

EXPERIMENT-8

Migrate to Amazon RDS

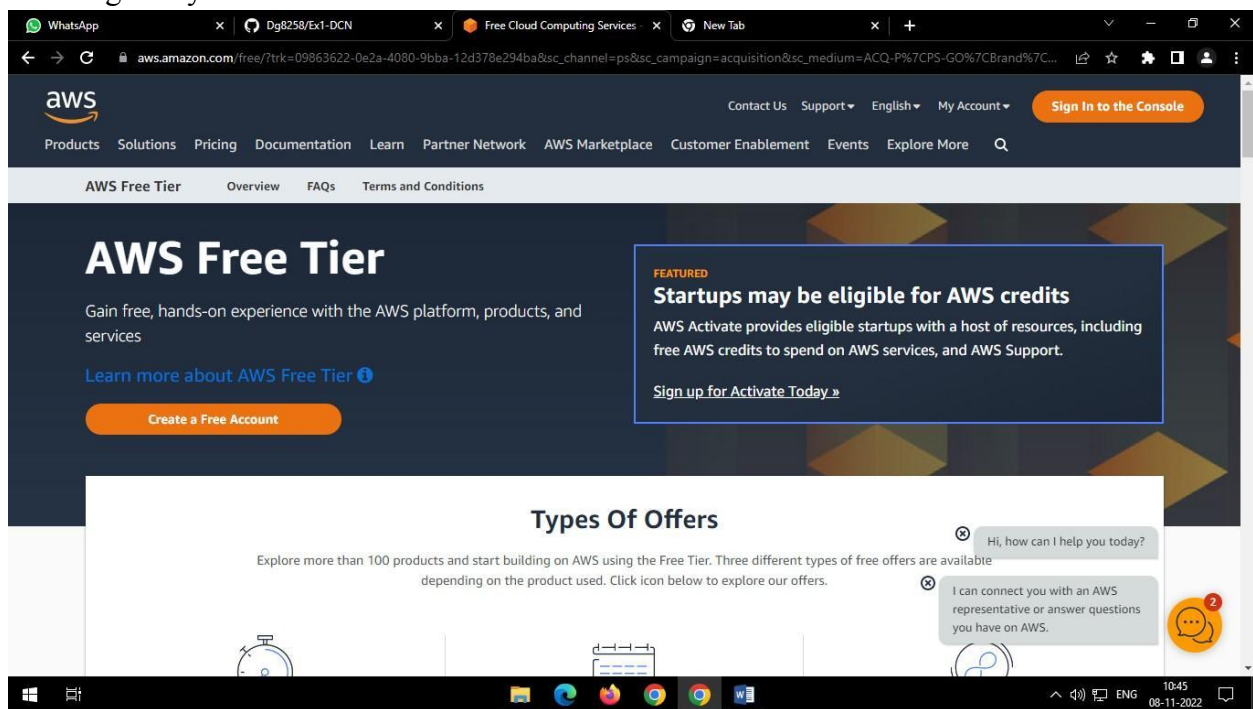
NAME: Shubhra Kumari

Reg. No.: RA2011028010093

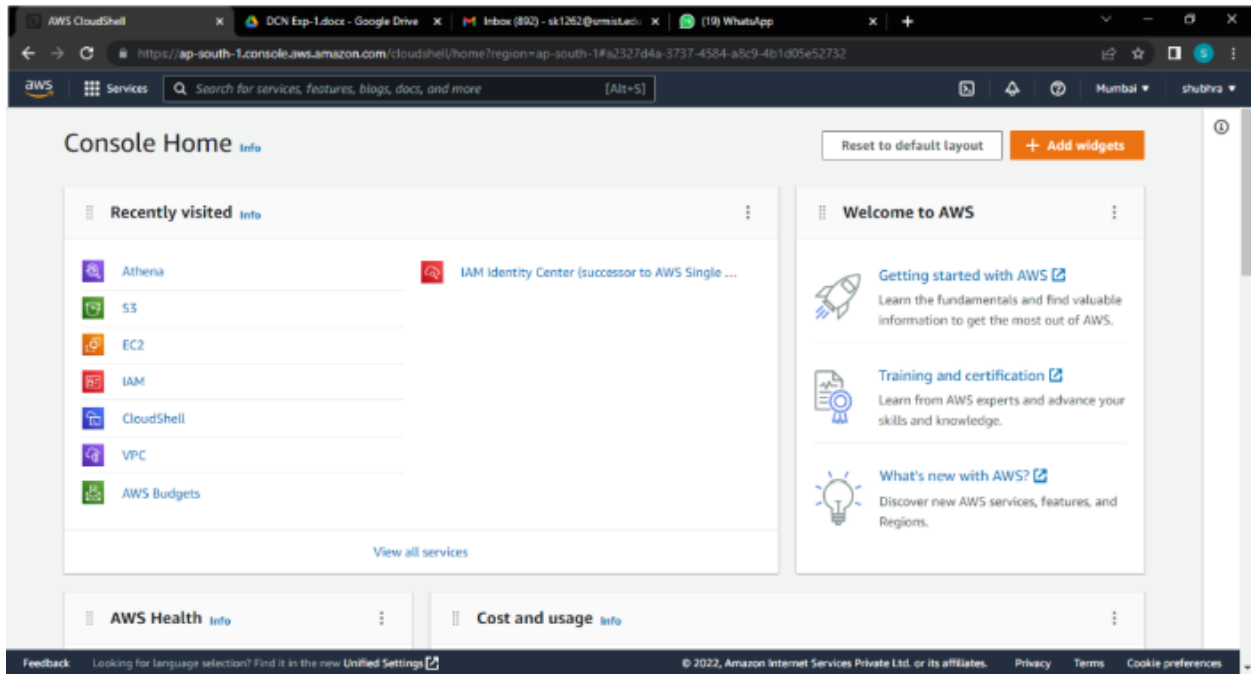
PROCEDURE:

https://aws.amazon.com/free/?trk=09863622-0e2a-4080-9bba-12d378e294ba&sc_channel=ps&sc_campaign=acquisition&sc_medium=ACQ-PIPS-GO|Brand