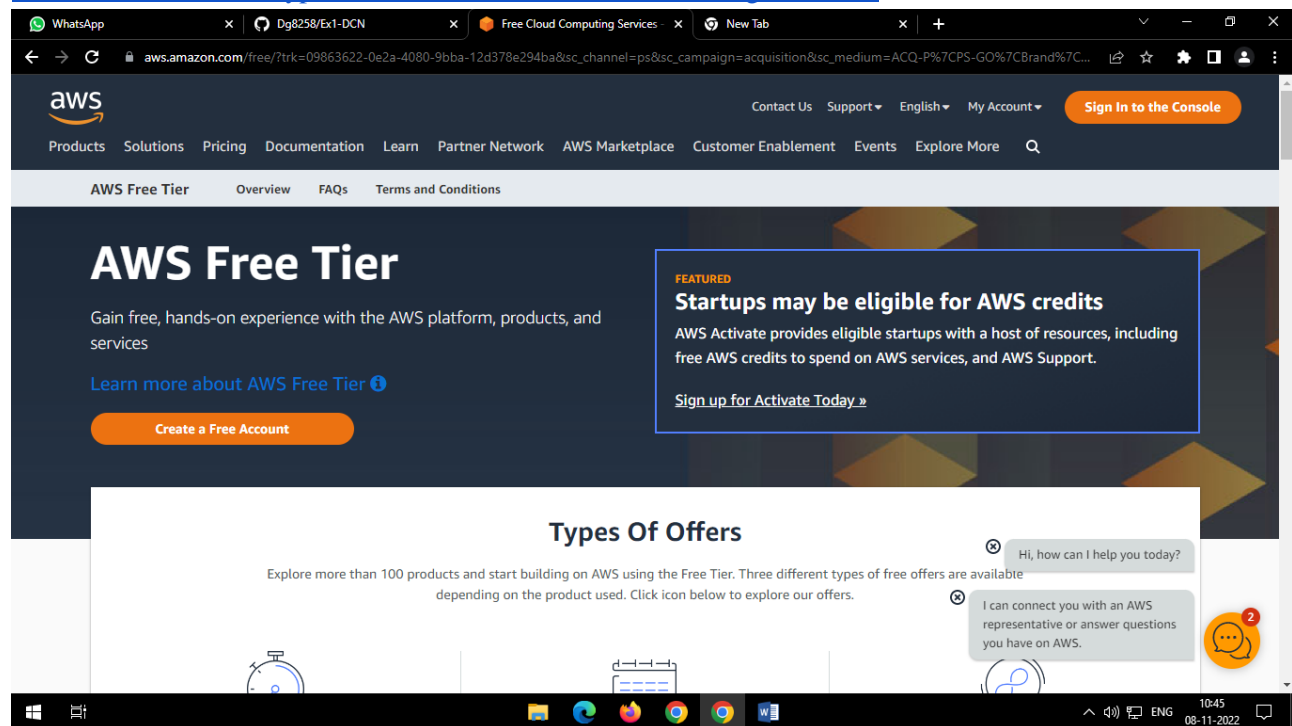


# Migrate to Amazon RDS

**Abhishek kumar**  
**RA2011028010109**

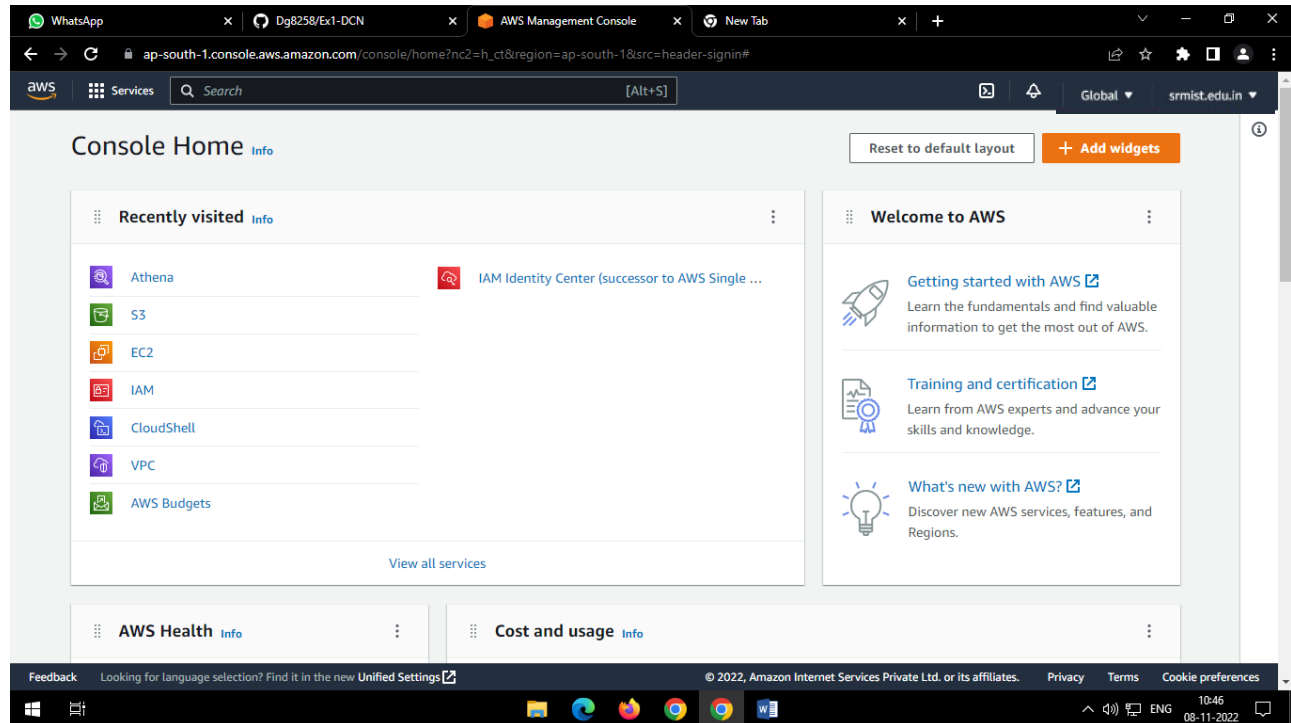
## PROCEDURE:

[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](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)

