

Experiment # 8

Name: Aarhee Phukan

Reg.No: RA2011028010092

Aim : To migrate data to Amazon RDS

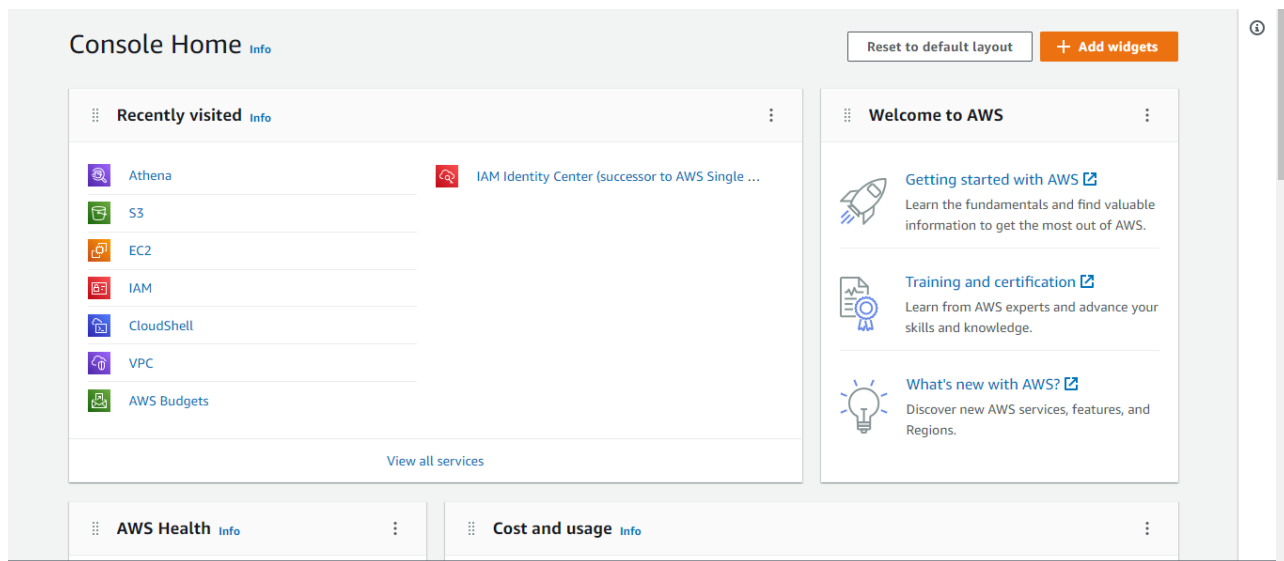
PROCEDURE:

https://aws.amazon.com/free/?trk=09863622-0e2a-4080-9bba-12d378e294ba&sc_channel=ps&sc_campaign=acquisition&sc_medium=ACQ-P|PS-GO|Brand|Desktop|SU|AWS|Core|IN|EN|Text&sc_kwid=AL!4422!3!453325185010!e!!g!!aws%20free&ef_id=Cj0KCQjw_7KXBhCoARIsAPdPTfilj_nDXTj072T5S-3j6qaBSDqVs-6FJI1WtuV8Eo3mdZUwcv5_8aArdoEALw_wcB:G:s&sc_kwid=AL!4422!3!453325185010!e!!g!!aws%20free&all-free-tier.sort-by=item.additionalFields.SortRank&all-free-tier.sort-order=asc&awsf.Free%20Tier%20Types=*all&awsf.Free%20Tier%20Categories=*all

