if a transport protocol (http/https) is not specified.

Type: String

Required: Yes

ServiceAccessRoleArn

The Amazon Resource Name (ARN) used by the service to access the IAM role. The role must allow the `iam:PassRole` action.

Type: String

Required: Yes

ErrorRetryDuration

The maximum number of seconds for which DMS retries failed API requests to the OpenSearch cluster.

Type: Integer

Required: No

FullLoadErrorPercentage

The maximum percentage of records that can fail to be written before a full load operation stops.

To avoid early failure, this counter is only effective after 1000 records are transferred. OpenSearch also has the concept of error monitoring during the last 10 minutes of an Observation Window. If transfer of all records fail in the last 10 minutes, the full load operation stops.

Type: Integer

Required: No

UseNewMappingType

Set this option to `true` for DMS to migrate documentation using the documentation type _doc. OpenSearch and an Elasticsearch cluster only support the _doc documentation type in versions 7. x and later. The default value is `false`.

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 Java V2
- AWS SDK for Ruby V3

Endpoint

Describes an endpoint of a database instance in response to operations such as the following:

- `CreateEndpoint`
- `DescribeEndpoint`
- `ModifyEndpoint`

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

DmsTransferSettings

The settings for the AWS DMS Transfer type source. For more information, see the DmsTransferSettings structure.

Type: DmsTransferSettings object

Required: No

DocDbSettings

Provides information that defines a DocumentDB endpoint.

Type: DocDbSettings object

Required: No

DynamoDbSettings

The settings for the DynamoDB target endpoint. For more information, see the `DynamoDBSettings` structure.

Type: DynamoDbSettings object

Required: No

ElasticsearchSettings

The settings for the OpenSearch source endpoint. For more information, see the `ElasticsearchSettings` structure.

Type: ElasticsearchSettings object

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 and must contain only ASCII letters, digits, and hyphens. They can't end with a hyphen or contain two consecutive hyphens.

Type: String

Required: No

EndpointType

The type of endpoint. Valid values are `source` and `target`.

Type: String

Valid Values: `source | target`

Required: No

EngineDisplayName

The expanded name for the engine name. For example, if the `EngineName` parameter is "aurora", this value would be "Amazon Aurora MySQL".

Type: String

Required: No

EngineName

The database engine name. Valid values, depending on the EndpointType, include `"mysql"`, `"oracle"`, `"postgres"`, `"mariadb"`, `"aurora"`, `"aurora-postgresql"`, `"redshift"`, `"redshift-serverless"`, `"s3"`, `"db2"`, `"db2-zos"`, `"azuredb"`, `"sybase"`, `"dynamodb"`, `"mongodb"`, `"kinesis"`, `"kafka"`, `"elasticsearch"`, `"documentdb"`, `"sqlserver"`, `"neptune"`, and `"babelfish"`.

Type: String

Required: No

ExternalId

Value returned by a call to CreateEndpoint that can be used for cross-account validation. Use it on a subsequent call to CreateEndpoint to create the endpoint with a cross-account.

Type: String

Required: No

ExternalTableDefinition

The external table definition.

Type: String

Required: No

ExtraConnectionAttributes

Additional connection attributes used to connect to the endpoint.

Type: String

Required: No

GcpMySQLSettings

Settings in JSON format for the source GCP MySQL endpoint.

Type: GcpMySQLSettings object

Required: No

IBMDb2Settings

The settings for the IBM Db2 LUW source endpoint. For more information, see the `IBMDb2Settings` structure.

Type: IBMDb2Settings object

Required: No

KafkaSettings

The settings for the Apache Kafka target endpoint. For more information, see the `KafkaSettings` structure.

Type: KafkaSettings object

Required: No

KinesisSettings

The settings for the Amazon Kinesis target endpoint. For more information, see the `KinesisSettings` structure.

Type: KinesisSettings object

Required: No

KmsKeyId

An AWS KMS key identifier that is used to encrypt the connection parameters for the endpoint.

If you don't specify a value for the `KmsKeyId` parameter, then AWS DMS uses 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

MicrosoftSQLServerSettings

The settings for the Microsoft SQL Server source and target endpoint. For more information, see the `MicrosoftSQLServerSettings` structure.

Type: MicrosoftSQLServerSettings object

Required: No

MongoDbSettings

The settings for the MongoDB source endpoint. For more information, see the `MongoDbSettings` structure.

Type: MongoDbSettings object

Required: No

MySQLSettings

The settings for the MySQL source and target endpoint. For more information, see the `MySQLSettings` structure.

Type: MySQLSettings object

Required: No

NeptuneSettings

The settings for the Amazon Neptune target endpoint. For more information, see the `NeptuneSettings` structure.

Type: NeptuneSettings object

Required: No

OracleSettings

The settings for the Oracle source and target endpoint. For more information, see the `OracleSettings` structure.

Type: OracleSettings object

Required: No

Port

The port value used to access the endpoint.

Type: Integer

Required: No

PostgreSQLSettings

The settings for the PostgreSQL source and target endpoint. For more information, see the `PostgreSQLSettings` structure.

Type: PostgreSQLSettings object

Required: No

RedisSettings

The settings for the Redis target endpoint. For more information, see the `RedisSettings` structure.

Type: RedisSettings object

Required: No

RedshiftSettings

Settings for the Amazon Redshift endpoint.

Type: RedshiftSettings object

Required: No

S3Settings

The settings for the S3 target endpoint. For more information, see the `S3Settings` structure.

Type: S3Settings object

Required: No

ServerName

The name of the server at the endpoint.

Type: String

Required: No

ServiceAccessRoleArn

The Amazon Resource Name (ARN) used by the service to access the IAM role. The role must allow the `iam:PassRole` action.

Type: String

Required: No

SslMode

The SSL mode used to connect to the endpoint. 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

SybaseSettings

The settings for the SAP ASE source and target endpoint. For more information, see the `SybaseSettings` structure.

Type: SybaseSettings object

Required: No

TimestreamSettings

The settings for the Amazon Timestream target endpoint. For more information, see the `TimestreamSettings` structure.

Type: TimestreamSettings object

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 Java V2
- AWS SDK for Ruby V3

EndpointSetting

Endpoint settings.

Contents

Applicability

The relevance or validity of an endpoint setting for an engine name and its endpoint type.

Type: String

Required: No

DefaultValue

The default value of the endpoint setting if no value is specified using `CreateEndpoint` or `ModifyEndpoint`.

Type: String

Required: No

EnumValues

Enumerated values to use for this endpoint.

Type: Array of strings

Required: No

IntValueMax

The maximum value of an endpoint setting that is of type `int`.

Type: Integer

Required: No

IntValueMin

The minimum value of an endpoint setting that is of type `int`.

Type: Integer

Required: No

Name

The name that you want to give the endpoint settings.

Type: String

Required: No

Sensitive

A value that marks this endpoint setting as sensitive.

Type: Boolean

Required: No

Type

The type of endpoint. Valid values are `source` and `target`.

Type: String

Valid Values: `string | boolean | integer | enum`

Required: No

Units

The unit of measure for this endpoint setting.

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 Java V2
- AWS SDK for Ruby V3

EngineVersion

Provides information about a replication instance version.

Contents

AutoUpgradeDate

The date when the replication instance will be automatically upgraded. This setting only applies if the `auto-minor-version` setting is enabled.

Type: Timestamp

Required: No

AvailableUpgrades

The list of valid replication instance versions that you can upgrade to.

Type: Array of strings

Required: No

DeprecationDate

The date when the replication instance version will be deprecated and can no longer be requested.

Type: Timestamp

Required: No

ForceUpgradeDate

The date when the replication instance will have a version upgrade forced.

Type: Timestamp

Required: No

LaunchDate

The date when the replication instance version became publicly available.

Type: Timestamp

Required: No

Lifecycle

The lifecycle status of the replication instance version. Valid values are `DEPRECATED`, `DEFAULT_VERSION`, and `ACTIVE`.

Type: String

Required: No

ReleaseStatus

The release status of the replication instance version.

Type: String

Valid Values: `beta | prod`

Required: No

Version

The version number of 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 Java V2
- AWS SDK for Ruby V3

ErrorDetails

Provides error information about a project.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

defaultErrorDetails

Error information about a project.

Type: DefaultErrorDetails object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Event

Describes an identifiable significant activity that affects a replication instance or task. This object can provide the message, the available event categories, the date and source of the event, and the AWS DMS resource type.

Contents

Date

The date of the event.

Type: Timestamp

Required: No

EventCategories

The event categories available for the specified source type.

Type: Array of strings

Required: No

Message

The event message.

Type: String

Required: No

SourceIdentifier

The identifier of an event source.

Type: String

Required: No

SourceType

The type of AWS DMS resource that generates events.

Valid values: replication-instance | endpoint | replication-task

Type: String

Valid Values: `replication-instance`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EventCategoryGroup

Lists categories of events subscribed to, and generated by, the applicable AWS DMS resource type. This data type appears in response to the `DescribeEventCategories` action.

Contents

EventCategories

A list of event categories from a source type that you've chosen.

Type: Array of strings

Required: No

SourceType

The type of AWS DMS resource that generates events.

Valid values: replication-instance | replication-server | security-group | replication-task

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 Java V2
- AWS SDK for Ruby V3

EventSubscription

Describes an event notification subscription created by the `CreateEventSubscription` operation.

Contents

CustomerAwsId

The AWS customer account associated with the AWS DMS event notification subscription.

Type: String

Required: No

CustSubscriptionId

The AWS DMS event notification subscription Id.

Type: String

Required: No

Enabled

Boolean value that indicates if the event subscription is enabled.

Type: Boolean

Required: No

EventCategoriesList

A lists of event categories.

Type: Array of strings

Required: No

SnsTopicArn

The topic ARN of the AWS DMS event notification subscription.

Type: String

Required: No

SourceIdsList

A list of source Ids for the event subscription.

Type: Array of strings

Required: No

SourceType

The type of AWS DMS resource that generates events.

Valid values: replication-instance | replication-server | security-group | replication-task

Type: String

Required: No

Status

The status of the AWS DMS event notification subscription.

Constraints:

Can be one of the following: creating | modifying | deleting | active | no-permission | topic-not-exist

The status "no-permission" indicates that AWS DMS no longer has permission to post to the SNS topic. The status "topic-not-exist" indicates that the topic was deleted after the subscription was created.

Type: String

Required: No

SubscriptionCreationTime

The time the AWS DMS event notification subscription was created.

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 Java V2
- AWS SDK for Ruby V3

ExportMetadataModelAssessmentResultEntry

Provides information about an exported metadata model assessment.

Contents

ObjectURL

The URL for the object containing the exported metadata model assessment.

Type: String

Required: No

S3ObjectKey

The object key for the object containing the exported metadata model assessment.

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 Java V2
- AWS SDK for Ruby V3

ExportSqlDetails

Provides information about a metadata model assessment exported to SQL.

Contents

ObjectURL

The URL for the object containing the exported metadata model assessment.

Type: String

Required: No

S3ObjectKey

The Amazon S3 object key for the object containing the exported metadata model assessment.

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 Java V2
- AWS SDK for Ruby V3

Filter

Identifies the name and value of a filter object. This filter is used to limit the number and type of AWS DMS objects that are returned for a particular `Describe*` call or similar operation. Filters are used as an optional parameter for certain API operations.

Contents

Name

The name of the filter as specified for a `Describe*` or similar operation.

Type: String

Required: Yes

Values

The filter value, which can specify one or more values used to narrow the returned results.

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 Java V2
- AWS SDK for Ruby V3

FleetAdvisorLsaAnalysisResponse

Describes a large-scale assessment (LSA) analysis run by a Fleet Advisor collector.

Contents

LsaAnalysisId

The ID of an LSA analysis run by a Fleet Advisor collector.

Type: String

Required: No

Status

The status of an LSA analysis run by a Fleet Advisor collector.

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 Java V2
- AWS SDK for Ruby V3

FleetAdvisorSchemaObjectResponse

Describes a schema object in a Fleet Advisor collector inventory.

Contents

CodeLineCount

The number of lines of code in a schema object in a Fleet Advisor collector inventory.

Type: Long

Required: No

CodeSize

The size level of the code in a schema object in a Fleet Advisor collector inventory.

Type: Long

Required: No

NumberOfObjects

The number of objects in a schema object in a Fleet Advisor collector inventory.

Type: Long

Required: No

ObjectType

The type of the schema object, as reported by the database engine. Examples include the following:

- `function`
- `trigger`
- `SYSTEM_TABLE`
- `QUEUE`

Type: String

Required: No

SchemaId

The ID of a schema object in a Fleet Advisor collector inventory.

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 Java V2
- AWS SDK for Ruby V3

GcpMySQLSettings

Settings in JSON format for the source GCP MySQL endpoint.

Contents

AfterConnectScript

Specifies a script to run immediately after AWS DMS connects to the endpoint. The migration task continues running regardless if the SQL statement succeeds or fails.

For this parameter, provide the code of the script itself, not the name of a file containing the script.

Type: String

Required: No

CleanSourceMetadataOnMismatch

Cleans and recreates table metadata information on the replication instance when a mismatch occurs. For example, in a situation where running an alter DDL on the table could result in different information about the table cached in the replication instance.

Type: Boolean

Required: No

DatabaseName

Database name for the endpoint. For a MySQL source or target endpoint, don't explicitly specify the database using the `DatabaseName` request parameter on either the `CreateEndpoint` or `ModifyEndpoint` API call. Specifying `DatabaseName` when you create or modify a MySQL endpoint replicates all the task tables to this single database. For MySQL endpoints, you specify the database only when you specify the schema in the table-mapping rules of the AWS DMS task.

Type: String

Required: No

EventsPollInterval

Specifies how often to check the binary log for new changes/events when the database is idle. The default is five seconds.

Example: `eventsPollInterval=5;`

In the example, AWS DMS checks for changes in the binary logs every five seconds.

Type: Integer

Required: No

MaxFileSize

Specifies the maximum size (in KB) of any .csv file used to transfer data to a MySQL-compatible database.

Example: `maxFileSize=512`

Type: Integer

Required: No

ParallelLoadThreads

Improves performance when loading data into the MySQL-compatible target database. Specifies how many threads to use to load the data into the MySQL-compatible target database. Setting a large number of threads can have an adverse effect on database performance, because a separate connection is required for each thread. The default is one.

Example: `parallelLoadThreads=1`

Type: Integer

Required: No

Password

Endpoint connection password.

Type: String

Required: No

Port

Endpoint TCP port.

Type: Integer

Required: No

SecretsManagerAccessRoleArn

The full Amazon Resource Name (ARN) of the IAM role that specifies AWS DMS as the trusted entity and grants the required permissions to access the value in `SecretsManagerSecret`. The role must allow the `iam:PassRole` action. `SecretsManagerSecret` has the value of the AWS Secrets Manager secret that allows access to the MySQL endpoint.

> **Note**
>
> You can specify one of two sets of values for these permissions. You can specify the values for this setting and `SecretsManagerSecretId`. Or you can specify clear-text values for `UserName`, `Password`, `ServerName`, and `Port`. You can't specify both. For more information on creating this `SecretsManagerSecret` and the `SecretsManagerAccessRoleArn` and `SecretsManagerSecretId` required to access it, see Using secrets to access AWS Database Migration Service resources in the AWS Database Migration Service User Guide.

Type: String

Required: No

SecretsManagerSecretId

The full ARN, partial ARN, or friendly name of the `SecretsManagerSecret` that contains the MySQL endpoint connection details.

Type: String

Required: No

ServerName

The MySQL host name.

Type: String

Required: No

ServerTimezone

Specifies the time zone for the source MySQL database.

Example: `serverTimezone=US/Pacific;`

Note: Do not enclose time zones in single quotes.

Type: String

Required: No

TargetDbType

Specifies where to migrate source tables on the target, either to a single database or multiple databases.

Example: `targetDbType=MULTIPLE_DATABASES`

Type: String

Valid Values: `specific-database | multiple-databases`

Required: No

Username

Endpoint connection user name.

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 Java V2

- AWS SDK for Ruby V3

IBMDb2Settings

Provides information that defines an IBM Db2 LUW endpoint.

Contents

CurrentLsn

For ongoing replication (CDC), use CurrentLSN to specify a log sequence number (LSN) where you want the replication to start.

Type: String

Required: No

DatabaseName

Database name for the endpoint.

Type: String

Required: No

KeepCsvFiles

If true, AWS DMS saves any .csv files to the Db2 LUW target that were used to replicate data. DMS uses these files for analysis and troubleshooting.

The default value is false.

Type: Boolean

Required: No

LoadTimeout

The amount of time (in milliseconds) before AWS DMS times out operations performed by DMS on the Db2 target. The default value is 1200 (20 minutes).

Type: Integer

Required: No

MaxFileSize

Specifies the maximum size (in KB) of .csv files used to transfer data to Db2 LUW.

Type: Integer

Required: No

MaxKBytesPerRead

Maximum number of bytes per read, as a NUMBER value. The default is 64 KB.

Type: Integer

Required: No

Password

Endpoint connection password.

Type: String

Required: No

Port

Endpoint TCP port. The default value is 50000.

