## Module 7: Aurora Assignment

**AWS Solutions Architect Training** 



### Problem Statement:

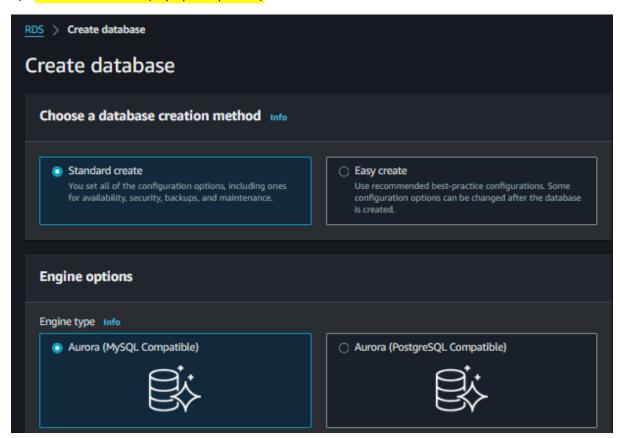
You work for XYZ Corporation. Their application requires a SQL service that can store data which can be retrieved if required. Implement a suitable RDS engine for the same.

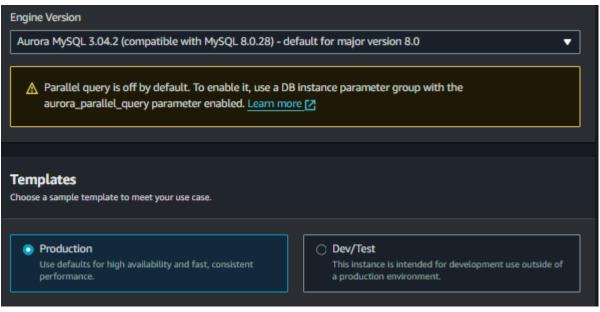
# While migrating, you are asked to perform the following tasks:

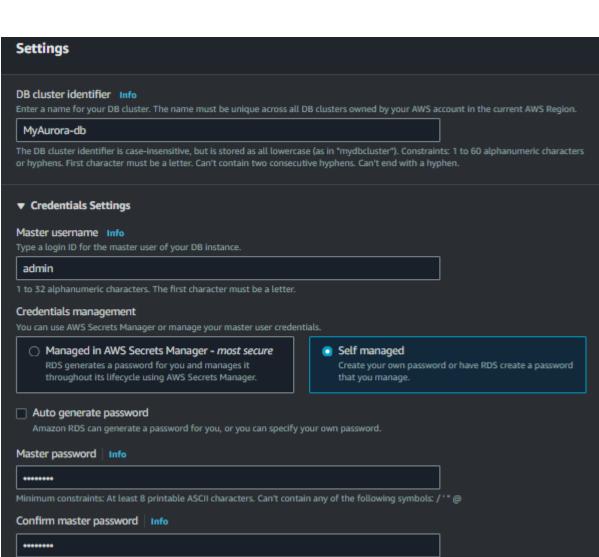
- 1. Create an AuroraDB Engine based RDS Database.
- Create 2 Read Replicas in different availability zones for better infrastructure availability.

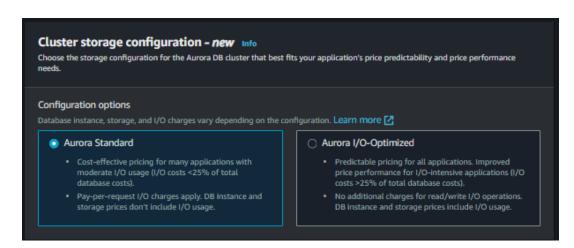
### Solution:

1) Created aurora db (MySql compatible)