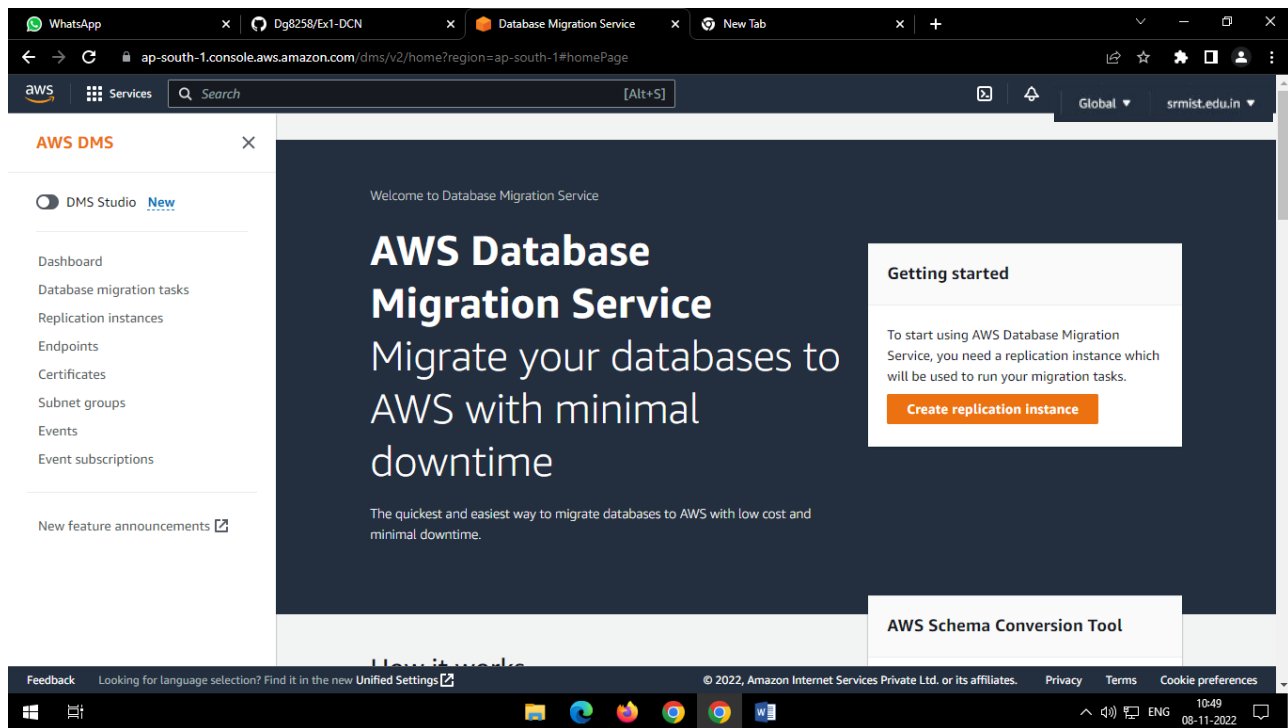


Login to your AWS account

2.

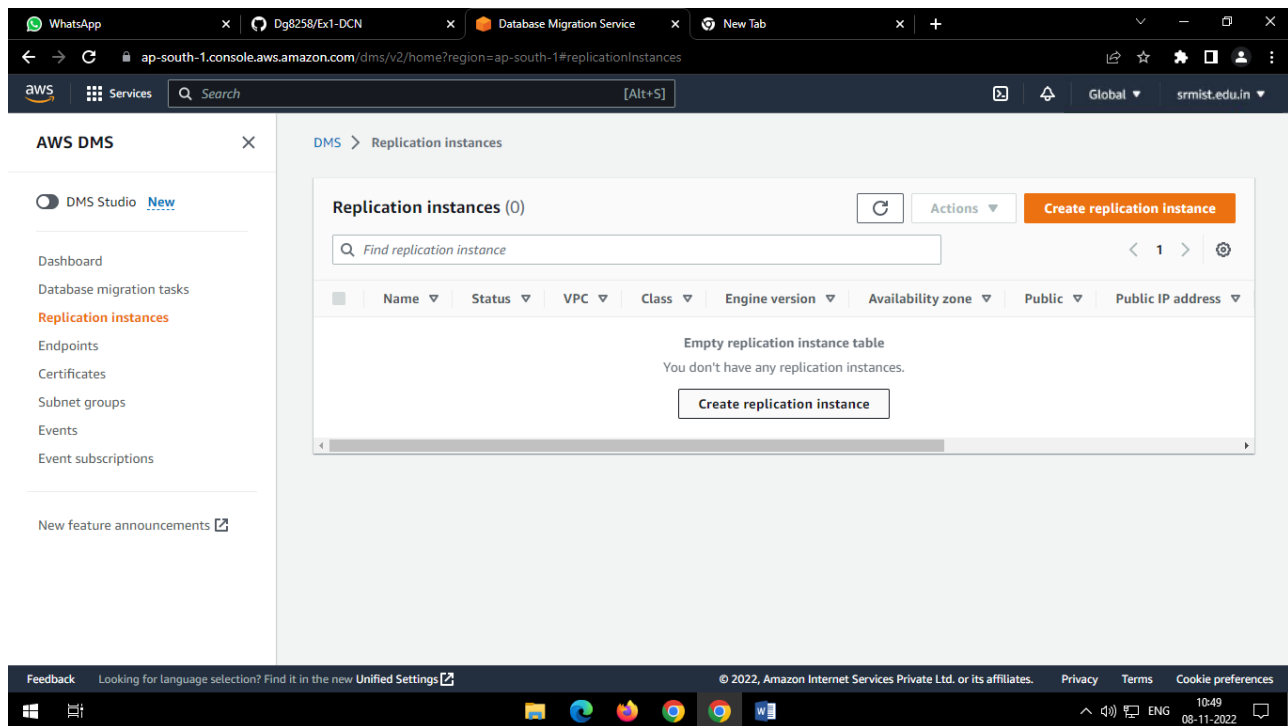


3. Search for DATABASE MANAGEMENT SERVICE



## Open REPLICATION INSTANCES

4.



Click on CREATE REPLICATION INSTANCE

5.

