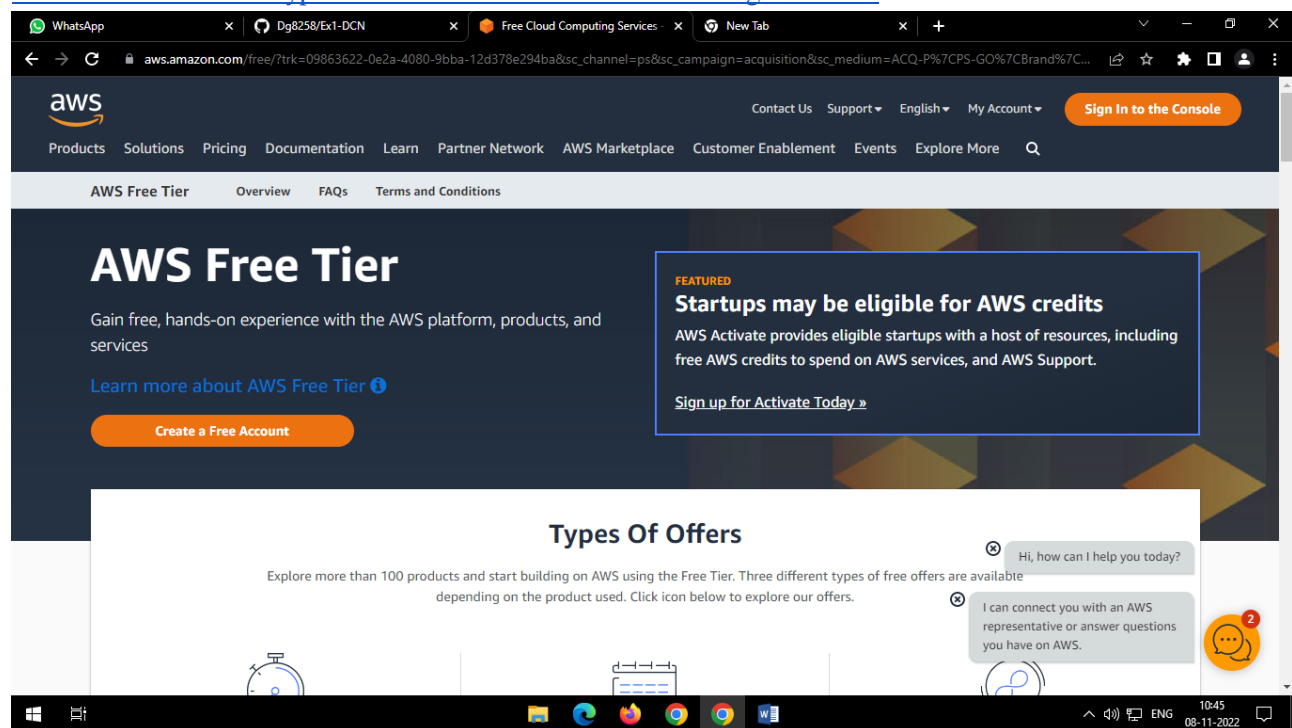


# Migrate to Amazon RDS

Name: Priyanshu Maheshwari  
Roll No.: RA2011028010091

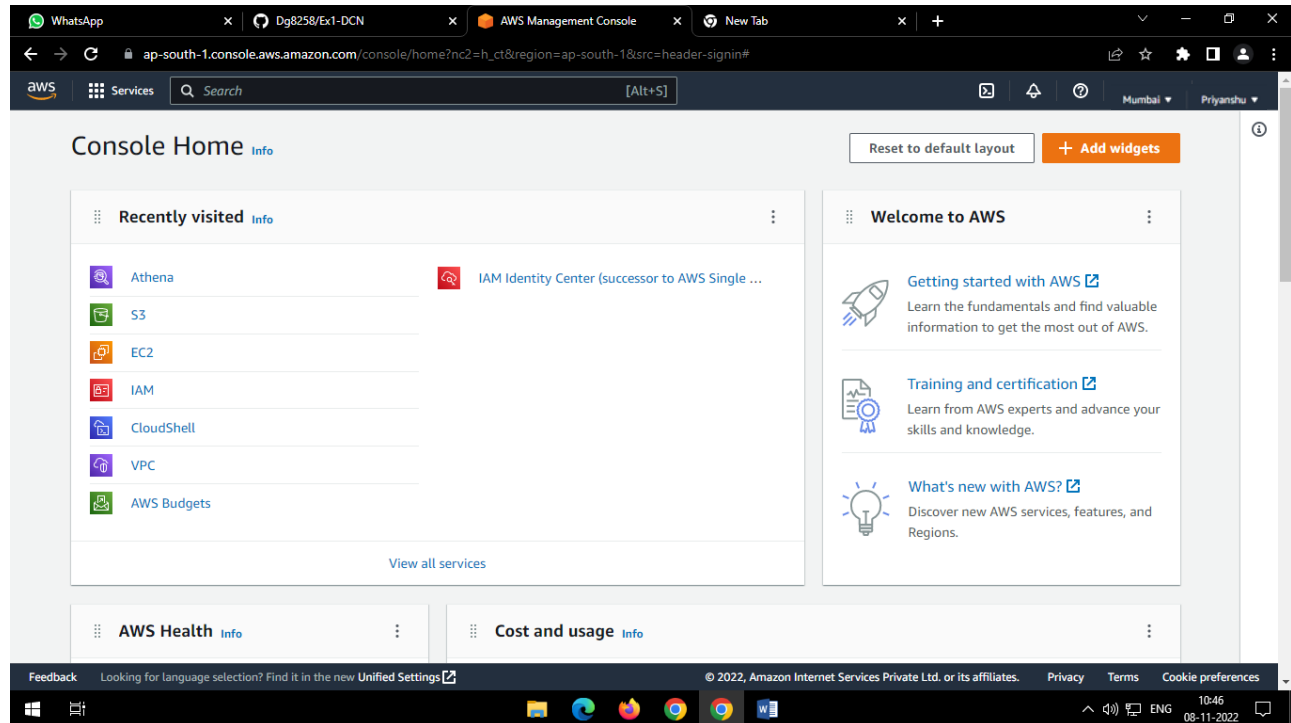
## PROCEDURE:

[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&s\\_kwcid=AL!4422!3!453325185010!e!!g!!aws%20free&ef\\_id=Cj0KCQjw\\_7KXBhCoARIsAPdPTfij\\_nDXTj072T5S-3j6qaBSDqVs-6FJI1WtuV8Eo3mdZUwcv5\\_8aArdoEALw\\_wcB:G:s&s\\_kwcid=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](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&s_kwcid=AL!4422!3!453325185010!e!!g!!aws%20free&ef_id=Cj0KCQjw_7KXBhCoARIsAPdPTfij_nDXTj072T5S-3j6qaBSDqVs-6FJI1WtuV8Eo3mdZUwcv5_8aArdoEALw_wcB:G:s&s_kwcid=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)