|Desktop|SU|AWS|Core|IN|EN|Text&s_kwid=AL!4422!3!453325185010!e!!g!!aws%20free&ef_id=Cj0KCQjw_7KXBhCoARIsAPdPTfiIj_nDXTj072T5S-Pc3j6qaBSDqVs-6FJl1WtuV8Eo3mdZUwcv5_8aArdoEALw_weB:G:s&s_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

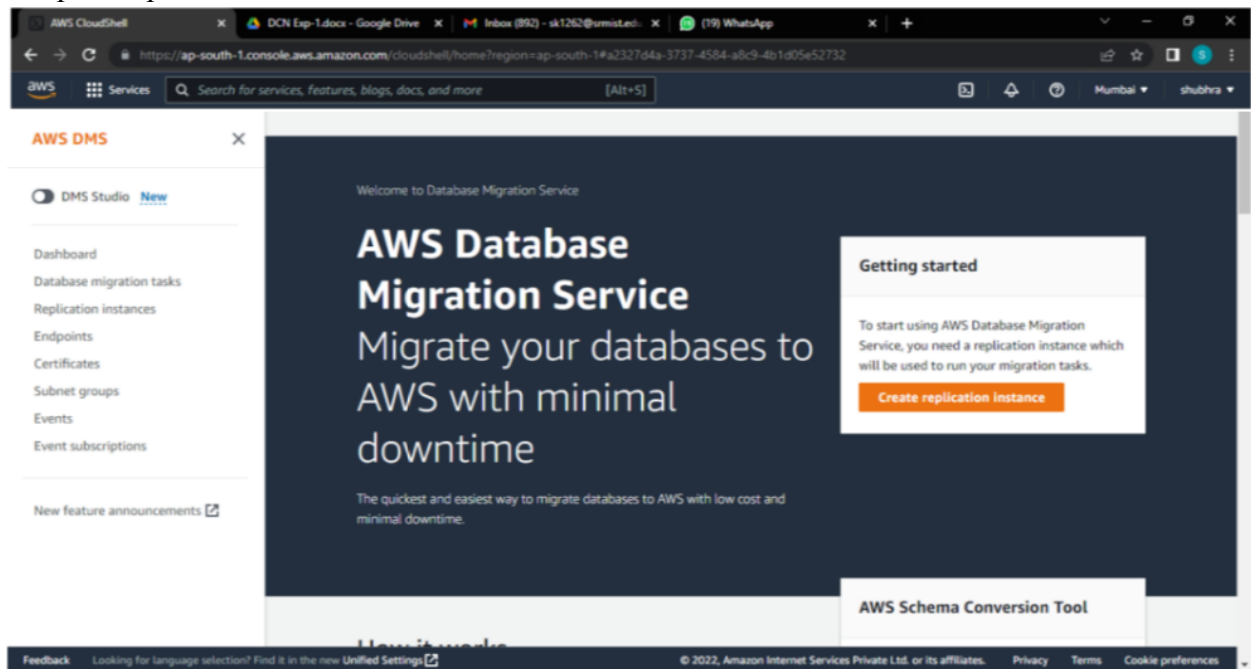
1. Login to your AWS account.



