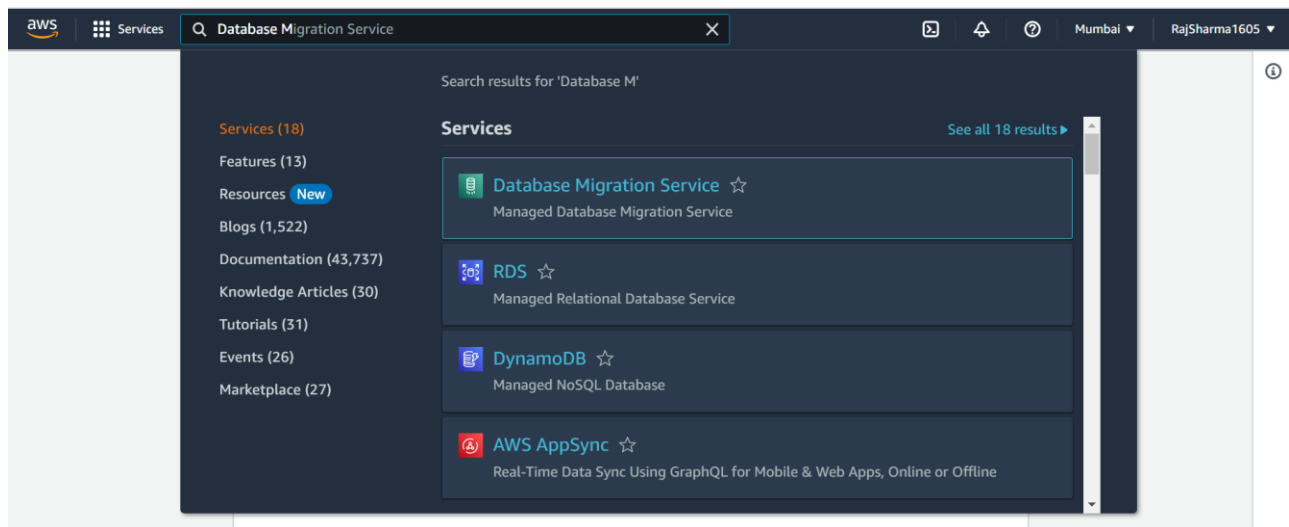


Migrate to Amazon RDS

Submitted by : Raj Sharma (RA2011028010055)

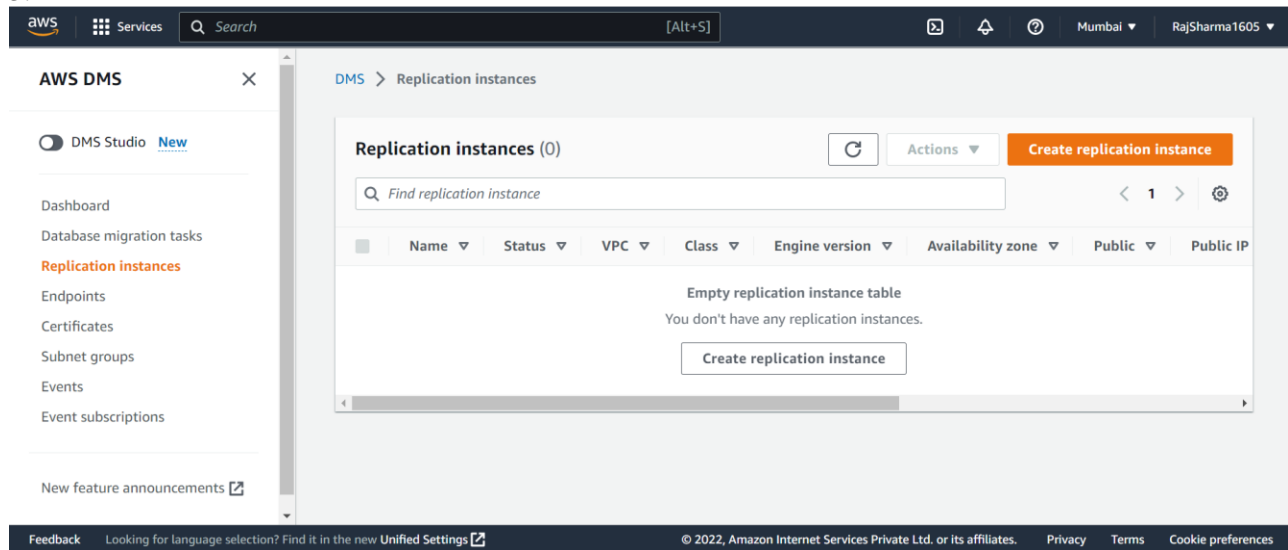
PROCEDURE:

1.
Login to your AWS account
- 2.



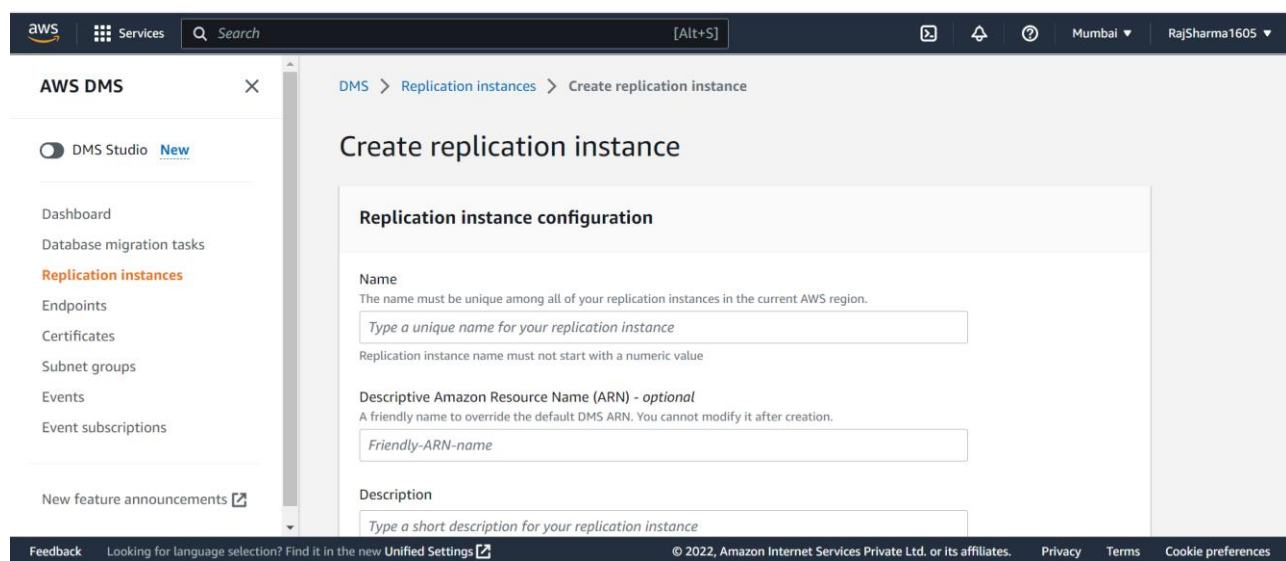
Search for DATABASE MANAGEMENT SERVICE

3.



Open REPLICATION INSTANCES

4.



Click on CREATE REPLICATION INSTANCE

5.

aws

Services

Search

[Alt+S]

Mumbai

RajSharma1605

AWS DMS

DMS Studio New

Dashboard

Database migration tasks

Replication instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

New feature announcements

Replication instance configuration

Name

The name must be unique among all of your replication instances in the current AWS region.

awsaltibaalti

Replication instance name must not start with a numeric value

Descriptive Amazon Resource Name (ARN) - optional

A friendly name to override the default DMS ARN. You cannot modify it after creation.

Friendly-ARN-name

Description

I2#4%6

The description must only have unicode letters, digits, whitespace, or one of these symbols: _:/=+@. 1000 maximum character.

Instance class Info

Choose an appropriate instance class for your replication needs. Each instance class provides differing levels of [compute, network, and storage capacity.](#)

Feedback

Looking for language selection? Find it in the new [Unified Settings](#)

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Enter your replication instance NAME,

DESCRIPTION

6.

compute, network and memory capacity. [DMS pricing](#)

dms.t3.medium
2 vCPUs 4 GiB Memory

☐ Include previous-generation instance classes

Engine version
Choose an AWS DMS version to run on your replication instance. [DMS versions](#)

3.4.7

☐ Include Beta DMS versions

Upgrades to versions 3.4.7 and higher

Upgrades to AWS DMS versions 3.4.7 and higher require that you configure AWS DMS to use VPC endpoints or use public routes. This requirement applies to source and target endpoints for S3, Kinesis, Secrets Manager, DynamoDB, Amazon Redshift, and OpenSearch Service. [Learn more](#)

[View endpoints](#)

Allocated storage (GiB) [Info](#)
Choose the amount of storage space you want for your replication instance. AWS DMS uses this storage for log files and cached transactions while replication tasks are in progress.

