

Experiment 8

Migrating to Amazon RDS

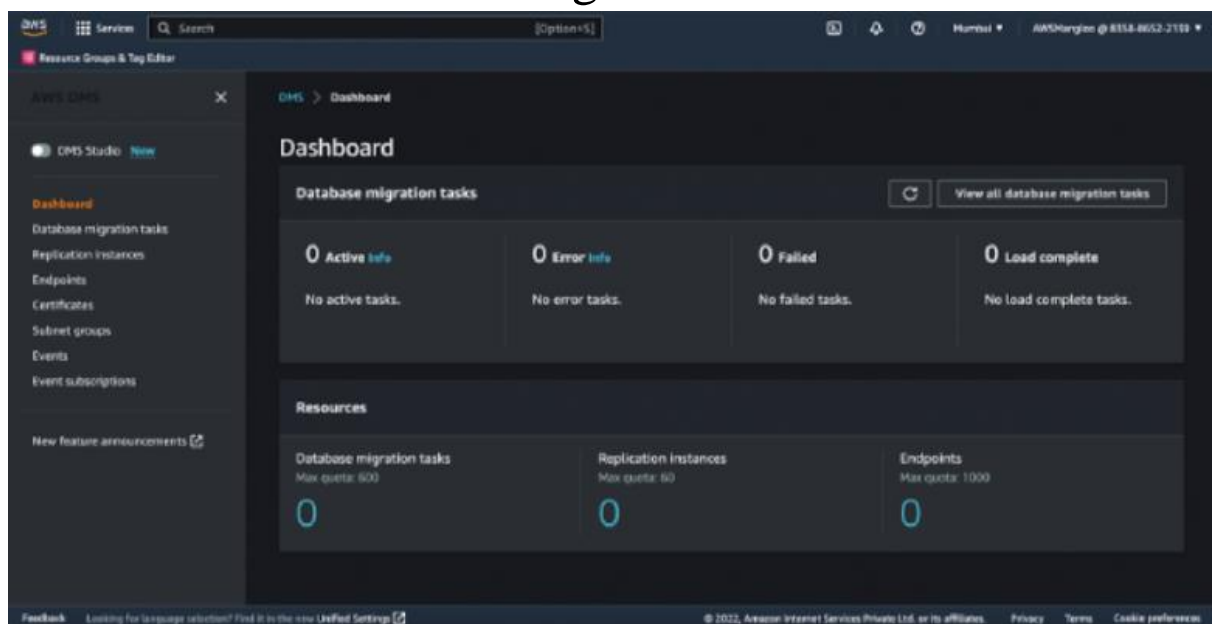
Name: Mukund Maheshwari

Reg No: RA2011028010086

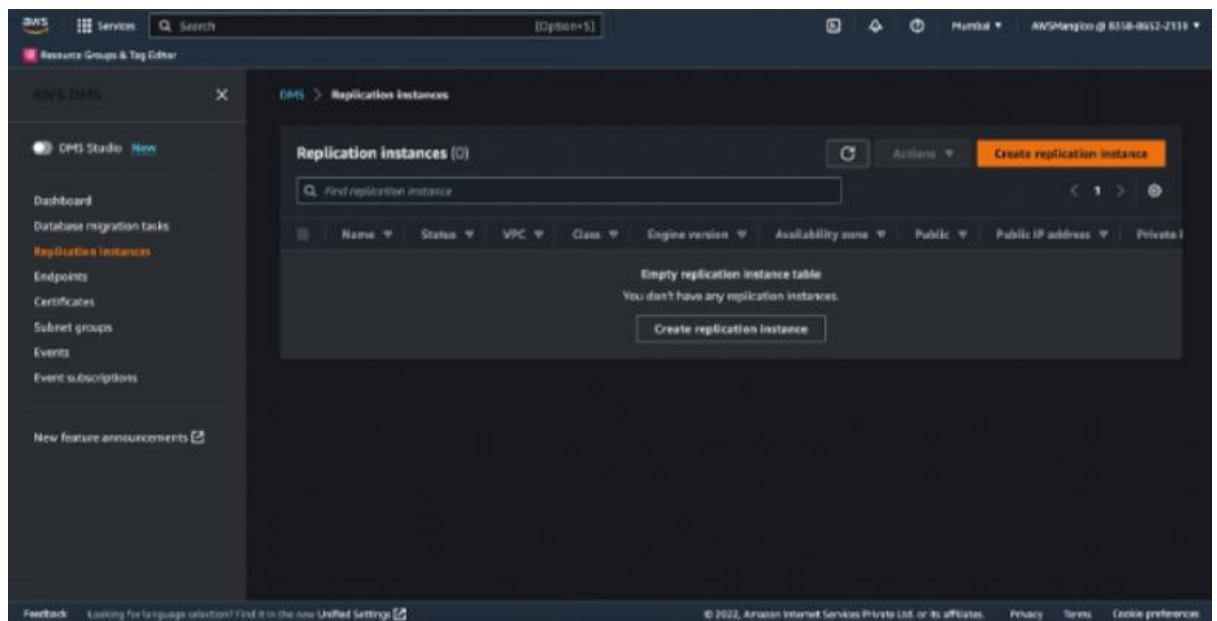
Aim: Migrating to AWS RDS

Procedure:

1. Search for Database Management Service



2. Open Replication Instances



3. Create Replication Instances

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 > Create replication instance

Create replication instance

Replication instance configuration

Name

The name must be unique among all of your replication instances in the current AWS region.

test-instance

Replication instance name must not start with a numeric value

Descriptive Amazon Resource Name (ARN) - optional

A friendly name to override the default DMS ARN. You cannot modify it after creation.

test-instance

Description

test DMS replication instance

The description must only have unicode letters, digits, whitespace, or one of these symbols: _/#+@. 1000 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

Feedback

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DMS Studio

New

Dashboard

Database migration tasks

Replication Instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

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Create replication instance

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.

20

VPC

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

vpc-0ff4be3e874c31406

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Resource Groups & Tag Editor

AWS DMS

DMS Studio

Dashboard

Database migration tasks

Replication instances

Endpoints

Certificates

Subnet groups

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Event subscriptions

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VPC

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

vpc-0ff4be3e874c31406

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 your replication instance can use within the Amazon VPC you've chosen.

default-vpc-0ff4be3e874c31406

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

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Resource Groups & Tag Editor

AWS DMS

DMS Studio

Dashboard

Database migration tasks

Replication instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

New feature announcements

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

KMS key

Info

(Default) aws/dms

Maintenance

Tags

DMS requires access permissions to manage your VPC resources. By clicking Create replication instance, you grant permission for DMS to create a role that has this access.

Cancel

Create

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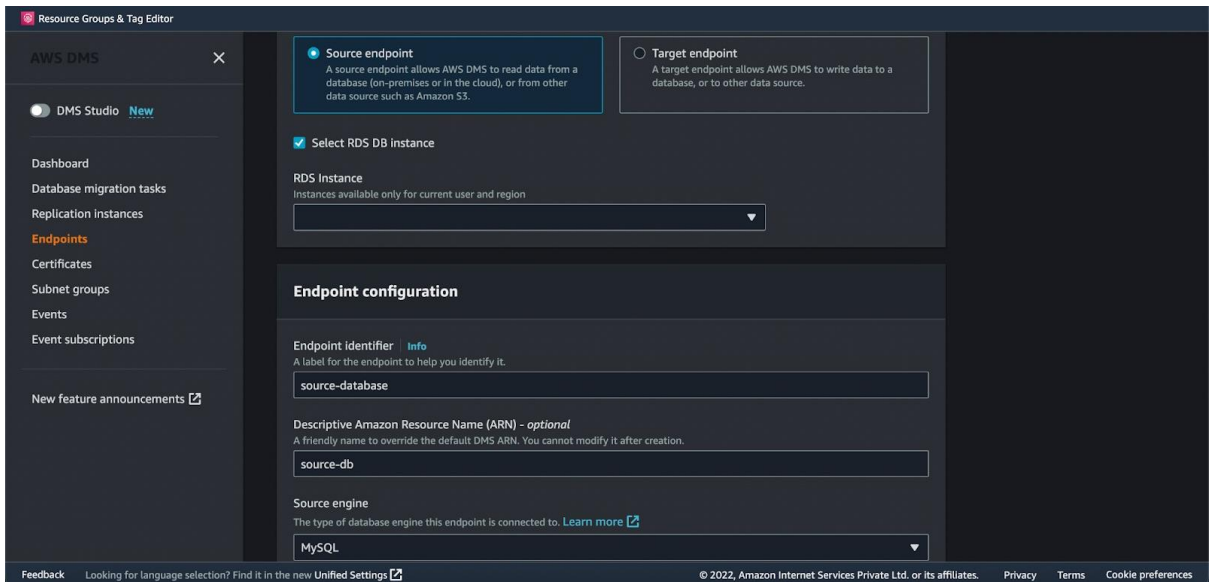
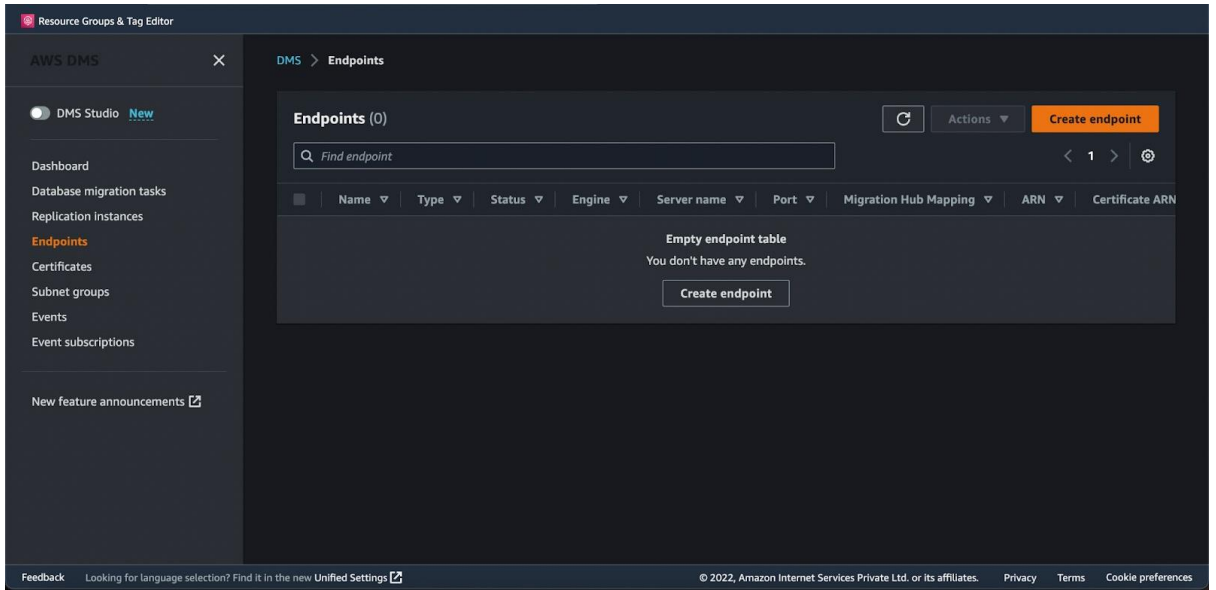
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4. Create Endpoints



