

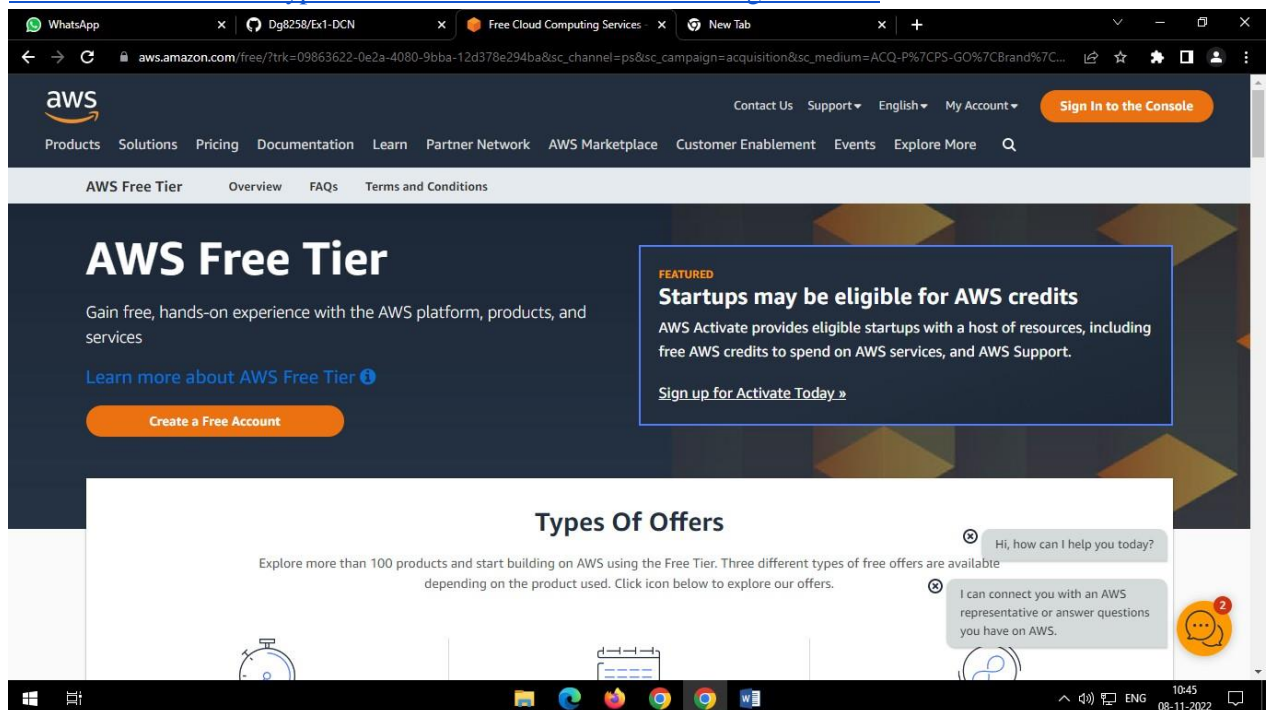
Migrate to Amazon RDS

Mudit Choubisa

RA2011028010090

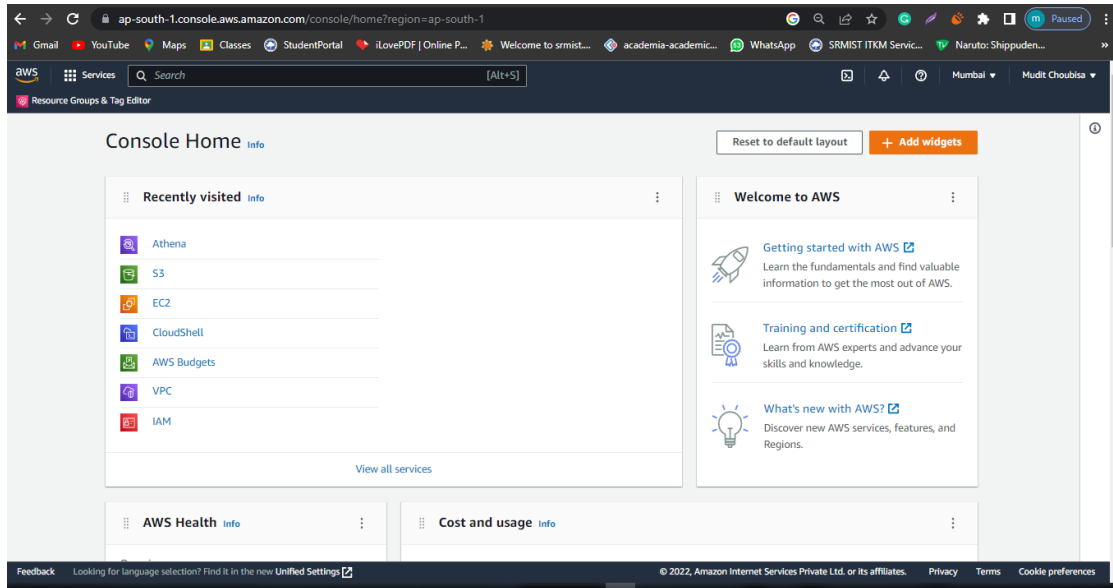
PROCEDURE:

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_7KXBhCoARIsAPdPTfiJ_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

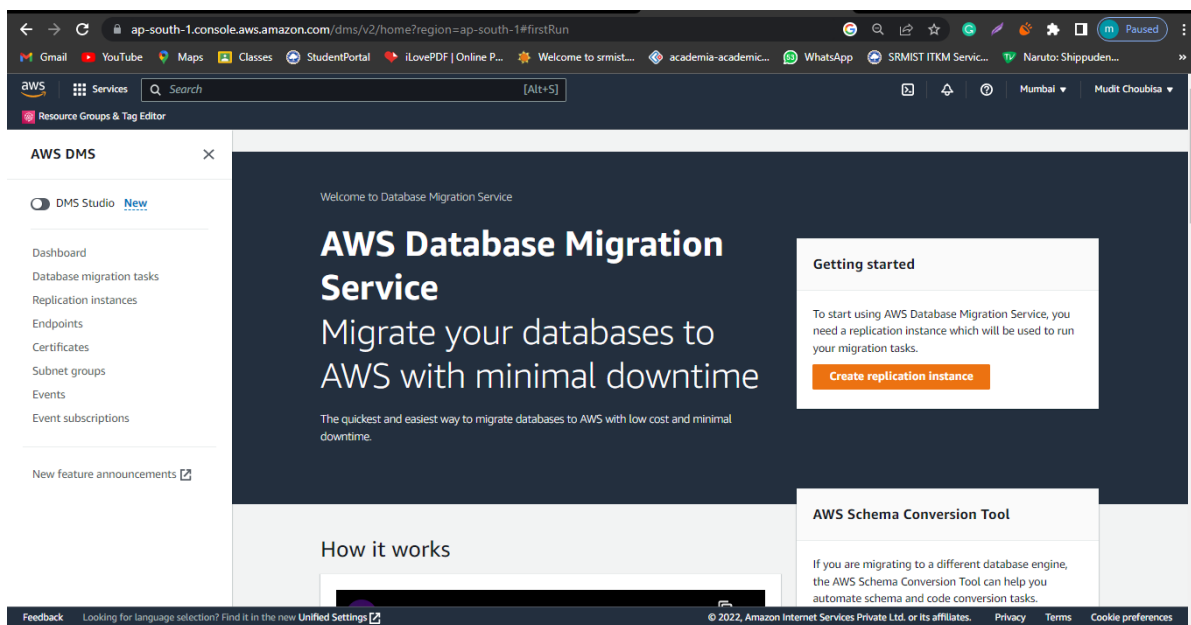


Login to your AWS account

2.



3. Search for DATABASE MANAGEMENT SERVICE



4. Open REPLICATION INSTANCES

The screenshot shows the AWS Management Console for the 'ap-south-1' region, specifically the 'Replication instances' page under the 'AWS DMS' service. The left-hand navigation pane lists various DMS features: DMS Studio (with a 'New' tag), Dashboard, Database migration tasks, Replication instances (highlighted in orange), Endpoints, Certificates, Subnet groups, Events, and Event subscriptions. At the bottom of this pane is a link for 'New feature announcements'. The main content area is titled 'Replication instances (0)' and includes a search bar with the placeholder 'Find replication instance'. Below the search bar is a table header with columns: Name, Status, VPC, Class, Engine version, Availability zone, Public, Public IP address, and Private IP address. The table body is empty, displaying the message 'Empty replication instance table. You don't have any replication instances.' with a 'Create replication instance' button. In the top right corner of the main area, there are buttons for 'Refresh', 'Actions', and a prominent orange 'Create replication instance' button. The bottom of the console features a footer with 'Feedback', a language selection prompt, copyright information for 2022, and links for 'Privacy', 'Terms', and 'Cookie preferences'.