The screenshot displays the AWS DMS 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 sidebar contains the 'AWS DMS' menu with options like 'DMS Studio', 'Dashboard', 'Database migration tasks', 'Replication instances', 'Endpoints', 'Certificates', 'Subnet groups', 'Events', 'Event subscriptions', and 'New feature announcements'. The main content area is titled 'Create replication instance' and features a 'Replication instance configuration' section. This section includes the following fields:

- Name:** A text input field containing 'Shinchan'. A note below the field states: 'The name must be unique among all of your replication instances in the current AWS region. Replication instance name must not start with a numeric value.'
- Descriptive Amazon Resource Name (ARN) - optional:** A text input field containing 'Friendly-ARN-name'. A note below the field states: 'A friendly name to override the default DMS ARN. You cannot modify it after creation.'
- Description:** A text input field containing 'ta store, read the source data, and format the data for consumption by the target data store.' A note below the field states: 'The description must only have unicode letters, digits, whitespace, or one of these symbols: \_:/+=+@. 1000 maximum character.'
- Instance class:** A dropdown menu with 'Info' link. A note below the field states: 'Choose an appropriate instance class for your replication needs. Each instance class provides differing levels of compute, network, and storage capacity. DMS instance F2'.

The bottom of the screenshot shows the Windows taskbar with various application icons and the system clock displaying '10:51 08-11-2022'.

Enter your replication instance NAME, DESCRIPTION

6.

The screenshot shows the AWS DMS console with the 'Create Replication Instance' page. The left sidebar contains navigation links: DMS Studio (New), Dashboard, Database migration tasks, Replication instances (highlighted), Endpoints, Certificates, Subnet groups, Events, Event subscriptions, and New feature announcements. The main content area has the following sections:

- 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](#)  
Dropdown: `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](#)  
Dropdown: `3.4.7`
- ☐ Include Beta DMS versions
- Upgrades to versions 3.4.7 and higher** (Info): 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.  
Input: `50`

The footer shows a feedback link, language selection, copyright notice (© 2022, Amazon Internet Services Private Ltd. or its affiliates.), and links for Privacy, Terms, and Cookie preferences. The system clock shows 10:51 on 08-11-2022.

This screenshot shows the continuation of the 'Create Replication Instance' page in the AWS DMS console. The configuration options shown are:

- 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.  
Input: `50`
- VPC**: Choose an Amazon Virtual Private Cloud (VPC) where your replication instance should run.  
Dropdown: `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.  
Dropdown: `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** (Expandable section)

The footer is identical to the previous screenshot, showing the feedback link, language selection, copyright notice, and links for Privacy, Terms, and Cookie preferences. The system clock shows 10:53 on 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]

Globalsrmist.edu.in

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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Privacy