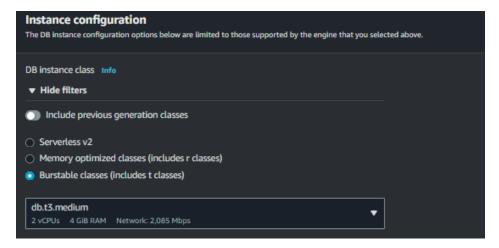


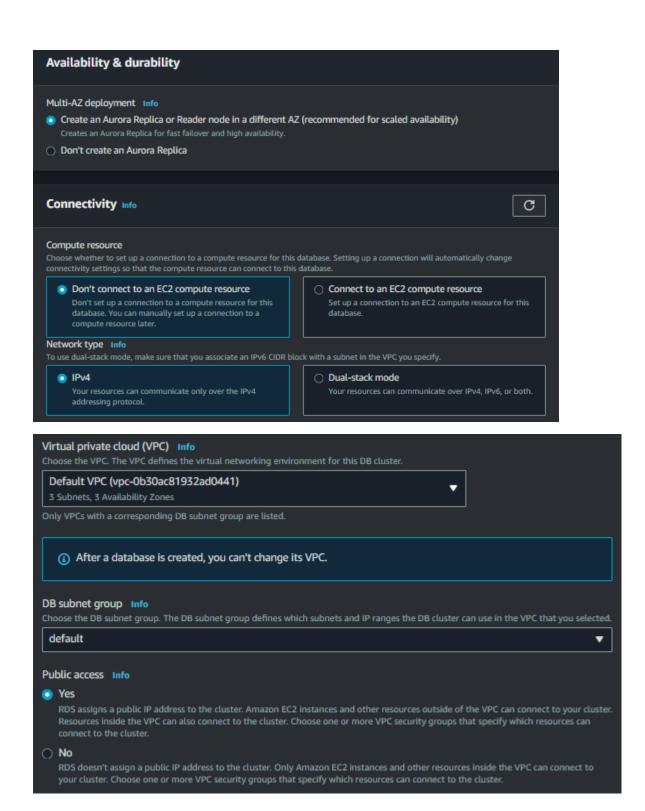


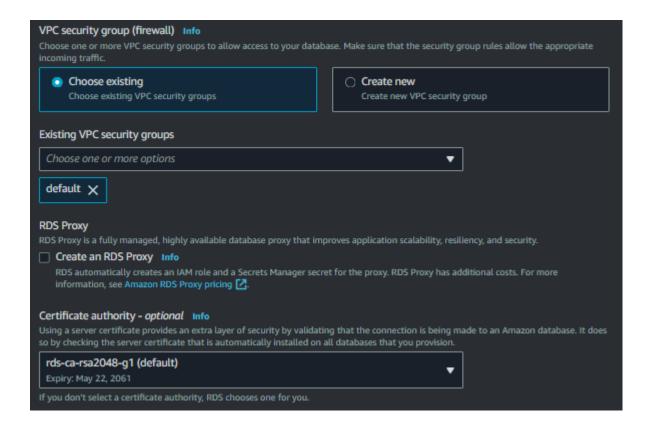


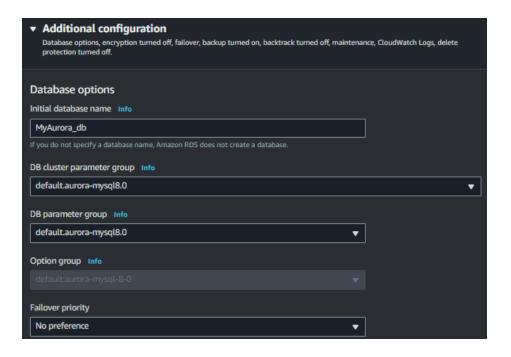


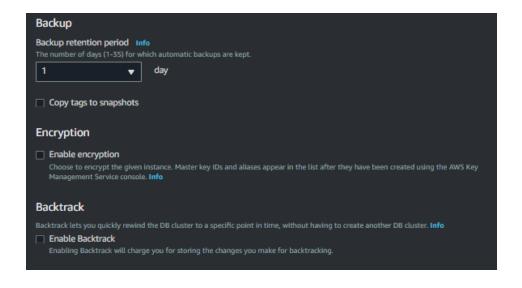
### 2. Make sure on here select burstable

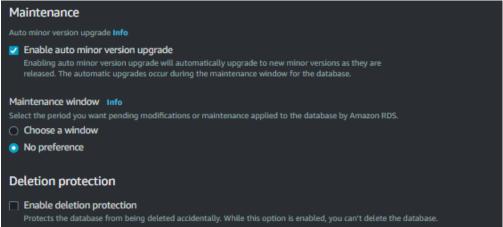












# Estimated Monthly costs DB instance 91.98 USD Total 91.98 USD This billing estimate is based on on-demand usage as described in Amazon Aurora Pricing [♣]. Estimate does not consider reserved instance benefits and costs for instance storage, IOs, or data transfer. Estimate your monthly costs for the DB Instance using the AWS Simple Monthly Calculator [♣]. ① You are responsible for ensuring that you have all of the necessary rights for any third-party products or services that you use with AWS services. Cancel Create database

