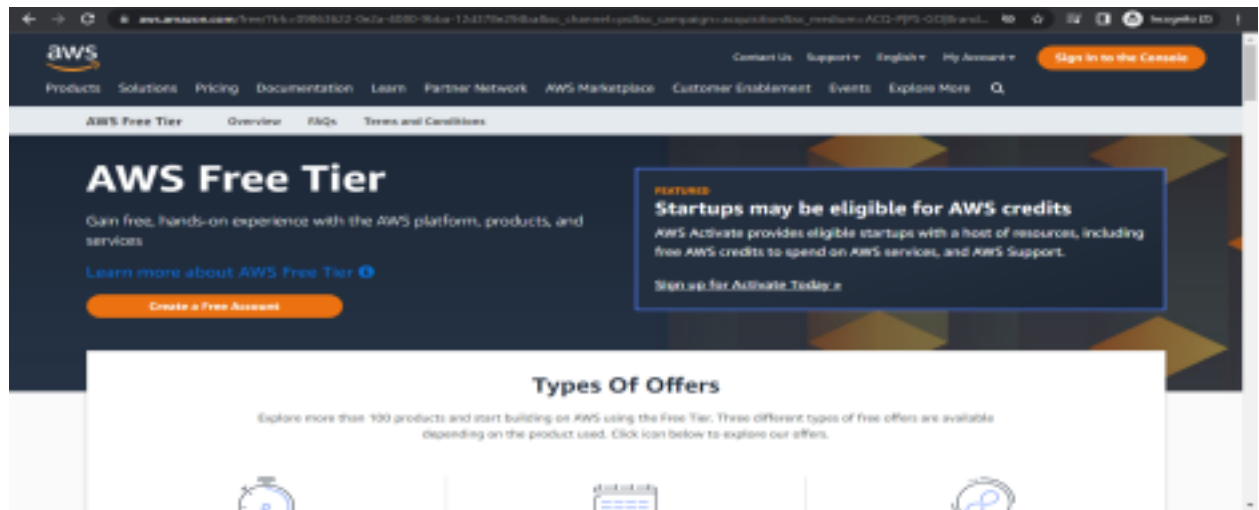


EXPERIMENT 8

Aim :- Migrate to Amazon RDS

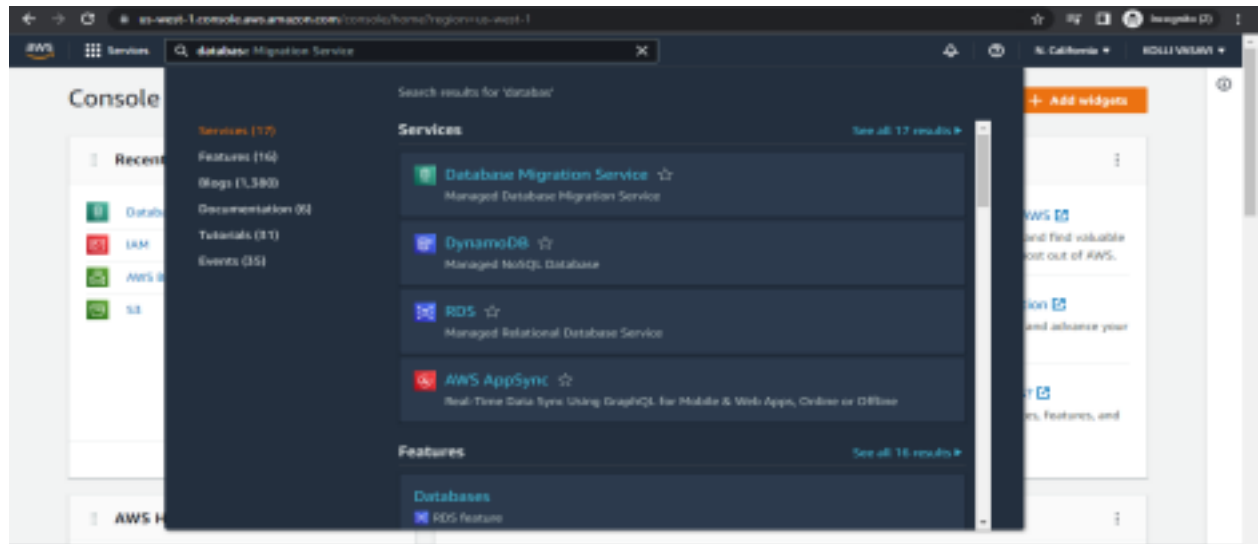
PROCEDURE:

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-Pc3j6qaBSDqVs-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

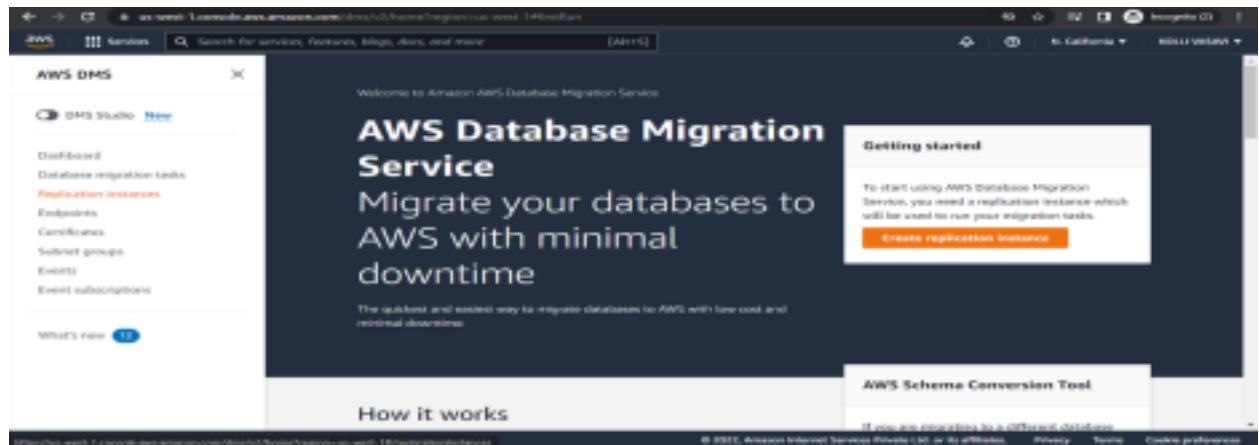


Login to your AWS account

2.

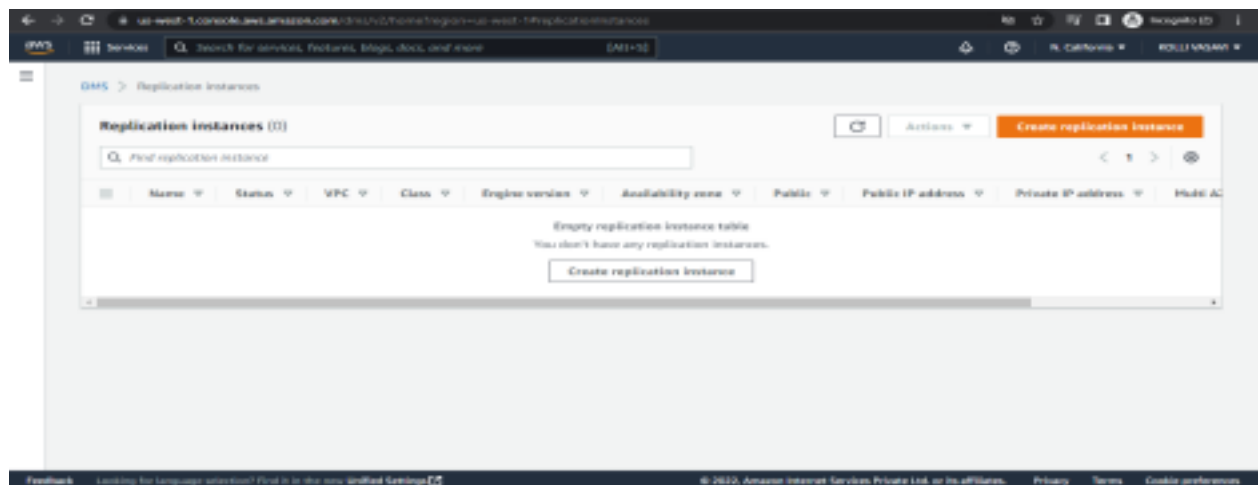


Search for DATABASE MANAGEMENT SERVICE
3.



