

Experiment: 8

Title : Migrate to Amazon RDS

Name: Vaibhav Jain

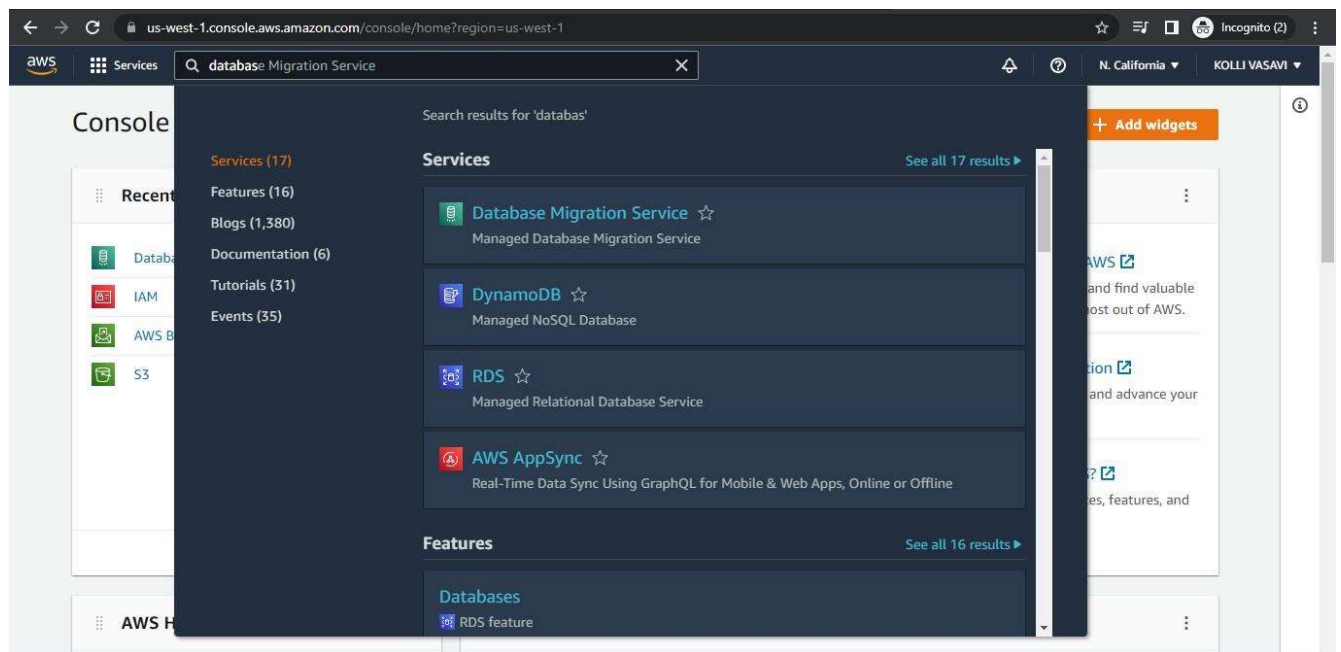
Reg. No.: RA2011028010103

1.

Login to your AWS account.