Feedback Looking for language selection? Find it in the new [Unified Settings](#) © 2022, Amazon Internet Services Private Ltd. or its affiliates. Privacy Terms Cookie preferences

Dev or test workload (Single-AZ)

☒ **Publicly accessible**
If you choose this option, AWS DMS will assign a public IP address to your replication instance, and you'll be able to connect to databases outside of your Amazon VPC.

► **Advanced security and network configuration**

► **Maintenance**

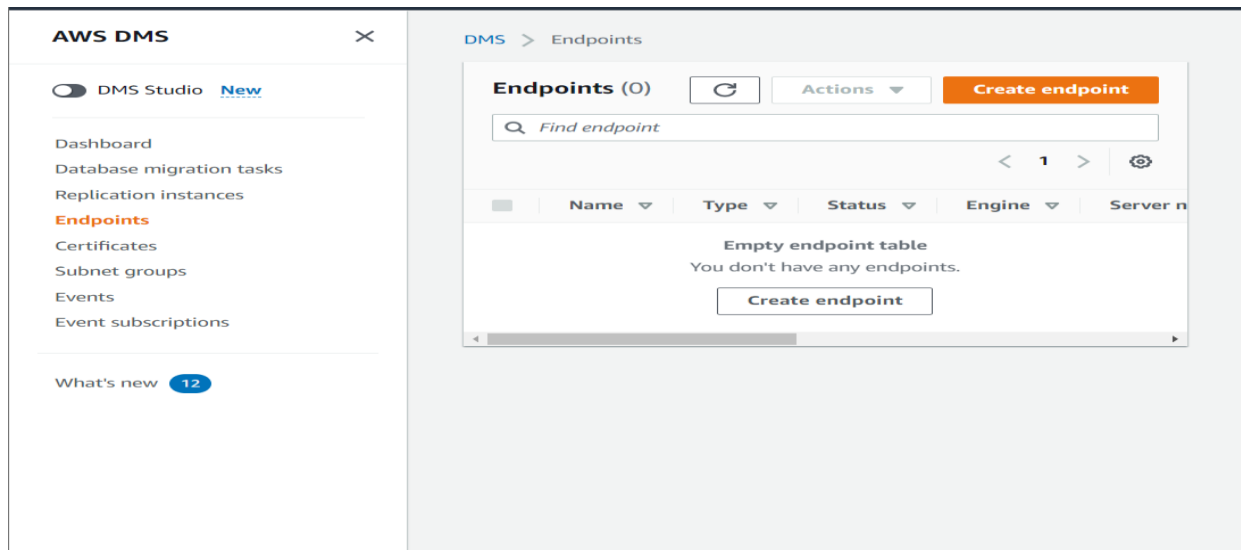
► **Tags**

DMS requires access permissions to manage your VPC resources. By clicking Create replication instance, you grant permission for DMS to create a role that has this access.

Feedback Looking for language selection? Find it in the new [Unified Settings](#) © 2022, Amazon Internet Services Private Ltd. or its affiliates. Privacy Terms Cookie preferences

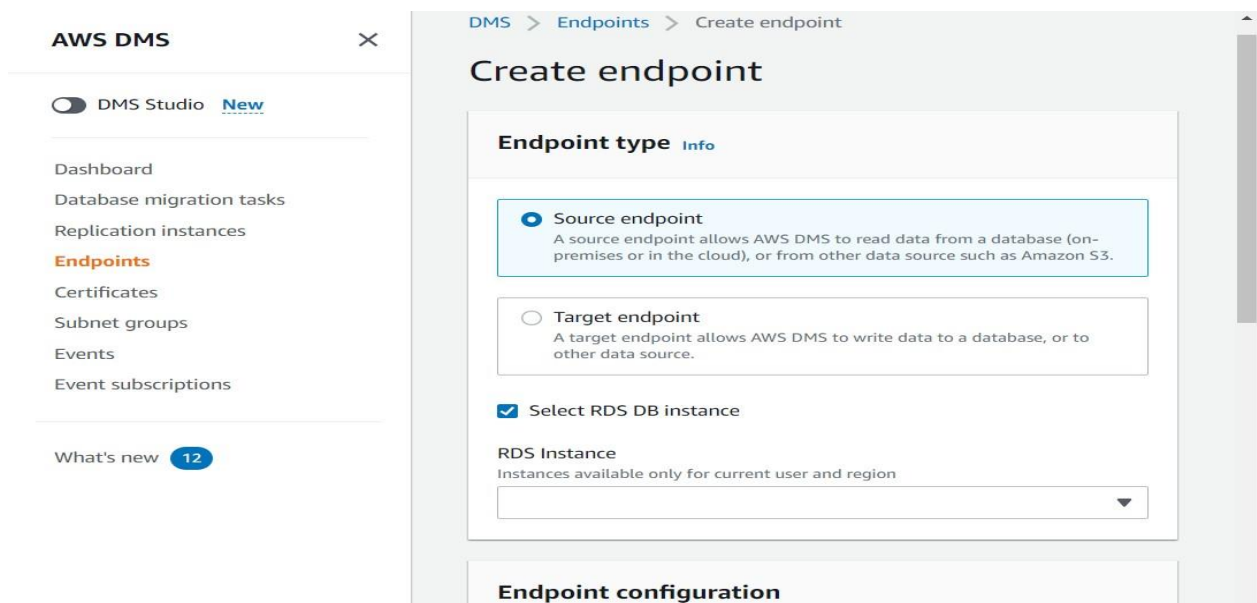
Give the required details and click CREATE