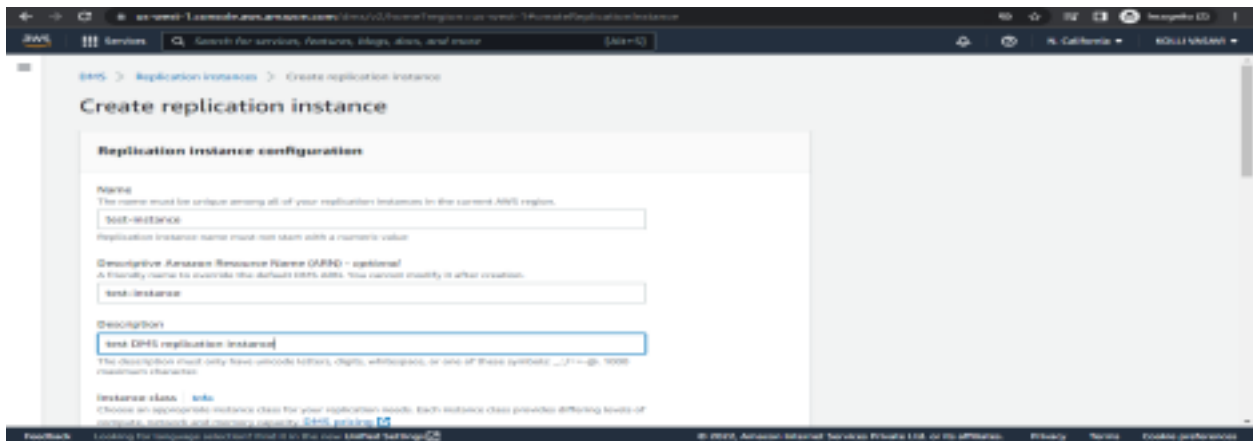
Open REPLICATION INSTANCES

4.



Click on CREATE REPLICATION INSTANCE

5.