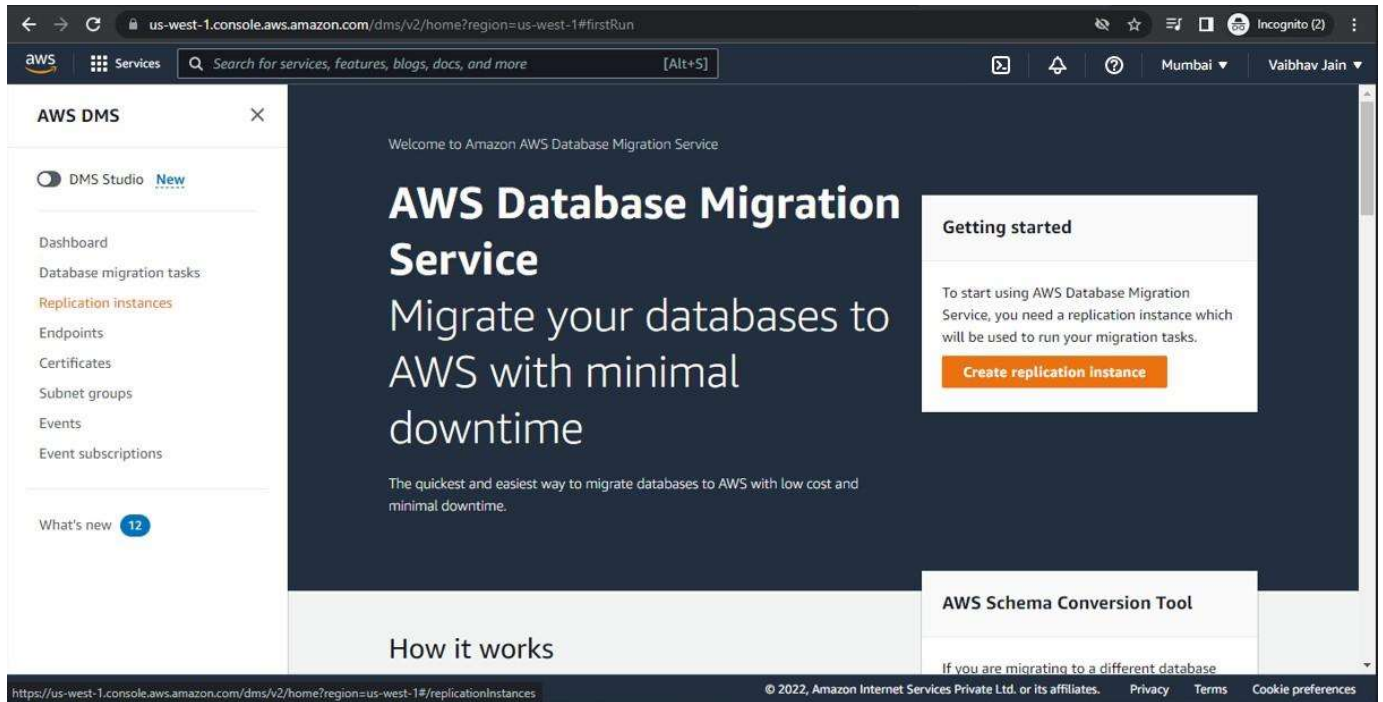
2.

Search for DATABASE MANAGEMENT SERVICE



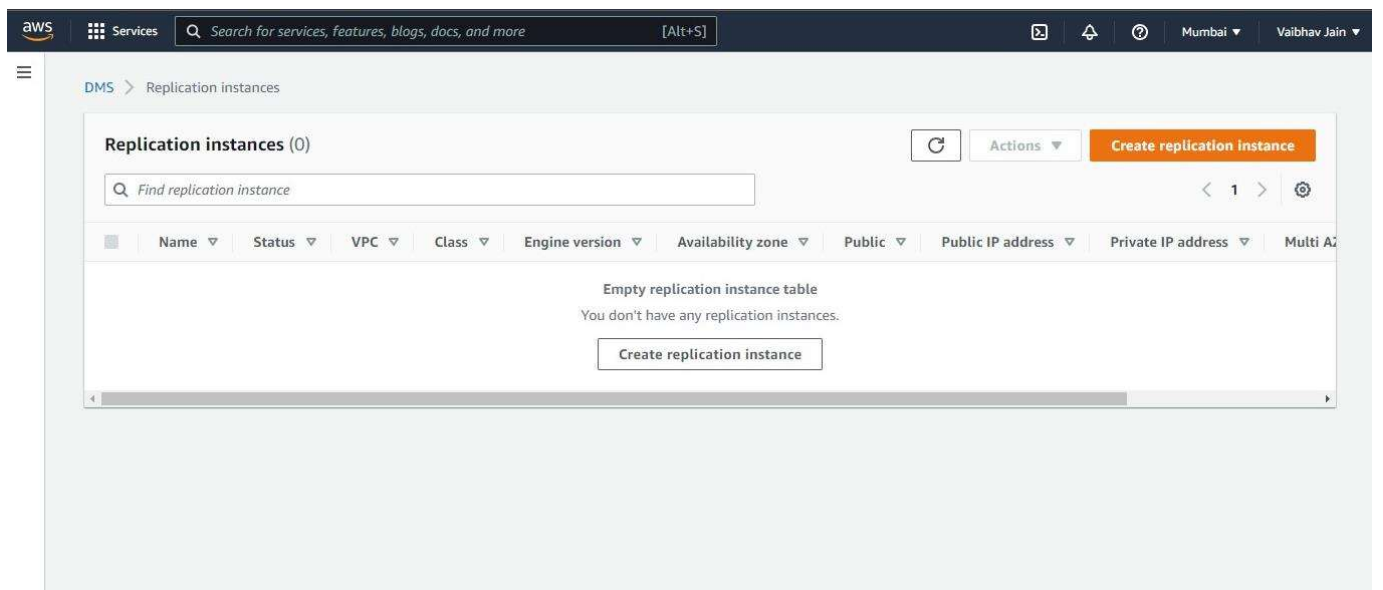
3.