Type: Integer

Required: No

SecretsManagerAccessRoleArn

The full Amazon Resource Name (ARN) of the IAM role that specifies AWS DMS as the trusted entity and grants the required permissions to access the value in `SecretsManagerSecret`. The role must allow the `iam:PassRole` action. `SecretsManagerSecret` has the value of the AWS Secrets Manager secret that allows access to the Db2 LUW endpoint.

> **Note**
>
> You can specify one of two sets of values for these permissions. You can specify the values for this setting and `SecretsManagerSecretId`. Or you can specify clear-text values for `UserName`, `Password`, `ServerName`, and `Port`. You can't specify both. For more information on creating this `SecretsManagerSecret` and the `SecretsManagerAccessRoleArn` and `SecretsManagerSecretId` required to access it, see Using secrets to access AWS Database Migration Service resources in the *AWS Database Migration Service User Guide*.

Type: String

Required: No

SecretsManagerSecretId

The full ARN, partial ARN, or friendly name of the `SecretsManagerSecret` that contains the Db2 LUW endpoint connection details.

Type: String

Required: No

ServerName

Fully qualified domain name of the endpoint.

Type: String

Required: No

SetDataCaptureChanges

Enables ongoing replication (CDC) as a BOOLEAN value. The default is true.

Type: Boolean

Required: No

Username

Endpoint connection user name.

Type: String

Required: No

WriteBufferSize

The size (in KB) of the in-memory file write buffer used when generating .csv files on the local disk on the DMS replication instance. The default value is 1024 (1 MB).

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 Java V2
- AWS SDK for Ruby V3

InstanceProfile

Provides information that defines an instance profile.

Contents

AvailabilityZone

The Availability Zone where the instance profile runs.

Type: String

Required: No

Description

A description of the instance profile. Descriptions can have up to 31 characters. A description can contain only ASCII letters, digits, and hyphens ('-'). Also, it can't end with a hyphen or contain two consecutive hyphens, and can only begin with a letter.

Type: String

Required: No

InstanceProfileArn

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

Type: String

Required: No

InstanceProfileCreationTime

The time the instance profile was created.

Type: Timestamp

Required: No

InstanceProfileName

The user-friendly name for the instance profile.

Type: String

Required: No

KmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key that is used to encrypt the connection parameters for the instance profile.

If you don't specify a value for the `KmsKeyArn` parameter, then AWS DMS uses 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

NetworkType

Specifies the network type for the instance profile. A value of `IPV4` represents an instance profile with IPv4 network type and only supports IPv4 addressing. A value of `IPV6` represents an instance profile with IPv6 network type and only supports IPv6 addressing. A value of `DUAL` represents an instance profile with dual network type that supports IPv4 and IPv6 addressing.

Type: String

Required: No

PubliclyAccessible

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

Type: Boolean

Required: No

SubnetGroupIdentifier

The identifier of the subnet group that is associated with the instance profile.

Type: String

Required: No

VpcSecurityGroups

The VPC security groups that are used with the instance profile. The VPC security group must work with the VPC containing the instance profile.

Type: Array of strings

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InventoryData

Describes a Fleet Advisor collector inventory.

Contents

NumberOfDatabases

The number of databases in the Fleet Advisor collector inventory.

Type: Integer

Required: No

NumberOfSchemas

The number of schemas in the Fleet Advisor collector inventory.

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 Java V2
- AWS SDK for Ruby V3

KafkaSettings

Provides information that describes an Apache Kafka endpoint. This information includes the output format of records applied to the endpoint and details of transaction and control table data information.

Contents

Broker

A comma-separated list of one or more broker locations in your Kafka cluster that host your Kafka instance. Specify each broker location in the form *`broker-hostname-or-ip:port`* . For example, `"ec2-12-345-678-901.compute-1.amazonaws.com:2345"`. For more information and examples of specifying a list of broker locations, see Using Apache Kafka as a target for AWS Database Migration Service in the *AWS Database Migration Service User Guide*.

Type: String

Required: No

IncludeControlDetails

Shows detailed control information for table definition, column definition, and table and column changes in the Kafka message output. The default is `false`.

Type: Boolean

Required: No

IncludeNullAndEmpty

Include NULL and empty columns for records migrated to the endpoint. The default is `false`.

Type: Boolean

Required: No

IncludePartitionValue

Shows the partition value within the Kafka message output unless the partition type is `schema-table-type`. The default is `false`.

Type: Boolean

Required: No

IncludeTableAlterOperations

Includes any data definition language (DDL) operations that change the table in the control data, such as `rename-table`, `drop-table`, `add-column`, `drop-column`, and `rename-column`. The default is `false`.

Type: Boolean

Required: No

IncludeTransactionDetails

Provides detailed transaction information from the source database. This information includes a commit timestamp, a log position, and values for `transaction_id`, previous `transaction_id`, and `transaction_record_id` (the record offset within a transaction). The default is `false`.

Type: Boolean

Required: No

MessageFormat

The output format for the records created on the endpoint. The message format is `JSON` (default) or `JSON_UNFORMATTED` (a single line with no tab).

Type: String

Valid Values: `json | json-unformatted`

Required: No

MessageMaxBytes

The maximum size in bytes for records created on the endpoint The default is 1,000,000.

Type: Integer

Required: No

NoHexPrefix

Set this optional parameter to `true` to avoid adding a '0x' prefix to raw data in hexadecimal format. For example, by default, AWS DMS adds a '0x' prefix to the LOB column type in hexadecimal format moving from an Oracle source to a Kafka target. Use the `NoHexPrefix` endpoint setting to enable migration of RAW data type columns without adding the '0x' prefix.

Type: Boolean

Required: No

PartitionIncludeSchemaTable

Prefixes schema and table names to partition values, when the partition type is `primary-key-type`. Doing this increases data distribution among Kafka partitions. For example, suppose that a SysBench schema has thousands of tables and each table has only limited range for a primary key. In this case, the same primary key is sent from thousands of tables to the same partition, which causes throttling. The default is `false`.

Type: Boolean

Required: No

SaslMechanism

For SASL/SSL authentication, AWS DMS supports the `SCRAM-SHA-512` mechanism by default. AWS DMS versions 3.5.0 and later also support the `PLAIN` mechanism. To use the `PLAIN` mechanism, set this parameter to `PLAIN`.

Type: String

Valid Values: `scram-sha-512 | plain`

Required: No

SaslPassword

The secure password you created when you first set up your MSK cluster to validate a client identity and make an encrypted connection between server and client using SASL-SSL authentication.

Type: String

Required: No

SaslUsername

The secure user name you created when you first set up your MSK cluster to validate a client identity and make an encrypted connection between server and client using SASL-SSL authentication.

Type: String

Required: No

SecurityProtocol

Set secure connection to a Kafka target endpoint using Transport Layer Security (TLS). Options include `ssl-encryption`, `ssl-authentication`, and `sasl-ssl`. `sasl-ssl` requires `SaslUsername` and `SaslPassword`.

Type: String

Valid Values: `plaintext | ssl-authentication | ssl-encryption | sasl-ssl`

Required: No

SslCaCertificateArn

The Amazon Resource Name (ARN) for the private certificate authority (CA) cert that AWS DMS uses to securely connect to your Kafka target endpoint.

Type: String

Required: No

SslClientCertificateArn

The Amazon Resource Name (ARN) of the client certificate used to securely connect to a Kafka target endpoint.

Type: String

Required: No

SslClientKeyArn

The Amazon Resource Name (ARN) for the client private key used to securely connect to a Kafka target endpoint.

Type: String

Required: No

SslClientKeyPassword

The password for the client private key used to securely connect to a Kafka target endpoint.

Type: String

Required: No

SslEndpointIdentificationAlgorithm

Sets hostname verification for the certificate. This setting is supported in AWS DMS version 3.5.1 and later.

Type: String

Valid Values: `none | https`

Required: No

Topic

The topic to which you migrate the data. If you don't specify a topic, AWS DMS specifies `"kafka-default-topic"` as the migration topic.

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 Java V2
- AWS SDK for Ruby V3

KinesisSettings

Provides information that describes an Amazon Kinesis Data Stream endpoint. This information includes the output format of records applied to the endpoint and details of transaction and control table data information.

Contents

IncludeControlDetails

Shows detailed control information for table definition, column definition, and table and column changes in the Kinesis message output. The default is `false`.

Type: Boolean

Required: No

IncludeNullAndEmpty

Include NULL and empty columns for records migrated to the endpoint. The default is `false`.

Type: Boolean

Required: No

IncludePartitionValue

Shows the partition value within the Kinesis message output, unless the partition type is `schema-table-type`. The default is `false`.

Type: Boolean

Required: No

IncludeTableAlterOperations

Includes any data definition language (DDL) operations that change the table in the control data, such as `rename-table`, `drop-table`, `add-column`, `drop-column`, and `rename-column`. The default is `false`.

Type: Boolean

Required: No

IncludeTransactionDetails

Provides detailed transaction information from the source database. This information includes a commit timestamp, a log position, and values for `transaction_id`, previous `transaction_id`, and `transaction_record_id` (the record offset within a transaction). The default is `false`.

Type: Boolean

Required: No

MessageFormat

The output format for the records created on the endpoint. The message format is `JSON` (default) or `JSON_UNFORMATTED` (a single line with no tab).

Type: String

Valid Values: `json | json-unformatted`

Required: No

NoHexPrefix

Set this optional parameter to `true` to avoid adding a '0x' prefix to raw data in hexadecimal format. For example, by default, AWS DMS adds a '0x' prefix to the LOB column type in hexadecimal format moving from an Oracle source to an Amazon Kinesis target. Use the `NoHexPrefix` endpoint setting to enable migration of RAW data type columns without adding the '0x' prefix.

Type: Boolean

Required: No

PartitionIncludeSchemaTable

Prefixes schema and table names to partition values, when the partition type is `primary-key-type`. Doing this increases data distribution among Kinesis shards. For example, suppose that a SysBench schema has thousands of tables and each table has only limited range for a primary key. In this case, the same primary key is sent from thousands of tables to the same shard, which causes throttling. The default is `false`.

Type: Boolean

Required: No

ServiceAccessRoleArn

The Amazon Resource Name (ARN) for the IAM role that AWS DMS uses to write to the Kinesis data stream. The role must allow the `iam:PassRole` action.

Type: String

Required: No

StreamArn

The Amazon Resource Name (ARN) for the Amazon Kinesis Data Streams 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 Java V2
- AWS SDK for Ruby V3

Limitation

Provides information about the limitations of target AWS engines.

Your source database might include features that the target AWS engine doesn't support. Fleet Advisor lists these features as limitations. You should consider these limitations during database migration. For each limitation, Fleet Advisor recommends an action that you can take to address or avoid this limitation.

Contents

DatabaseId

The identifier of the source database.

Type: String

Required: No

Description

A description of the limitation. Provides additional information about the limitation, and includes recommended actions that you can take to address or avoid this limitation.

Type: String

Required: No

EngineName

The name of the target engine that Fleet Advisor should use in the target engine recommendation. Valid values include `"rds-aurora-mysql"`, `"rds-aurora-postgresql"`, `"rds-mysql"`, `"rds-oracle"`, `"rds-sql-server"`, and `"rds-postgresql"`.

Type: String

Required: No

Impact

The impact of the limitation. You can use this parameter to prioritize limitations that you want to address. Valid values include `"Blocker"`, `"High"`, `"Medium"`, and `"Low"`.

Type: String

Required: No

Name

The name of the limitation. Describes unsupported database features, migration action items, and other limitations.

Type: String

Required: No

Type

The type of the limitation, such as action required, upgrade required, and limited feature.

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 Java V2
- AWS SDK for Ruby V3

MariaDbDataProviderSettings

Provides information that defines a MariaDB data provider.

Contents

CertificateArn

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

Type: String

Required: No

Port

The port value for the MariaDB data provider

Type: Integer

Required: No

ServerName

The name of the MariaDB server.

Type: String

Required: No

SslMode

The SSL mode used to connect to the MariaDB data provider. The default value is none.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MicrosoftSqlServerDataProviderSettings

Provides information that defines a Microsoft SQL Server data provider.

Contents

CertificateArn

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

Type: String

Required: No

DatabaseName

The database name on the Microsoft SQL Server data provider.

Type: String

Required: No

Port

The port value for the Microsoft SQL Server data provider.

Type: Integer

Required: No

ServerName

The name of the Microsoft SQL Server server.

Type: String

Required: No

SslMode

The SSL mode used to connect to the Microsoft SQL Server data provider. The default value is none.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MicrosoftSQLServerSettings

Provides information that defines a Microsoft SQL Server endpoint.

Contents

BcpPacketSize

The maximum size of the packets (in bytes) used to transfer data using BCP.

Type: Integer

Required: No

ControlTablesFileGroup

Specifies a file group for the AWS DMS internal tables. When the replication task starts, all the internal AWS DMS control tables (awsdms_ apply_exception, awsdms_apply, awsdms_changes) are created for the specified file group.

Type: String

Required: No

DatabaseName

Database name for the endpoint.

Type: String

Required: No

ForceLobLookup

Forces LOB lookup on inline LOB.

Type: Boolean

Required: No

Password

Endpoint connection password.

Type: String

Required: No

Port

Endpoint TCP port.

Type: Integer

Required: No

QuerySingleAlwaysOnNode

Cleans and recreates table metadata information on the replication instance when a mismatch occurs. An example is a situation where running an alter DDL statement on a table might result in different information about the table cached in the replication instance.

Type: Boolean

Required: No

ReadBackupOnly

When this attribute is set to Y, AWS DMS only reads changes from transaction log backups and doesn't read from the active transaction log file during ongoing replication. Setting this parameter to Y enables you to control active transaction log file growth during full load and ongoing replication tasks. However, it can add some source latency to ongoing replication.

Type: Boolean

Required: No

SafeguardPolicy

Use this attribute to minimize the need to access the backup log and enable AWS DMS to prevent truncation using one of the following two methods.

Start transactions in the database: This is the default method. When this method is used, AWS DMS prevents TLOG truncation by mimicking a transaction in the database. As long as such a transaction is open, changes that appear after the transaction started aren't truncated. If you need Microsoft Replication to be enabled in your database, then you must choose this method.

Exclusively use sp_repldone within a single task: When this method is used, AWS DMS reads the changes and then uses sp_repldone to mark the TLOG transactions as ready for truncation. Although this method doesn't involve any transactional activities, it can only be used when

Microsoft Replication isn't running. Also, when using this method, only one AWS DMS task can access the database at any given time. Therefore, if you need to run parallel AWS DMS tasks against the same database, use the default method.

Type: String

Valid Values: `rely-on-sql-server-replication-agent | exclusive-automatic-truncation | shared-automatic-truncation`

Required: No

SecretsManagerAccessRoleArn

The full Amazon Resource Name (ARN) of the IAM role that specifies AWS DMS as the trusted entity and grants the required permissions to access the value in `SecretsManagerSecret`. The role must allow the `iam:PassRole` action. `SecretsManagerSecret` has the value of the AWS Secrets Manager secret that allows access to the SQL Server endpoint.

> **Note**
>
> You can specify one of two sets of values for these permissions. You can specify the values for this setting and `SecretsManagerSecretId`. Or you can specify clear-text values for `UserName`, `Password`, `ServerName`, and `Port`. You can't specify both. For more information on creating this `SecretsManagerSecret` and the `SecretsManagerAccessRoleArn` and `SecretsManagerSecretId` required to access it, see Using secrets to access AWS Database Migration Service resources in the *AWS Database Migration Service User Guide*.

Type: String

Required: No

SecretsManagerSecretId

The full ARN, partial ARN, or friendly name of the `SecretsManagerSecret` that contains the SQL Server endpoint connection details.

Type: String

Required: No

ServerName

Fully qualified domain name of the endpoint. For an Amazon RDS SQL Server instance, this is the output of DescribeDBInstances, in the `Endpoint.Address` field.

Type: String

Required: No

TlogAccessMode

Indicates the mode used to fetch CDC data.

Type: String

Valid Values: `BackupOnly | PreferBackup | PreferTlog | TlogOnly`

Required: No

TrimSpaceInChar

Use the `TrimSpaceInChar` source endpoint setting to right-trim data on CHAR and NCHAR data types during migration. Setting `TrimSpaceInChar` does not left-trim data. The default value is `true`.

Type: Boolean

Required: No

UseBcpFullLoad

Use this to attribute to transfer data for full-load operations using BCP. When the target table contains an identity column that does not exist in the source table, you must disable the use BCP for loading table option.

Type: Boolean

Required: No

Username

Endpoint connection user name.

Type: String

Required: No

UseThirdPartyBackupDevice

When this attribute is set to Y, DMS processes third-party transaction log backups if they are created in native format.

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 Java V2
- AWS SDK for Ruby V3

MigrationProject

Provides information that defines a migration project.

Contents

Description

A user-friendly description of the migration project.

Type: String

Required: No

InstanceProfileArn

The Amazon Resource Name (ARN) of the instance profile for your migration project.

Type: String

Required: No

InstanceProfileName

The name of the associated instance profile.

Type: String

Required: No

MigrationProjectArn

The ARN string that uniquely identifies the migration project.

Type: String

Required: No

MigrationProjectCreationTime

The time when the migration project was created.