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

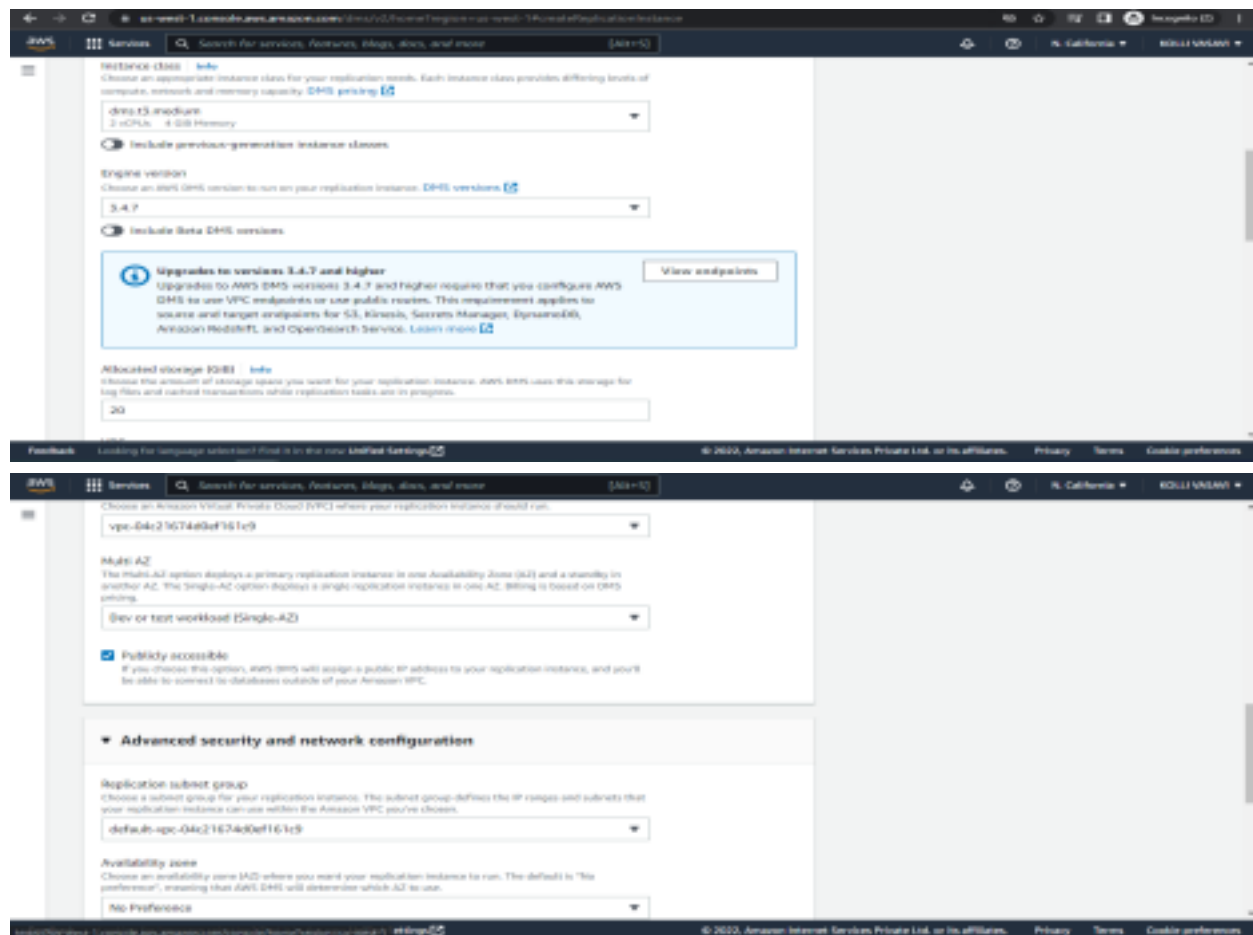
Descriptive Amazon Resource Name (ARN) - optional
A friendly name to override the default DMS ARN. You cannot modify it after creation.
test-instance

Description
The description must only have unicode letters, digits, whitespace, or one of these symbols: _ . / - = @ . 1 - 9000 maximum characters.
test DMS replication instance

Instance class
Choose an appropriate instance class for your replication needs. Each instance class provides differing levels of compute, network and memory capacity. [DMS pricing](#)

Enter your replication instance NAME, DESCRIPTION

6.



Instance class
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 GB 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

Upgrade 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)
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-04c21674d0ef161c9

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.

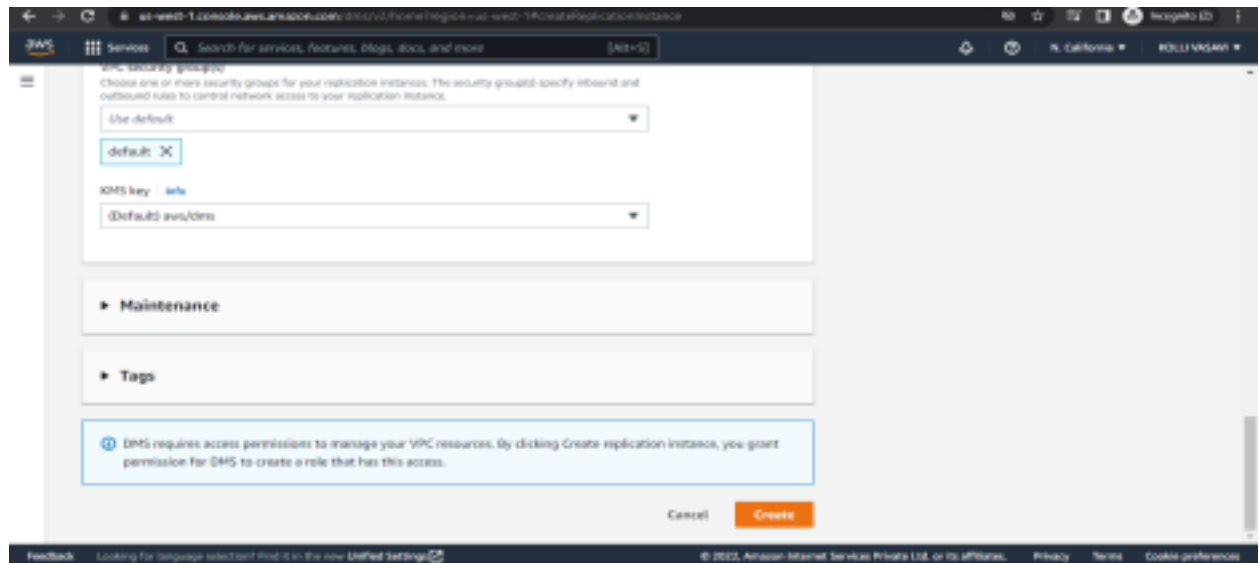
Advanced security and network configuration