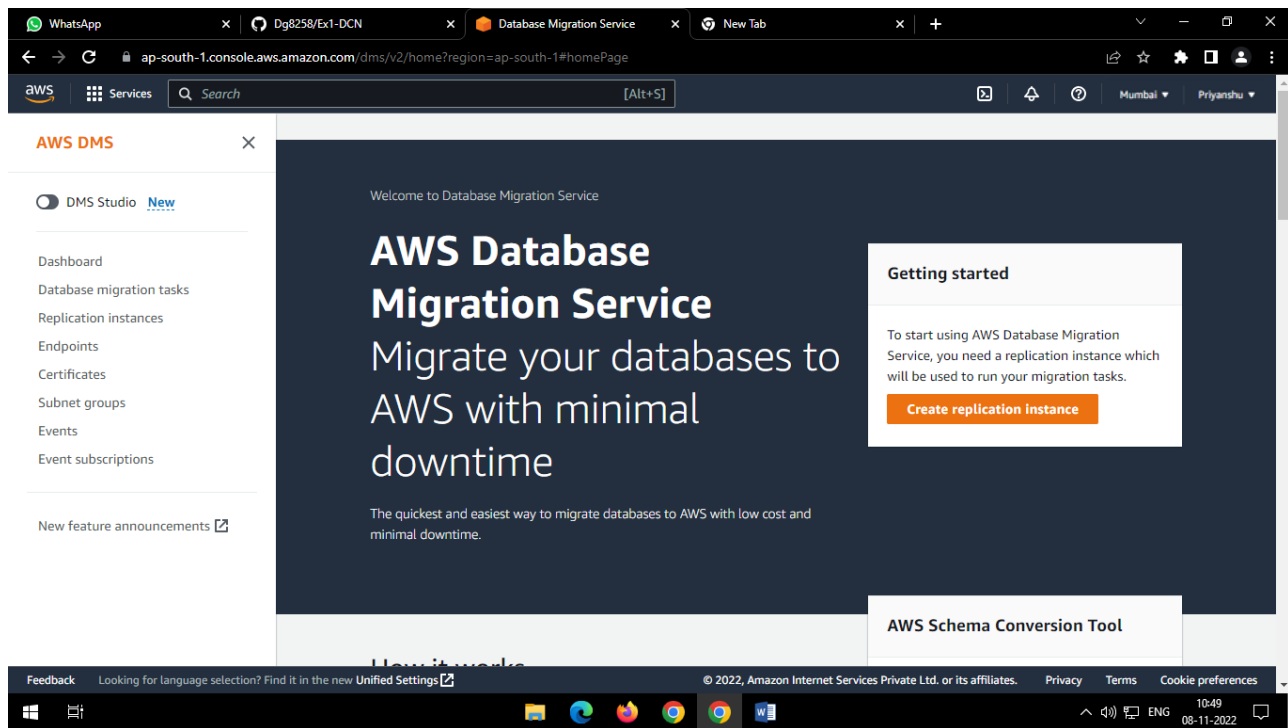


Login to your AWS account

2.

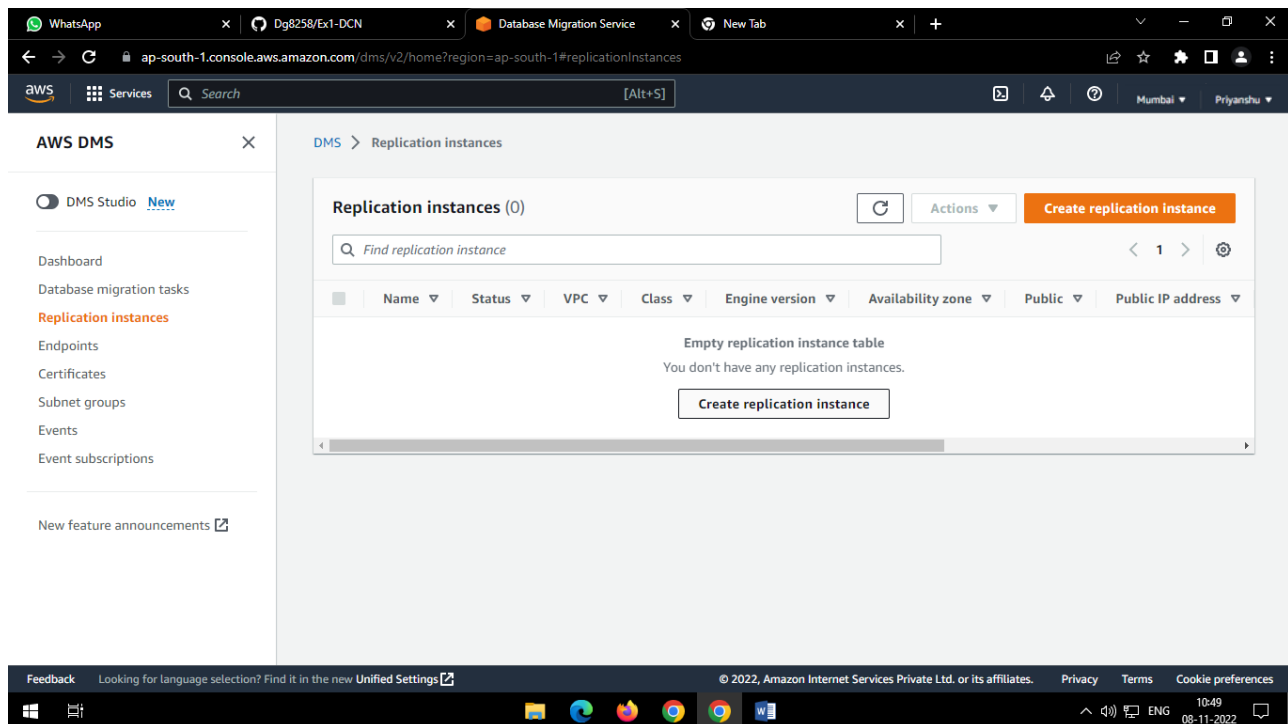


3. Search for DATABASE MANAGEMENT SERVICE



## Open REPLICATION INSTANCES

4.