Type: Timestamp

Required: No

MigrationProjectName

The name of the migration project.

Type: String

Required: No

SchemaConversionApplicationAttributes

The schema conversion application attributes, including the Amazon S3 bucket name and Amazon S3 role ARN.

Type: SCApplicationAttributes object

Required: No

SourceDataProviderDescriptors

Information about the source data provider, including the name or ARN, and AWS Secrets Manager parameters.

Type: Array of DataProviderDescriptor objects

Required: No

TargetDataProviderDescriptors

Information about the target data provider, including the name or ARN, and AWS Secrets Manager parameters.

Type: Array of DataProviderDescriptor objects

Required: No

TransformationRules

The settings in JSON format for migration rules. Migration rules make it possible for you to change the object names according to the rules that you specify. For example, you can change an object name to lowercase or uppercase, add or remove a prefix or suffix, or rename objects.

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 Java V2
- AWS SDK for Ruby V3

MongoDbDataProviderSettings

Provides information that defines a MongoDB data provider.

Contents

AuthMechanism

The authentication method for connecting to the data provider. Valid values are DEFAULT, MONGODB_CR, or SCRAM_SHA_1.

Type: String

Valid Values: `default | mongodb_cr | scram_sha_1`

Required: No

AuthSource

The MongoDB database name. This setting isn't used when `AuthType` is set to `"no"`.

The default is `"admin"`.

Type: String

Required: No

AuthType

The authentication type for the database connection. Valid values are PASSWORD or NO.

Type: String

Valid Values: `no | password`

Required: No

CertificateArn

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

Type: String

Required: No

DatabaseName

The database name on the MongoDB data provider.

Type: String

Required: No

Port

The port value for the MongoDB data provider.

Type: Integer

Required: No

ServerName

The name of the MongoDB server.

Type: String

Required: No

SslMode

The SSL mode used to connect to the MongoDB data provider. The default value is none.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MongoDbSettings

Provides information that defines a MongoDB endpoint.

Contents

AuthMechanism

The authentication mechanism you use to access the MongoDB source endpoint.

For the default value, in MongoDB version 2.x, `"default"` is `"mongodb_cr"`. For MongoDB version 3.x or later, `"default"` is `"scram_sha_1"`. This setting isn't used when `AuthType` is set to `"no"`.

Type: String

Valid Values: `default | mongodb_cr | scram_sha_1`

Required: No

AuthSource

The MongoDB database name. This setting isn't used when `AuthType` is set to `"no"`.

The default is `"admin"`.

Type: String

Required: No

AuthType

The authentication type you use to access the MongoDB source endpoint.

When when set to `"no"`, user name and password parameters are not used and can be empty.

Type: String

Valid Values: `no | password`

Required: No

DatabaseName

The database name on the MongoDB source endpoint.

Type: String

Required: No

DocsToInvestigate

Indicates the number of documents to preview to determine the document organization. Use this setting when `NestingLevel` is set to `"one"`.

Must be a positive value greater than `0`. Default value is `1000`.

Type: String

Required: No

ExtractDocId

Specifies the document ID. Use this setting when `NestingLevel` is set to `"none"`.

Default value is `"false"`.

Type: String

Required: No

KmsKeyId

The AWS KMS key identifier that is used to encrypt the content on the replication instance. If you don't specify a value for the `KmsKeyId` parameter, then AWS DMS uses 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

NestingLevel

Specifies either document or table mode.

Default value is `"none"`. Specify `"none"` to use document mode. Specify `"one"` to use table mode.

Type: String

Valid Values: none | one

Required: No

Password

The password for the user account you use to access the MongoDB source endpoint.

Type: String

Required: No

Port

The port value for the MongoDB source endpoint.

Type: Integer

Required: No

ReplicateShardCollections

If `true`, AWS DMS replicates data to shard collections. AWS DMS only uses this setting if the target endpoint is a DocumentDB elastic cluster.

When this setting is `true`, note the following:

- You must set `TargetTablePrepMode` to `nothing`.
- AWS DMS automatically sets `useUpdateLookup` to `false`.

Type: Boolean

Required: No

SecretsManagerAccessRoleArn

The full Amazon Resource Name (ARN) of the IAM role that specifies AWS DMS as the trusted entity and grants the required permissions to access the value in `SecretsManagerSecret`. The role must allow the `iam:PassRole` action. `SecretsManagerSecret` has the value of the AWS Secrets Manager secret that allows access to the MongoDB endpoint.

> **Note**
>
> You can specify one of two sets of values for these permissions. You can specify the values for this setting and `SecretsManagerSecretId`. Or you can specify clear-text values for `UserName`, `Password`, `ServerName`, and `Port`. You can't specify both. For more information on creating this `SecretsManagerSecret` and the

`SecretsManagerAccessRoleArn` and `SecretsManagerSecretId` required to access it, see Using secrets to access AWS Database Migration Service resources in the *AWS Database Migration Service User Guide*.

Type: String

Required: No

SecretsManagerSecretId

The full ARN, partial ARN, or friendly name of the `SecretsManagerSecret` that contains the MongoDB endpoint connection details.

Type: String

Required: No

ServerName

The name of the server on the MongoDB source endpoint. For MongoDB Atlas, provide the server name for any of the servers in the replication set.

Type: String

Required: No

Username

The user name you use to access the MongoDB source endpoint.

Type: String

Required: No

UseUpdateLookUp

If `true`, AWS DMS retrieves the entire document from the MongoDB source during migration. This may cause a migration failure if the server response exceeds bandwidth limits. To fetch only updates and deletes during migration, set this parameter to `false`.

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 Java V2
- AWS SDK for Ruby V3

MySqlDataProviderSettings

Provides information that defines a MySQL data provider.

Contents

CertificateArn

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

Type: String

Required: No

Port

The port value for the MySQL data provider.

Type: Integer

Required: No

ServerName

The name of the MySQL server.

Type: String

Required: No

SslMode

The SSL mode used to connect to the MySQL data provider. The default value is none.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MySQLSettings

Provides information that defines a MySQL endpoint.

Contents

AfterConnectScript

Specifies a script to run immediately after AWS DMS connects to the endpoint. The migration task continues running regardless if the SQL statement succeeds or fails.

For this parameter, provide the code of the script itself, not the name of a file containing the script.

Type: String

Required: No

CleanSourceMetadataOnMismatch

Cleans and recreates table metadata information on the replication instance when a mismatch occurs. For example, in a situation where running an alter DDL on the table could result in different information about the table cached in the replication instance.

Type: Boolean

Required: No

DatabaseName

Database name for the endpoint. For a MySQL source or target endpoint, don't explicitly specify the database using the `DatabaseName` request parameter on either the `CreateEndpoint` or `ModifyEndpoint` API call. Specifying `DatabaseName` when you create or modify a MySQL endpoint replicates all the task tables to this single database. For MySQL endpoints, you specify the database only when you specify the schema in the table-mapping rules of the AWS DMS task.

Type: String

Required: No

EventsPollInterval

Specifies how often to check the binary log for new changes/events when the database is idle. The default is five seconds.

Example: `eventsPollInterval=5;`

In the example, AWS DMS checks for changes in the binary logs every five seconds.

Type: Integer

Required: No

ExecuteTimeout

Sets the client statement timeout (in seconds) for a MySQL source endpoint.

Type: Integer

Required: No

MaxFileSize

Specifies the maximum size (in KB) of any .csv file used to transfer data to a MySQL-compatible database.

Example: `maxFileSize=512`

Type: Integer

Required: No

ParallelLoadThreads

Improves performance when loading data into the MySQL-compatible target database. Specifies how many threads to use to load the data into the MySQL-compatible target database. Setting a large number of threads can have an adverse effect on database performance, because a separate connection is required for each thread. The default is one.

Example: `parallelLoadThreads=1`

Type: Integer

Required: No

Password

Endpoint connection password.

Type: String

Required: No

Port

Endpoint TCP port.

Type: Integer

Required: No

SecretsManagerAccessRoleArn

The full Amazon Resource Name (ARN) of the IAM role that specifies AWS DMS as the trusted entity and grants the required permissions to access the value in `SecretsManagerSecret`. The role must allow the `iam:PassRole` action. `SecretsManagerSecret` has the value of the AWS Secrets Manager secret that allows access to the MySQL endpoint.

> **Note**
>
> You can specify one of two sets of values for these permissions. You can specify the values for this setting and `SecretsManagerSecretId`. Or you can specify clear-text values for `UserName`, `Password`, `ServerName`, and `Port`. You can't specify both. For more information on creating this `SecretsManagerSecret` and the `SecretsManagerAccessRoleArn` and `SecretsManagerSecretId` required to access it, see Using secrets to access AWS Database Migration Service resources in the *AWS Database Migration Service User Guide*.

Type: String

Required: No

SecretsManagerSecretId

The full ARN, partial ARN, or friendly name of the `SecretsManagerSecret` that contains the MySQL endpoint connection details.

Type: String

Required: No

ServerName

The host name of the endpoint database.

For an Amazon RDS MySQL instance, this is the output of DescribeDBInstances, in the `Endpoint.Address` field.

For an Aurora MySQL instance, this is the output of DescribeDBClusters, in the `Endpoint` field.

Type: String

Required: No

ServerTimezone

Specifies the time zone for the source MySQL database.

Example: `serverTimezone=US/Pacific;`

Note: Do not enclose time zones in single quotes.

Type: String

Required: No

TargetDbType

Specifies where to migrate source tables on the target, either to a single database or multiple databases. If you specify `SPECIFIC_DATABASE`, specify the database name using the `DatabaseName` parameter of the `Endpoint` object.

Example: `targetDbType=MULTIPLE_DATABASES`

Type: String

Valid Values: `specific-database | multiple-databases`

Required: No

Username

Endpoint connection user name.

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 Java V2
- AWS SDK for Ruby V3

NeptuneSettings

Provides information that defines an Amazon Neptune endpoint.

Contents

S3BucketFolder

A folder path where you want AWS DMS to store migrated graph data in the S3 bucket specified by `S3BucketName`

Type: String

Required: Yes

S3BucketName

The name of the Amazon S3 bucket where AWS DMS can temporarily store migrated graph data in .csv files before bulk-loading it to the Neptune target database. AWS DMS maps the SQL source data to graph data before storing it in these .csv files.

Type: String

Required: Yes

ErrorRetryDuration

The number of milliseconds for AWS DMS to wait to retry a bulk-load of migrated graph data to the Neptune target database before raising an error. The default is 250.

Type: Integer

Required: No

IamAuthEnabled

If you want AWS Identity and Access Management (IAM) authorization enabled for this endpoint, set this parameter to `true`. Then attach the appropriate IAM policy document to your service role specified by `ServiceAccessRoleArn`. The default is `false`.

Type: Boolean

Required: No

MaxFileSize

The maximum size in kilobytes of migrated graph data stored in a .csv file before AWS DMS bulk-loads the data to the Neptune target database. The default is 1,048,576 KB. If the bulk load is successful, AWS DMS clears the bucket, ready to store the next batch of migrated graph data.

Type: Integer

Required: No

MaxRetryCount

The number of times for AWS DMS to retry a bulk load of migrated graph data to the Neptune target database before raising an error. The default is 5.

Type: Integer

Required: No

ServiceAccessRoleArn

The Amazon Resource Name (ARN) of the service role that you created for the Neptune target endpoint. The role must allow the `iam:PassRole` action. For more information, see Creating an IAM Service Role for Accessing Amazon Neptune as a Target in the *AWS Database Migration Service User Guide.*

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 Java V2
- AWS SDK for Ruby V3

OracleDataProviderSettings

Provides information that defines an Oracle data provider.

Contents

AsmServer

The address of your Oracle Automatic Storage Management (ASM) server. You can set this value from the `asm_server` value. You set `asm_server` as part of the extra connection attribute string to access an Oracle server with Binary Reader that uses ASM. For more information, see Configuration for change data capture (CDC) on an Oracle source database.

Type: String

Required: No

CertificateArn

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

Type: String

Required: No

DatabaseName

The database name on the Oracle data provider.

Type: String

Required: No

Port

The port value for the Oracle data provider.

Type: Integer

Required: No

SecretsManagerOracleAsmAccessRoleArn

The ARN of the IAM role that provides access to the secret in AWS Secrets Manager that contains the Oracle ASM connection details.

Type: String

Required: No

SecretsManagerOracleAsmSecretId

The identifier of the secret in AWS Secrets Manager that contains the Oracle ASM connection details.

Required only if your data provider uses the Oracle ASM server.

Type: String

Required: No

SecretsManagerSecurityDbEncryptionAccessRoleArn

The ARN of the IAM role that provides access to the secret in AWS Secrets Manager that contains the TDE password.

Type: String

Required: No

SecretsManagerSecurityDbEncryptionSecretId

The identifier of the secret in AWS Secrets Manager that contains the transparent data encryption (TDE) password. AWS DMS requires this password to access Oracle redo logs encrypted by TDE using Binary Reader.

Type: String

Required: No

ServerName

The name of the Oracle server.

Type: String

Required: No

SslMode

The SSL mode used to connect to the Oracle data provider. The default value is none.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OracleSettings

Provides information that defines an Oracle endpoint.

Contents

AccessAlternateDirectly

Set this attribute to `false` in order to use the Binary Reader to capture change data for an Amazon RDS for Oracle as the source. This tells the DMS instance to not access redo logs through any specified path prefix replacement using direct file access.

Type: Boolean

Required: No

AdditionalArchivedLogDestId

Set this attribute with `ArchivedLogDestId` in a primary/ standby setup. This attribute is useful in the case of a switchover. In this case, AWS DMS needs to know which destination to get archive redo logs from to read changes. This need arises because the previous primary instance is now a standby instance after switchover.

Although AWS DMS supports the use of the Oracle `RESETLOGS` option to open the database, never use `RESETLOGS` unless necessary. For additional information about `RESETLOGS`, see RMAN Data Repair Concepts in the *Oracle Database Backup and Recovery User's Guide*.

Type: Integer

Required: No

AddSupplementalLogging

Set this attribute to set up table-level supplemental logging for the Oracle database. This attribute enables PRIMARY KEY supplemental logging on all tables selected for a migration task.

If you use this option, you still need to enable database-level supplemental logging.

Type: Boolean

Required: No

AllowSelectNestedTables

Set this attribute to `true` to enable replication of Oracle tables containing columns that are nested tables or defined types.

Type: Boolean

Required: No

ArchivedLogDestId

Specifies the ID of the destination for the archived redo logs. This value should be the same as a number in the dest_id column of the v$archived_log view. If you work with an additional redo log destination, use the `AdditionalArchivedLogDestId` option to specify the additional destination ID. Doing this improves performance by ensuring that the correct logs are accessed from the outset.

Type: Integer

Required: No

ArchivedLogsOnly

When this field is set to `True`, AWS DMS only accesses the archived redo logs. If the archived redo logs are stored on Automatic Storage Management (ASM) only, the AWS DMS user account needs to be granted ASM privileges.

Type: Boolean

Required: No

AsmPassword

For an Oracle source endpoint, your Oracle Automatic Storage Management (ASM) password. You can set this value from the *`asm_user_password`* value. You set this value as part of the comma-separated value that you set to the `Password` request parameter when you create the endpoint to access transaction logs using Binary Reader. For more information, see Configuration for change data capture (CDC) on an Oracle source database.

Type: String

Required: No

AsmServer

For an Oracle source endpoint, your ASM server address. You can set this value from the `asm_server` value. You set `asm_server` as part of the extra connection attribute string to access an Oracle server with Binary Reader that uses ASM. For more information, see Configuration for change data capture (CDC) on an Oracle source database.

Type: String

Required: No

AsmUser

For an Oracle source endpoint, your ASM user name. You can set this value from the `asm_user` value. You set `asm_user` as part of the extra connection attribute string to access an Oracle server with Binary Reader that uses ASM. For more information, see Configuration for change data capture (CDC) on an Oracle source database.

Type: String

Required: No

CharLengthSemantics

Specifies whether the length of a character column is in bytes or in characters. To indicate that the character column length is in characters, set this attribute to `CHAR`. Otherwise, the character column length is in bytes.

Example: `charLengthSemantics=CHAR;`

Type: String

Valid Values: `default | char | byte`

Required: No

ConvertTimestampWithZoneToUTC

When true, converts timestamps with the `timezone` datatype to their UTC value.

Type: Boolean

Required: No

DatabaseName

Database name for the endpoint.

Type: String

Required: No

DirectPathNoLog

When set to `true`, this attribute helps to increase the commit rate on the Oracle target database by writing directly to tables and not writing a trail to database logs.

Type: Boolean

Required: No

DirectPathParallelLoad

When set to `true`, this attribute specifies a parallel load when `useDirectPathFullLoad` is set to `Y`. This attribute also only applies when you use the AWS DMS parallel load feature. Note that the target table cannot have any constraints or indexes.

Type: Boolean

Required: No

EnableHomogenousTablespace

Set this attribute to enable homogenous tablespace replication and create existing tables or indexes under the same tablespace on the target.