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

Services Search [Alt+S]

Resource Groups & Tag Editor

AWS DMS

DMS Studio **New**

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

New feature announcements

DMS > Replication instances

Replication instances (0)

Find replication instance

	Name	Status	VPC	Class	Engine version	Availability zone	Public	Public IP address	Private IP address
Empty replication instance table You don't have any replication instances.									

Create replication instance

Create replication instance

Feedback Looking for language selection? Find it in the new Unified Settings

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5. Click on CREATE REPLICATION

INSTANCE

The screenshot shows the AWS DMS console interface. The browser address bar indicates the URL is `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' and 'DMS instance class' options. 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 class'.

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

6. Enter your replication instance NAME,

DESCRIPTION

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

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

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

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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-097470d907311e7fb

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)

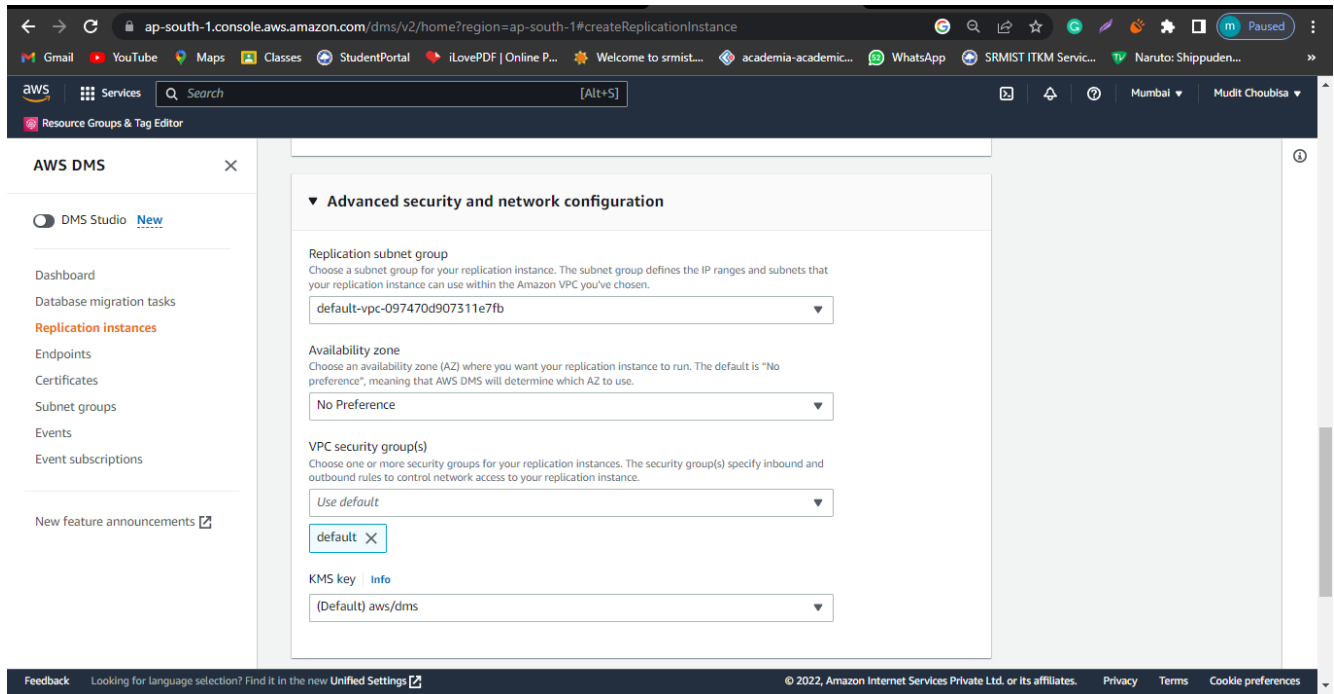
☒ **Publicly accessible**
If you choose this option, AWS DMS will assign a public IP address to your replication instance, and you'll be able to connect to databases outside of your Amazon VPC.