Open REPLICATION INSTANCES



4.

Click on CREATE REPLICATION INSTANCE



5.

Enter your replication instance NAME, DESCRIPTION

The screenshot shows the AWS Management Console interface for creating a replication instance. The breadcrumb navigation indicates the path: DMS > Replication instances > Create replication instance. The main heading is 'Create replication instance'. Below this, the 'Replication instance configuration' section is expanded, showing three input fields: 'Name' (containing 'test-instance'), 'Descriptive Amazon Resource Name (ARN) - optional' (containing 'test-instance'), and 'Description' (containing 'test DMS replication instance'). The 'Instance class' section is partially visible at the bottom, showing a dropdown menu.

6.

Give the required details and click CREATE

The screenshot shows the AWS Management Console interface for creating a replication instance. The breadcrumb navigation indicates the path: DMS > Replication instances > Create replication instance. The main heading is 'Create replication instance'. Below this, the 'Instance class' section is expanded, showing a dropdown menu for 'dms.t3.medium'. The 'Engine version' section is visible, showing a dropdown menu for '3.4.7'. The 'Allocated storage (GiB)' section is visible, showing a dropdown menu for '20'. A 'View endpoints' button is also visible.

aws

Services

Search for services, features, blogs, docs, and more

[Alt+S]

Mumbai

Vaibhav Jain

VPC security group(s)

Choose one or more security groups for your replication instances. The security group(s) specify inbound and outbound rules to control network access to your replication instance.