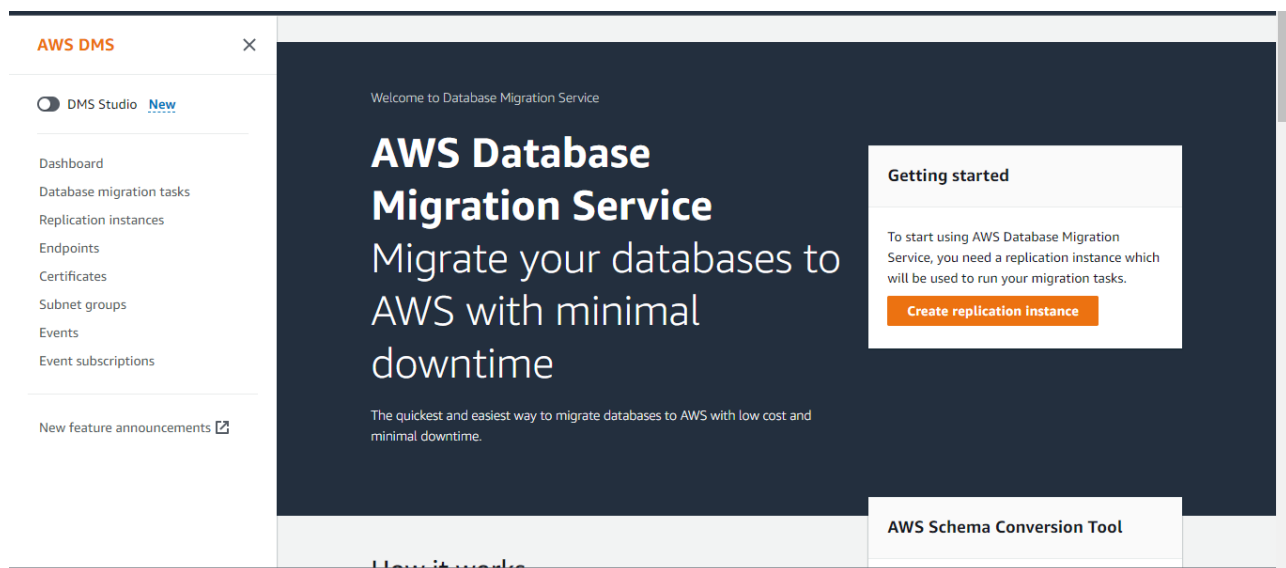
The screenshot shows the AWS Free Tier landing page. At the top, there's a navigation bar with the AWS logo, links for Products, Solutions, Pricing, Documentation, Learn, Partner Network, AWS Marketplace, Customer Enablement, Events, and Explore More. A 'Sign In to the Console' button is on the right. Below the navigation bar, there's a section for 'AWS Free Tier' with links for Overview, FAQs, and Terms and Conditions. The main heading is 'AWS Free Tier' with a subtext 'Gain free, hands-on experience with the AWS platform, products, and services'. There's a link 'Learn more about AWS Free Tier' and a 'Create a Free Account' button. A featured box on the right says 'Startups may be eligible for AWS credits' and mentions 'AWS Activate'. Below this, there's a section titled 'Types Of Offers' with a subtext 'Explore more than 100 products and start building on AWS using the Free Tier. Three different types of free offers are available depending on the product used. Click icon below to explore our offers.' At the bottom right, there's a chatbot icon with a speech bubble saying 'Hi, how can I help you today?' and another icon saying 'I can connect you with an AWS representative or answer questions you have on AWS.'

Login to your AWS account

2.