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-vgp-04c21674d0ef161c9

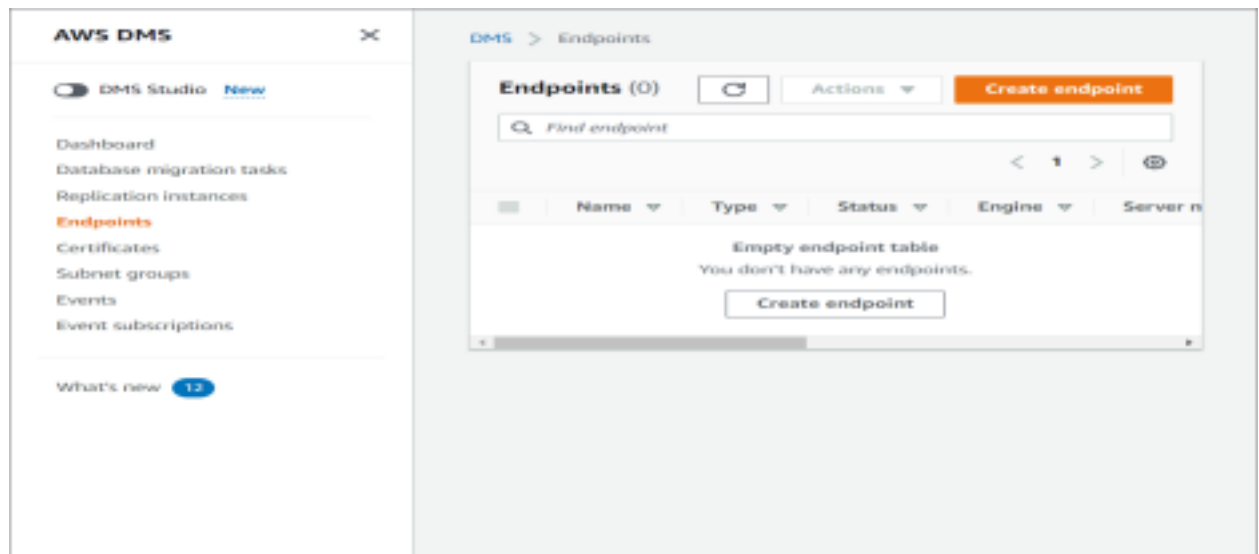
Availability zone
Choose an availability zone (AZ) where you want your replication instance to run. The default is "No preference", meaning that AWS DMS will determine which AZ to use.

No Preference



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**

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

source-database

Endpoint configuration

Select the ENDPOINT TYPE
9.

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 here.