Use default

default

KMS key

Info

(Default) aws/dms

Maintenance

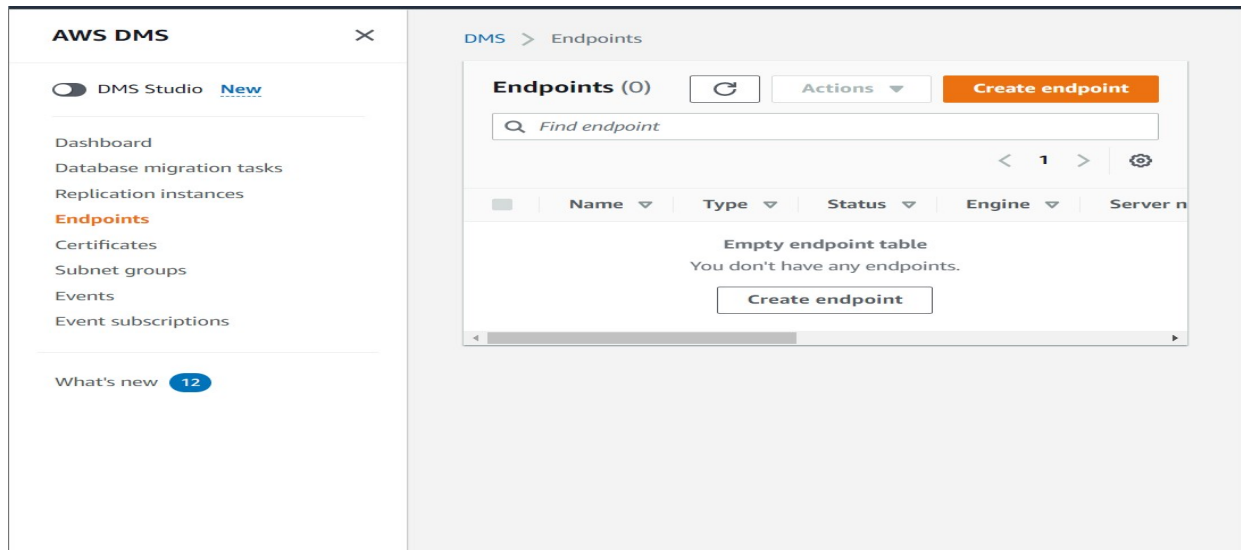
Tags

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.

Cancel

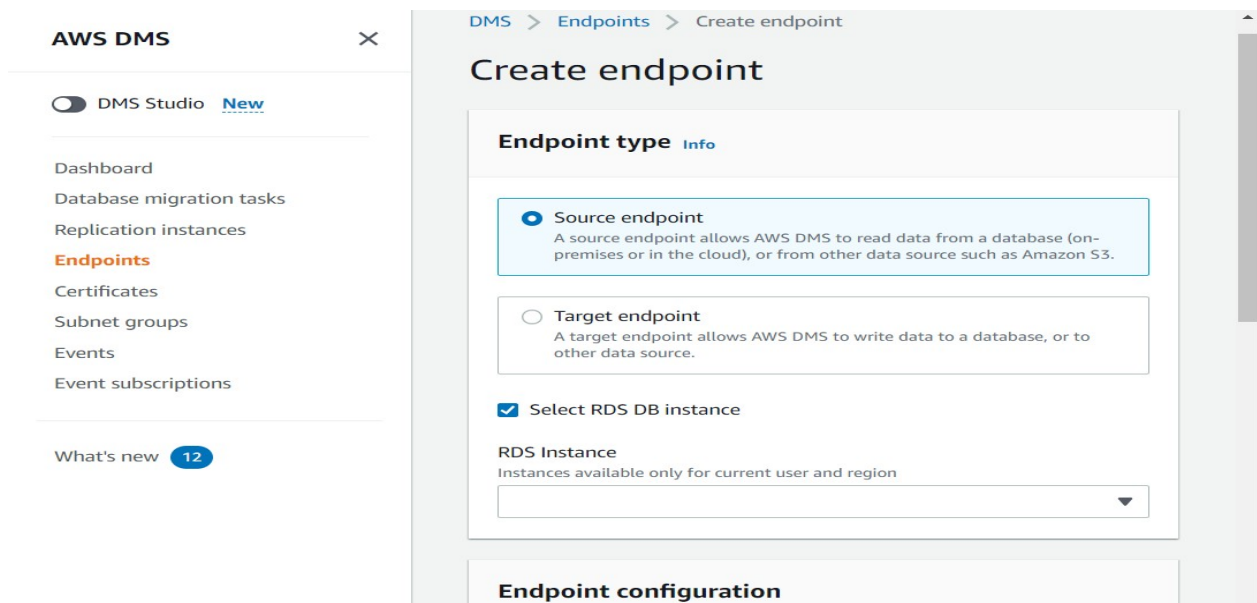
Create

7.



From the console choose ENDPOINTS and create endpoint

8.



Select the ENDPOINT TYPE

9.