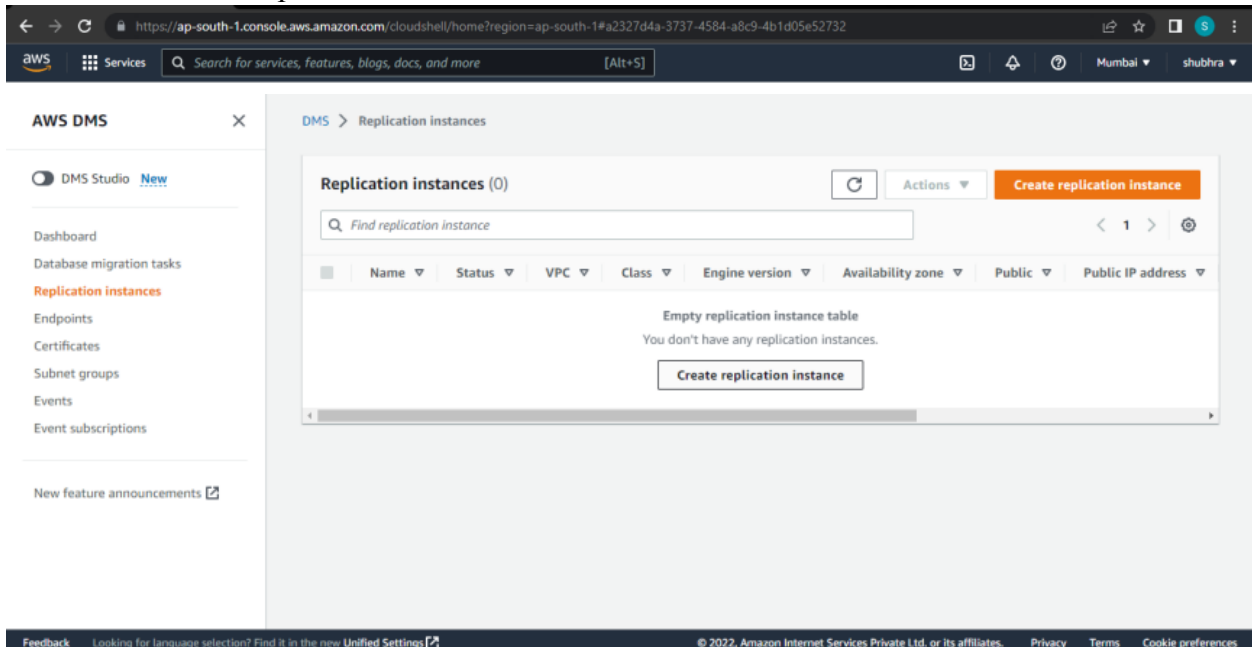
2. Search for DATABASE MANAGEMENT SERVICE