Click on CREATE REPLICATION INSTANCE

5.

The screenshot displays the AWS Management Console interface for creating a new replication instance. The browser's address bar shows the URL `ap-south-1.console.aws.amazon.com/dms/v2/home?region=ap-south-1#createReplicationInstance`. The left-hand navigation pane lists various AWS services, with 'Replication instances' highlighted. The main panel, titled 'Create replication instance', features a 'Replication instance configuration' section. This section contains three input fields: 'Name' (with the value 'Shinchan'), 'Descriptive Amazon Resource Name (ARN) - optional' (with the value 'Friendly-ARN-name'), and 'Description' (with the value 'ta store, read the source data, and format the data for consumption by the target data store.'). Below the description field, there is a note about the character limits and allowed characters for the description. At the bottom of the configuration section, the 'Instance class' is listed with a link to 'Info'. The bottom of the image shows a Windows taskbar with several application icons and a system tray displaying the time as 10:51 and the date as 08-11-2022.

Enter your replication instance NAME, DESCRIPTION

6.

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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ENG 10:51 08-11-2022

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

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ENG 10:53 08-11-2022

WhatsApp

Dg8258/Ex1-DCN

Database Migration Service

replication instance - Google Se

ap-south-1.console.aws.amazon.com/dms/v2/home?region=ap-south-1#createReplicationInstance

awsServicesSearch[Alt+S]

MumbaiPriyanshu

AWS DMS

DMS Studio [New](#)

Dashboard

Database migration tasks

Replication instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

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

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

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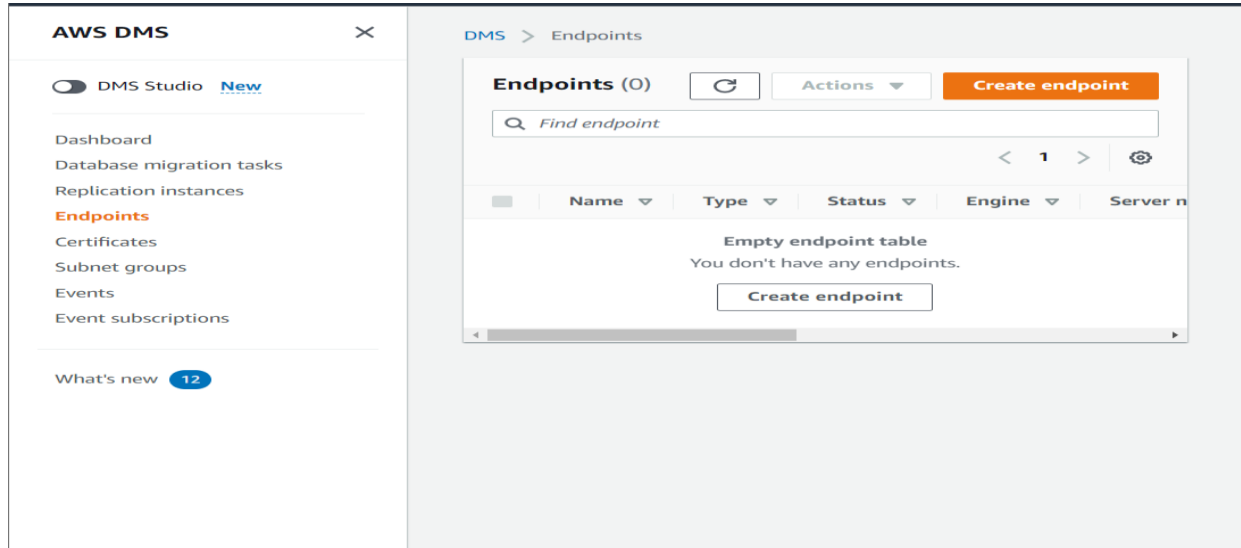
10:54