Type: Boolean

Required: No

ExtraArchivedLogDestIds

Specifies the IDs of one more destinations for one or more archived redo logs. These IDs are the values of the `dest_id` column in the `v$archived_log` view. Use this setting with the `archivedLogDestId` extra connection attribute in a primary-to-single setup or a primary-to-multiple-standby setup.

This setting is useful in a switchover when you use an Oracle Data Guard database as a source. In this case, AWS DMS needs information about what destination to get archive redo logs from

to read changes. AWS DMS needs this because after the switchover the previous primary is a standby instance. For example, in a primary-to-single standby setup you might apply the following settings.

`archivedLogDestId=1; ExtraArchivedLogDestIds=[2]`

In a primary-to-multiple-standby setup, you might apply the following settings.

`archivedLogDestId=1; ExtraArchivedLogDestIds=[2,3,4]`

Although AWS DMS supports the use of the Oracle `RESETLOGS` option to open the database, never use `RESETLOGS` unless it's necessary. For more information about `RESETLOGS`, see RMAN Data Repair Concepts in the *Oracle Database Backup and Recovery User's Guide*.

Type: Array of integers

Required: No

FailTasksOnLobTruncation

When set to `true`, this attribute causes a task to fail if the actual size of an LOB column is greater than the specified `LobMaxSize`.

If a task is set to limited LOB mode and this option is set to `true`, the task fails instead of truncating the LOB data.

Type: Boolean

Required: No

NumberDatatypeScale

Specifies the number scale. You can select a scale up to 38, or you can select FLOAT. By default, the NUMBER data type is converted to precision 38, scale 10.

Example: `numberDataTypeScale=12`

Type: Integer

Required: No

OpenTransactionWindow

The timeframe in minutes to check for open transactions for a CDC-only task.

You can specify an integer value between 0 (the default) and 240 (the maximum).

> **Note**
>
> This parameter is only valid in AWS DMS version 3.5.0 and later.

Type: Integer

Required: No

OraclePathPrefix

Set this string attribute to the required value in order to use the Binary Reader to capture change data for an Amazon RDS for Oracle as the source. This value specifies the default Oracle root used to access the redo logs.

Type: String

Required: No

ParallelAsmReadThreads

Set this attribute to change the number of threads that DMS configures to perform a change data capture (CDC) load using Oracle Automatic Storage Management (ASM). You can specify an integer value between 2 (the default) and 8 (the maximum). Use this attribute together with the `readAheadBlocks` attribute.

Type: Integer

Required: No

Password

Endpoint connection password.

Type: String

Required: No

Port

Endpoint TCP port.

Type: Integer

Required: No

ReadAheadBlocks

Set this attribute to change the number of read-ahead blocks that DMS configures to perform a change data capture (CDC) load using Oracle Automatic Storage Management (ASM). You can specify an integer value between 1000 (the default) and 200,000 (the maximum).

Type: Integer

Required: No

ReadTableSpaceName

When set to `true`, this attribute supports tablespace replication.

Type: Boolean

Required: No

ReplacePathPrefix

Set this attribute to true in order to use the Binary Reader to capture change data for an Amazon RDS for Oracle as the source. This setting tells DMS instance to replace the default Oracle root with the specified `usePathPrefix` setting to access the redo logs.

Type: Boolean

Required: No

RetryInterval

Specifies the number of seconds that the system waits before resending a query.

Example: `retryInterval=6;`

Type: Integer

Required: No

SecretsManagerAccessRoleArn

The full Amazon Resource Name (ARN) of the IAM role that specifies AWS DMS as the trusted entity and grants the required permissions to access the value in `SecretsManagerSecret`.

The role must allow the `iam:PassRole` action. `SecretsManagerSecret` has the value of the AWS Secrets Manager secret that allows access to the Oracle endpoint.

> **Note**
>
> You can specify one of two sets of values for these permissions. You can specify the values for this setting and `SecretsManagerSecretId`. Or you can specify clear-text values for `UserName`, `Password`, `ServerName`, and `Port`. You can't specify both. For more information on creating this `SecretsManagerSecret` and the `SecretsManagerAccessRoleArn` and `SecretsManagerSecretId` required to access it, see Using secrets to access AWS Database Migration Service resources in the *AWS Database Migration Service User Guide*.

Type: String

Required: No

SecretsManagerOracleAsmAccessRoleArn

Required only if your Oracle endpoint uses Automatic Storage Management (ASM). The full ARN of the IAM role that specifies AWS DMS as the trusted entity and grants the required permissions to access the `SecretsManagerOracleAsmSecret`. This `SecretsManagerOracleAsmSecret` has the secret value that allows access to the Oracle ASM of the endpoint.

> **Note**
>
> You can specify one of two sets of values for these permissions. You can specify the values for this setting and `SecretsManagerOracleAsmSecretId`. Or you can specify clear-text values for `AsmUser`, `AsmPassword`, and `AsmServerName`. You can't specify both. For more information on creating this `SecretsManagerOracleAsmSecret` and the `SecretsManagerOracleAsmAccessRoleArn` and `SecretsManagerOracleAsmSecretId` required to access it, see Using secrets to access AWS Database Migration Service resources in the *AWS Database Migration Service User Guide*.

Type: String

Required: No

SecretsManagerOracleAsmSecretId

Required only if your Oracle endpoint uses Automatic Storage Management (ASM). The full ARN, partial ARN, or friendly name of the `SecretsManagerOracleAsmSecret` that contains the Oracle ASM connection details for the Oracle endpoint.

Type: String

Required: No

SecretsManagerSecretId

The full ARN, partial ARN, or friendly name of the `SecretsManagerSecret` that contains the Oracle endpoint connection details.

Type: String

Required: No

SecurityDbEncryption

For an Oracle source endpoint, the transparent data encryption (TDE) password required by AWM DMS to access Oracle redo logs encrypted by TDE using Binary Reader. It is also the *`TDE_Password`* part of the comma-separated value you set to the `Password` request parameter when you create the endpoint. The `SecurityDbEncryptian` setting is related to this `SecurityDbEncryptionName` setting. For more information, see Supported encryption methods for using Oracle as a source for AWS DMS in the *AWS Database Migration Service User Guide*.

Type: String

Required: No

SecurityDbEncryptionName

For an Oracle source endpoint, the name of a key used for the transparent data encryption (TDE) of the columns and tablespaces in an Oracle source database that is encrypted using TDE. The key value is the value of the `SecurityDbEncryption` setting. For more information on setting the key name value of `SecurityDbEncryptionName`, see the information and example for setting the `securityDbEncryptionName` extra connection attribute in Supported encryption methods for using Oracle as a source for AWS DMS in the *AWS Database Migration Service User Guide*.

Type: String

Required: No

ServerName

Fully qualified domain name of the endpoint.

For an Amazon RDS Oracle instance, this is the output of DescribeDBInstances, in the `Endpoint.Address` field.

Type: String

Required: No

SpatialDataOptionToGeoJsonFunctionName

Use this attribute to convert `SDO_GEOMETRY` to `GEOJSON` format. By default, DMS calls the `SDO2GEOJSON` custom function if present and accessible. Or you can create your own custom function that mimics the operation of `SDOGEOJSON` and set `SpatialDataOptionToGeoJsonFunctionName` to call it instead.

Type: String

Required: No

StandbyDelayTime

Use this attribute to specify a time in minutes for the delay in standby sync. If the source is an Oracle Active Data Guard standby database, use this attribute to specify the time lag between primary and standby databases.

In AWS DMS, you can create an Oracle CDC task that uses an Active Data Guard standby instance as a source for replicating ongoing changes. Doing this eliminates the need to connect to an active database that might be in production.

Type: Integer

Required: No

TrimSpaceInChar

Use the `TrimSpaceInChar` source endpoint setting to trim data on CHAR and NCHAR data types during migration. The default value is `true`.

Type: Boolean

Required: No

UseAlternateFolderForOnline

Set this attribute to `true` in order to use the Binary Reader to capture change data for an Amazon RDS for Oracle as the source. This tells the DMS instance to use any specified prefix replacement to access all online redo logs.

Type: Boolean

Required: No

UseBFile

Set this attribute to True to capture change data using the Binary Reader utility. Set `UseLogminerReader` to False to set this attribute to True. To use Binary Reader with Amazon RDS for Oracle as the source, you set additional attributes. For more information about using this setting with Oracle Automatic Storage Management (ASM), see Using Oracle LogMiner or AWS DMS Binary Reader for CDC.

Type: Boolean

Required: No

UseDirectPathFullLoad

Set this attribute to True to have AWS DMS use a direct path full load. Specify this value to use the direct path protocol in the Oracle Call Interface (OCI). By using this OCI protocol, you can bulk-load Oracle target tables during a full load.

Type: Boolean

Required: No

UseLogminerReader

Set this attribute to True to capture change data using the Oracle LogMiner utility (the default). Set this attribute to False if you want to access the redo logs as a binary file. When you set `UseLogminerReader` to False, also set `UseBfile` to True. For more information on this setting and using Oracle ASM, see Using Oracle LogMiner or AWS DMS Binary Reader for CDC in the *AWS DMS User Guide*.

Type: Boolean

Required: No

UsePathPrefix

Set this string attribute to the required value in order to use the Binary Reader to capture change data for an Amazon RDS for Oracle as the source. This value specifies the path prefix used to replace the default Oracle root to access the redo logs.

Type: String

Required: No

Username

Endpoint connection user name.

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 Java V2
- AWS SDK for Ruby V3

OrderableReplicationInstance

In response to the `DescribeOrderableReplicationInstances` operation, this object describes an available replication instance. This description includes the replication instance's type, engine version, and allocated storage.

Contents

AvailabilityZones

List of Availability Zones for this replication instance.

Type: Array of strings

Required: No

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

ReleaseStatus

The value returned when the specified `EngineVersion` of the replication instance is in Beta or test mode. This indicates some features might not work as expected.

> **Note**
>
> AWS DMS supports the `ReleaseStatus` parameter in versions 3.1.4 and later.

Type: String

Valid Values: `beta | prod`

Required: No

ReplicationInstanceClass

The compute and memory capacity of the replication instance as defined for the specified replication instance class. For example to specify the instance class dms.c4.large, set this parameter to `"dms.c4.large"`.

For more information on the settings and capacities for the available replication instance classes, see Selecting the right AWS DMS replication instance for your migration.

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 Java V2
- AWS SDK for Ruby V3

PendingMaintenanceAction

Describes a maintenance action pending for an AWS DMS resource, including when and how it will be applied. This data type is a response element to the `DescribePendingMaintenanceActions` operation.

Contents

Action

The type of pending maintenance action that is available for the resource.

Type: String

Required: No

AutoAppliedAfterDate

The date of the maintenance window when the action is to be applied. The maintenance action is applied to the resource during its first maintenance window after this date. If this date is specified, any `next-maintenance` opt-in requests are ignored.

Type: Timestamp

Required: No

CurrentApplyDate

The effective date when the pending maintenance action will be applied to the resource. This date takes into account opt-in requests received from the `ApplyPendingMaintenanceAction` API operation, and also the `AutoAppliedAfterDate` and `ForcedApplyDate` parameter values. This value is blank if an opt-in request has not been received and nothing has been specified for `AutoAppliedAfterDate` or `ForcedApplyDate`.

Type: Timestamp

Required: No

Description

A description providing more detail about the maintenance action.

Type: String

Required: No

ForcedApplyDate

The date when the maintenance action will be automatically applied. The maintenance action is applied to the resource on this date regardless of the maintenance window for the resource. If this date is specified, any `immediate` opt-in requests are ignored.

Type: Timestamp

Required: No

OptInStatus

The type of opt-in request that has been received for the resource.

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 Java V2
- AWS SDK for Ruby V3

PostgreSqlDataProviderSettings

Provides information that defines a PostgreSQL data provider.

Contents

CertificateArn

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

Type: String

Required: No

DatabaseName

The database name on the PostgreSQL data provider.

Type: String

Required: No

Port

The port value for the PostgreSQL data provider.

Type: Integer

Required: No

ServerName

The name of the PostgreSQL server.

Type: String

Required: No

SslMode

The SSL mode used to connect to the PostgreSQL data provider. The default value is none.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PostgreSQLSettings

Provides information that defines a PostgreSQL endpoint.

Contents

AfterConnectScript

For use with change data capture (CDC) only, this attribute has AWS DMS bypass foreign keys and user triggers to reduce the time it takes to bulk load data.

Example: `afterConnectScript=SET session_replication_role='replica'`

Type: String

Required: No

BabelfishDatabaseName

The Babelfish for Aurora PostgreSQL database name for the endpoint.

Type: String

Required: No

CaptureDdls

To capture DDL events, AWS DMS creates various artifacts in the PostgreSQL database when the task starts. You can later remove these artifacts.

The default value is `true`.

If this value is set to `N`, you don't have to create tables or triggers on the source database.

Type: Boolean

Required: No

DatabaseMode

Specifies the default behavior of the replication's handling of PostgreSQL- compatible endpoints that require some additional configuration, such as Babelfish endpoints.

Type: String

Valid Values: `default | babelfish`

Required: No

DatabaseName

Database name for the endpoint.

Type: String

Required: No

DdlArtifactsSchema

The schema in which the operational DDL database artifacts are created.

The default value is `public`.

Example: `ddlArtifactsSchema=xyzddlschema;`

Type: String

Required: No

ExecuteTimeout

Sets the client statement timeout for the PostgreSQL instance, in seconds. The default value is 60 seconds.

Example: `executeTimeout=100;`

Type: Integer

Required: No

FailTasksOnLobTruncation

When set to `true`, this value causes a task to fail if the actual size of a LOB column is greater than the specified `LobMaxSize`.

The default value is `false`.

If task is set to Limited LOB mode and this option is set to true, the task fails instead of truncating the LOB data.

Type: Boolean

Required: No

HeartbeatEnable

The write-ahead log (WAL) heartbeat feature mimics a dummy transaction. By doing this, it prevents idle logical replication slots from holding onto old WAL logs, which can result in storage full situations on the source. This heartbeat keeps `restart_lsn` moving and prevents storage full scenarios.

The default value is `false`.

Type: Boolean

Required: No

HeartbeatFrequency

Sets the WAL heartbeat frequency (in minutes).

The default value is 5 minutes.

Type: Integer

Required: No

HeartbeatSchema

Sets the schema in which the heartbeat artifacts are created.

The default value is `public`.

Type: String

Required: No

MapBooleanAsBoolean

When true, lets PostgreSQL migrate the boolean type as boolean. By default, PostgreSQL migrates booleans as `varchar(5)`. You must set this setting on both the source and target endpoints for it to take effect.

The default value is `false`.

Type: Boolean

Required: No

MapJsonbAsClob

When true, AWS DMS migrates JSONB values as CLOB.

The default value is `false`.

Type: Boolean

Required: No

MapLongVarcharAs

Sets what datatype to map LONG values as.

The default value is `wstring`.

Type: String

Valid Values: `wstring | clob | nclob`

Required: No

MaxFileSize

Specifies the maximum size (in KB) of any .csv file used to transfer data to PostgreSQL.

The default value is 32,768 KB (32 MB).

Example: `maxFileSize=512`

Type: Integer

Required: No

Password

Endpoint connection password.

Type: String

Required: No

PluginName

Specifies the plugin to use to create a replication slot.

The default value is `pglogical`.

Type: String

Valid Values: `no-preference | test-decoding | pglogical`

Required: No

Port

Endpoint TCP port. The default is 5432.

Type: Integer

Required: No

SecretsManagerAccessRoleArn

The full Amazon Resource Name (ARN) of the IAM role that specifies AWS DMS as the trusted entity and grants the required permissions to access the value in `SecretsManagerSecret`. The role must allow the `iam:PassRole` action. `SecretsManagerSecret` has the value of the AWS Secrets Manager secret that allows access to the PostgreSQL endpoint.

> **Note**
>
> You can specify one of two sets of values for these permissions. You can specify the values for this setting and `SecretsManagerSecretId`. Or you can specify clear-text values for `UserName`, `Password`, `ServerName`, and `Port`. You can't specify both. For more information on creating this `SecretsManagerSecret` and the `SecretsManagerAccessRoleArn` and `SecretsManagerSecretId` required to access it, see Using secrets to access AWS Database Migration Service resources in the *AWS Database Migration Service User Guide*.

Type: String

Required: No

SecretsManagerSecretId

The full ARN, partial ARN, or friendly name of the `SecretsManagerSecret` that contains the PostgreSQL endpoint connection details.

Type: String

Required: No

ServerName

The host name of the endpoint database.

For an Amazon RDS PostgreSQL instance, this is the output of DescribeDBInstances, in the `Endpoint.Address` field.

For an Aurora PostgreSQL instance, this is the output of DescribeDBClusters, in the `Endpoint` field.

Type: String

Required: No

SlotName

Sets the name of a previously created logical replication slot for a change data capture (CDC) load of the PostgreSQL source instance.

When used with the `CdcStartPosition` request parameter for the AWS DMS API , this attribute also makes it possible to use native CDC start points. DMS verifies that the specified logical replication slot exists before starting the CDC load task. It also verifies that the task was created with a valid setting of `CdcStartPosition`. If the specified slot doesn't exist or the task doesn't have a valid `CdcStartPosition` setting, DMS raises an error.