AWS DMS

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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

AWS DMS

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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.c39ashxlumfg.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

AWS DMS

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source-database.c39ashxlumfg.us-west-1.rds.amazonaws.com

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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

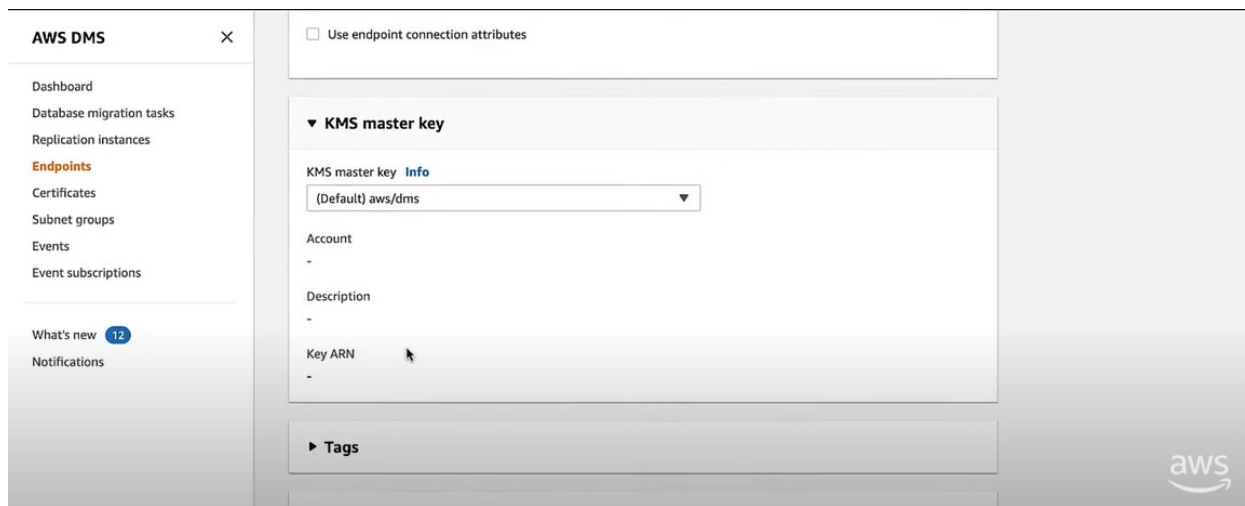
Enter endpoint settings in JSON format.