Terms

Cookie preferences

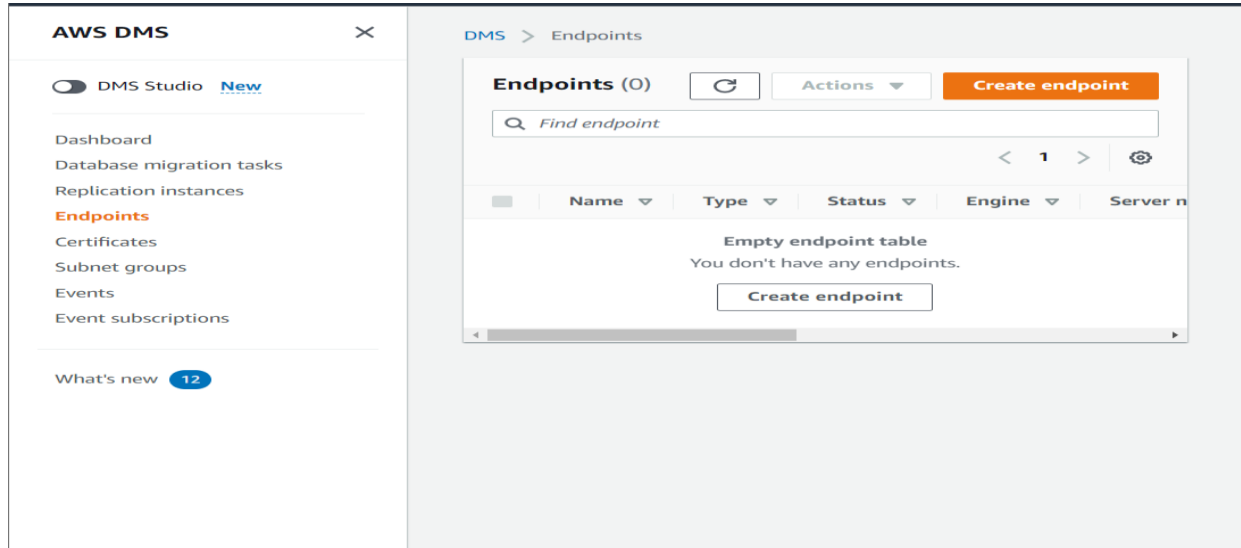
10:54

ENG

08-11-2022

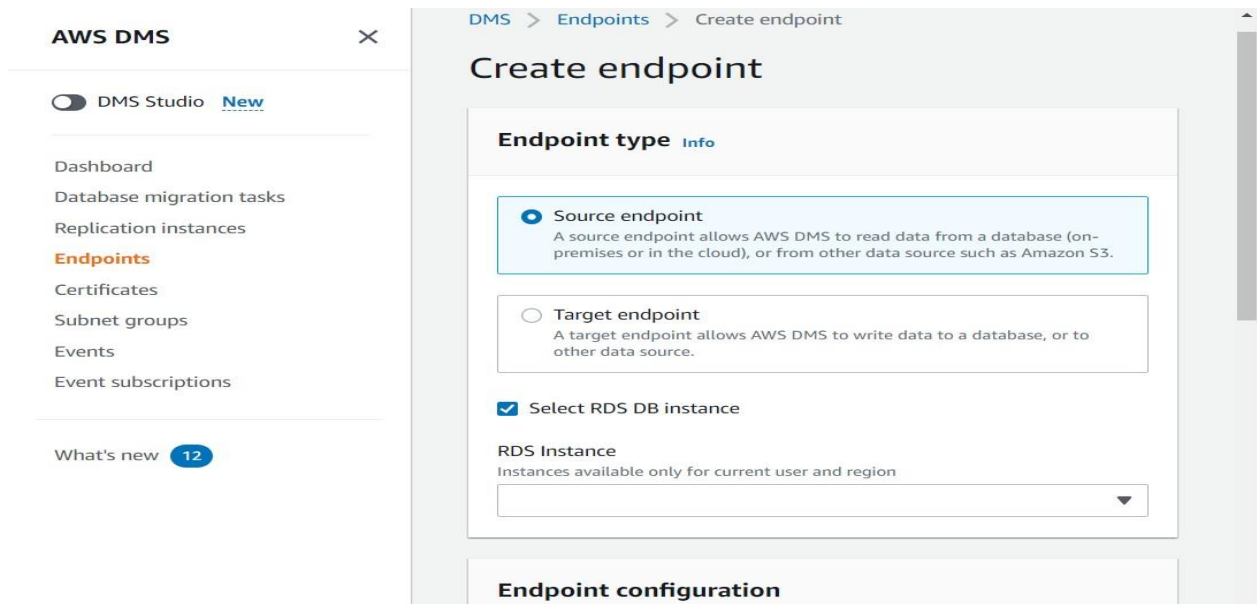
Give the required details and click CREATE

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

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.c39ashxlmufg.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.c39ashxlmufg.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.