AWS DMS

Dashboard

Database migration tasks

Replication instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

What's new

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.c35wtdumfg.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

admin

Password

Endpoint settings

AWS DMS

Dashboard

Database migration tasks

Replication instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

What's new

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

admin

Password

Endpoint settings

Define additional specific settings for your endpoints using wizard or editor. [Learn more](#)

☒ Wizard
 ☐ Editor

Endpoint settings

Add new setting

Use endpoint connection attributes

AWS DMS

Dashboard

Database migration tasks

Replication instances

Endpoints

Certificates

Subnet groups

Events

Event subscriptions

What's new

Notifications

Use endpoint connection attributes

KMS master key

KMS master key

(Default) aws/dms

Account

-

Description

-

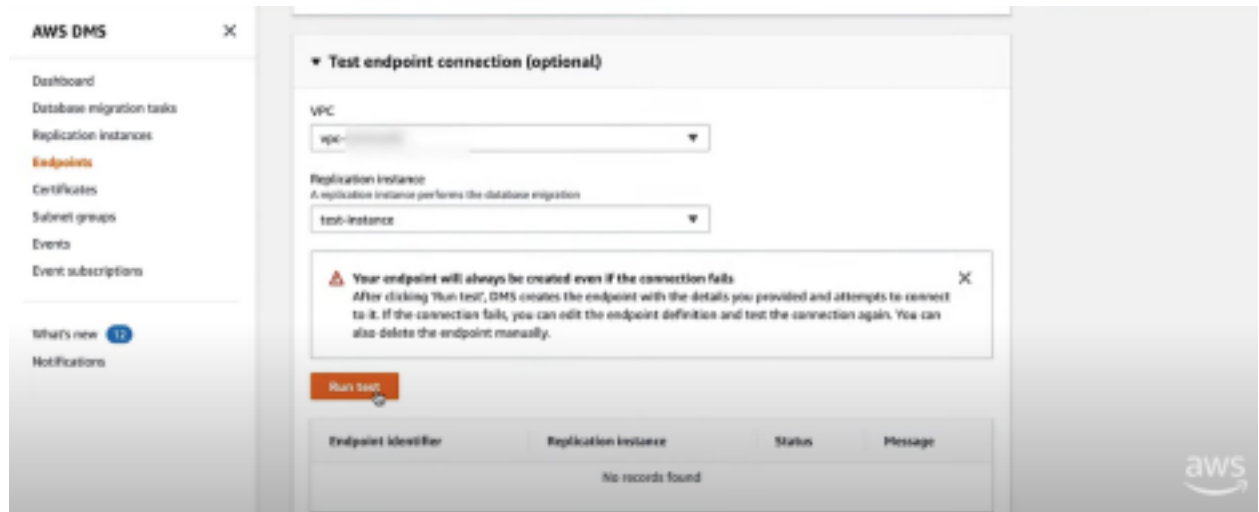
Key ARN

-

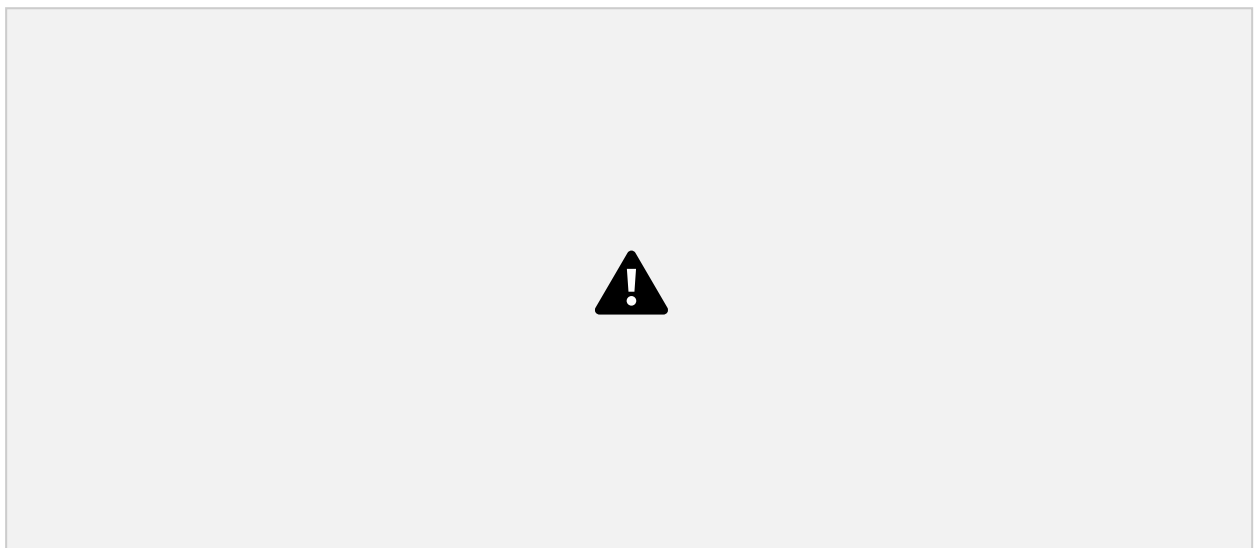
Tags

Give the required information

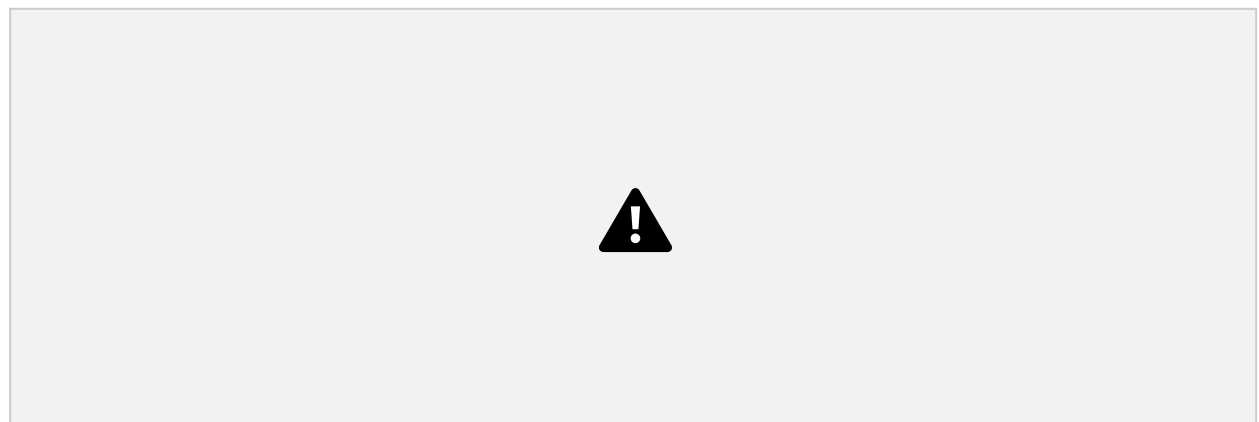
10.



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.



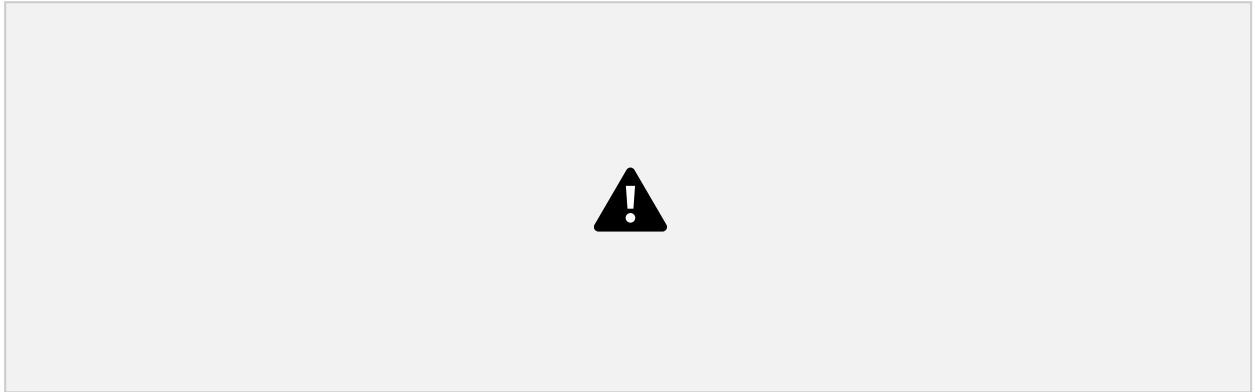
Create the task by giving required details

14.