### 2) Download & install XAMPP from google & click on shell



### 3) Connect to the writer db

Run command: mysql -h endpoint -u admin -p

Enter Password: admin123

Run command: show databases;

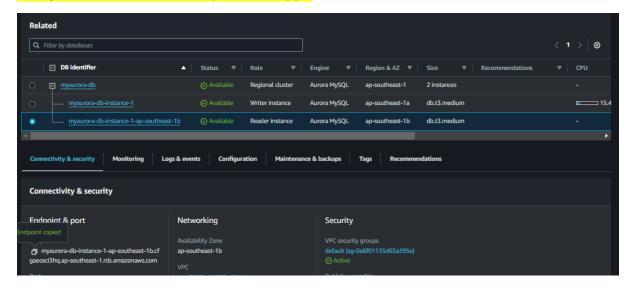
```
Setting environment for using XAMPP for Windows.
Salman Farsi@DESKTOP-LN1OGKQ c:\xampp
# mysql -h myaurora-db.cluster-ro-cfgaeosci3hq.ap-southeast-1.rds.amazonaws.com -u admin -p
Enter password: ******
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MySQL connection id is 77
Server version: 8.0.28 Source distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MySQL [(none)]> show databases;
 Database
  MyAurora db
  information_schema
  mysql
  performance_schema
  sys
  rows in set (0.132 sec)
MySQL [(none)]>
```

Run command: use MyAurora\_db;

Create Database id;

Its created id because it is regional cluster

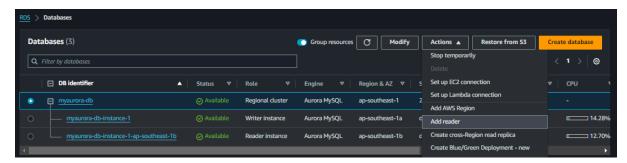
Now go to reader and select endpoint and copy it

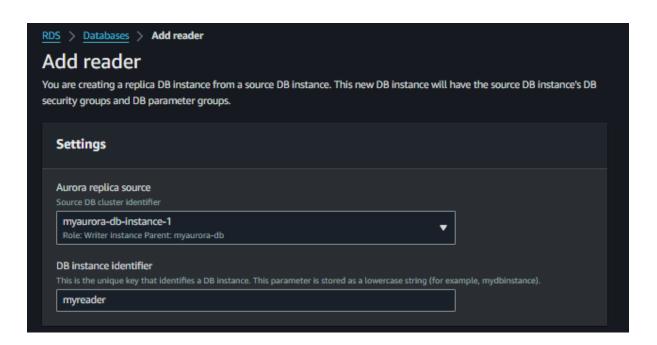


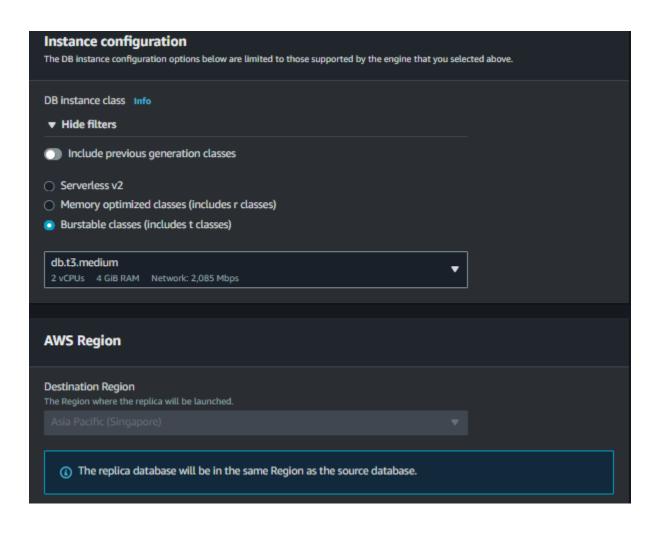
### Here we are unable to create because it is reader