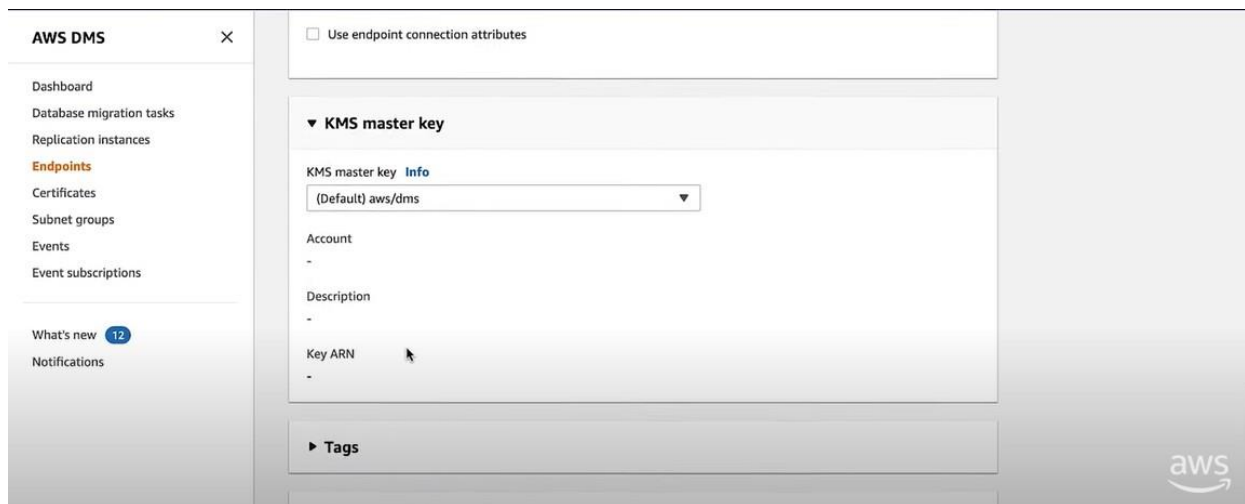
Endpoint settings

Add new setting

☐ Use endpoint connection attributes

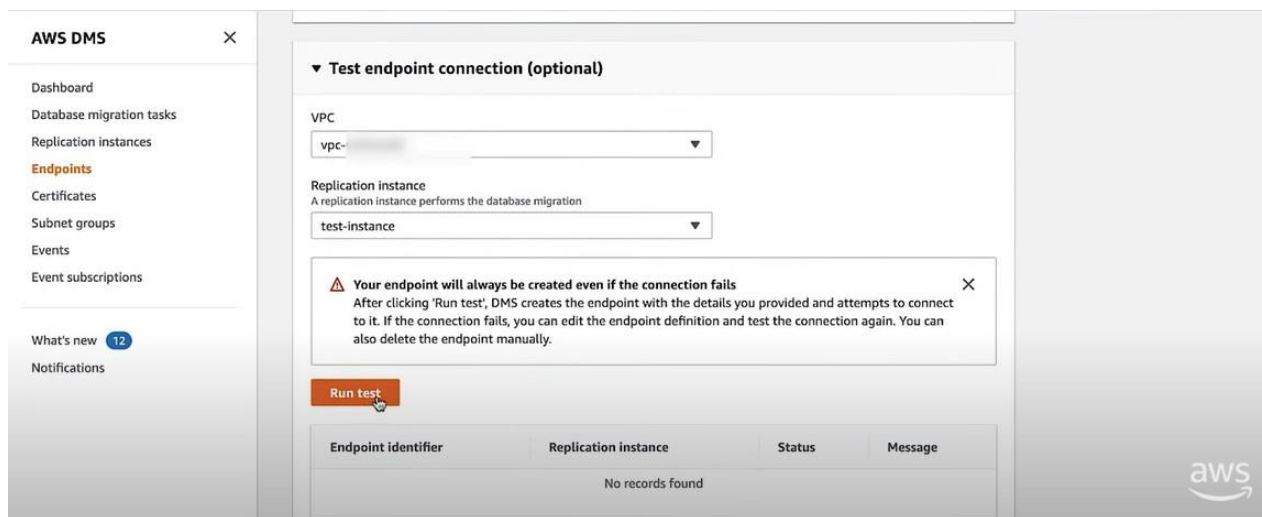




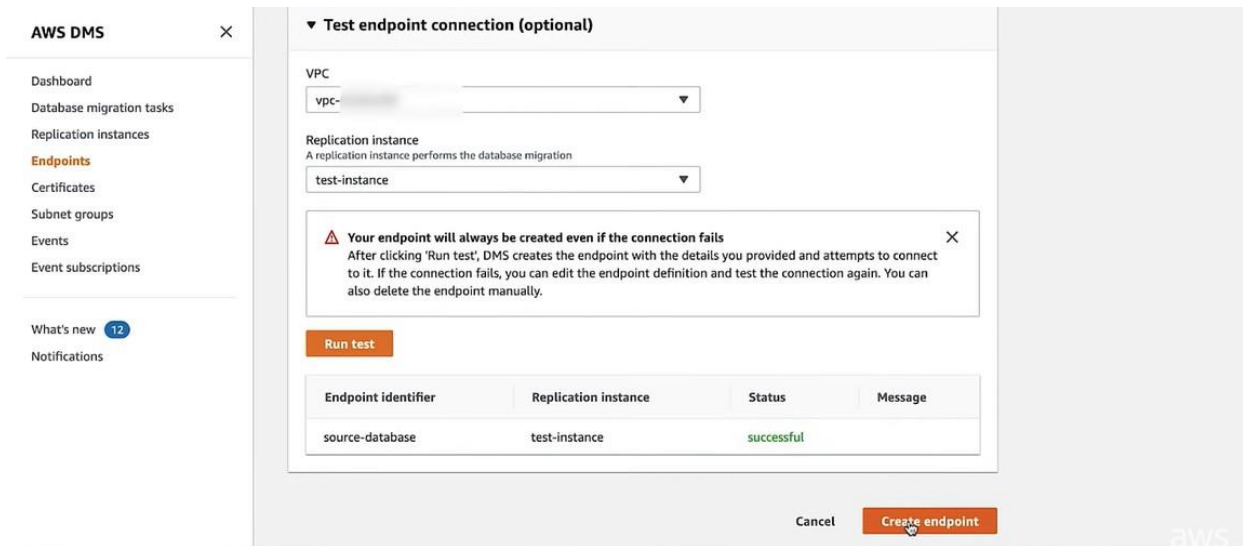