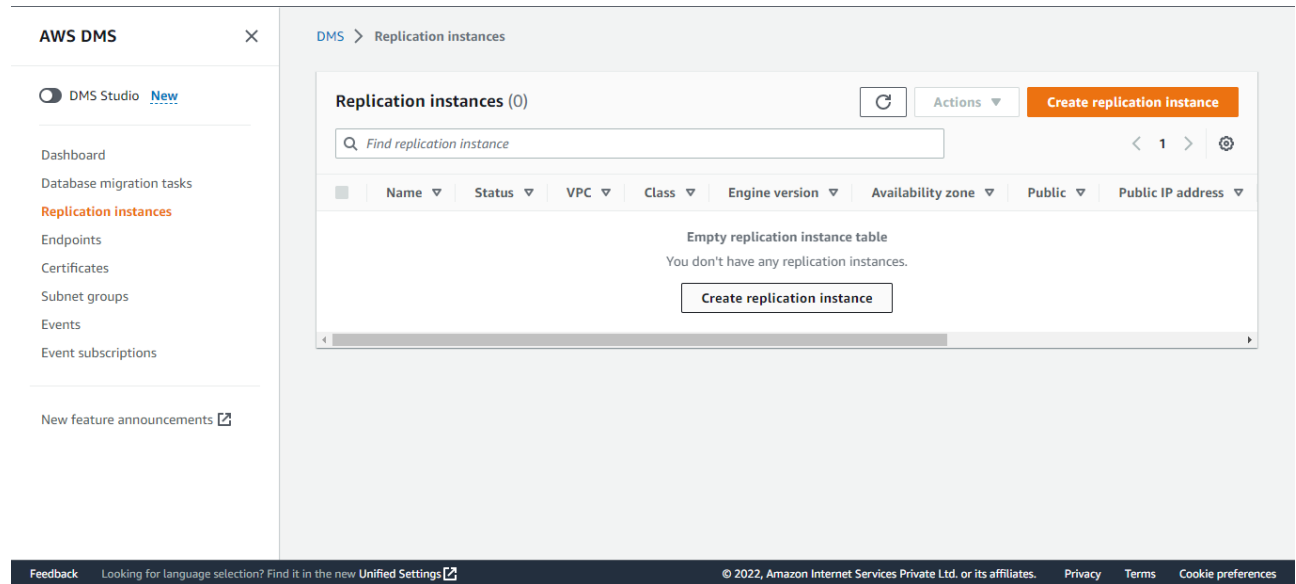


3. Search for DATABASE MANAGEMENT SERVICE



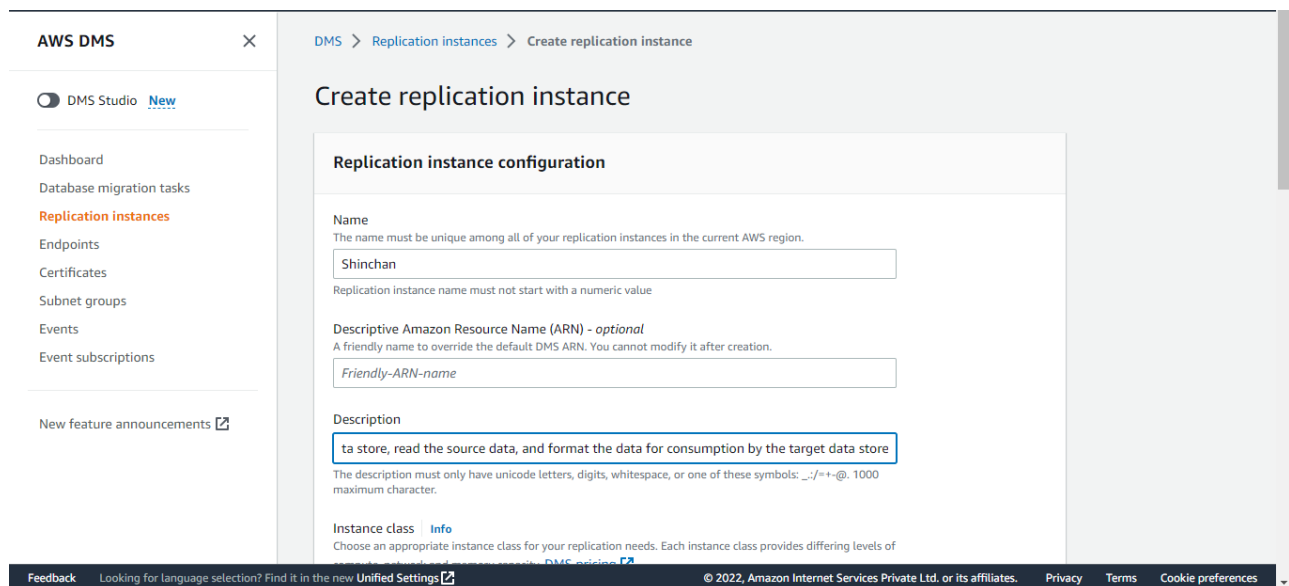
Open REPLICATION INSTANCES

4.



Click on CREATE REPLICATION INSTANCE

5.



Enter your replication instance NAME, DESCRIPTION

6.

AWS DMS

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DMS Studio

New

Dashboard

Database migration tasks

Replication instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

New feature announcements

maximum character.

Instance class

Info

Choose an appropriate instance class for your replication needs. Each instance class provides differing levels of 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.

50

Feedback

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

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New feature announcements

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](#)

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.

50

VPC

Choose an Amazon Virtual Private Cloud (VPC) where your replication instance should run.

vpc-08138762bfb9e804d

▼

Multi AZ

The Multi-AZ option deploys a primary replication instance in one Availability Zone (AZ) and a standby in another AZ. The Single-AZ option deploys a single replication instance in one AZ. Billing is based on DMS pricing.