For more information about setting the `CdcStartPosition` request parameter, see Determining a CDC native start point in the *AWS Database Migration Service User Guide*. For more information about using `CdcStartPosition`, see CreateReplicationTask, StartReplicationTask, and ModifyReplicationTask.

Type: String

Required: No

TrimSpaceInChar

Use the `TrimSpaceInChar` source endpoint setting to trim data on CHAR and NCHAR data types during migration. The default value is `true`.

Type: Boolean

Required: No

Username

Endpoint connection user name.

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 Java V2
- AWS SDK for Ruby V3

ProvisionData

Information about provisioning resources for an AWS DMS serverless replication.

Contents

DateNewProvisioningDataAvailable

The timestamp when provisioning became available.

Type: Timestamp

Required: No

DateProvisioned

The timestamp when AWS DMS provisioned replication resources.

Type: Timestamp

Required: No

IsNewProvisioningAvailable

Whether the new provisioning is available to the replication.

Type: Boolean

Required: No

ProvisionedCapacityUnits

The number of capacity units the replication is using.

Type: Integer

Required: No

ProvisionState

The current provisioning state

Type: String

Required: No

ReasonForNewProvisioningData

A message describing the reason that AWS DMS provisioned new resources for the serverless replication.

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 Java V2
- AWS SDK for Ruby V3

RdsConfiguration

Provides information that describes the configuration of the recommended target engine on Amazon RDS.

Contents

DeploymentOption

Describes the deployment option for the recommended Amazon RDS DB instance. The deployment options include Multi-AZ and Single-AZ deployments. Valid values include `"MULTI_AZ"` and `"SINGLE_AZ"`.

Type: String

Required: No

EngineEdition

Describes the recommended target Amazon RDS engine edition.

Type: String

Required: No

EngineVersion

Describes the recommended target Amazon RDS engine version.

Type: String

Required: No

InstanceMemory

Describes the memory on the recommended Amazon RDS DB instance that meets your requirements.

Type: Double

Required: No

InstanceType

Describes the recommended target Amazon RDS instance type.

Type: String

Required: No

InstanceVcpu

Describes the number of virtual CPUs (vCPU) on the recommended Amazon RDS DB instance that meets your requirements.

Type: Double

Required: No

StorageIops

Describes the number of I/O operations completed each second (IOPS) on the recommended Amazon RDS DB instance that meets your requirements.

Type: Integer

Required: No

StorageSize

Describes the storage size of the recommended Amazon RDS DB instance that meets your requirements.

Type: Integer

Required: No

StorageType

Describes the storage type of the recommended Amazon RDS DB instance that meets your requirements.

Amazon RDS provides three storage types: General Purpose SSD (also known as gp2 and gp3), Provisioned IOPS SSD (also known as io1), and magnetic (also known as standard).

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 Java V2
- AWS SDK for Ruby V3

RdsRecommendation

Provides information that describes a recommendation of a target engine on Amazon RDS.

Contents

RequirementsToTarget

Supplemental information about the requirements to the recommended target database on Amazon RDS.

Type: RdsRequirements object

Required: No

TargetConfiguration

Supplemental information about the configuration of the recommended target database on Amazon RDS.

Type: RdsConfiguration object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RdsRequirements

Provides information that describes the requirements to the target engine on Amazon RDS.

Contents

DeploymentOption

The required deployment option for the Amazon RDS DB instance. Valid values include `"MULTI_AZ"` for Multi-AZ deployments and `"SINGLE_AZ"` for Single-AZ deployments.

Type: String

Required: No

EngineEdition

The required target Amazon RDS engine edition.

Type: String

Required: No

EngineVersion

The required target Amazon RDS engine version.

Type: String

Required: No

InstanceMemory

The required memory on the Amazon RDS DB instance.

Type: Double

Required: No

InstanceVcpu

The required number of virtual CPUs (vCPU) on the Amazon RDS DB instance.

Type: Double

Required: No

StorageIops

The required number of I/O operations completed each second (IOPS) on your Amazon RDS DB instance.

Type: Integer

Required: No

StorageSize

The required Amazon RDS DB instance storage size.

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 Java V2
- AWS SDK for Ruby V3

Recommendation

Provides information that describes a recommendation of a target engine.

A *recommendation* is a set of possible AWS target engines that you can choose to migrate your source on-premises database. In this set, Fleet Advisor suggests a single target engine as the right sized migration destination. To determine this rightsized migration destination, Fleet Advisor uses the inventory metadata and metrics from data collector. You can use recommendations before the start of migration to save costs and reduce risks.

With recommendations, you can explore different target options and compare metrics, so you can make an informed decision when you choose the migration target.

Contents

CreatedDate

The date when Fleet Advisor created the target engine recommendation.

Type: String

Required: No

Data

The recommendation of a target engine for the specified source database.

Type: RecommendationData object

Required: No

DatabaseId

The identifier of the source database for which Fleet Advisor provided this recommendation.

Type: String

Required: No

EngineName

The name of the target engine. Valid values include `"rds-aurora-mysql"`, `"rds-aurora-postgresql"`, `"rds-mysql"`, `"rds-oracle"`, `"rds-sql-server"`, and `"rds-postgresql"`.

Type: String

Required: No

Preferred

Indicates that this target is the rightsized migration destination.

Type: Boolean

Required: No

Settings

The settings in JSON format for the preferred target engine parameters. These parameters include capacity, resource utilization, and the usage type (production, development, or testing).

Type: RecommendationSettings object

Required: No

Status

The status of the target engine recommendation. Valid values include `"alternate"`, `"in-progress"`, `"not-viable"`, and `"recommended"`.

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 Java V2
- AWS SDK for Ruby V3

RecommendationData

Provides information about the target engine for the specified source database.

Contents

RdsEngine

The recommendation of a target Amazon RDS database engine.

Type: RdsRecommendation object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RecommendationSettings

Provides information about the required target engine settings.

Contents

InstanceSizingType

The size of your target instance. Fleet Advisor calculates this value based on your data collection type, such as total capacity and resource utilization. Valid values include `"total-capacity"` and `"utilization"`.

Type: String

Required: Yes

WorkloadType

The deployment option for your target engine. For production databases, Fleet Advisor chooses Multi-AZ deployment. For development or test databases, Fleet Advisor chooses Single-AZ deployment. Valid values include `"development"` and `"production"`.

Type: String

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RedisSettings

Provides information that defines a Redis target endpoint.

Contents

Port

Transmission Control Protocol (TCP) port for the endpoint.

Type: Integer

Required: Yes

ServerName

Fully qualified domain name of the endpoint.

Type: String

Required: Yes

AuthPassword

The password provided with the `auth-role` and `auth-token` options of the `AuthType` setting for a Redis target endpoint.

Type: String

Required: No

AuthType

The type of authentication to perform when connecting to a Redis target. Options include none, `auth-token`, and `auth-role`. The `auth-token` option requires an `AuthPassword` value to be provided. The `auth-role` option requires `AuthUserName` and `AuthPassword` values to be provided.

Type: String

Valid Values: `none | auth-role | auth-token`

Required: No

AuthUserName

The user name provided with the `auth-role` option of the `AuthType` setting for a Redis target endpoint.

Type: String

Required: No

SslCaCertificateArn

The Amazon Resource Name (ARN) for the certificate authority (CA) that DMS uses to connect to your Redis target endpoint.

Type: String

Required: No

SslSecurityProtocol

The connection to a Redis target endpoint using Transport Layer Security (TLS). Valid values include `plaintext` and `ssl-encryption`. The default is `ssl-encryption`. The `ssl-encryption` option makes an encrypted connection. Optionally, you can identify an Amazon Resource Name (ARN) for an SSL certificate authority (CA) using the `SslCaCertificateArn` setting. If an ARN isn't given for a CA, DMS uses the Amazon root CA.

The `plaintext` option doesn't provide Transport Layer Security (TLS) encryption for traffic between endpoint and database.

Type: String

Valid Values: `plaintext | ssl-encryption`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

RedshiftDataProviderSettings

Provides information that defines an Amazon Redshift data provider.

Contents

DatabaseName

The database name on the Amazon Redshift data provider.

Type: String

Required: No

Port

The port value for the Amazon Redshift data provider.

Type: Integer

Required: No

ServerName

The name of the Amazon Redshift server.

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 Java V2
- AWS SDK for Ruby V3

RedshiftSettings

Provides information that defines an Amazon Redshift endpoint.

Contents

AcceptAnyDate

A value that indicates to allow any date format, including invalid formats such as 00/00/00 00:00:00, to be loaded without generating an error. You can choose `true` or `false` (the default).

This parameter applies only to TIMESTAMP and DATE columns. Always use ACCEPTANYDATE with the DATEFORMAT parameter. If the date format for the data doesn't match the DATEFORMAT specification, Amazon Redshift inserts a NULL value into that field.

Type: Boolean

Required: No

AfterConnectScript

Code to run after connecting. This parameter should contain the code itself, not the name of a file containing the code.

Type: String

Required: No

BucketFolder

An S3 folder where the comma-separated-value (.csv) files are stored before being uploaded to the target Redshift cluster.

For full load mode, AWS DMS converts source records into .csv files and loads them to the *BucketFolder/TableID* path. AWS DMS uses the Redshift COPY command to upload the .csv files to the target table. The files are deleted once the COPY operation has finished. For more information, see COPY in the *Amazon Redshift Database Developer Guide*.

For change-data-capture (CDC) mode, AWS DMS creates a *NetChanges* table, and loads the .csv files to this *BucketFolder/NetChangesTableID* path.

Type: String

Required: No

BucketName

The name of the intermediate S3 bucket used to store .csv files before uploading data to Redshift.

Type: String

Required: No

CaseSensitiveNames

If Amazon Redshift is configured to support case sensitive schema names, set `CaseSensitiveNames` to `true`. The default is `false`.

Type: Boolean

Required: No

CompUpdate

If you set `CompUpdate` to `true` Amazon Redshift applies automatic compression if the table is empty. This applies even if the table columns already have encodings other than `RAW`. If you set `CompUpdate` to `false`, automatic compression is disabled and existing column encodings aren't changed. The default is `true`.

Type: Boolean

Required: No

ConnectionTimeout

A value that sets the amount of time to wait (in milliseconds) before timing out, beginning from when you initially establish a connection.

Type: Integer

Required: No

DatabaseName

The name of the Amazon Redshift data warehouse (service) that you are working with.

Type: String

Required: No

DateFormat

The date format that you are using. Valid values are `auto` (case-sensitive), your date format string enclosed in quotes, or NULL. If this parameter is left unset (NULL), it defaults to a format of 'YYYY-MM-DD'. Using `auto` recognizes most strings, even some that aren't supported when you use a date format string.

If your date and time values use formats different from each other, set this to `auto`.

Type: String

Required: No

EmptyAsNull

A value that specifies whether AWS DMS should migrate empty CHAR and VARCHAR fields as NULL. A value of `true` sets empty CHAR and VARCHAR fields to null. The default is `false`.

Type: Boolean

Required: No

EncryptionMode

The type of server-side encryption that you want to use for your data. This encryption type is part of the endpoint settings or the extra connections attributes for Amazon S3. You can choose either `SSE_S3` (the default) or `SSE_KMS`.

> **Note**
>
> For the `ModifyEndpoint` operation, you can change the existing value of the `EncryptionMode` parameter from `SSE_KMS` to `SSE_S3`. But you can't change the existing value from `SSE_S3` to `SSE_KMS`.

To use `SSE_S3`, create an AWS Identity and Access Management (IAM) role with a policy that allows `"arn:aws:s3:::*"` to use the following actions: `"s3:PutObject"`, `"s3:ListBucket"`

Type: String

Valid Values: `sse-s3 | sse-kms`

Required: No

ExplicitIds

This setting is only valid for a full-load migration task. Set `ExplicitIds` to `true` to have tables with `IDENTITY` columns override their auto-generated values with explicit values loaded from the source data files used to populate the tables. The default is `false`.

Type: Boolean

Required: No

FileTransferUploadStreams

The number of threads used to upload a single file. This parameter accepts a value from 1 through 64. It defaults to 10.

The number of parallel streams used to upload a single .csv file to an S3 bucket using S3 Multipart Upload. For more information, see Multipart upload overview.

`FileTransferUploadStreams` accepts a value from 1 through 64. It defaults to 10.

Type: Integer

Required: No

LoadTimeout

The amount of time to wait (in milliseconds) before timing out of operations performed by AWS DMS on a Redshift cluster, such as Redshift COPY, INSERT, DELETE, and UPDATE.

Type: Integer

Required: No

MapBooleanAsBoolean

When true, lets Redshift migrate the boolean type as boolean. By default, Redshift migrates booleans as `varchar(1)`. You must set this setting on both the source and target endpoints for it to take effect.

Type: Boolean

Required: No

MaxFileSize

The maximum size (in KB) of any .csv file used to load data on an S3 bucket and transfer data to Amazon Redshift. It defaults to 1048576KB (1 GB).

Type: Integer

Required: No

Password

The password for the user named in the `username` property.

Type: String

Required: No

Port

The port number for Amazon Redshift. The default value is 5439.

Type: Integer

Required: No

RemoveQuotes

A value that specifies to remove surrounding quotation marks from strings in the incoming data. All characters within the quotation marks, including delimiters, are retained. Choose `true` to remove quotation marks. The default is `false`.

Type: Boolean

Required: No

ReplaceChars

A value that specifies to replaces the invalid characters specified in `ReplaceInvalidChars`, substituting the specified characters instead. The default is `"?"`.

Type: String

Required: No

ReplaceInvalidChars

A list of characters that you want to replace. Use with `ReplaceChars`.

Type: String

Required: No

SecretsManagerAccessRoleArn

The full Amazon Resource Name (ARN) of the IAM role that specifies AWS DMS as the trusted entity and grants the required permissions to access the value in `SecretsManagerSecret`. The role must allow the `iam:PassRole` action. `SecretsManagerSecret` has the value of the AWS Secrets Manager secret that allows access to the Amazon Redshift endpoint.

> **Note**
>
> You can specify one of two sets of values for these permissions. You can specify the values for this setting and `SecretsManagerSecretId`. Or you can specify clear-text values for `UserName`, `Password`, `ServerName`, and `Port`. You can't specify both. For more information on creating this `SecretsManagerSecret` and the `SecretsManagerAccessRoleArn` and `SecretsManagerSecretId` required to access it, see Using secrets to access AWS Database Migration Service resources in the *AWS Database Migration Service User Guide*.

Type: String

Required: No

SecretsManagerSecretId

The full ARN, partial ARN, or friendly name of the `SecretsManagerSecret` that contains the Amazon Redshift endpoint connection details.

Type: String

Required: No

ServerName

The name of the Amazon Redshift cluster you are using.

Type: String

Required: No

ServerSideEncryptionKmsKeyId

The AWS KMS key ID. If you are using `SSE_KMS` for the `EncryptionMode`, provide this key ID. The key that you use needs an attached policy that enables IAM user permissions and allows use of the key.

Type: String

Required: No

ServiceAccessRoleArn

The Amazon Resource Name (ARN) of the IAM role that has access to the Amazon Redshift service. The role must allow the `iam:PassRole` action.

Type: String

Required: No

TimeFormat

The time format that you want to use. Valid values are `auto` (case-sensitive), `'timeformat_string'`, `'epochsecs'`, or `'epochmillisecs'`. It defaults to 10. Using `auto` recognizes most strings, even some that aren't supported when you use a time format string.

If your date and time values use formats different from each other, set this parameter to `auto`.

Type: String

Required: No

TrimBlanks

A value that specifies to remove the trailing white space characters from a VARCHAR string. This parameter applies only to columns with a VARCHAR data type. Choose `true` to remove unneeded white space. The default is `false`.

Type: Boolean

Required: No

TruncateColumns

A value that specifies to truncate data in columns to the appropriate number of characters, so that the data fits in the column. This parameter applies only to columns with a VARCHAR or CHAR data type, and rows with a size of 4 MB or less. Choose `true` to truncate data. The default is `false`.

Type: Boolean

Required: No

Username

An Amazon Redshift user name for a registered user.

Type: String

Required: No

WriteBufferSize

The size (in KB) of the in-memory file write buffer used when generating .csv files on the local disk at the DMS replication instance. The default value is 1000 (buffer size is 1000KB).

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 Java V2
- AWS SDK for Ruby V3

RefreshSchemasStatus

Provides information that describes status of a schema at an endpoint specified by the `DescribeRefreshSchemaStatus` operation.

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 Java V2
- AWS SDK for Ruby V3

Replication

Provides information that describes a serverless replication created by the `CreateReplication` operation.

Contents

CdcStartPosition

Indicates the start time for a change data capture (CDC) operation. Use either `CdcStartTime` or `CdcStartPosition` to specify when you want a CDC operation to start. Specifying both values results in an error.

Type: String

Required: No

CdcStartTime

Indicates the start time for a change data capture (CDC) operation. Use either `CdcStartTime` or `CdcStartPosition` to specify when you want a CDC operation to start. Specifying both values results in an error.

Type: Timestamp

Required: No

CdcStopPosition

Indicates when you want a change data capture (CDC) operation to stop. The value can be either server time or commit time.