7.



From the console choose ENDPOINTS and create endpoint

8.



Select the ENDPOINT TYPE

9.

AWS DMS

×

Dashboard

Database migration tasks

Replication instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

What's new 12

Notifications

Instances available only for current user and region

source-database

Endpoint configuration

Endpoint identifier [Info](#)

A label for the endpoint to help you identify it.

source-database

Descriptive Amazon Resource Name (ARN) - optional

A friendly name to override the default DMS ARN. You cannot modify it after creation.

source-db

Source engine

The type of database engine this endpoint is connected to.

MySQL

Access to endpoint database

☒ Choose AWS Secrets Manager

☐ Provide access information manually

Secret ID

Amazon Resource Name (ARN) of the secret used to manage access to your endpoint database. If you need a new secret ARN, create it from

AWS DMS

×

Dashboard

Database migration tasks

Replication instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

What's new 12

Notifications

source-db

Source engine

The type of database engine this endpoint is connected to.

MySQL

Access to endpoint database

☐ Choose AWS Secrets Manager

☒ Provide access information manually

Server name

source-database.c39ashxumfg.us-west-1.rds.amazonaws.com

Port

The port the database runs on for this endpoint.

3306

Secure Socket Layer (SSL) mode

The type of Secure Socket Layer enforcement

none

User name [Info](#)

admin

Password [Info](#)

▶ Endpoint settings

AWS DMS

×

Dashboard

Database migration tasks

Replication instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

What's new 12

Notifications

source-database.c39ashxumfg.us-west-1.rds.amazonaws.com

Port

The port the database runs on for this endpoint.

3306

Secure Socket Layer (SSL) mode

The type of Secure Socket Layer enforcement

none

User name [Info](#)

admin

Password [Info](#)

▼ Endpoint settings

Define additional specific settings for your endpoints using wizard or editor. [Learn more](#)

☒ Wizard

Enter endpoint settings using the guided user interface.

☐ Editor

Enter endpoint settings in JSON format.

Endpoint settings

Add new setting

☐ Use endpoint connection attributes

AWS DMS ✕

- Dashboard
- Database migration tasks
- Replication instances
- Endpoints**
- Certificates
- Subnet groups
- Events
- Event subscriptions
- What's new **12**
- Notifications

☐ Use endpoint connection attributes

▼ **KMS master key**

KMS master key [Info](#)

(Default) aws/dms ▼

Account
-

Description
-

Key ARN
-

► **Tags**

Give the required information

10.