Endpoint settings

Add new setting

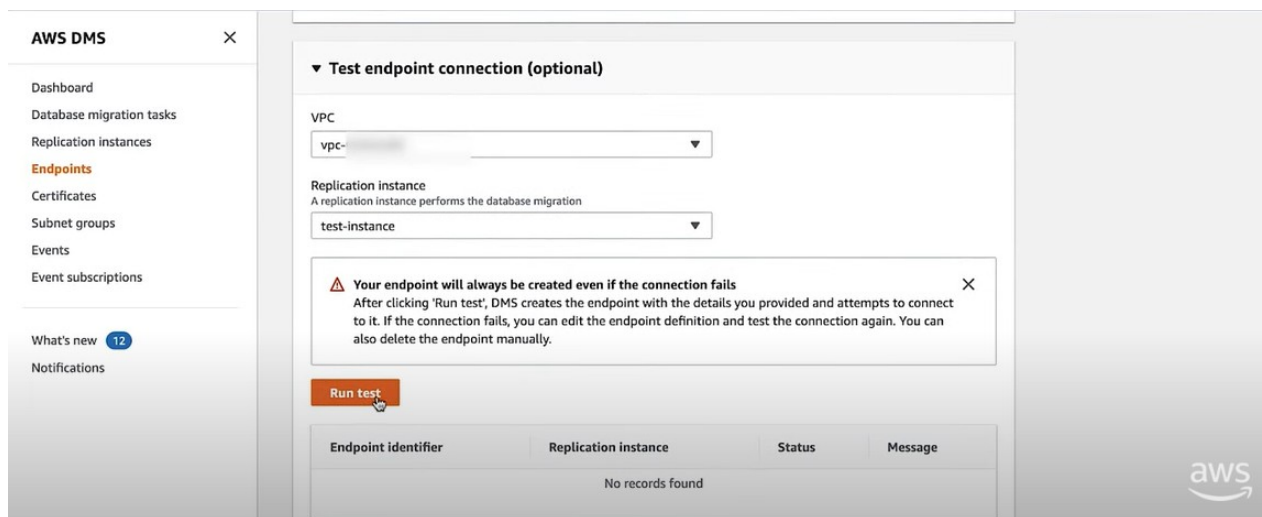
☐ Use endpoint connection attributes

aws

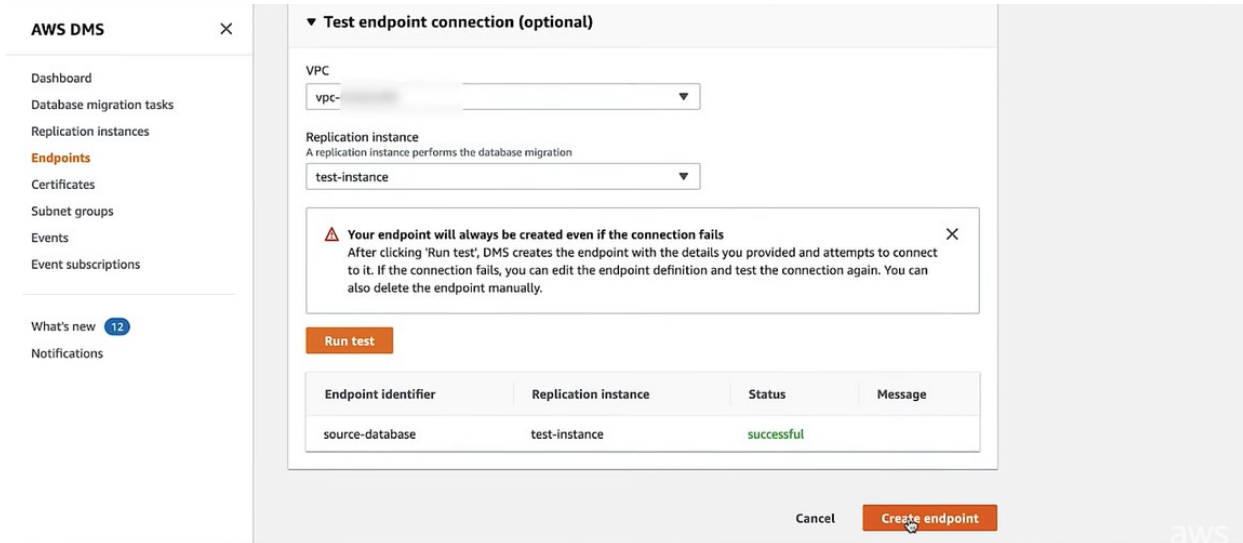


Give the required information

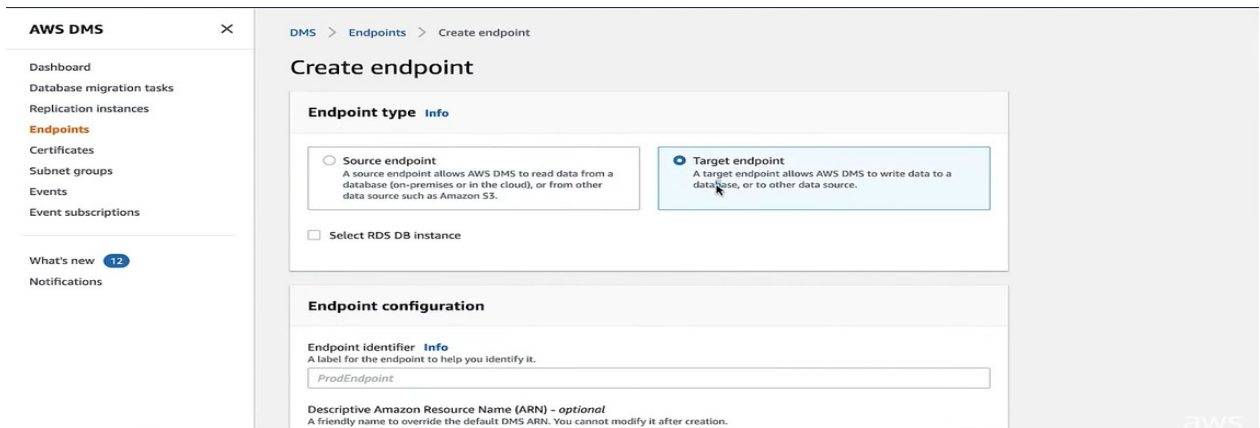
10.