Type: String

Required: No

FailureMessages

Error and other information about why a serverless replication failed.

Type: Array of strings

Required: No

ProvisionData

Information about provisioning resources for an AWS DMS serverless replication.

Type: ProvisionData object

Required: No

RecoveryCheckpoint

Indicates the last checkpoint that occurred during a change data capture (CDC) operation. You can provide this value to the `CdcStartPosition` parameter to start a CDC operation that begins at that checkpoint.

Type: String

Required: No

ReplicationConfigArn

The Amazon Resource Name for the `ReplicationConfig` associated with the replication.

Type: String

Required: No

ReplicationConfigIdentifier

The identifier for the `ReplicationConfig` associated with the replication.

Type: String

Required: No

ReplicationCreateTime

The time the serverless replication was created.

Type: Timestamp

Required: No

ReplicationDeprovisionTime

The timestamp when DMS will deprovision the replication.

Type: Timestamp

Required: No

ReplicationLastStopTime

The timestamp when replication was last stopped.

Type: Timestamp

Required: No

ReplicationStats

This object provides a collection of statistics about a serverless replication.

Type: ReplicationStats object

Required: No

ReplicationType

The type of the serverless replication.

Type: String

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

Required: No

ReplicationUpdateTime

The time the serverless replication was updated.

Type: Timestamp

Required: No

SourceEndpointArn

The Amazon Resource Name for an existing `Endpoint` the serverless replication uses for its data source.

Type: String

Required: No

StartReplicationType

The type of replication to start.

Type: String

Required: No

Status

The current status of the serverless replication.

Type: String

Required: No

StopReason

The reason the replication task was stopped. This response parameter can return one of the following values:

- `"Stop Reason NORMAL"`
- `"Stop Reason RECOVERABLE_ERROR"`
- `"Stop Reason FATAL_ERROR"`
- `"Stop Reason FULL_LOAD_ONLY_FINISHED"`
- `"Stop Reason STOPPED_AFTER_FULL_LOAD"` – Full load completed, with cached changes not applied
- `"Stop Reason STOPPED_AFTER_CACHED_EVENTS"` – Full load completed, with cached changes applied
- `"Stop Reason EXPRESS_LICENSE_LIMITS_REACHED"`
- `"Stop Reason STOPPED_AFTER_DDL_APPLY"` – User-defined stop task after DDL applied
- `"Stop Reason STOPPED_DUE_TO_LOW_MEMORY"`
- `"Stop Reason STOPPED_DUE_TO_LOW_DISK"`
- `"Stop Reason STOPPED_AT_SERVER_TIME"` – User-defined server time for stopping task
- `"Stop Reason STOPPED_AT_COMMIT_TIME"` – User-defined commit time for stopping task
- `"Stop Reason RECONFIGURATION_RESTART"`
- `"Stop Reason RECYCLE_TASK"`

Type: String

Required: No

TargetEndpointArn

The Amazon Resource Name for an existing `Endpoint` the serverless replication uses for its data target.

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 Java V2
- AWS SDK for Ruby V3

ReplicationConfig

This object provides configuration information about a serverless replication.

Contents

ComputeConfig

Configuration parameters for provisioning an AWS DMS serverless replication.

Type: ComputeConfig object

Required: No

ReplicationConfigArn

The Amazon Resource Name (ARN) of this AWS DMS Serverless replication configuration.

Type: String

Required: No

ReplicationConfigCreateTime

The time the serverless replication config was created.

Type: Timestamp

Required: No

ReplicationConfigIdentifier

The identifier for the `ReplicationConfig` associated with the replication.

Type: String

Required: No

ReplicationConfigUpdateTime

The time the serverless replication config was updated.

Type: Timestamp

Required: No

ReplicationSettings

Configuration parameters for an AWS DMS serverless replication.

Type: String

Required: No

ReplicationType

The type of the replication.

Type: String

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

Required: No

SourceEndpointArn

The Amazon Resource Name (ARN) of the source endpoint for this AWS DMS serverless replication configuration.

Type: String

Required: No

SupplementalSettings

Additional parameters for an AWS DMS serverless replication.

Type: String

Required: No

TableMappings

Table mappings specified in the replication.

Type: String

Required: No

TargetEndpointArn

The Amazon Resource Name (ARN) of the target endpoint for this AWS DMS serverless replication configuration.

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 Java V2
- AWS SDK for Ruby V3

ReplicationInstance

Provides information that defines a replication instance.

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

DnsNameServers

The DNS name servers supported for the replication instance to access your on-premise source or target database.

Type: String

Required: No

EngineVersion

The engine version number of the replication instance.

If an engine version number is not specified when a replication instance is created, the default is the latest engine version available.

When modifying a major engine version of an instance, also set `AllowMajorVersionUpgrade` to `true`.

Type: String

Required: No

FreeUntil

The expiration date of the free replication instance that is part of the Free DMS program.

Type: Timestamp

Required: No

InstanceCreateTime

The time the replication instance was created.

Type: Timestamp

Required: No

KmsKeyId

An AWS KMS key identifier that is used to encrypt the data on the replication instance.

If you don't specify a value for the `KmsKeyId` parameter, then AWS DMS uses 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 whether the replication instance is a Multi-AZ deployment. You can't set the `AvailabilityZone` parameter if the Multi-AZ parameter is set to `true`.

Type: Boolean

Required: No

NetworkType

The type of IP address protocol used by a replication instance, such as IPv4 only or Dual-stack that supports both IPv4 and IPv6 addressing. IPv6 only is not yet supported.

Type: String

Required: No

PendingModifiedValues

The pending modification values.

Type: ReplicationPendingModifiedValues object

Required: No

PreferredMaintenanceWindow

The maintenance window times for the replication instance. Any pending upgrades to the replication instance are performed during this time.

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 as defined for the specified replication instance class. It is a required parameter, although a default value is pre-selected in the DMS console.

For more information on the settings and capacities for the available replication instance classes, see Selecting the right AWS DMS replication instance for your migration.

Type: String

Required: No

ReplicationInstanceIdentifier

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

Constraints:

- Must contain 1-63 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

ReplicationInstanceIpv6Addresses

One or more IPv6 addresses for the replication instance.

Type: Array of strings

Required: No

ReplicationInstancePrivateIpAddress

This member has been deprecated.

The private IP address of the replication instance.

Type: String

Required: No

ReplicationInstancePrivateIpAddresses

One or more private IP addresses for the replication instance.

Type: Array of strings

Required: No

ReplicationInstancePublicIpAddress

This member has been deprecated.

The public IP address of the replication instance.

Type: String

Required: No

ReplicationInstancePublicIpAddresses

One or more public IP addresses for the replication instance.

Type: Array of strings

Required: No

ReplicationInstanceStatus

The status of the replication instance. The possible return values include:

- `"available"`
- `"creating"`
- `"deleted"`
- `"deleting"`
- `"failed"`
- `"modifying"`
- `"upgrading"`
- `"rebooting"`
- `"resetting-master-credentials"`
- `"storage-full"`

- `"incompatible-credentials"`
- `"incompatible-network"`
- `"maintenance"`

Type: String

Required: No

ReplicationSubnetGroup

The subnet group for the replication instance.

Type: ReplicationSubnetGroup 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 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 Java V2
- AWS SDK for Ruby V3

ReplicationInstanceTaskLog

Contains metadata for a replication instance task log.

Contents

ReplicationInstanceTaskLogSize

The size, in bytes, of the replication task log.

Type: Long

Required: No

ReplicationTaskArn

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

Type: String

Required: No

ReplicationTaskName

The name of the replication task.

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 Java V2
- AWS SDK for Ruby V3

ReplicationPendingModifiedValues

Provides information about the values of pending modifications to a replication instance. This data type is an object of the `ReplicationInstance` user-defined data type.

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 whether the replication instance is a Multi-AZ deployment. You can't set the `AvailabilityZone` parameter if the Multi-AZ parameter is set to `true`.

Type: Boolean

Required: No

NetworkType

The type of IP address protocol used by a replication instance, such as IPv4 only or Dual-stack that supports both IPv4 and IPv6 addressing. IPv6 only is not yet supported.

Type: String

Required: No

ReplicationInstanceClass

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

For more information on the settings and capacities for the available replication instance classes, see Selecting the right AWS DMS replication instance for your migration.

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 Java V2
- AWS SDK for Ruby V3

ReplicationStats

This object provides a collection of statistics about a serverless replication.

Contents

ElapsedTimeMillis

The elapsed time of the replication, in milliseconds.

Type: Long

Required: No

FreshStartDate

The date the replication was started either with a fresh start or a target reload.

Type: Timestamp

Required: No

FullLoadFinishDate

The date the replication full load was finished.

Type: Timestamp

Required: No

FullLoadProgressPercent

The percent complete for the full load serverless replication.

Type: Integer

Required: No

FullLoadStartDate

The date the replication full load was started.

Type: Timestamp

Required: No

StartDate

The date the replication is scheduled to start.

Type: Timestamp

Required: No

StopDate

The date the replication was stopped.

Type: Timestamp

Required: No

TablesErrored

The number of errors that have occured for this replication.

Type: Integer

Required: No

TablesLoaded

The number of tables loaded for this replication.

Type: Integer

Required: No

TablesLoading

The number of tables currently loading for this replication.

Type: Integer

Required: No

TablesQueued

The number of tables queued for this replication.

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 Java V2
- AWS SDK for Ruby V3

ReplicationSubnetGroup

Describes a subnet group in response to a request by the `DescribeReplicationSubnetGroups` operation.

Contents

ReplicationSubnetGroupDescription

A description for 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 objects

Required: No

SupportedNetworkTypes

The IP addressing protocol supported by the subnet group. This is used by a replication instance with values such as IPv4 only or Dual-stack that supports both IPv4 and IPv6 addressing. IPv6 only is not yet supported.

Type: Array of strings

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 Java V2
- AWS SDK for Ruby V3

ReplicationTask

Provides information that describes a replication task created by the `CreateReplicationTask` operation.

Contents

CdcStartPosition

Indicates when you want a change data capture (CDC) operation to start. Use either `CdcStartPosition` or `CdcStartTime` to specify when you want the CDC operation to start. Specifying both values results in an error.

The value can be in date, checkpoint, or LSN/SCN format.

Date Example: --cdc-start-position “2018-03-08T12:12:12”

Checkpoint Example: --cdc-start-position "checkpoint:V1#27#mysql-bin-changelog.157832:1975:-1:2002:677883278264080:mysql-bin-changelog.157832:1876#0#0#*#0#93"

LSN Example: --cdc-start-position “mysql-bin-changelog.000024:373”

Type: String

Required: No

CdcStopPosition

Indicates when you want a change data capture (CDC) operation to stop. The value can be either server time or commit time.

Server time example: --cdc-stop-position “server_time:2018-02-09T12:12:12”

Commit time example: --cdc-stop-position “commit_time:2018-02-09T12:12:12“

Type: String

Required: No

LastFailureMessage

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

Type: String

Required: No

MigrationType

The type of migration.

Type: String

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

Required: No

RecoveryCheckpoint

Indicates the last checkpoint that occurred during a change data capture (CDC) operation. You can provide this value to the `CdcStartPosition` parameter to start a CDC operation that begins at that checkpoint.

Type: String

Required: No

ReplicationInstanceArn

The 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 user-assigned replication task identifier or name.

Constraints:

- Must contain 1-255 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 object

Required: No

SourceEndpointArn

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

Type: String

Required: No

Status

The status of the replication task. This response parameter can return one of the following values:

- "moving" – The task is being moved in response to running the MoveReplicationTask operation.
- "creating" – The task is being created in response to running the CreateReplicationTask operation.
- "deleting" – The task is being deleted in response to running the DeleteReplicationTask operation.
- "failed" – The task failed to successfully complete the database migration in response to running the StartReplicationTask operation.
- "failed-move" – The task failed to move in response to running the MoveReplicationTask operation.
- "modifying" – The task definition is being modified in response to running the ModifyReplicationTask operation.
- "ready" – The task is in a ready state where it can respond to other task operations, such as StartReplicationTask or DeleteReplicationTask.
- "running" – The task is performing a database migration in response to running the StartReplicationTask operation.
- "starting" – The task is preparing to perform a database migration in response to running the StartReplicationTask operation.
- "stopped" – The task has stopped in response to running the StopReplicationTask operation.
- "stopping" – The task is preparing to stop in response to running the StopReplicationTask operation.
- "testing" – The database migration specified for this task is being tested in response to running either the StartReplicationTaskAssessmentRun or the StartReplicationTaskAssessment operation.

> **Note**
>
> StartReplicationTaskAssessmentRun is an improved premigration task assessment operation. The StartReplicationTaskAssessment operation assesses data type compatibility only between the source and target database of

a given migration task. In contrast, StartReplicationTaskAssessmentRun enables you to specify a variety of premigration task assessments in addition to data type compatibility. These assessments include ones for the validity of primary key definitions and likely issues with database migration performance, among others.

Type: String

Required: No

StopReason

The reason the replication task was stopped. This response parameter can return one of the following values:

- "Stop Reason NORMAL" – The task completed successfully with no additional information returned.
- "Stop Reason RECOVERABLE_ERROR"
- "Stop Reason FATAL_ERROR"
- "Stop Reason FULL_LOAD_ONLY_FINISHED" – The task completed the full load phase. DMS applied cached changes if you set StopTaskCachedChangesApplied to true.
- "Stop Reason STOPPED_AFTER_FULL_LOAD" – Full load completed, with cached changes not applied
- "Stop Reason STOPPED_AFTER_CACHED_EVENTS" – Full load completed, with cached changes applied
- "Stop Reason EXPRESS_LICENSE_LIMITS_REACHED"
- "Stop Reason STOPPED_AFTER_DDL_APPLY" – User-defined stop task after DDL applied
- "Stop Reason STOPPED_DUE_TO_LOW_MEMORY"
- "Stop Reason STOPPED_DUE_TO_LOW_DISK"
- "Stop Reason STOPPED_AT_SERVER_TIME" – User-defined server time for stopping task
- "Stop Reason STOPPED_AT_COMMIT_TIME" – User-defined commit time for stopping task
- "Stop Reason RECONFIGURATION_RESTART"
- "Stop Reason RECYCLE_TASK"

Type: String

Required: No

TableMappings

Table mappings specified in the task.

Type: String

Required: No

TargetEndpointArn

The ARN that uniquely identifies the endpoint.

Type: String

Required: No

TargetReplicationInstanceArn

The ARN of the replication instance to which this task is moved in response to running the `MoveReplicationTask` operation. Otherwise, this response parameter isn't a member of the `ReplicationTask` object.

Type: String

Required: No

TaskData

Supplemental information that the task requires to migrate the data for certain source and target endpoints. For more information, see Specifying Supplemental Data for Task Settings in the *AWS Database Migration Service User Guide.*

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 Java V2

- AWS SDK for Ruby V3

ReplicationTaskAssessmentResult

The task assessment report in JSON format.

Contents

AssessmentResults

The task assessment results in JSON format.

The response object only contains this field if you provide DescribeReplicationTaskAssessmentResults:ReplicationTaskArn in the request.

Type: String

Required: No

AssessmentResultsFile

The file containing the results of the task assessment.

Type: String

Required: No

AssessmentStatus

The status of the task assessment.

Type: String

Required: No

ReplicationTaskArn

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

Type: String

Required: No

ReplicationTaskIdentifier

The replication task identifier of the task on which the task assessment was run.

Type: String

Required: No

ReplicationTaskLastAssessmentDate

The date the task assessment was completed.

Type: Timestamp

Required: No

S3ObjectUrl

The URL of the S3 object containing the task assessment results.

The response object only contains this field if you provide DescribeReplicationTaskAssessmentResults:ReplicationTaskArn in the request.

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 Java V2
- AWS SDK for Ruby V3

ReplicationTaskAssessmentRun

Provides information that describes a premigration assessment run that you have started using the `StartReplicationTaskAssessmentRun` operation.

Some of the information appears based on other operations that can return the `ReplicationTaskAssessmentRun` object.

Contents

AssessmentProgress

Indication of the completion progress for the individual assessments specified to run.

Type: ReplicationTaskAssessmentRunProgress object

Required: No

AssessmentRunName

Unique name of the assessment run.

Type: String

Required: No

LastFailureMessage

Last message generated by an individual assessment failure.

Type: String

Required: No

ReplicationTaskArn

ARN of the migration task associated with this premigration assessment run.

Type: String

Required: No

ReplicationTaskAssessmentRunArn

Amazon Resource Name (ARN) of this assessment run.

Type: String

Required: No

ReplicationTaskAssessmentRunCreationDate

Date on which the assessment run was created using the `StartReplicationTaskAssessmentRun` operation.

Type: Timestamp

Required: No

ResultEncryptionMode

Encryption mode used to encrypt the assessment run results.

Type: String

Required: No

ResultKmsKeyArn

ARN of the AWS KMS encryption key used to encrypt the assessment run results.

Type: String

Required: No

ResultLocationBucket

Amazon S3 bucket where AWS DMS stores the results of this assessment run.

Type: String

Required: No

ResultLocationFolder

Folder in an Amazon S3 bucket where AWS DMS stores the results of this assessment run.