Give the required information

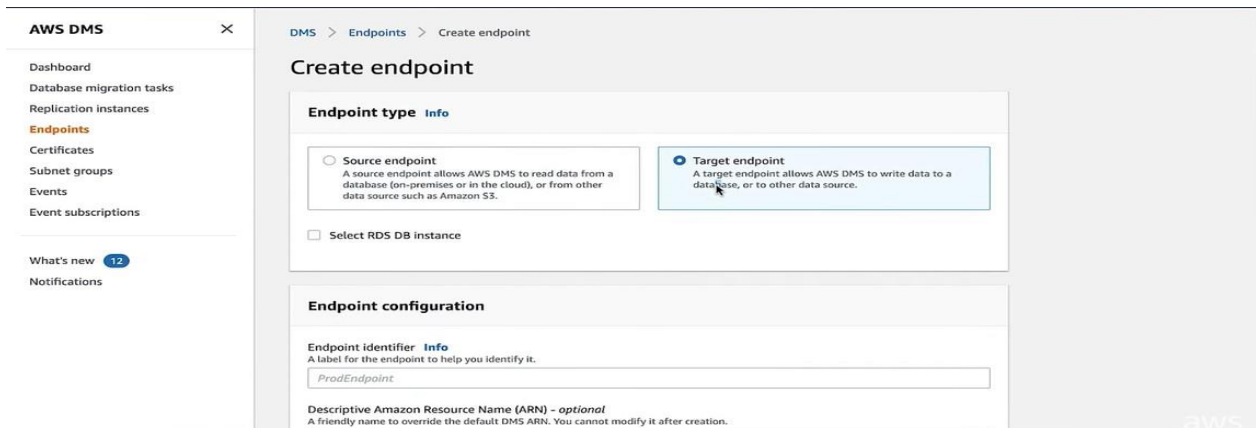
10.



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

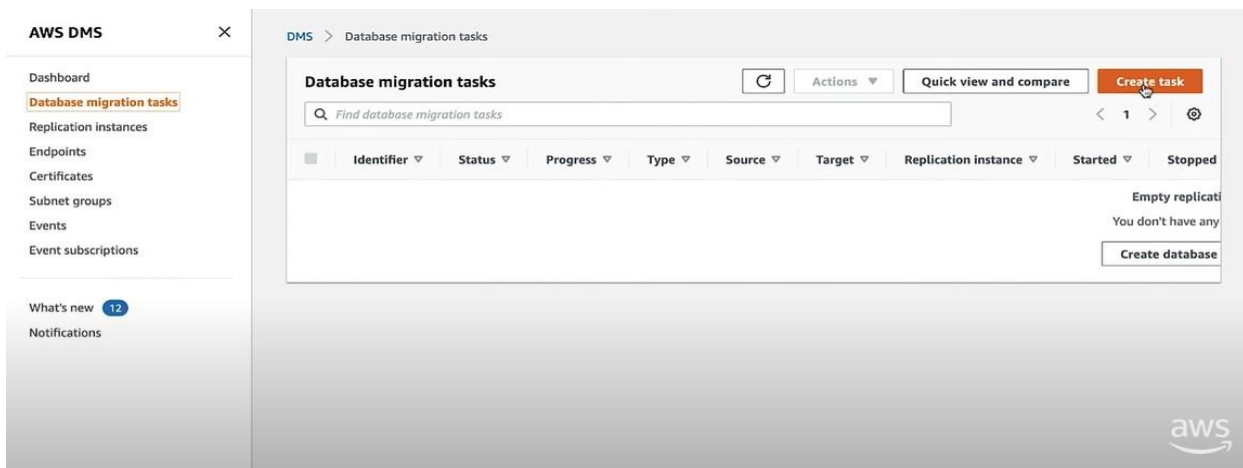


11.