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

Feedback

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New feature announcements

Availability zone

Choose an availability zone (AZ) where you want your replication instance to run. The default is "No preference", meaning that AWS DMS will determine which AZ to use.

No Preference

▼

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

Feedback

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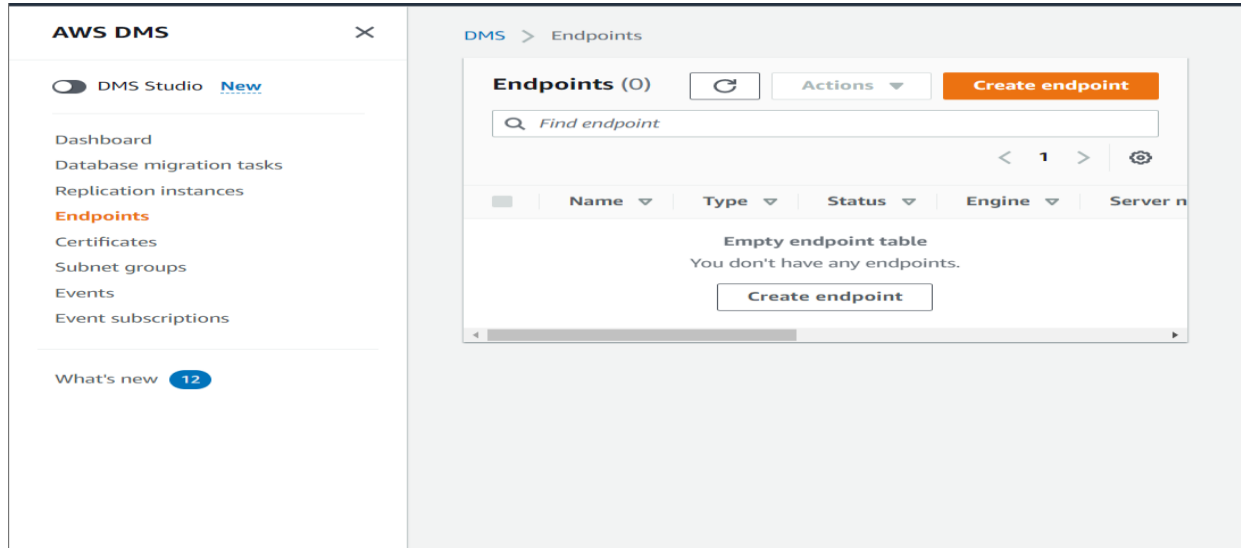
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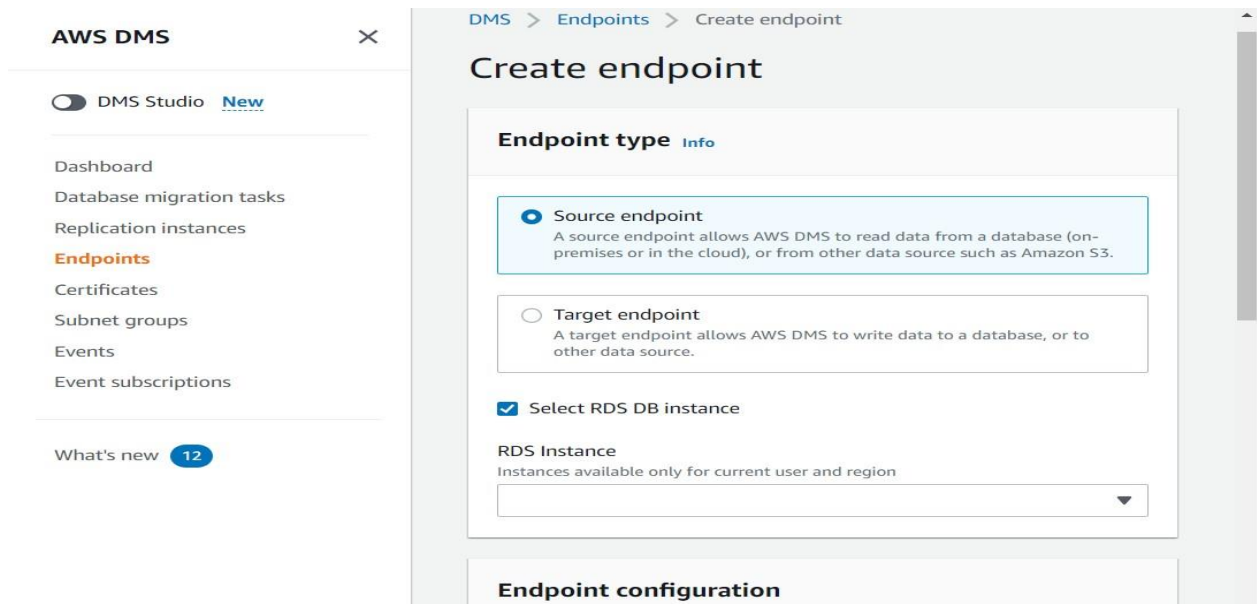
Give the required details and click CREATE