ENG

08-11-2022

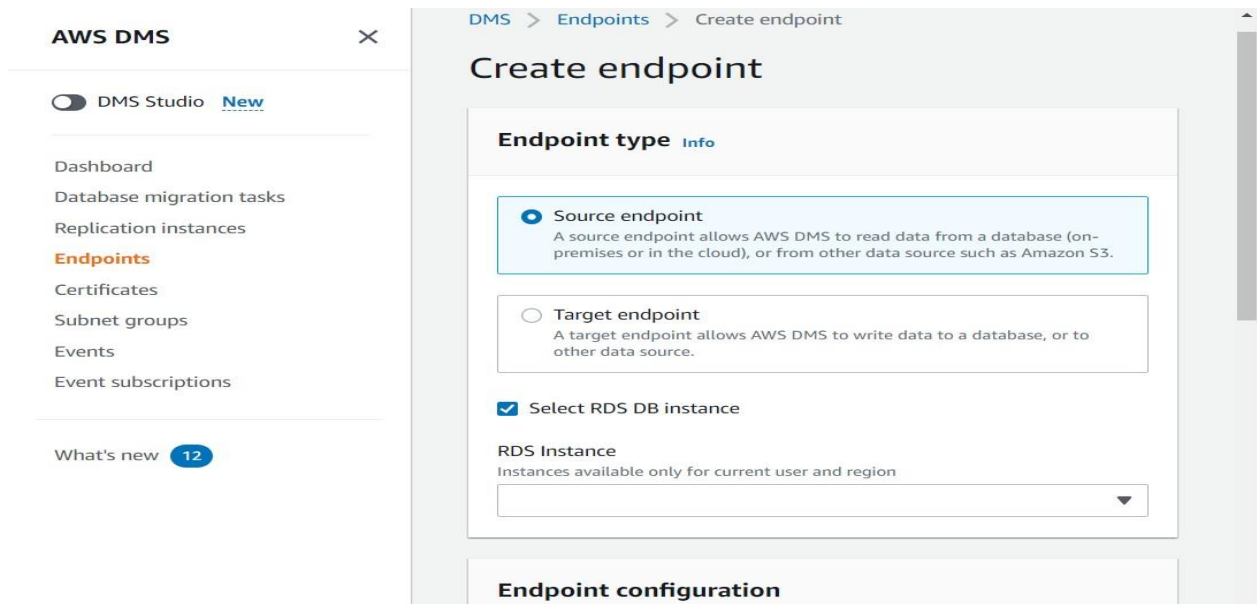
Give the required details and click CREATE

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

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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

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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.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

×

Dashboard

Database migration tasks

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What's new 12

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.