Type: String

Required: No

ServiceAccessRoleArn

ARN of the service role used to start the assessment run using the `StartReplicationTaskAssessmentRun` operation. The role must allow the `iam:PassRole` action.

Type: String

Required: No

Status

Assessment run status.

This status can have one of the following values:

- `"cancelling"` – The assessment run was canceled by the `CancelReplicationTaskAssessmentRun` operation.
- `"deleting"` – The assessment run was deleted by the `DeleteReplicationTaskAssessmentRun` operation.
- `"failed"` – At least one individual assessment completed with a `failed` status.
- `"error-provisioning"` – An internal error occurred while resources were provisioned (during `provisioning` status).
- `"error-executing"` – An internal error occurred while individual assessments ran (during `running` status).
- `"invalid state"` – The assessment run is in an unknown state.
- `"passed"` – All individual assessments have completed, and none has a `failed` status.
- `"provisioning"` – Resources required to run individual assessments are being provisioned.
- `"running"` – Individual assessments are being run.
- `"starting"` – The assessment run is starting, but resources are not yet being provisioned for individual assessments.
- `"warning"` – At least one individual assessment completed with a `warning` 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 Java V2

- AWS SDK for Ruby V3

ReplicationTaskAssessmentRunProgress

The progress values reported by the `AssessmentProgress` response element.

Contents

IndividualAssessmentCompletedCount

The number of individual assessments that have completed, successfully or not.

Type: Integer

Required: No

IndividualAssessmentCount

The number of individual assessments that are specified to run.

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 Java V2
- AWS SDK for Ruby V3

ReplicationTaskIndividualAssessment

Provides information that describes an individual assessment from a premigration assessment run.

Contents

IndividualAssessmentName

Name of this individual assessment.

Type: String

Required: No

ReplicationTaskAssessmentRunArn

ARN of the premigration assessment run that is created to run this individual assessment.

Type: String

Required: No

ReplicationTaskIndividualAssessmentArn

Amazon Resource Name (ARN) of this individual assessment.

Type: String

Required: No

ReplicationTaskIndividualAssessmentStartDate

Date when this individual assessment was started as part of running the `StartReplicationTaskAssessmentRun` operation.

Type: Timestamp

Required: No

Status

Individual assessment status.

This status can have one of the following values:

- `"cancelled"`

- "error"
- "failed"
- "passed"
- "pending"
- "running"

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 Java V2
- AWS SDK for Ruby V3

ReplicationTaskStats

In response to a request by the `DescribeReplicationTasks` operation, this object provides a collection of statistics about a replication task.

Contents

ElapsedTimeMillis

The elapsed time of the task, in milliseconds.

Type: Long

Required: No

FreshStartDate

The date the replication task was started either with a fresh start or a target reload.

Type: Timestamp

Required: No

FullLoadFinishDate

The date the replication task full load was completed.

Type: Timestamp

Required: No

FullLoadProgressPercent

The percent complete for the full load migration task.

Type: Integer

Required: No

FullLoadStartDate

The date the replication task full load was started.

Type: Timestamp

Required: No

StartDate

The date the replication task was started either with a fresh start or a resume. For more information, see StartReplicationTaskType.

Type: Timestamp

Required: No

StopDate

The date the replication task was stopped.

Type: Timestamp

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 Java V2
- AWS SDK for Ruby V3

ResourcePendingMaintenanceActions

Identifies an AWS DMS resource and any pending actions for it.

Contents

PendingMaintenanceActionDetails

Detailed information about the pending maintenance action.

Type: Array of PendingMaintenanceAction objects

Required: No

ResourceIdentifier

The Amazon Resource Name (ARN) of the DMS resource that the pending maintenance action applies to. For information about creating an ARN, see Constructing an Amazon Resource Name (ARN) for AWS DMS in the AWS DMS documentation.

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 Java V2
- AWS SDK for Ruby V3

S3Settings

Settings for exporting data to Amazon S3.

Contents

AddColumnName

An optional parameter that, when set to `true` or `y`, you can use to add column name information to the .csv output file.

The default value is `false`. Valid values are `true`, `false`, `y`, and `n`.

Type: Boolean

Required: No

AddTrailingPaddingCharacter

Use the S3 target endpoint setting `AddTrailingPaddingCharacter` to add padding on string data. The default value is `false`.

Type: Boolean

Required: No

BucketFolder

An optional parameter to set a folder name in the S3 bucket. If provided, tables are created in the path *`bucketFolder/schema_name/table_name/`*. If this parameter isn't specified, then the path used is *`schema_name/table_name/`*.

Type: String

Required: No

BucketName

The name of the S3 bucket.

Type: String

Required: No

CannedAclForObjects

A value that enables AWS DMS to specify a predefined (canned) access control list for objects created in an Amazon S3 bucket as .csv or .parquet files. For more information about Amazon S3 canned ACLs, see Canned ACL in the *Amazon S3 Developer Guide.*

The default value is NONE. Valid values include NONE, PRIVATE, PUBLIC_READ, PUBLIC_READ_WRITE, AUTHENTICATED_READ, AWS_EXEC_READ, BUCKET_OWNER_READ, and BUCKET_OWNER_FULL_CONTROL.

Type: String

Valid Values: `none | private | public-read | public-read-write | authenticated-read | aws-exec-read | bucket-owner-read | bucket-owner-full-control`

Required: No

CdcInsertsAndUpdates

A value that enables a change data capture (CDC) load to write INSERT and UPDATE operations to .csv or .parquet (columnar storage) output files. The default setting is `false`, but when `CdcInsertsAndUpdates` is set to `true` or `y`, only INSERTs and UPDATEs from the source database are migrated to the .csv or .parquet file.

> **Important**
>
> AWS DMS supports the use of the .parquet files in versions 3.4.7 and later.

How these INSERTs and UPDATEs are recorded depends on the value of the `IncludeOpForFullLoad` parameter. If `IncludeOpForFullLoad` is set to `true`, the first field of every CDC record is set to either `I` or `U` to indicate INSERT and UPDATE operations at the source. But if `IncludeOpForFullLoad` is set to `false`, CDC records are written without an indication of INSERT or UPDATE operations at the source. For more information about how these settings work together, see Indicating Source DB Operations in Migrated S3 Data in the *AWS Database Migration Service User Guide.*.

> **Note**
>
> AWS DMS supports the use of the `CdcInsertsAndUpdates` parameter in versions 3.3.1 and later.
> `CdcInsertsOnly` and `CdcInsertsAndUpdates` can't both be set to `true` for the same endpoint. Set either `CdcInsertsOnly` or `CdcInsertsAndUpdates` to `true` for the same endpoint, but not both.

Type: Boolean

Required: No

CdcInsertsOnly

A value that enables a change data capture (CDC) load to write only INSERT operations to .csv or columnar storage (.parquet) output files. By default (the `false` setting), the first field in a .csv or .parquet record contains the letter I (INSERT), U (UPDATE), or D (DELETE). These values indicate whether the row was inserted, updated, or deleted at the source database for a CDC load to the target.

If `CdcInsertsOnly` is set to `true` or `y`, only INSERTs from the source database are migrated to the .csv or .parquet file. For .csv format only, how these INSERTs are recorded depends on the value of `IncludeOpForFullLoad`. If `IncludeOpForFullLoad` is set to `true`, the first field of every CDC record is set to I to indicate the INSERT operation at the source. If `IncludeOpForFullLoad` is set to `false`, every CDC record is written without a first field to indicate the INSERT operation at the source. For more information about how these settings work together, see Indicating Source DB Operations in Migrated S3 Data in the *AWS Database Migration Service User Guide.*.

> **Note**
>
> AWS DMS supports the interaction described preceding between the `CdcInsertsOnly` and `IncludeOpForFullLoad` parameters in versions 3.1.4 and later.
> `CdcInsertsOnly` and `CdcInsertsAndUpdates` can't both be set to `true` for the same endpoint. Set either `CdcInsertsOnly` or `CdcInsertsAndUpdates` to `true` for the same endpoint, but not both.

Type: Boolean

Required: No

CdcMaxBatchInterval

Maximum length of the interval, defined in seconds, after which to output a file to Amazon S3.

When `CdcMaxBatchInterval` and `CdcMinFileSize` are both specified, the file write is triggered by whichever parameter condition is met first within an AWS DMS CloudFormation template.

The default value is 60 seconds.

Type: Integer

Required: No

CdcMinFileSize

Minimum file size, defined in kilobytes, to reach for a file output to Amazon S3.

When `CdcMinFileSize` and `CdcMaxBatchInterval` are both specified, the file write is triggered by whichever parameter condition is met first within an AWS DMS CloudFormation template.

The default value is 32 MB.

Type: Integer

Required: No

CdcPath

Specifies the folder path of CDC files. For an S3 source, this setting is required if a task captures change data; otherwise, it's optional. If `CdcPath` is set, AWS DMS reads CDC files from this path and replicates the data changes to the target endpoint. For an S3 target if you set `PreserveTransactions` to `true`, AWS DMS verifies that you have set this parameter to a folder path on your S3 target where AWS DMS can save the transaction order for the CDC load. AWS DMS creates this CDC folder path in either your S3 target working directory or the S3 target location specified by `BucketFolder` and `BucketName`.

For example, if you specify `CdcPath` as `MyChangedData`, and you specify `BucketName` as `MyTargetBucket` but do not specify `BucketFolder`, AWS DMS creates the CDC folder path following: `MyTargetBucket/MyChangedData`.

If you specify the same `CdcPath`, and you specify `BucketName` as `MyTargetBucket` and `BucketFolder` as `MyTargetData`, AWS DMS creates the CDC folder path following: `MyTargetBucket/MyTargetData/MyChangedData`.

For more information on CDC including transaction order on an S3 target, see Capturing data changes (CDC) including transaction order on the S3 target.

> **Note**
>
> This setting is supported in AWS DMS versions 3.4.2 and later.

Type: String

Required: No

CompressionType

An optional parameter to use GZIP to compress the target files. Set to GZIP to compress the target files. Either set this parameter to NONE (the default) or don't use it to leave the files uncompressed. This parameter applies to both .csv and .parquet file formats.

Type: String

Valid Values: `none | gzip`

Required: No

CsvDelimiter

The delimiter used to separate columns in the .csv file for both source and target. The default is a comma.

Type: String

Required: No

CsvNoSupValue

This setting only applies if your Amazon S3 output files during a change data capture (CDC) load are written in .csv format. If `UseCsvNoSupValue` is set to true, specify a string value that you want AWS DMS to use for all columns not included in the supplemental log. If you do

not specify a string value, AWS DMS uses the null value for these columns regardless of the `UseCsvNoSupValue` setting.

> **Note**
>
> This setting is supported in AWS DMS versions 3.4.1 and later.

Type: String

Required: No

CsvNullValue

An optional parameter that specifies how AWS DMS treats null values. While handling the null value, you can use this parameter to pass a user-defined string as null when writing to the target. For example, when target columns are nullable, you can use this option to differentiate between the empty string value and the null value. So, if you set this parameter value to the empty string ("" or ''), AWS DMS treats the empty string as the null value instead of `NULL`.

The default value is `NULL`. Valid values include any valid string.

Type: String

Required: No

CsvRowDelimiter

The delimiter used to separate rows in the .csv file for both source and target. The default is a carriage return (\n).

Type: String

Required: No

DataFormat

The format of the data that you want to use for output. You can choose one of the following:

- `csv` : This is a row-based file format with comma-separated values (.csv).
- `parquet` : Apache Parquet (.parquet) is a columnar storage file format that features efficient compression and provides faster query response.

Type: String

Valid Values: `csv | parquet`

Required: No

DataPageSize

The size of one data page in bytes. This parameter defaults to 1024 * 1024 bytes (1 MiB). This number is used for .parquet file format only.

Type: Integer

Required: No

DatePartitionDelimiter

Specifies a date separating delimiter to use during folder partitioning. The default value is `SLASH`. Use this parameter when `DatePartitionedEnabled` is set to `true`.

Type: String

Valid Values: `SLASH | UNDERSCORE | DASH | NONE`

Required: No

DatePartitionEnabled

When set to `true`, this parameter partitions S3 bucket folders based on transaction commit dates. The default value is `false`. For more information about date-based folder partitioning, see Using date-based folder partitioning.

Type: Boolean

Required: No

DatePartitionSequence

Identifies the sequence of the date format to use during folder partitioning. The default value is `YYYYMMDD`. Use this parameter when `DatePartitionedEnabled` is set to `true`.

Type: String

Valid Values: `YYYYMMDD | YYYYMMDDHH | YYYYMM | MMYYYYDD | DDMMYYYY`

Required: No

DatePartitionTimezone

When creating an S3 target endpoint, set `DatePartitionTimezone` to convert the current UTC time into a specified time zone. The conversion occurs when a date partition folder is created and a CDC filename is generated. The time zone format is Area/Location. Use this parameter when `DatePartitionedEnabled` is set to `true`, as shown in the following example.

```
s3-settings='{"DatePartitionEnabled": true, "DatePartitionSequence":
"YYYYMMDDHH", "DatePartitionDelimiter": "SLASH",
"DatePartitionTimezone":"Asia/Seoul", "BucketName": "dms-nattarat-
test"}'
```

Type: String

Required: No

DictPageSizeLimit

The maximum size of an encoded dictionary page of a column. If the dictionary page exceeds this, this column is stored using an encoding type of `PLAIN`. This parameter defaults to 1024 * 1024 bytes (1 MiB), the maximum size of a dictionary page before it reverts to `PLAIN` encoding. This size is used for .parquet file format only.

Type: Integer

Required: No

EnableStatistics

A value that enables statistics for Parquet pages and row groups. Choose `true` to enable statistics, `false` to disable. Statistics include `NULL`, `DISTINCT`, `MAX`, and `MIN` values. This parameter defaults to `true`. This value is used for .parquet file format only.

Type: Boolean

Required: No

EncodingType

The type of encoding you are using:

- `RLE_DICTIONARY` uses a combination of bit-packing and run-length encoding to store repeated values more efficiently. This is the default.

- PLAIN doesn't use encoding at all. Values are stored as they are.
- PLAIN_DICTIONARY builds a dictionary of the values encountered in a given column. The dictionary is stored in a dictionary page for each column chunk.

Type: String

Valid Values: `plain | plain-dictionary | rle-dictionary`

Required: No

EncryptionMode

The type of server-side encryption that you want to use for your data. This encryption type is part of the endpoint settings or the extra connections attributes for Amazon S3. You can choose either SSE_S3 (the default) or SSE_KMS.

> **Note**
>
> For the `ModifyEndpoint` operation, you can change the existing value of the `EncryptionMode` parameter from SSE_KMS to SSE_S3. But you can't change the existing value from SSE_S3 to SSE_KMS.

To use SSE_S3, you need an AWS Identity and Access Management (IAM) role with permission to allow `"arn:aws:s3:::dms-*"` to use the following actions:

- `s3:CreateBucket`
- `s3:ListBucket`
- `s3:DeleteBucket`
- `s3:GetBucketLocation`
- `s3:GetObject`
- `s3:PutObject`
- `s3:DeleteObject`
- `s3:GetObjectVersion`
- `s3:GetBucketPolicy`
- `s3:PutBucketPolicy`
- `s3:DeleteBucketPolicy`

Type: String

Valid Values: `sse-s3 | sse-kms`

Required: No

ExpectedBucketOwner

To specify a bucket owner and prevent sniping, you can use the `ExpectedBucketOwner` endpoint setting.

Example: `--s3-settings='{"ExpectedBucketOwner": "AWS_Account_ID"}'`

When you make a request to test a connection or perform a migration, S3 checks the account ID of the bucket owner against the specified parameter.

Type: String

Required: No

ExternalTableDefinition

Specifies how tables are defined in the S3 source files only.

Type: String

Required: No

GlueCatalogGeneration

When true, allows AWS Glue to catalog your S3 bucket. Creating an AWS Glue catalog lets you use Athena to query your data.

Type: Boolean

Required: No

IgnoreHeaderRows

When this value is set to 1, AWS DMS ignores the first row header in a .csv file. A value of 1 turns on the feature; a value of 0 turns off the feature.

The default is 0.

Type: Integer

Required: No

IncludeOpForFullLoad

A value that enables a full load to write INSERT operations to the comma-separated value (.csv) or .parquet output files only to indicate how the rows were added to the source database.

> **Note**
>
> AWS DMS supports the `IncludeOpForFullLoad` parameter in versions 3.1.4 and later. AWS DMS supports the use of the .parquet files with the `IncludeOpForFullLoad` parameter in versions 3.4.7 and later.

For full load, records can only be inserted. By default (the `false` setting), no information is recorded in these output files for a full load to indicate that the rows were inserted at the source database. If `IncludeOpForFullLoad` is set to `true` or `y`, the INSERT is recorded as an I annotation in the first field of the .csv file. This allows the format of your target records from a full load to be consistent with the target records from a CDC load.

> **Note**
>
> This setting works together with the `CdcInsertsOnly` and the `CdcInsertsAndUpdates` parameters for output to .csv files only. For more information about how these settings work together, see Indicating Source DB Operations in Migrated S3 Data in the *AWS Database Migration Service User Guide.*.