7.



From the console choose ENDPOINTS and create endpoint

8.



Select the ENDPOINT TYPE

9.

AWS DMS

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Dashboard

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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

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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.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 DMS

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Dashboard

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Notifications

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

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

☒ Wizard

Enter endpoint settings using the guided user interface.

☐ Editor

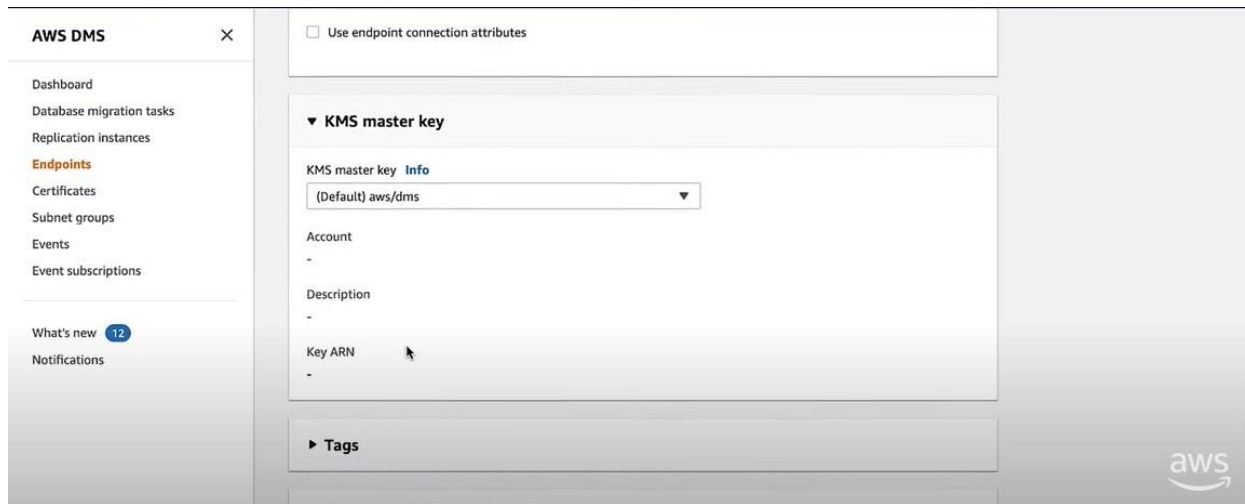
Enter endpoint settings in JSON format.

