Problem Statement:

You work for XYZ Corporation. Their application requires a SQL service that can store data which can be retrieved if required. Implement a suitable RDS engine for the same.

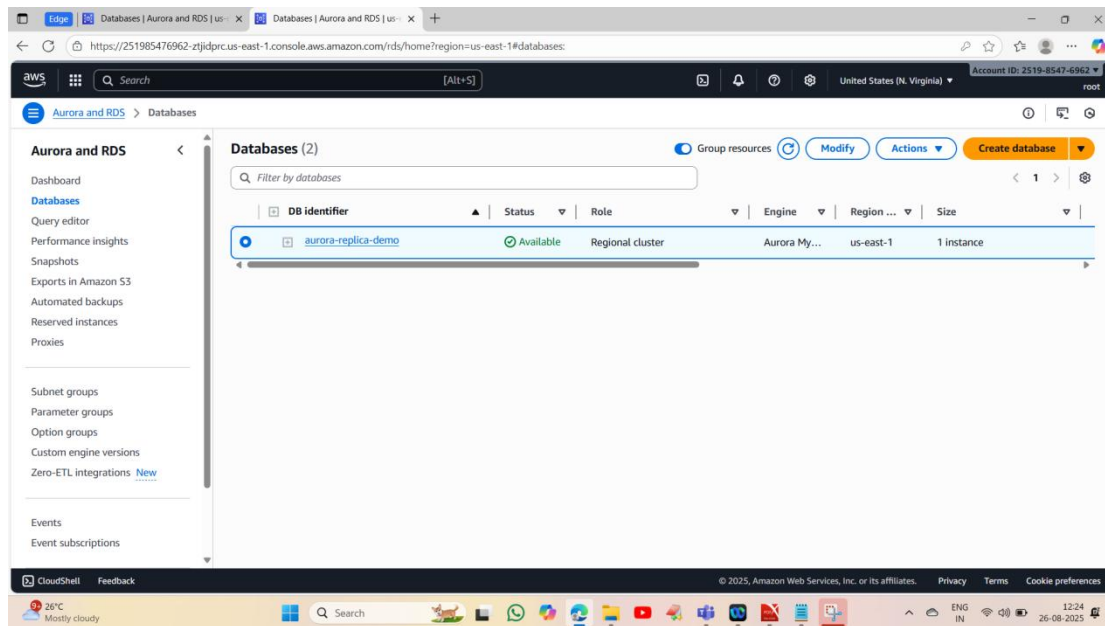## While migrating, you are asked to perform the following tasks:

1. Create an AuroraDB Engine based RDS Database.
2. Create 2 Read Replicas in different availability zones for better infrastructure availability.

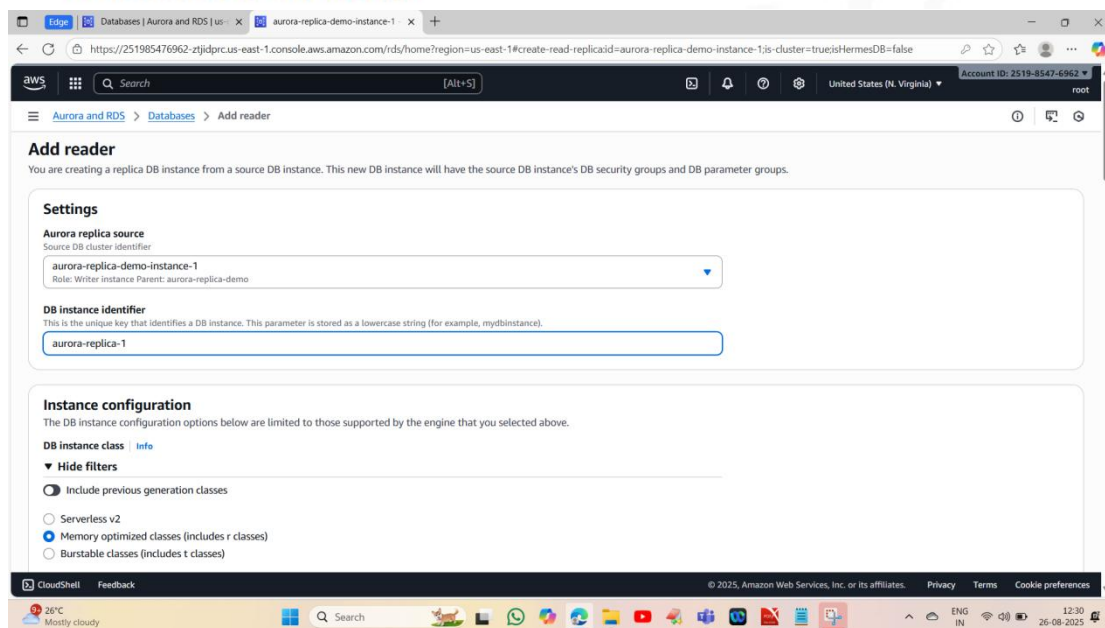## 1. Create an AuroraDB Engine based RDS Database.