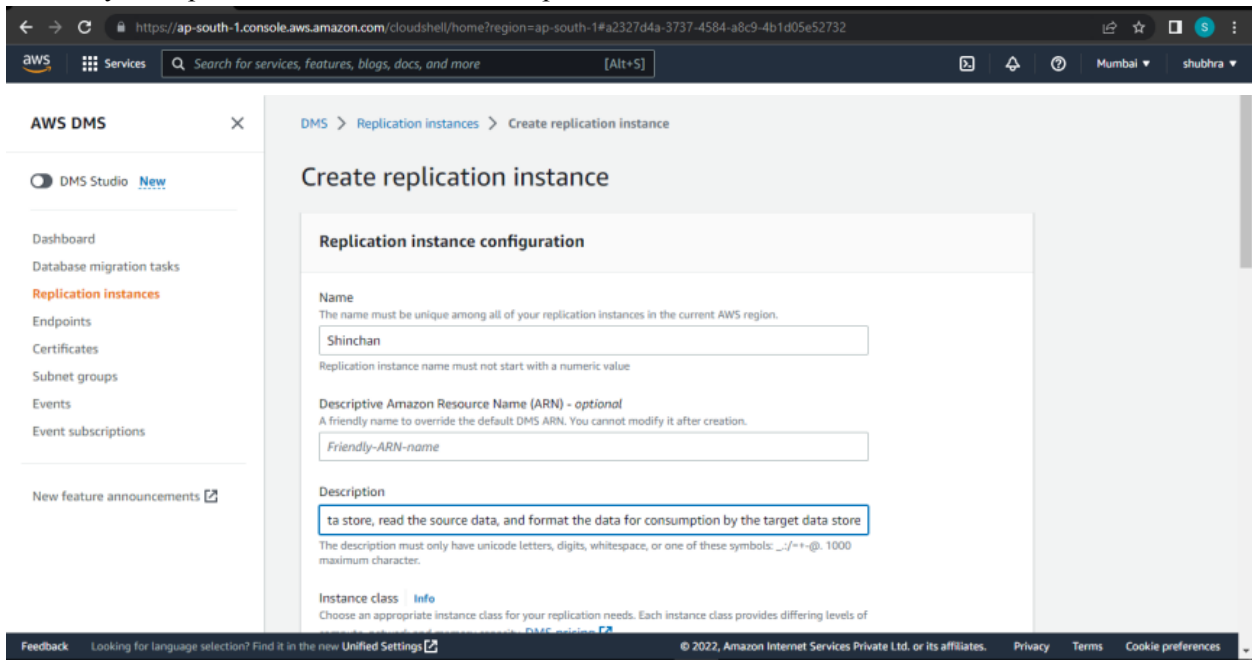
3. Open Replication Instances



4. Click on Create Replication Instance



5. Enter your replication instance name description



6. Give the required details and click CREATE

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

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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.