Advanced security and network configuration

Replication subnet group
Choose a subnet group for your replication instance. The subnet group defines the IP ranges and subnets that

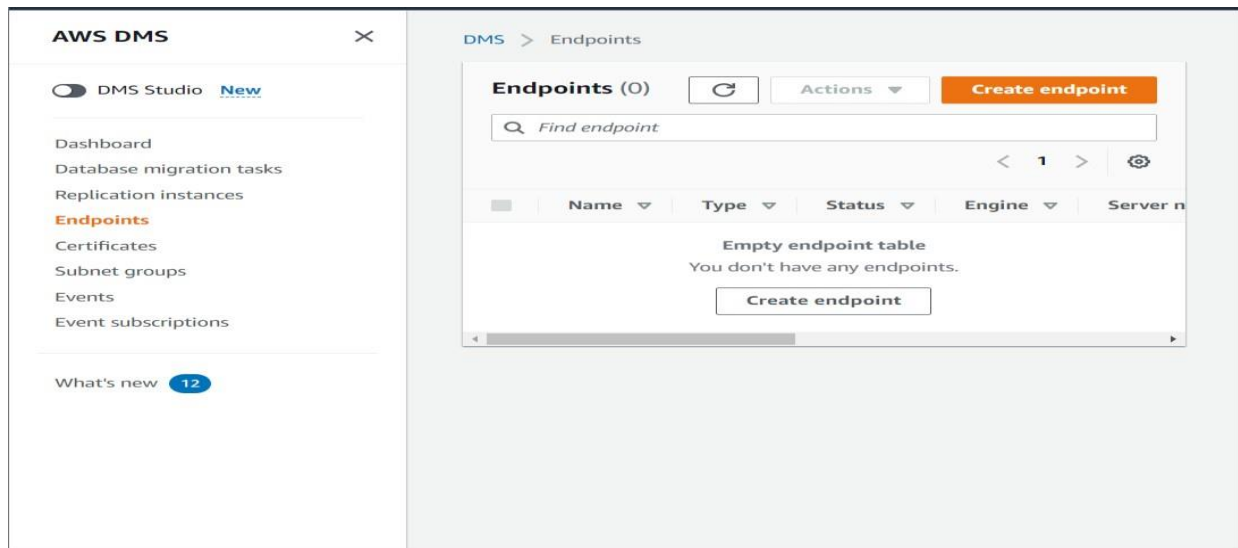
Feedback Looking for language selection? Find it in the new [Unified Settings](#)

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Give the required details and click CREATE

7.



From the console choose ENDPOINTS and create endpoint

8.

AWS DMS ×

DMS Studio [New](#)

Dashboard

Database migration tasks

Replication instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

What's new **12**

DMS > Endpoints > Create endpoint

Create endpoint

Endpoint type [Info](#)

☒ **Source endpoint**
A source endpoint allows AWS DMS to read data from a database (on-premises or in the cloud), or from other data source such as Amazon S3.

☐ **Target endpoint**
A target endpoint allows AWS DMS to write data to a database, or to other data source.

☒ **Select RDS DB instance**

RDS Instance
Instances available only for current user and region

Endpoint configuration

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.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

Replication instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

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

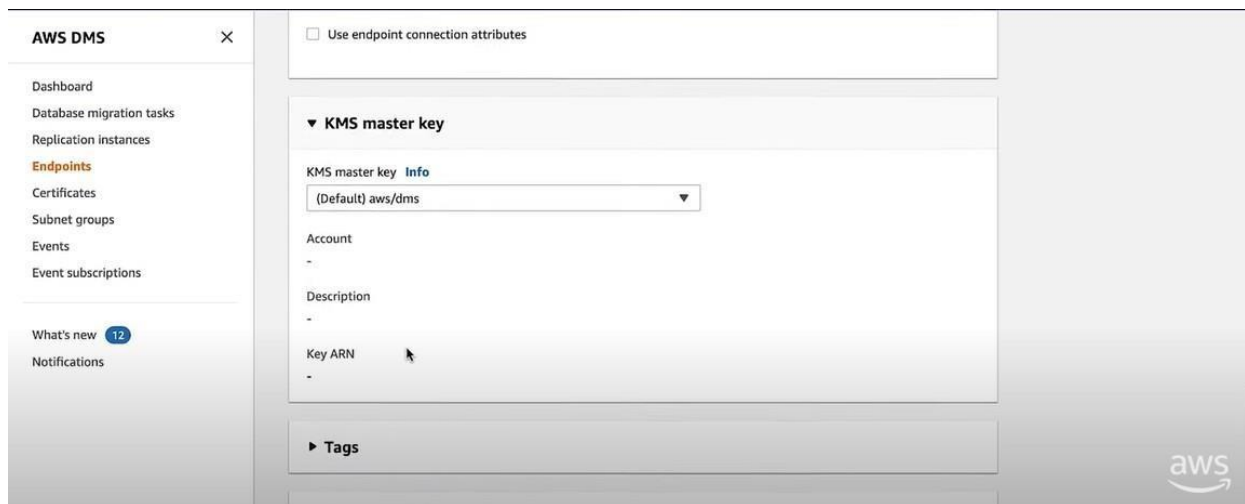
Enter endpoint settings in JSON format.