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DMS Studio [New](#)

Dashboard

Database migration tasks

Replication Instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

New feature announcements [🔗](#)

MySQL

Access to endpoint database

☐ AWS Secrets Manager

☒ Provide access information manually

Server name

The name of the data server for the data provider.

source-database.c39ashxumfg.ap-south-1.rds.amazonaws.com

Port

The port the database runs on for this endpoint.

3306

User name [Info](#)

admin

Password [Info](#)

Secure Socket Layer (SSL) mode

The type of Secure Socket Layer enforcement

none

► Endpoint settings

► KMS key

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5. Create Database Migration Task

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Dashboard

Database migration tasks

Replication Instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

New feature announcements [🔗](#)

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

test-instance - vpc-0ff4be3e874c31406

[🔔](#) Upgrades to versions 3.4.7 and higher

You have 1 instance that uses AWS DMS version 3.4.7. 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 these data stores: S3, Kinesis, Secrets Manager, DynamoDB, Amazon Redshift, and OpenSearch Service. [Learn more](#) [🔗](#)

[View endpoints](#)

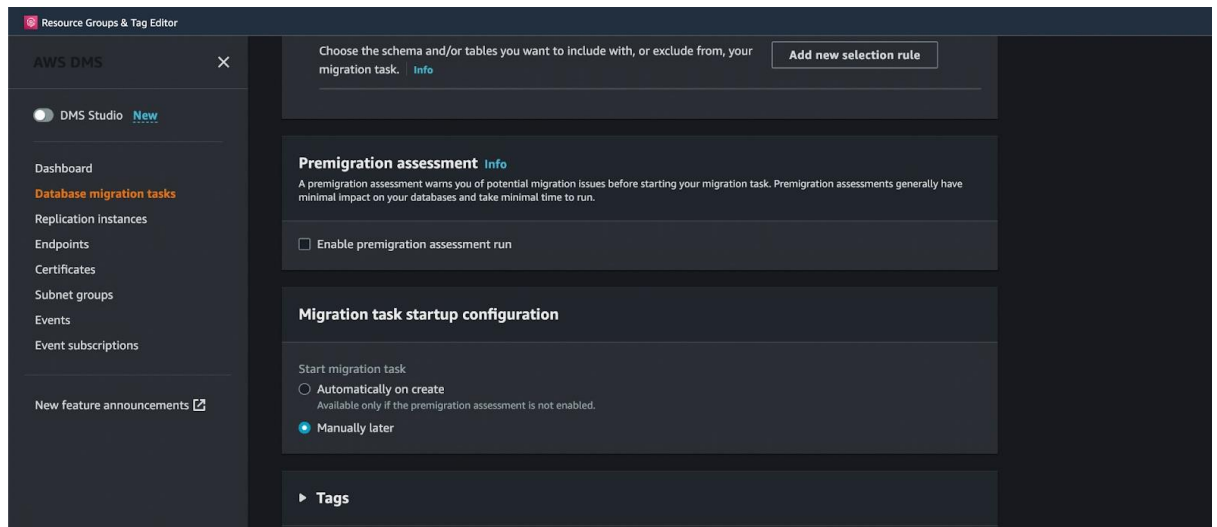
Source database endpoint

source-database

Target database endpoint

[Choose a target database endpoint](#)

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Result:

Hence, we migrated data to Amazon RDS.