▼ **Test endpoint connection (optional)**

VPC
vpc- ▼

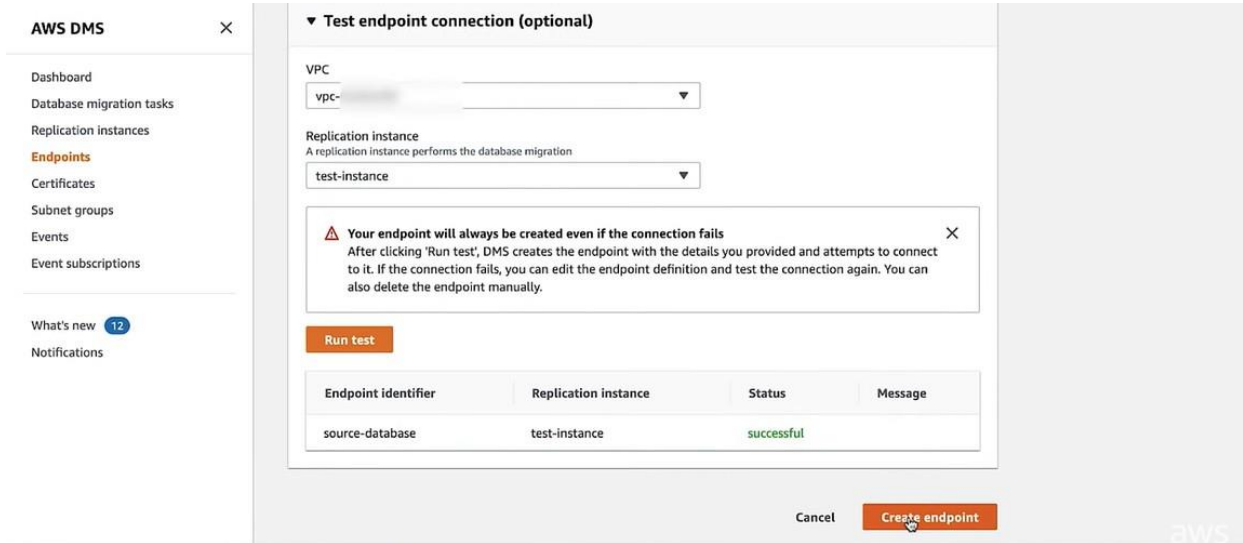
Replication instance
A replication instance performs the database migration
test-instance ▼

⚠ **Your endpoint will always be created even if the connection fails** ✕
After clicking 'Run test', DMS creates the endpoint with the details you provided and attempts to connect to it. If the connection fails, you can edit the endpoint definition and test the connection again. You can also delete the endpoint manually.

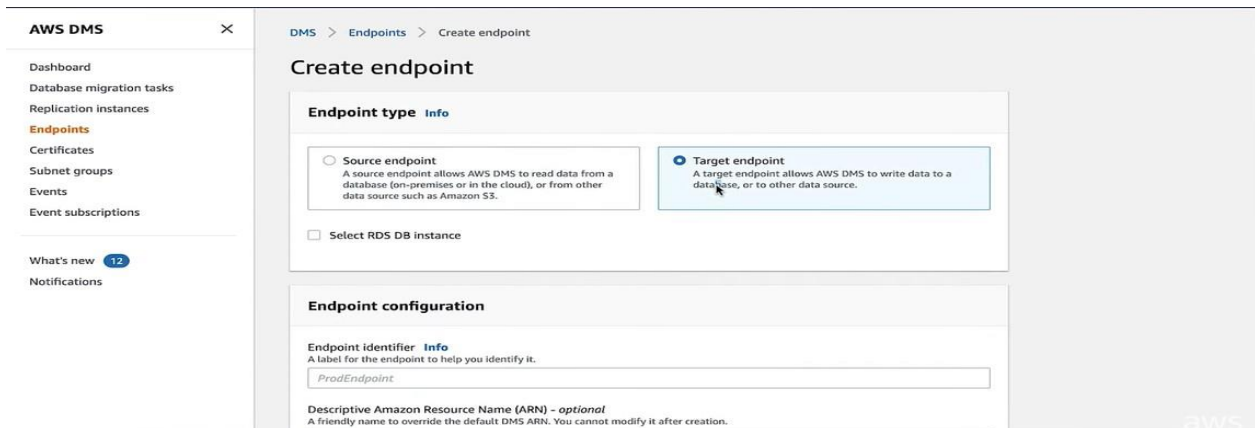
Run test

Endpoint identifier	Replication instance	Status	Message
No records found			

Choose RUN TEST button and when the status is successful click on CREATE ENDPOINT