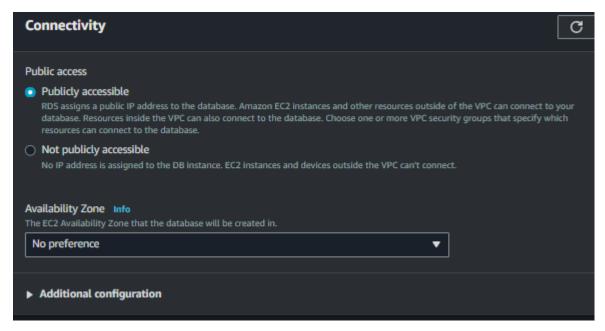
```
Salman Farsi@DESKTOP-LN1OGKQ c:\xampp
t mysql -h myaurora-db-instance-1-ap-southeast-1b.cfgaeosci3hq.ap-southeast-1.rds.amazonaws.com -u admin -p
Enter password: ******
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MySQL connection id is 81
Server version: 8.0.28 Source distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MySQL [(none)]> show databases;
 Database
  MyAurora_db
  information\_schema
  performance_schema
  sys
 rows in set (0.150 sec)
MySQL [(none)]> create database id;
ERROR 1836 (HY000): Running in read-only mode
MySQL [(none)]>
```

### Add reader

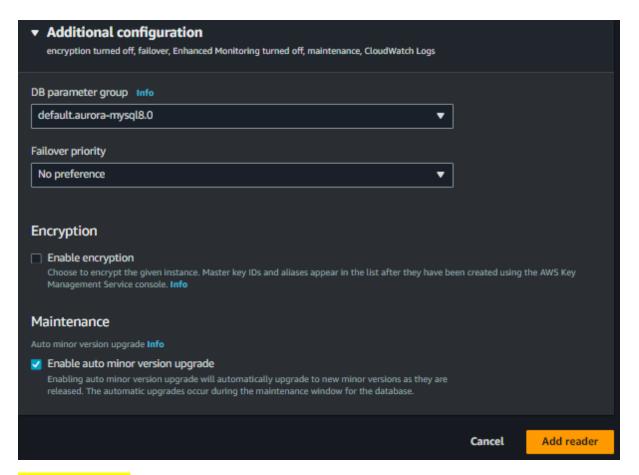




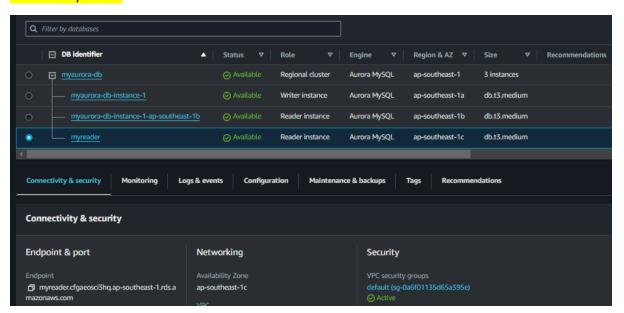




► Additional configuration
Database authentication Info  Password authentication is always active for your database engine. You can also turn on additional authentication methods for your database below.
□ IAM database authentication Authenticates using IAM database authentication. □ Kerberos authentication Authenticates using Kerberos authentication through an AWS Directory Service for Microsoft Active Directory.
Tags A tag consists of a case-sensitive key-value pair.
No tags associated with the resource.  Add new tag  You can add up to 50 more tags.
▼ Additional configuration encryption turned off, failover, Enhanced Monitoring turned off, maintenance, CloudWatch Logs



### Successfully added



Unable to create database becoz it's a reader db so unable to perform the writer operations and getting error "Running in read-only mode"

```
Salman Farsi@DESKTOP-LN1OGKQ c:\xampp
# mysql -h myreader.cfgaeosci3hq.ap-southeast-1.rds.amazonaws.com -u admin -p
Enter password: ******
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MySQL connection id is 53
Server version: 8.0.28 Source distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MySQL [(none)]> show databases;
 Database
 MyAurora_db
 id
 information_schema
 mysql
 performance_schema
6 rows in set (0.130 sec)
MySQL [(none)]> create database name;
ERROR 1836 (HY000): Running in read-only mode
MySQL [(none)]>
```

### Make sure delete the database after completion of the assignment