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

vpc-08138762bfb9e804d

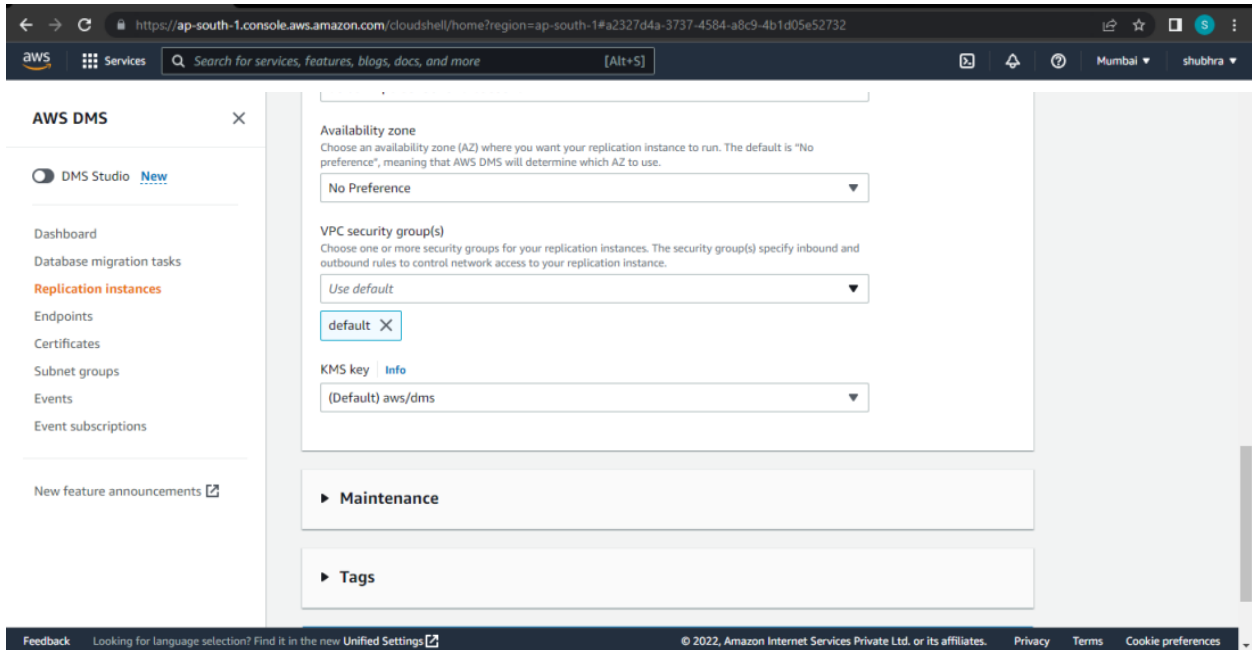
Multi AZ
The Multi-AZ option deploys a primary replication instance in one Availability Zone (AZ) and a standby in another AZ. The Single-AZ option deploys a single replication instance in one AZ. Billing is based on DMS pricing.

Dev or test workload (Single-AZ)

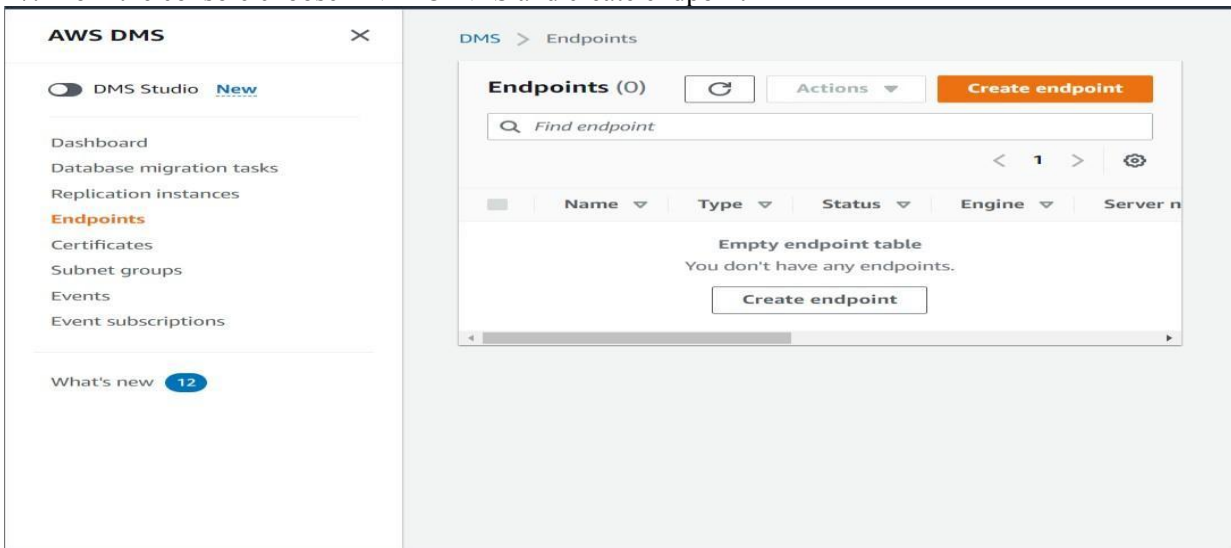
☒ **Publicly accessible**
If you choose this option, AWS DMS will assign a public IP address to your replication instance, and you'll be able to connect to databases outside of your Amazon VPC.

Advanced security and network configuration

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7. From the console choose ENDPOINTS and create endpoint



8. Select the ENDPOINT TYPE

AWS DMS X

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

9. Give the required information

AWS DMS X

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

AWS DMS

Dashboard

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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

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What's new 12

Notifications

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
 ☐ Editor

Enter endpoint settings using the guided user interface.