Endpoint settings

Add new setting

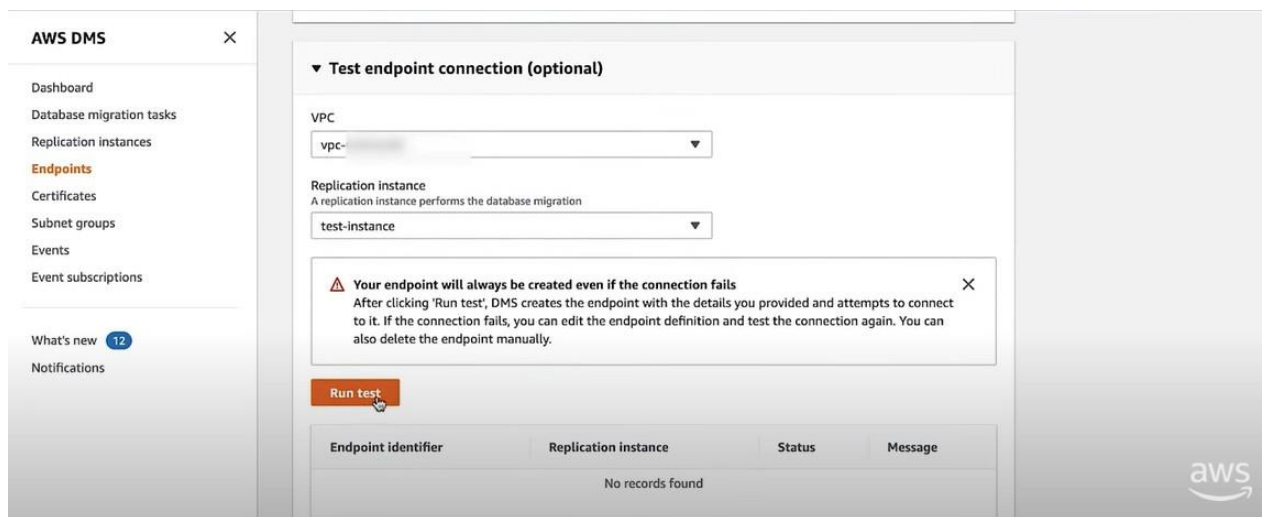
☐ Use endpoint connection attributes



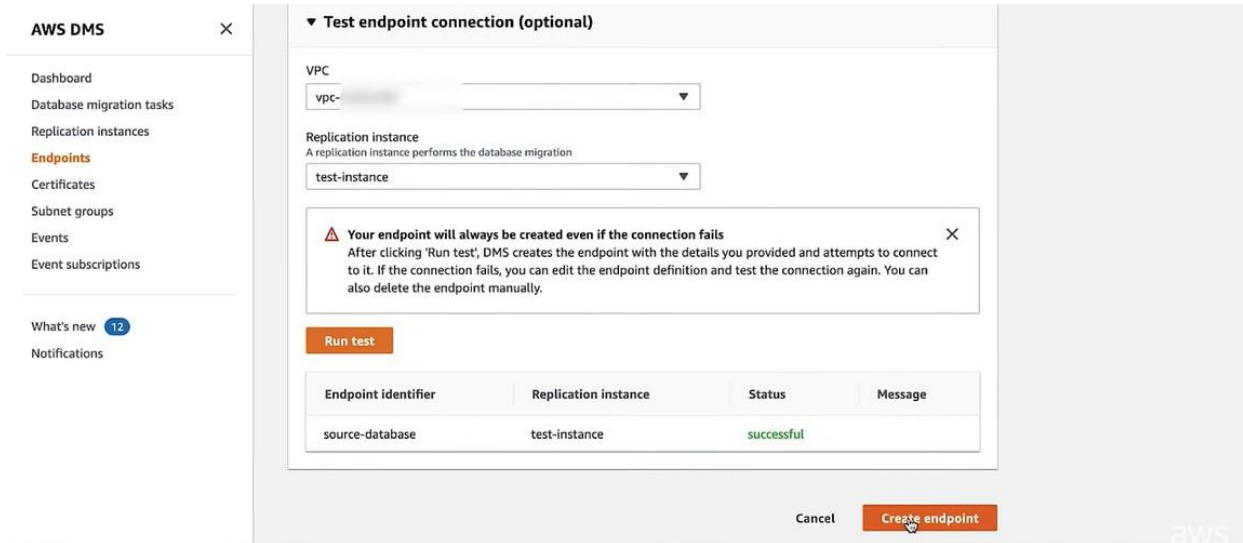


Give the required information

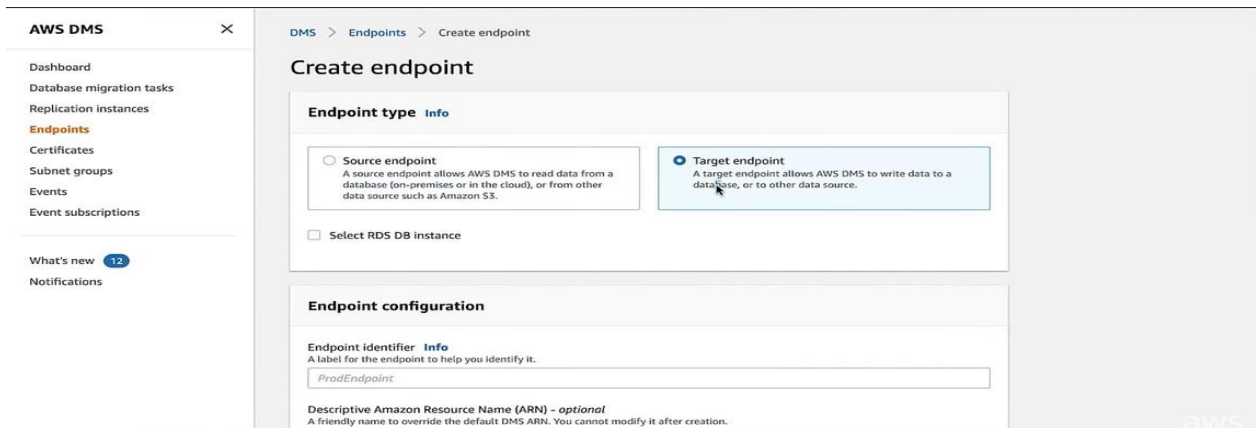
10.



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

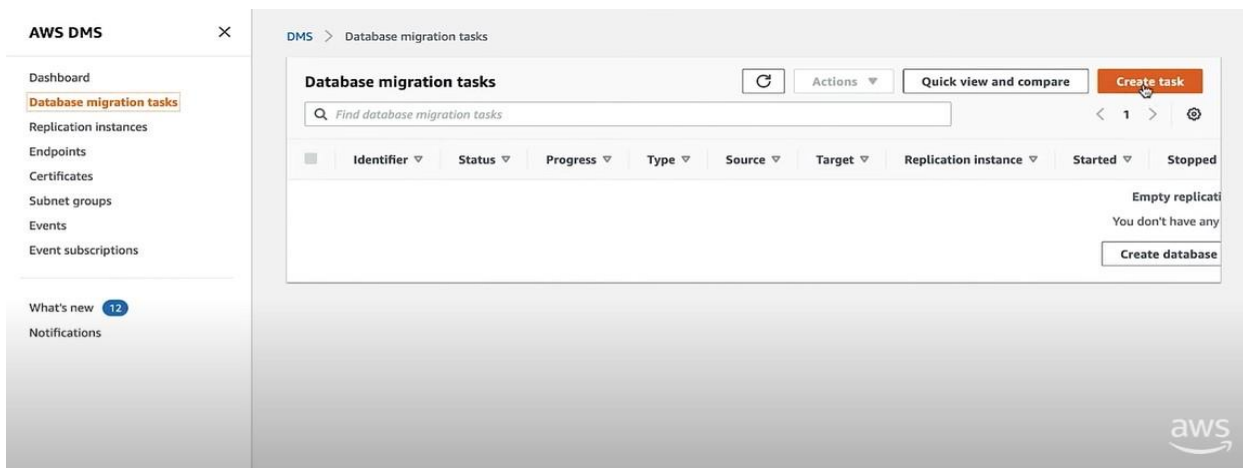


11.



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), Replication instances, Endpoints, Certificates, Subnet groups, Events, and Event subscriptions. Below these is a 'What's new' section with a 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 the following fields: 'Task identifier' with the value 'test-task'; 'Descriptive Amazon Resource Name (ARN) - optional' with the value 'test'; 'Replication instance' with a dropdown menu showing 'Choose a replication instance'; 'Source database endpoint' with a dropdown menu showing 'Choose a source database endpoint'; and 'Target database endpoint' with a dropdown menu showing 'Choose a target database endpoint'. The AWS logo is visible in the bottom right corner.

Create the task by giving required details

14.

This screenshot is a closer view of the 'Task configuration' section from the previous image. The 'Source database endpoint' dropdown is set to 'source-database' and the 'Target database endpoint' dropdown is set to 'target-database'. The 'Migration type' dropdown is open, showing four options: 'Migrate existing data' (which is highlighted), '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 AWS logo is visible 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

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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.

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What's new **12**
 Notifications

DMS > Database migration tasks

Database migration tasks (1)

Find database migration tasks

1

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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What's new **12**
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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-05:30)

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