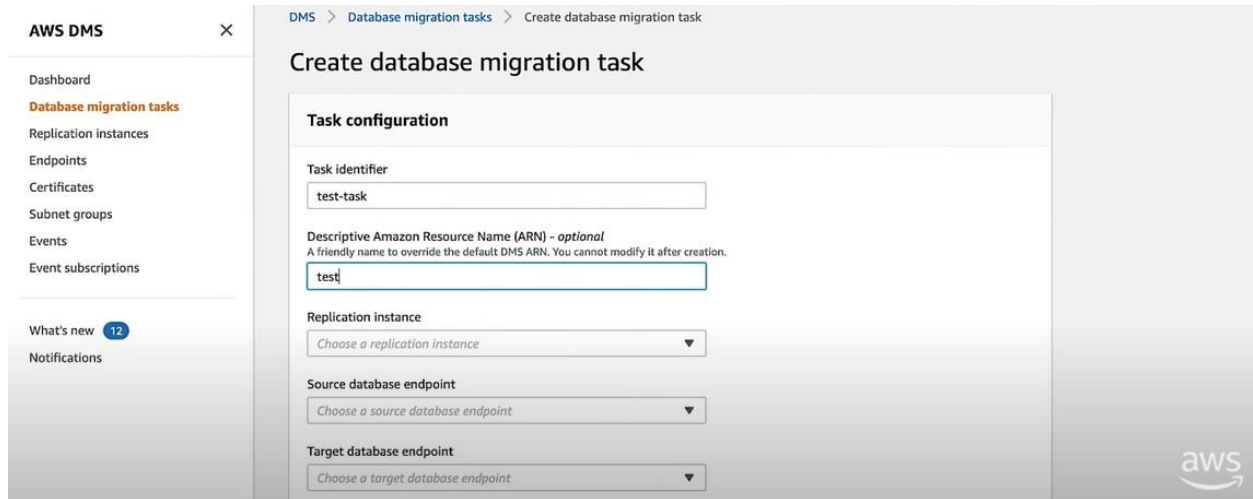
Repeat the above steps to create an instance but this ENDPOINT TYPE is Target endpoint

12.



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

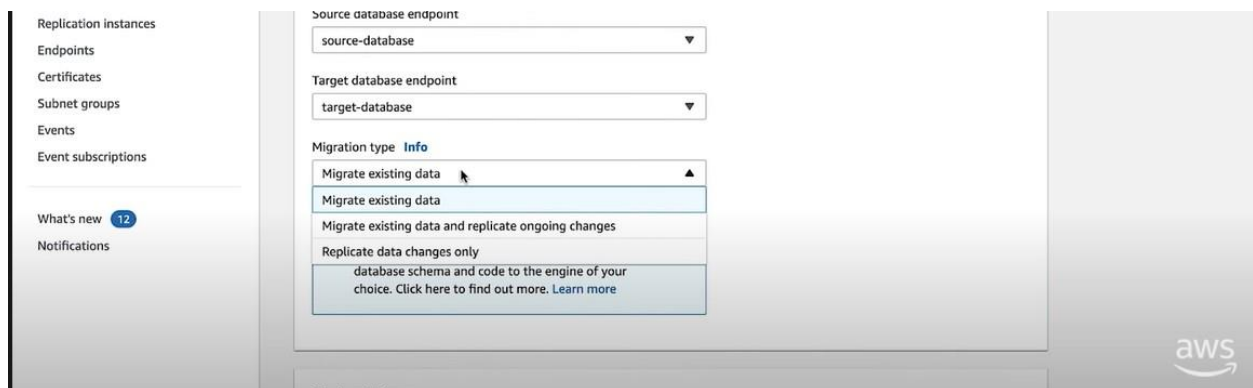
13.



The screenshot shows the AWS DMS console interface for creating a new database migration task. On the left is a navigation sidebar with options like Dashboard, Database migration tasks (highlighted), Replication instances, Endpoints, Certificates, Subnet groups, Events, and Event subscriptions. 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) - optional' (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 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 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 it, 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

Actions 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

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)**

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.