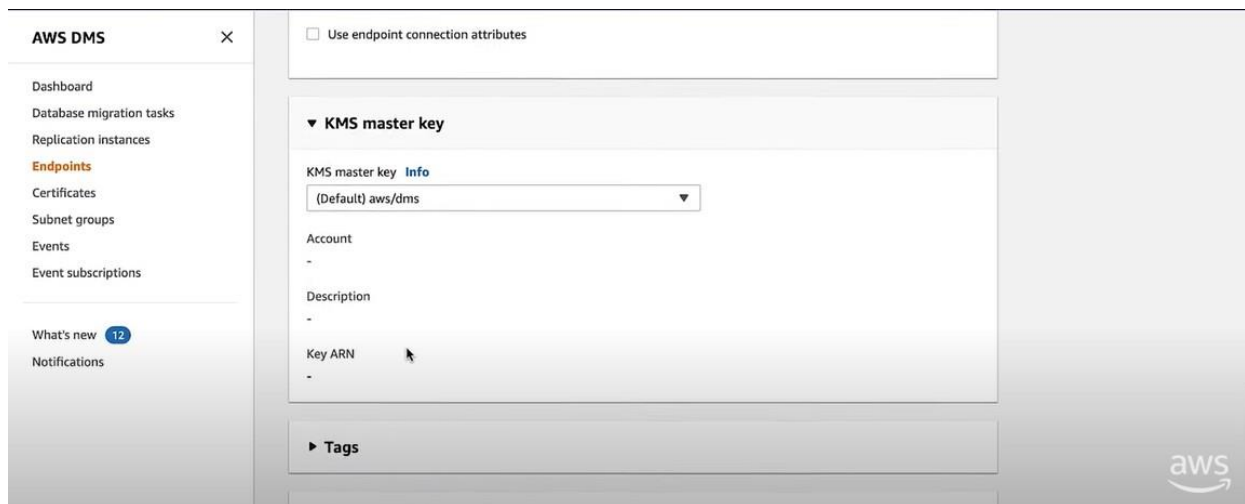
Endpoint settings

Add new setting

☐ Use endpoint connection attributes

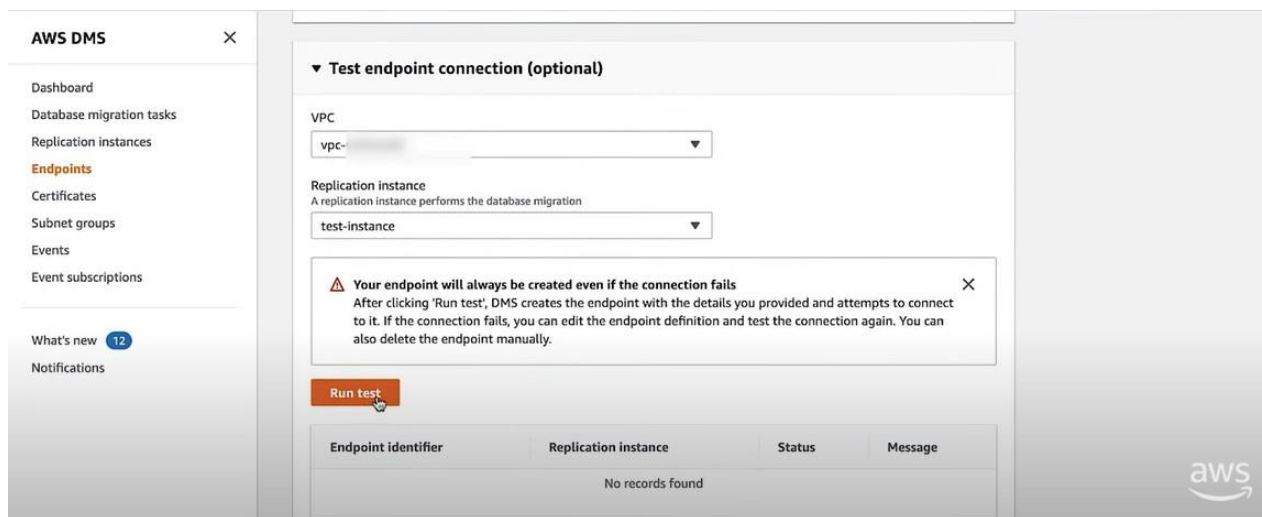




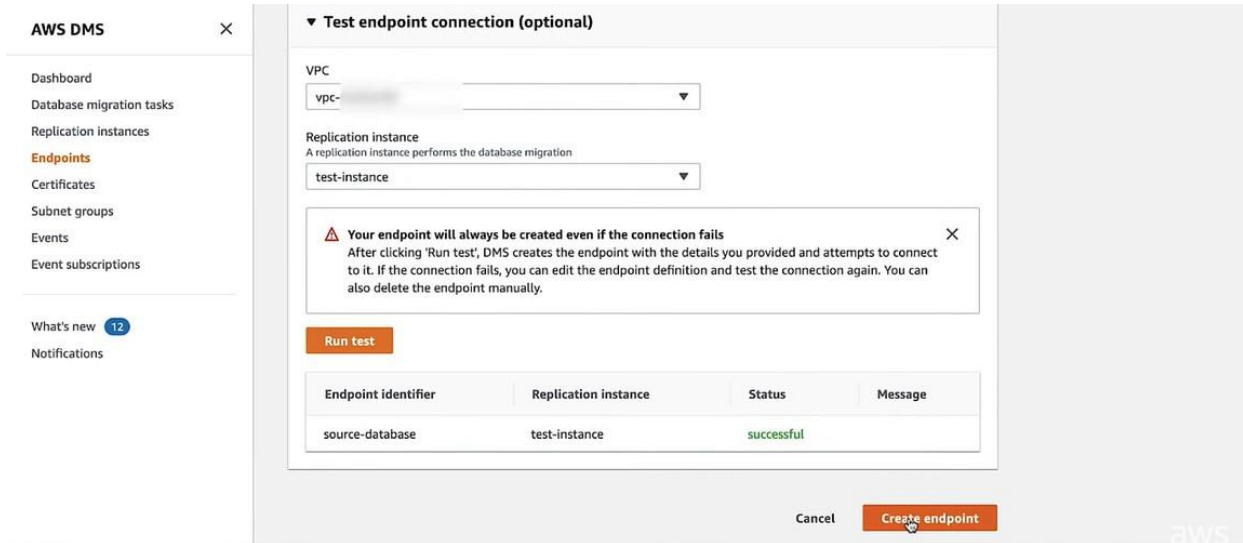


Give the required information

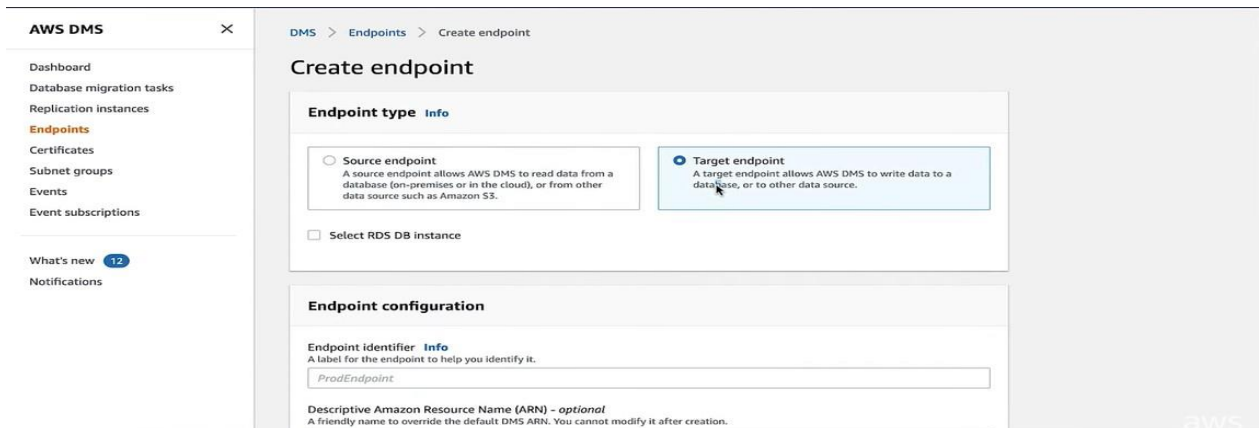
10.



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

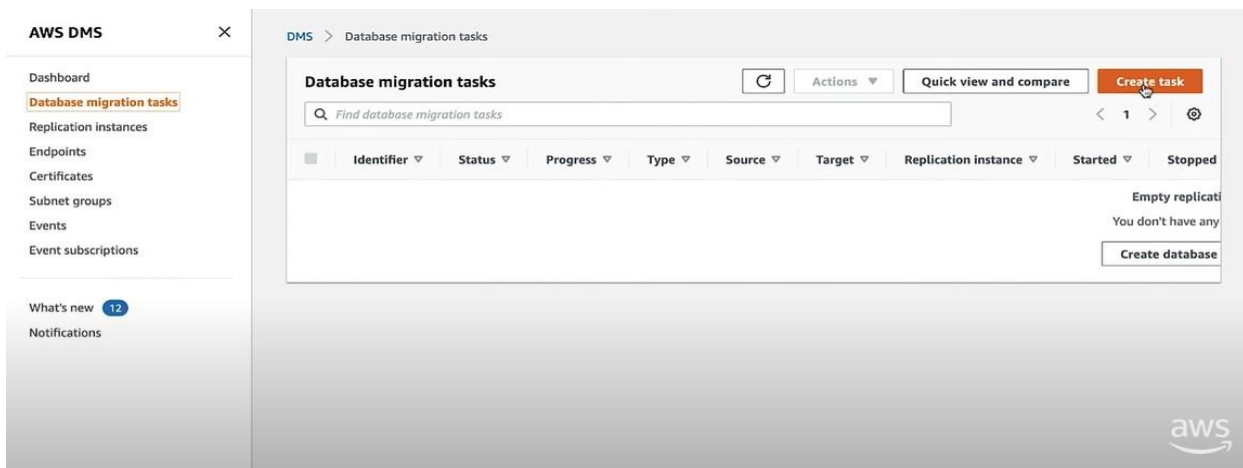


11.



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 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 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 'Migration type' dropdown menu in the 'Create database migration task' page. The 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 'Source database endpoint' dropdown above it shows 'source-database', and the 'Target database endpoint' dropdown shows 'target-database'. 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**

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)** 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**

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

What's new **12**  
 Notifications

**test-task** Actions Quick view and compare View logs

**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)** 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.