Endpoint settings

Add new setting

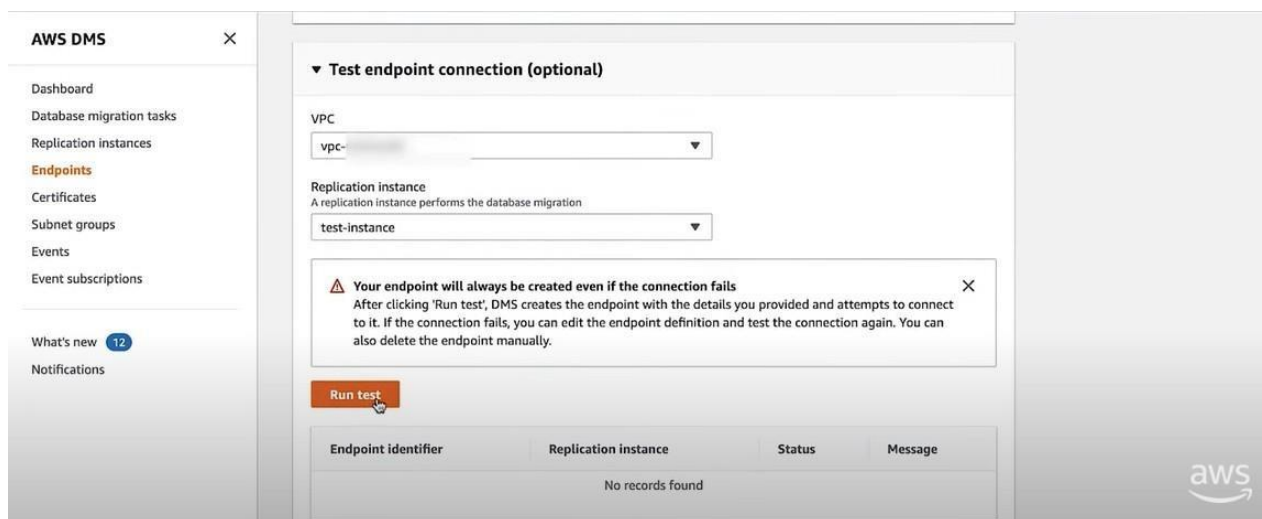
☐ Use endpoint connection attributes



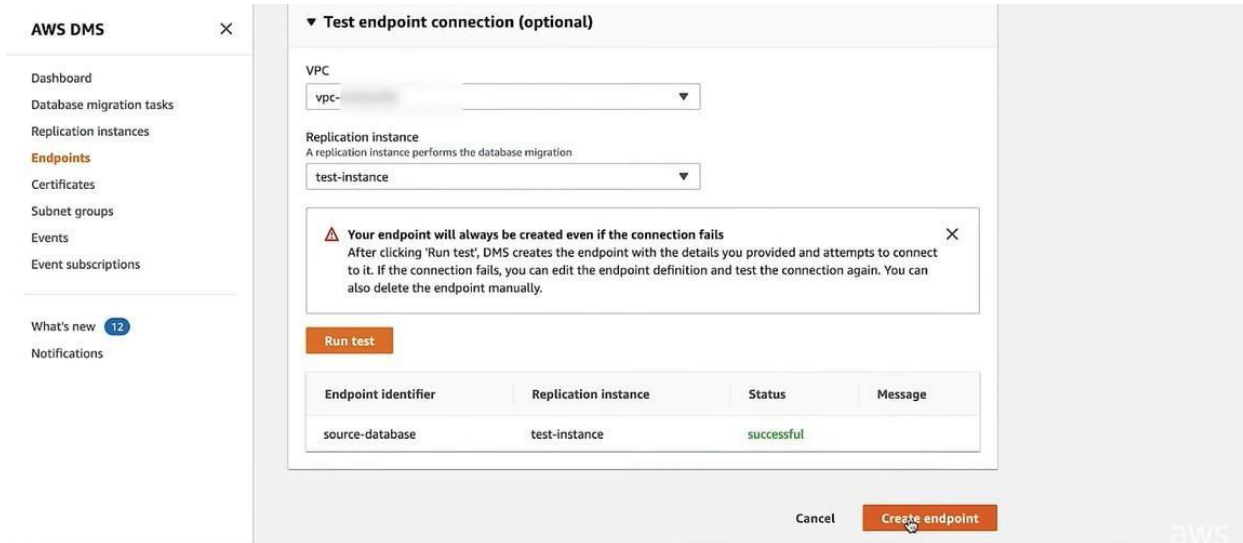


Give the required information

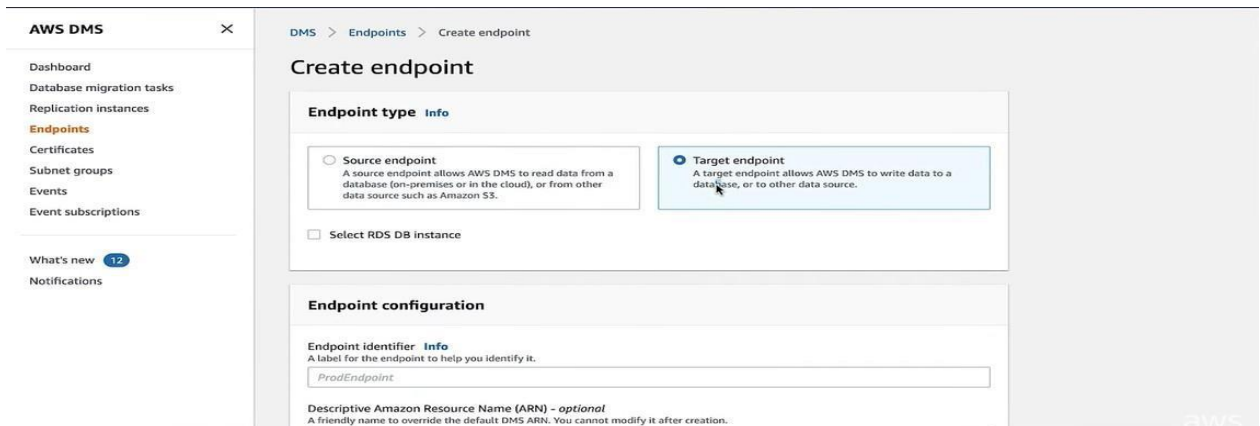
10.



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

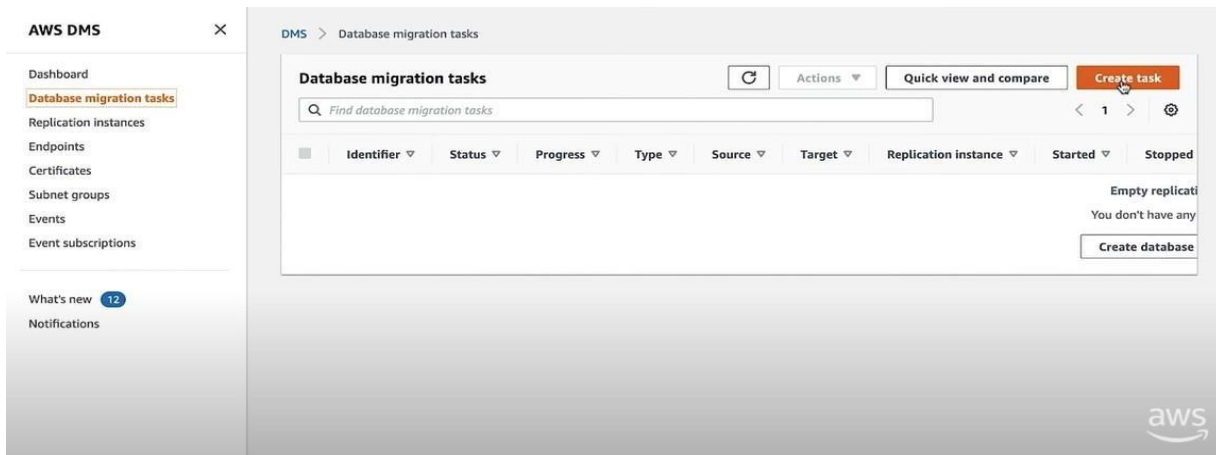


11.



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 links to 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 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 'Choose a...' prompt. The AWS logo is 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 with a mouse cursor), 'Migrate existing data and replicate ongoing changes', 'Replicate data changes only', and a link to 'database schema and code to the engine of your choice. Click here to find out more. Learn more'. 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

<input type="checkbox"/>	Identifier	Status	Progress	Type	Source	Target	Replication instance	Started
<input type="checkbox"/>	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

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.