Enter endpoint settings in JSON format.

Endpoint settings

Add new setting

☐ Use endpoint connection attributes

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

AWS DMS

Dashboard

Database migration tasks

Replication instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

What's new 12

Notifications

Test endpoint connection (optional)

VPC

vpc-

Replication instance

A replication instance performs the database migration

test-instance

⚠

Your endpoint will always be created even if the connection fails
 After clicking 'Run test', DMS creates the endpoint with the details you provided and attempts to connect to it. If the connection fails, you can edit the endpoint definition and test the connection again. You can also delete the endpoint manually.

Run test

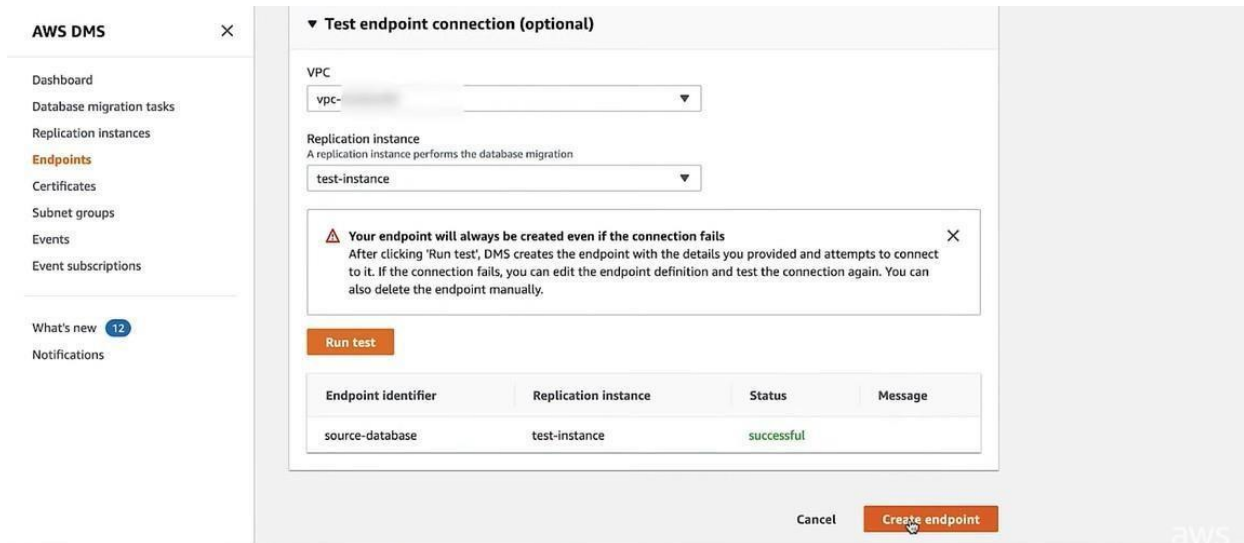
Endpoint identifier

Replication instance

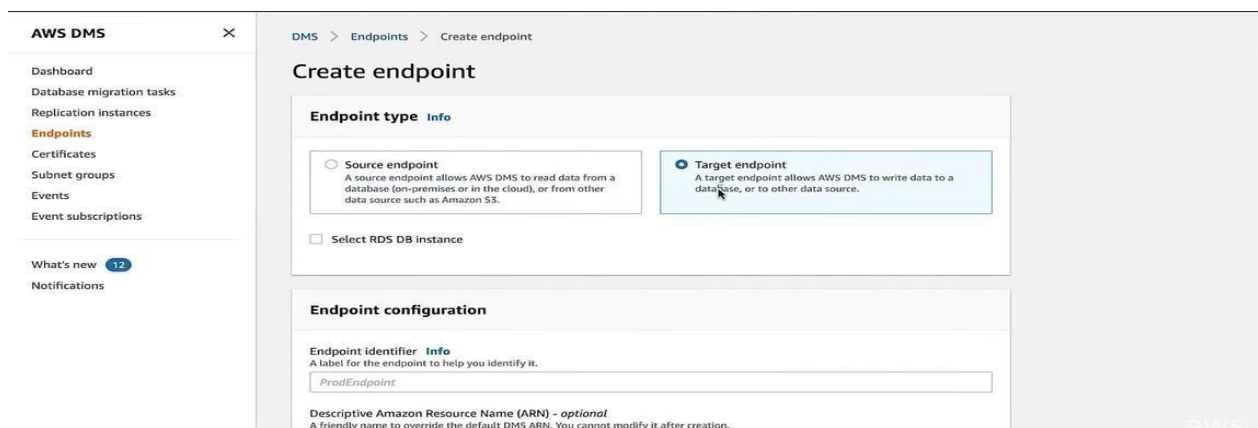
Status

Message

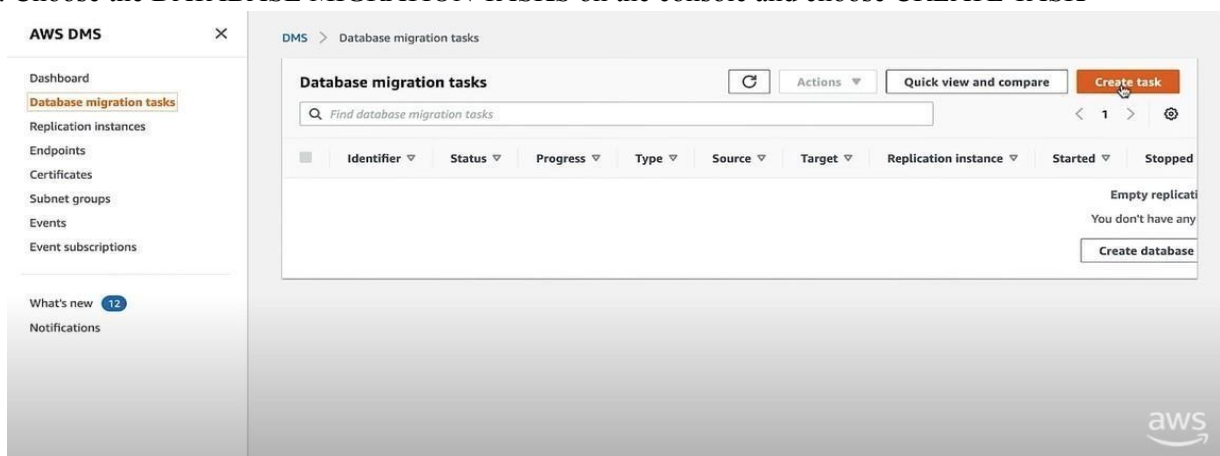
No records found



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. Create the task by giving required details

AWS DMS

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

What's new 12

Notifications

DMS > Database migration tasks > Create database migration task

Create database migration task

Task configuration

Task identifier

test-task

Descriptive Amazon Resource Name (ARN) - optional
A friendly name to override the default DMS ARN. You cannot modify it after creation.

test

Replication instance

Choose a replication instance

Source database endpoint

Choose a source database endpoint

Target database endpoint

Choose a target database endpoint

aws

14. Click on Migrate existing data for one time migration and in task setting update the fields as required.

Replication instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

What's new 12

Notifications

source-database endpoint

source-database

Target database endpoint

target-database

Migration type Info

Migrate existing data

Migrate existing data and replicate ongoing changes

Replicate data changes only

database schema and code to the engine of your choice. Click here to find out more. Learn more

aws

15. After giving the required details choose create task.

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

aws

16. Run the task.

The screenshot shows the AWS DMS console interface. 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 'Database migration tasks (1)' and contains a table with the following data:

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-07:00)

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

This screenshot displays the detailed view of the 'test-task' in the AWS DMS console. The 'Summary' section shows the task's status as 'Load complete', type as 'Full load', source as 'source-database', and target as 'target-database'. Below this, the 'Table statistics' tab is selected, showing a table with the following data:

Validation pending	Validation failed	Validation suspended	Validation details	Last updated
0	0	0		September 23, 2021, 12:37:42 (UTC-07:00)