Type: Boolean

Required: No

MaxFileSize

A value that specifies the maximum size (in KB) of any .csv file to be created while migrating to an S3 target during full load.

The default value is 1,048,576 KB (1 GB). Valid values include 1 to 1,048,576.

Type: Integer

Required: No

ParquetTimestampInMillisecond

A value that specifies the precision of any `TIMESTAMP` column values that are written to an Amazon S3 object file in .parquet format.

> **Note**
>
> AWS DMS supports the `ParquetTimestampInMillisecond` parameter in versions 3.1.4 and later.

When `ParquetTimestampInMillisecond` is set to `true` or `y`, AWS DMS writes all `TIMESTAMP` columns in a .parquet formatted file with millisecond precision. Otherwise, DMS writes them with microsecond precision.

Currently, Amazon Athena and AWS Glue can handle only millisecond precision for `TIMESTAMP` values. Set this parameter to `true` for S3 endpoint object files that are .parquet formatted only if you plan to query or process the data with Athena or AWS Glue.

> **Note**
>
> AWS DMS writes any `TIMESTAMP` column values written to an S3 file in .csv format with microsecond precision.
> Setting `ParquetTimestampInMillisecond` has no effect on the string format of the timestamp column value that is inserted by setting the `TimestampColumnName` parameter.

Type: Boolean

Required: No

ParquetVersion

The version of the Apache Parquet format that you want to use: `parquet_1_0` (the default) or `parquet_2_0`.

Type: String

Valid Values: `parquet-1-0 | parquet-2-0`

Required: No

PreserveTransactions

If set to `true`, AWS DMS saves the transaction order for a change data capture (CDC) load on the Amazon S3 target specified by `CdcPath`. For more information, see Capturing data changes (CDC) including transaction order on the S3 target.

> **Note**
>
> This setting is supported in AWS DMS versions 3.4.2 and later.

Type: Boolean

Required: No

Rfc4180

For an S3 source, when this value is set to `true` or `y`, each leading double quotation mark has to be followed by an ending double quotation mark. This formatting complies with RFC 4180. When this value is set to `false` or `n`, string literals are copied to the target as is. In this case, a delimiter (row or column) signals the end of the field. Thus, you can't use a delimiter as part of the string, because it signals the end of the value.

For an S3 target, an optional parameter used to set behavior to comply with RFC 4180 for data migrated to Amazon S3 using .csv file format only. When this value is set to `true` or `y` using Amazon S3 as a target, if the data has quotation marks or newline characters in it, AWS DMS encloses the entire column with an additional pair of double quotation marks ("). Every quotation mark within the data is repeated twice.

The default value is `true`. Valid values include `true`, `false`, `y`, and `n`.

Type: Boolean

Required: No

RowGroupLength

The number of rows in a row group. A smaller row group size provides faster reads. But as the number of row groups grows, the slower writes become. This parameter defaults to 10,000 rows. This number is used for .parquet file format only.

If you choose a value larger than the maximum, `RowGroupLength` is set to the max row group length in bytes (64 * 1024 * 1024).

Type: Integer

Required: No

ServerSideEncryptionKmsKeyId

If you are using `SSE_KMS` for the `EncryptionMode`, provide the AWS KMS key ID. The key that you use needs an attached policy that enables AWS Identity and Access Management (IAM) user permissions and allows use of the key.

Here is a CLI example: `aws dms create-endpoint --endpoint-identifier` *`value`* `--endpoint-type target --engine-name s3 --s3-settings ServiceAccessRoleArn=`*`value`*`,BucketFolder=`*`value`*`,BucketName=`*`value`*`,EncryptionMode=`

Type: String

Required: No

ServiceAccessRoleArn

The Amazon Resource Name (ARN) used by the service to access the IAM role. The role must allow the `iam:PassRole` action. It is a required parameter that enables AWS DMS to write and read objects from an S3 bucket.

Type: String

Required: No

TimestampColumnName

A value that when nonblank causes AWS DMS to add a column with timestamp information to the endpoint data for an Amazon S3 target.

> **Note**
>
> AWS DMS supports the `TimestampColumnName` parameter in versions 3.1.4 and later.

DMS includes an additional `STRING` column in the .csv or .parquet object files of your migrated data when you set `TimestampColumnName` to a nonblank value.

For a full load, each row of this timestamp column contains a timestamp for when the data was transferred from the source to the target by DMS.

For a change data capture (CDC) load, each row of the timestamp column contains the timestamp for the commit of that row in the source database.

The string format for this timestamp column value is `yyyy-MM-dd HH:mm:ss.SSSSSS`. By default, the precision of this value is in microseconds. For a CDC load, the rounding of the precision depends on the commit timestamp supported by DMS for the source database.

When the `AddColumnName` parameter is set to `true`, DMS also includes a name for the timestamp column that you set with `TimestampColumnName`.

Type: String

Required: No

UseCsvNoSupValue

This setting applies if the S3 output files during a change data capture (CDC) load are written in .csv format. If set to `true` for columns not included in the supplemental log, AWS DMS uses the value specified by `CsvNoSupValue`. If not set or set to `false`, AWS DMS uses the null value for these columns.

> **Note**
>
> This setting is supported in AWS DMS versions 3.4.1 and later.

Type: Boolean

Required: No

UseTaskStartTimeForFullLoadTimestamp

When set to true, this parameter uses the task start time as the timestamp column value instead of the time data is written to target. For full load, when `useTaskStartTimeForFullLoadTimestamp` is set to `true`, each row of the timestamp column contains the task start time. For CDC loads, each row of the timestamp column contains the transaction commit time.

When `useTaskStartTimeForFullLoadTimestamp` is set to `false`, the full load timestamp in the timestamp column increments with the time data arrives at the target.

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 Java V2
- AWS SDK for Ruby V3

SCApplicationAttributes

Provides information that defines a schema conversion application.

Contents

S3BucketPath

The path for the Amazon S3 bucket that the application uses for exporting assessment reports.

Type: String

Required: No

S3BucketRoleArn

The ARN for the role the application uses to access its Amazon S3 bucket.

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 Java V2
- AWS SDK for Ruby V3

SchemaConversionRequest

Provides information about a schema conversion action.

Contents

Error

Provides error information about a project.

Type: ErrorDetails object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

ExportSqlDetails

Provides information about a metadata model assessment exported to SQL.

Type: ExportSqlDetails object

Required: No

MigrationProjectArn

The migration project ARN.

Type: String

Required: No

RequestIdentifier

The identifier for the schema conversion action.

Type: String

Required: No

Status

The schema conversion action 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 Java V2
- AWS SDK for Ruby V3

SchemaResponse

Describes a schema in a Fleet Advisor collector inventory.

Contents

CodeLineCount

The number of lines of code in a schema in a Fleet Advisor collector inventory.

Type: Long

Required: No

CodeSize

The size level of the code in a schema in a Fleet Advisor collector inventory.

Type: Long

Required: No

Complexity

The complexity level of the code in a schema in a Fleet Advisor collector inventory.

Type: String

Required: No

DatabaseInstance

The database for a schema in a Fleet Advisor collector inventory.

Type: DatabaseShortInfoResponse object

Required: No

OriginalSchema

Describes a schema in a Fleet Advisor collector inventory.

Type: SchemaShortInfoResponse object

Required: No

SchemaId

The ID of a schema in a Fleet Advisor collector inventory.

Type: String

Required: No

SchemaName

The name of a schema in a Fleet Advisor collector inventory.

Type: String

Required: No

Server

The database server for a schema in a Fleet Advisor collector inventory.

Type: ServerShortInfoResponse object

Required: No

Similarity

The similarity value for a schema in a Fleet Advisor collector inventory. A higher similarity value indicates that a schema is likely to be a duplicate.

Type: Double

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SchemaShortInfoResponse

Describes a schema in a Fleet Advisor collector inventory.

Contents

DatabaseId

The ID of a database in a Fleet Advisor collector inventory.

Type: String

Required: No

DatabaseIpAddress

The IP address of a database in a Fleet Advisor collector inventory.

Type: String

Required: No

DatabaseName

The name of a database in a Fleet Advisor collector inventory.

Type: String

Required: No

SchemaId

The ID of a schema in a Fleet Advisor collector inventory.

Type: String

Required: No

SchemaName

The name of a schema in a Fleet Advisor collector inventory.

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 Java V2
- AWS SDK for Ruby V3

ServerShortInfoResponse

Describes a server in a Fleet Advisor collector inventory.

Contents

IpAddress

The IP address of a server in a Fleet Advisor collector inventory.

Type: String

Required: No

ServerId

The ID of a server in a Fleet Advisor collector inventory.

Type: String

Required: No

ServerName

The name address of a server in a Fleet Advisor collector inventory.

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 Java V2
- AWS SDK for Ruby V3

StartRecommendationsRequestEntry

Provides information about the source database to analyze and provide target recommendations according to the specified requirements.

Contents

DatabaseId

The identifier of the source database.

Type: String

Required: Yes

Settings

The required target engine settings.

Type: RecommendationSettings object

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Subnet

In response to a request by the `DescribeReplicationSubnetGroups` operation, this object identifies a subnet by its given Availability Zone, subnet identifier, and status.

Contents

SubnetAvailabilityZone

The Availability Zone of the subnet.

Type: AvailabilityZone 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 Java V2
- AWS SDK for Ruby V3

SupportedEndpointType

Provides information about types of supported endpoints in response to a request by the `DescribeEndpointTypes` operation. This information includes the type of endpoint, the database engine name, and whether change data capture (CDC) is supported.

Contents

EndpointType

The type of endpoint. Valid values are `source` and `target`.

Type: String

Valid Values: `source | target`

Required: No

EngineDisplayName

The expanded name for the engine name. For example, if the `EngineName` parameter is "aurora", this value would be "Amazon Aurora MySQL".

Type: String

Required: No

EngineName

The database engine name. Valid values, depending on the EndpointType, include `"mysql"`, `"oracle"`, `"postgres"`, `"mariadb"`, `"aurora"`, `"aurora-postgresql"`, `"redshift"`, `"s3"`, `"db2"`, `"db2-zos"`, `"azuredb"`, `"sybase"`, `"dynamodb"`, `"mongodb"`, `"kinesis"`, `"kafka"`, `"elasticsearch"`, `"documentdb"`, `"sqlserver"`, `"neptune"`, and `"babelfish"`.

Type: String

Required: No

ReplicationInstanceEngineMinimumVersion

The earliest AWS DMS engine version that supports this endpoint engine. Note that endpoint engines released with AWS DMS versions earlier than 3.1.1 do not return a value for this parameter.

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 Java V2
- AWS SDK for Ruby V3

SybaseSettings

Provides information that defines a SAP ASE endpoint.

Contents

DatabaseName

Database name for the endpoint.

Type: String

Required: No

Password

Endpoint connection password.

Type: String

Required: No

Port

Endpoint TCP port. The default is 5000.

Type: Integer

Required: No

SecretsManagerAccessRoleArn

The full Amazon Resource Name (ARN) of the IAM role that specifies AWS DMS as the trusted entity and grants the required permissions to access the value in `SecretsManagerSecret`. The role must allow the `iam:PassRole` action. `SecretsManagerSecret` has the value of the AWS Secrets Manager secret that allows access to the SAP ASE endpoint.

> **Note**
>
> You can specify one of two sets of values for these permissions. You can specify the values for this setting and `SecretsManagerSecretId`. Or you can specify clear-text values for `UserName`, `Password`, `ServerName`, and `Port`. You can't specify both. For more information on creating this `SecretsManagerSecret` and the

`SecretsManagerAccessRoleArn` and `SecretsManagerSecretId` required to access it, see Using secrets to access AWS Database Migration Service resources in the *AWS Database Migration Service User Guide*.

Type: String

Required: No

SecretsManagerSecretId

The full ARN, partial ARN, or friendly name of the `SecretsManagerSecret` that contains the SAP SAE endpoint connection details.

Type: String

Required: No

ServerName

Fully qualified domain name of the endpoint.

Type: String

Required: No

Username

Endpoint connection user name.

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 Java V2
- AWS SDK for Ruby V3

TableStatistics

Provides a collection of table statistics in response to a request by the `DescribeTableStatistics` operation.

Contents

AppliedDdls

The number of data definition language (DDL) statements used to build and modify the structure of your tables applied on the target.

Type: Long

Required: No

AppliedDeletes

The number of delete actions applied on a target table.

Type: Long

Required: No

AppliedInserts

The number of insert actions applied on a target table.

Type: Long

Required: No

AppliedUpdates

The number of update actions applied on a target table.

Type: Long

Required: No

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

FullLoadCondtnlChkFailedRows

The number of rows that failed conditional checks during the full load operation (valid only for migrations where DynamoDB is the target).

Type: Long

Required: No

FullLoadEndTime

The time when the full load operation completed.

Type: Timestamp

Required: No

FullLoadErrorRows

The number of rows that failed to load during the full load operation (valid only for migrations where DynamoDB is the target).

Type: Long

Required: No

FullLoadReloaded

A value that indicates if the table was reloaded (`true`) or loaded as part of a new full load operation (`false`).

Type: Boolean

Required: No

FullLoadRows

The number of rows added during the full load operation.

Type: Long

Required: No

FullLoadStartTime

The time when the full load operation started.

Type: Timestamp

Required: No

Inserts

The number of insert actions performed on a table.

Type: Long

Required: No

LastUpdateTime

The last time a 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 tables described.

Valid states: Table does not exist | Before load | Full load | Table completed | Table cancelled | Table error | Table is being reloaded

Type: String

Required: No

Updates

The number of update actions performed on a table.

Type: Long

Required: No

ValidationFailedRecords

The number of records that failed validation.

Type: Long

Required: No

ValidationPendingRecords

The number of records that have yet to be validated.

Type: Long

Required: No

ValidationState

The validation state of the table.

This parameter can have the following values:

- Not enabled – Validation isn't enabled for the table in the migration task.
- Pending records – Some records in the table are waiting for validation.
- Mismatched records – Some records in the table don't match between the source and target.
- Suspended records – Some records in the table couldn't be validated.
- No primary key –The table couldn't be validated because it has no primary key.
- Table error – The table wasn't validated because it's in an error state and some data wasn't migrated.

- Validated – All rows in the table are validated. If the table is updated, the status can change from Validated.
- Error – The table couldn't be validated because of an unexpected error.
- Pending validation – The table is waiting validation.
- Preparing table – Preparing the table enabled in the migration task for validation.
- Pending revalidation – All rows in the table are pending validation after the table was updated.

Type: String

Required: No

ValidationStateDetails

Additional details about the state of validation.

Type: String

Required: No

ValidationSuspendedRecords

The number of records that couldn't be validated.

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 Java V2
- AWS SDK for Ruby V3

TableToReload

Provides the name of the schema and table to be reloaded.

Contents

SchemaName

The schema name of the table to be reloaded.

Type: String

Required: Yes

TableName

The table name of the table to be reloaded.

Type: String

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Tag

A user-defined key-value pair that describes metadata added to an AWS DMS resource and that is used by operations such as the following:

- `AddTagsToResource`
- `ListTagsForResource`
- `RemoveTagsFromResource`

Contents

Key

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

Type: String

Required: No

ResourceArn

The Amazon Resource Name (ARN) string that uniquely identifies the resource for which the tag is created.

Type: String

Required: No

Value

A value is the optional value of the tag. The string value can be 1-256 Unicode characters in length and can't be prefixed with "aws:" or "dms:". The string can only contain only the set of Unicode letters, digits, white-space, '_', '.', '/', '=', '+', '-' (Java regular expressions: "^([\\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 Java V2
- AWS SDK for Ruby V3

TimestreamSettings

Provides information that defines an Amazon Timestream endpoint.

Contents

DatabaseName

Database name for the endpoint.

Type: String

Required: Yes

MagneticDuration

Set this attribute to specify the default magnetic duration applied to the Amazon Timestream tables in days. This is the number of days that records remain in magnetic store before being discarded. For more information, see Storage in the Amazon Timestream Developer Guide.

Type: Integer

Required: Yes

MemoryDuration

Set this attribute to specify the length of time to store all of the tables in memory that are migrated into Amazon Timestream from the source database. Time is measured in units of hours. When Timestream data comes in, it first resides in memory for the specified duration, which allows quick access to it.

Type: Integer

Required: Yes

CdcInsertsAndUpdates

Set this attribute to `true` to specify that AWS DMS only applies inserts and updates, and not deletes. Amazon Timestream does not allow deleting records, so if this value is `false`, AWS DMS nulls out the corresponding record in the Timestream database rather than deleting it.

Type: Boolean

Required: No

EnableMagneticStoreWrites

Set this attribute to `true` to enable memory store writes. When this value is `false`, AWS DMS does not write records that are older in days than the value specified in `MagneticDuration`, because Amazon Timestream does not allow memory writes by default. For more information, see Storage in the Amazon Timestream Developer Guide.

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 Java V2
- AWS SDK for Ruby V3

VpcSecurityGroupMembership

Describes the status of a security group associated with the virtual private cloud (VPC) hosting your replication and DB instances.

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 Java V2
- AWS SDK for Ruby V3

Common Parameters

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

Action

The action to be performed.

Type: string

Required: Yes

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

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

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400