2. Create 2 Read Replicas in different availability zones for better infrastructure availability.

Connectivity

Public access

- ● Publicly accessible
  RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.

- ○ Not publicly accessible
  No IP address is assigned to the DB instance. EC2 instances and devices outside the VPC can't connect.

Availability Zone Info
The EC2 Availability Zone that the database will be created in.

us-east-1b ▼

Certificate authority - *optional* Info
Using a server certificate provides an extra layer of security by validating that the connection is being made to an Amazon database. It does so by checking the server certificate that is automatically installed on all databases that you provision.

rds-ca-rsa2048-g1 (default) ▼
Expiry: May 26, 2061

If you don't select a certificate authority, RDS chooses one for you.

▶ **Additional configuration**

Database authentication Info

Password authentication is always active for your database engine. You can also turn on additional authentication methods for your database below.

Add reader

You are creating a replica DB instance from a source DB instance. This new DB instance will have the source DB instance's DB security groups and DB parameter groups.

Settings

Aurora replica source
Source DB cluster identifier

aurora-replica-demo-instance-1 ▼
Role: Writer instance Parent: aurora-replica-demo

DB instance identifier
This is the unique key that identifies a DB instance. This parameter is stored as a lowercase string (for example, mydbinstance).

aurora-replica-2

Instance configuration

The DB instance configuration options below are limited to those supported by the engine that you selected above.

DB instance class Info

▼ **Hide filters**

◯⬤ Include previous generation classes

- ○ Serverless v2
- ● Memory optimized classes (includes r classes)
- ○ Burstable classes (includes t classes)

Account ID: 2519-8547-6962 ▼

United States (N. Virginia) ▼ root

Q Search [Alt+S]

Aurora and RDS > Databases > Add reader

Availability Zone Info
The EC2 Availability Zone that the database will be created in.

us-east-1c ▼

Certificate authority - *optional* Info
Using a server certificate provides an extra layer of security by validating that the connection is being made to an Amazon database. It does so by checking the server certificate that is automatically installed on all databases that you provision.

rds-ca-rsa2048-g1 (default)
Expiry: May 26, 2061 ▼

If you don't select a certificate authority, RDS chooses one for you.

▶ **Additional configuration**

Database authentication Info
Password authentication is always active for your database engine. You can also turn on additional authentication methods for your database below.

☐ IAM database authentication
Authenticates using IAM database authentication.

☐ Kerberos authentication
Authenticates using Kerberos authentication through an AWS Directory Service for Microsoft Active Directory.

Tags - *optional*
A tag consists of a case-sensitive key-value pair.

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Aurora and RDS > Databases

Aurora and RDS ‹

Dashboard
Databases
Query editor
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Events
Event subscriptions

Databases (4)

Group resources

Modify   Actions ▼   **Create database** ▼

‹ 1   Create database

Q Filter by databases

	DB identifier ▲	Status ▽	Role ▽	Engine ▽	Region ... ▽	Size ▽
⦿ ⊟	aurora-replica-demo	⊘ Available	Regional cluster	Aurora My…	us-east-1	3 instances
○	aurora-replica-1	⊘ Available	Reader instance	Aurora My…	us-east-1b	db.r5.large
○	aurora-replica-2	⊘ Available	Reader instance	Aurora My…	us-east-1c	db.r5.large
○	aurora-replica-demo-instance-1	⊘ Available	Writer instance	Aurora My…	us-east-1a	db.r5.large

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