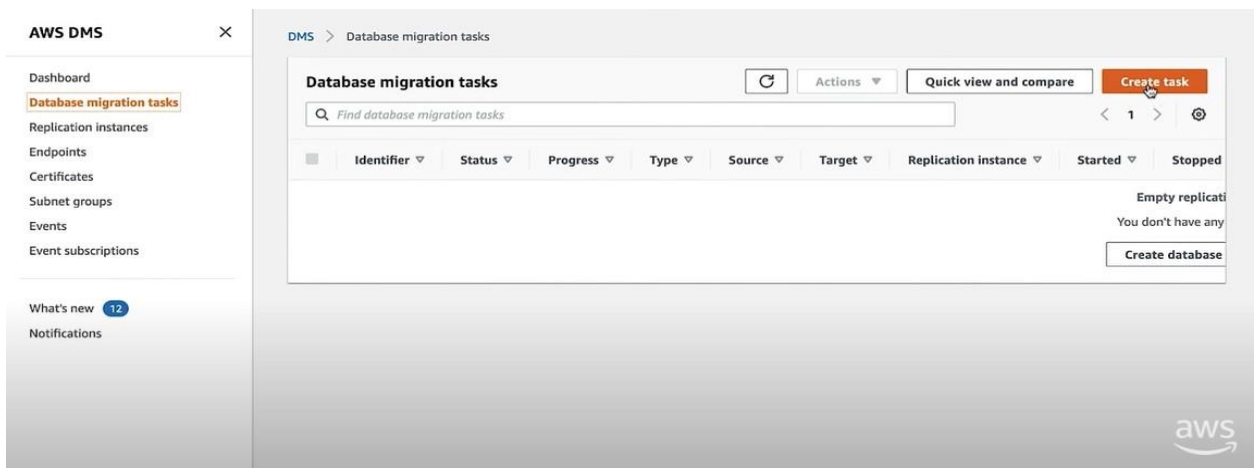


11.



Repeat the above steps to create an instance but this ENDPOINT TYPE is Target endpoint

12.



Choose the DATABASE MIGRATION TASKS on the console and choose CREATE TASK

13.

The screenshot shows the AWS DMS console interface. On the left is a navigation sidebar with 'Database migration tasks' highlighted. The main panel is titled 'Create database migration task' and contains a 'Task configuration' section. This section includes input fields for 'Task identifier' (containing 'test-task') and 'Descriptive Amazon Resource Name (ARN)' (containing 'test'). Below these are three dropdown menus for 'Replication instance', 'Source database endpoint', and 'Target database endpoint', each with a 'Choose a...' prompt. The AWS logo is in the bottom right corner.

Create the task by giving required details

14.

This screenshot is a close-up of the 'Migration type' dropdown menu within the AWS DMS console. The menu is open, showing four options: 'Migrate existing data' (which is highlighted with a blue bar and a mouse cursor), 'Migrate existing data and replicate ongoing changes', 'Replicate data changes only', and 'database schema and code to the engine of your choice. Click here to find out more. Learn more'. The 'Source database endpoint' and 'Target database endpoint' dropdowns are visible above this menu, showing 'source-database' and 'target-database' respectively. The AWS logo is in the bottom right corner.

Click on Migrate existing data for one time migration and in task setting update the fields as required.

15.

AWS DMS

Dashboard
Database migration tasks
 Replication instances
 Endpoints
 Certificates
 Subnet groups
 Events
 Event subscriptions

What's new **12**
 Notifications

Premigration assessment Info
 A premigration assessment warns you of potential migration issues before starting your migration task. Premigration assessments generally have minimal impact on your databases and take minimal time to run.

☐ Enable premigration assessment run

Migration task startup configuration

Start migration task

☐ Automatically on create
Available only if the premigration assessment is not enabled.

☒ Manually later

► **Tags**

Cancel Create task

After giving the required details choose create task.

16.

AWS DMS

Dashboard
Database migration tasks
 Replication instances
 Endpoints
 Certificates
 Subnet groups
 Events
 Event subscriptions

What's new **12**
 Notifications

DMS > Database migration tasks

Database migration tasks (1)

Find database migration tasks

Quick view and compare Create task

Identifier	Status	Progress	Type	Source	Target	Replication instance	Started
test-task	Running	100%	Full load	source-database	target-database	test-instance	September 23, 2021, 12:37:42 (UTC-07:00)

Run the task.

17.

AWS DMS

Dashboard
Database migration tasks
 Replication instances
 Endpoints
 Certificates
 Subnet groups
 Events
 Event subscriptions

What's new **12**
 Notifications

test-task

Summary

Status: Load complete Type: Full load Source: source-database Target: target-database

Overview details **Table statistics** CloudWatch metrics Mapping rules Premigration assessments Tags

Table statistics (1)

Total rows include loaded source table rows from Inserts, Deletes, Updates, DDLs, and Full load rows.

Find schema

Validation pending	Validation failed	Validation suspended	Validation details	Last updated
0	0	0		September 23, 2021, 12:37:42 (UTC-07:00)

Click on the task and click TABLE STATISTICS to view the successfully completed tasks.