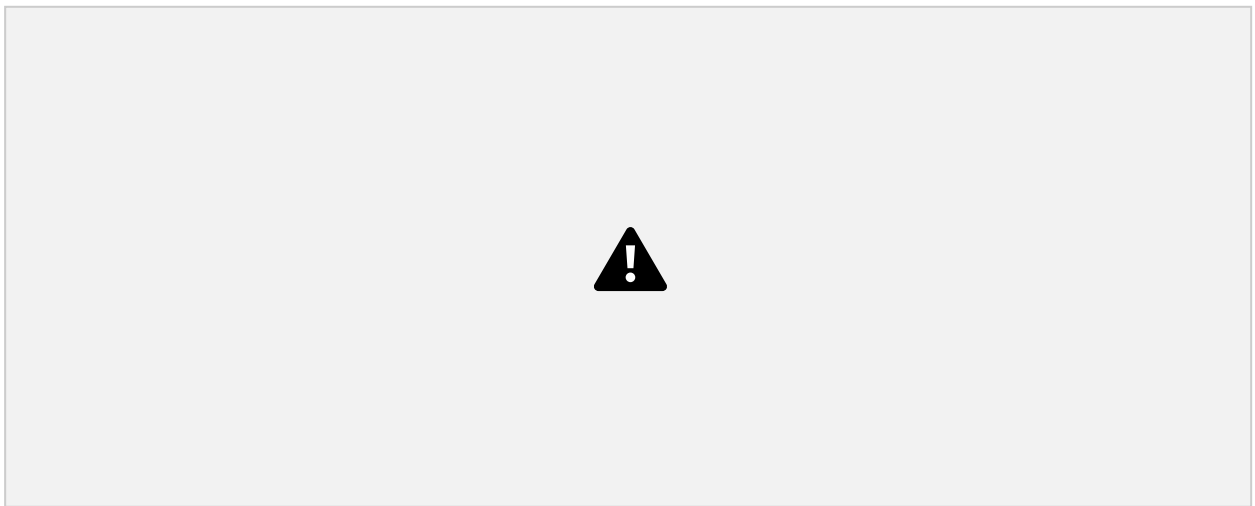
Click on Migrate existing data for one time migration and in task setting update the fields as required.

15.



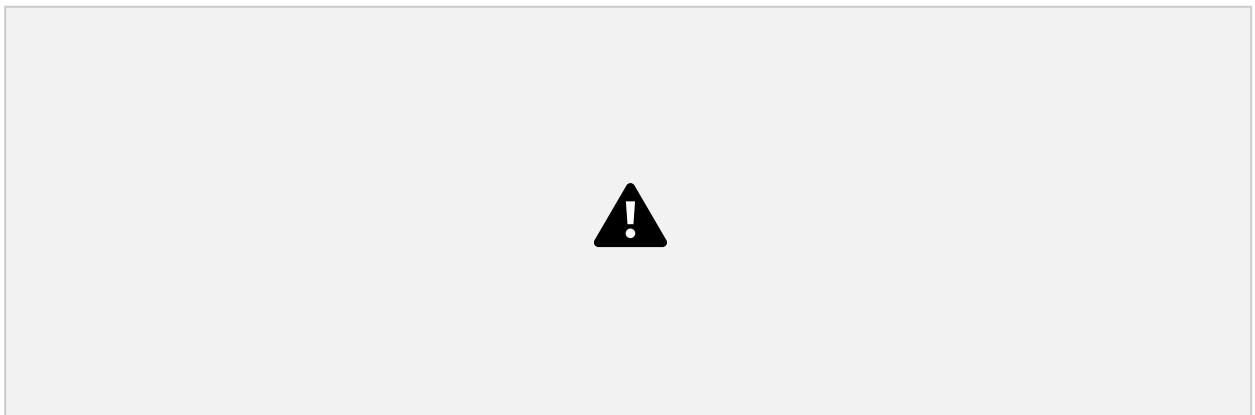
After giving the required details choose create task.

16.



Run the task.

17.



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

RA2011028010104

Roshini Jammula