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

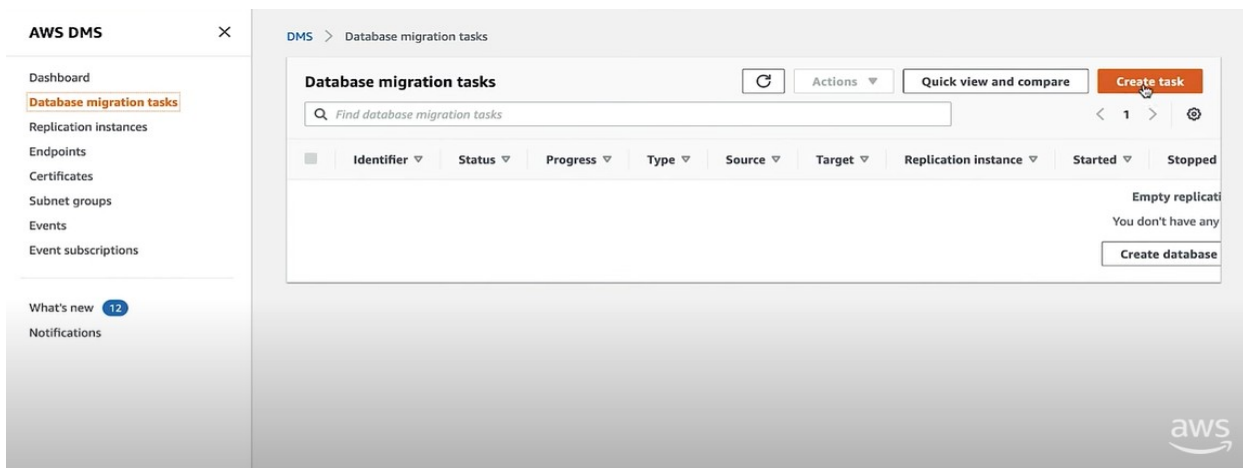


11.



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 the following items: Dashboard, Database migration tasks (highlighted in orange), Replication instances, Endpoints, Certificates, Subnet groups, Events, and Event subscriptions. Below these is a 'What's new' section with a blue badge showing '12' and a 'Notifications' link. The main content area is titled 'Create database migration task' and contains a 'Task configuration' section. This section includes a 'Task identifier' text box with 'test-task' entered, a 'Descriptive Amazon Resource Name (ARN) - optional' text box with 'test' entered, and three dropdown menus for 'Replication instance', 'Source database endpoint', and 'Target database endpoint', each with a placeholder text 'Choose a ... instance/endpoint'. The AWS logo is visible 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 background 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, with 'source-database' and 'target-database' selected 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
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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

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What's new **12**
 Notifications

DMS > Database migration tasks

Database migration tasks (1) Actions Quick view and compare Create task

Find database migration tasks

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-05:30)

Run the task.

17.

AWS DMS

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test-task Actions Quick view and compare View logs

Summary

Status Load complete	Type Full load	Source source-database	Target target-database
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Overview details **Table statistics** CloudWatch metrics Mapping rules Premigration assessments Tags

Table statistics (1) Validate again Reload table data

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-05:30)

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