

## AWS DATABASE SERVICES

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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 a MariaDB Engine based RDS Database.
2. Connect to the DB using the following ways: a. SQL Client for Windows b. Linux based EC2 Instance.

### A1. MariaDB

The screenshot shows the AWS Management Console interface for Amazon RDS. The left sidebar contains navigation links for Amazon RDS, including Dashboard, Databases, Query Editor, Performance insights, Snapshots, Exports in Amazon S3, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, and Custom engine versions. The main content area displays a notification for 'Creating database database-1' with a 'View credential details' link. Below the notification, there's a section for 'Databases (1)' with a search filter and a table listing the database. The table has columns for DB identifier, Status, Role, Engine, Region, and Size. The database 'database-1' is listed with a status of 'Creating', role of 'Instance', engine of 'MariaDB', region of 'us-east-1f', and size of 'db.t3.micro'.

DB identifier	Status	Role	Engine	Region ...	Size
<a href="#">database-1</a>	Creating	Instance	MariaDB	us-east-1f	db.t3.micro

## SQL CLIENT : XAMP

```
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show database
-> show Bye

rajki@SCORPION c:\xampp
# mysql -h database-2.c5oq42wseko7.us-east-1.rds.amazonaws.com -u admin -p
Enter password: *****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 20
Server version: 11.4.4-MariaDB managed by https://aws.amazon.com/rds/









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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| admin1   |
| information_schema |
| innodb   |
| mysql    |
| performance_schema |
| sys      |
+-----+
6 rows in set (0.230 sec)

MariaDB [(none)]> show table;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the si
```

## SQL: EC2 : Instance - sudo apt instal mysql-client

   [Alt+S]     United States (N. Virginia)  rajnah24@gmail.com 


```
Your MariaDB connection id is 33
Server version: 11.4.4-MariaDB managed by https://aws.amazon.com/rds/

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| admin1   |
| information_schema |
| innodb   |
| mysql    |
| performance_schema |
| sys      |
+-----+
6 rows in set (0.002 sec)

MariaDB [(none)]>
```

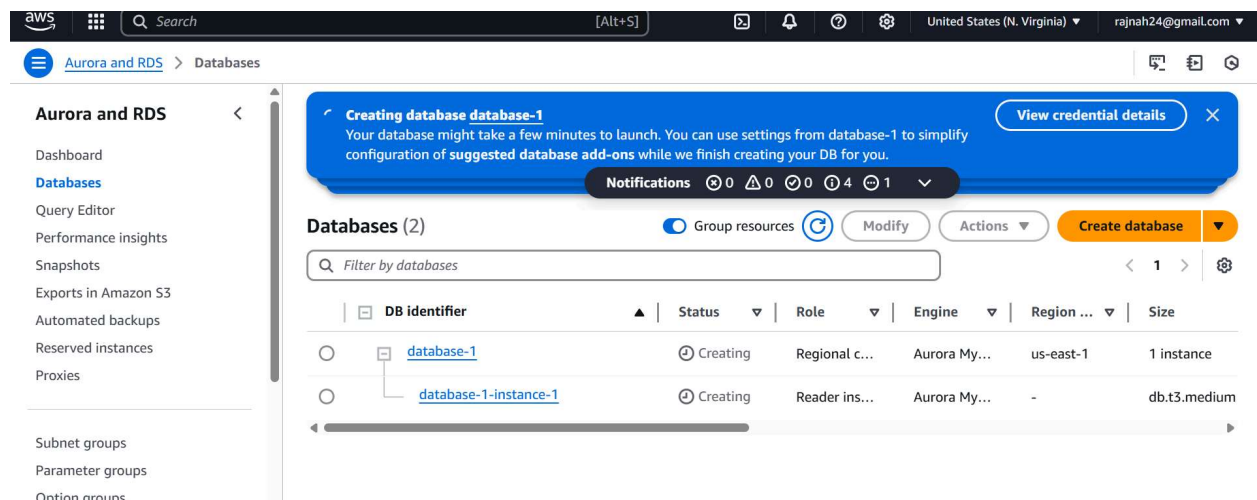
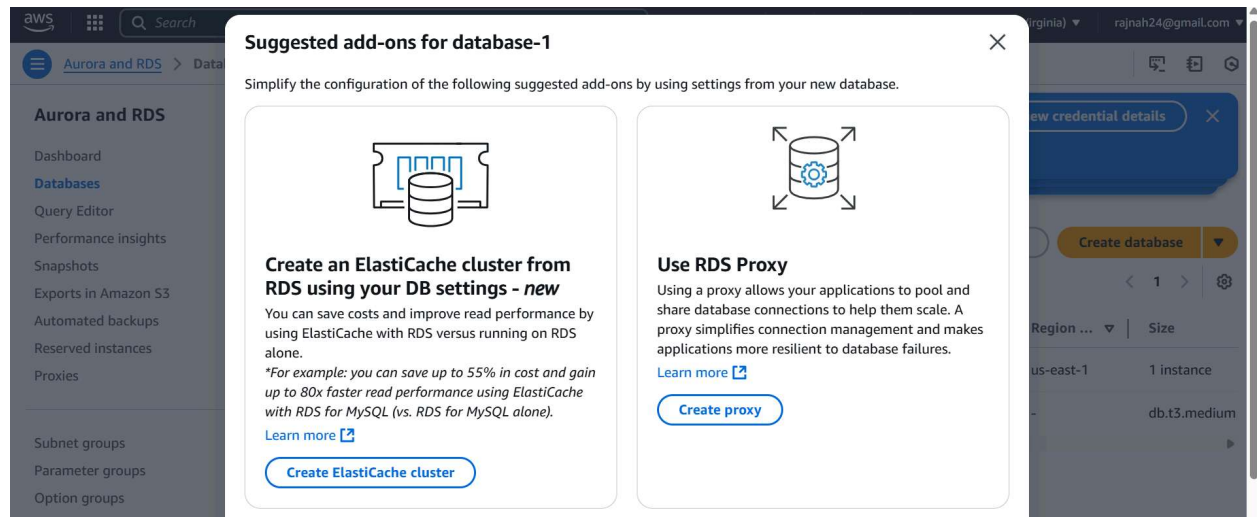
**i-0b3d042779f86d1ad (rds)** 

PublicIPs: 44.200.72.234 PrivateIPs: 172.31.148.99

## 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.



## 2. Read Replica

aws [Search] [Alt+S] United States (N. Virginia) rajnah24@gmail.com

Aurora and RDS > Databases

**Aurora and RDS**

- Dashboard
- Databases**
- Query Editor
- Performance insights
- Snapshots
- Exports in Amazon S3
- Automated backups
- Reserved instances
- Proxies
- Subnet groups
- Parameter groups
- Option groups
- Custom engine versions

Creating replica Reader2 in US East (N. Virginia)  
Your database might take a few minutes to launch.

**Databases (4)** Group resources Modify Actions Create database

Filter by databases

DB identifier	Status	Role	Engine	Region ...	Size
database-1	Available	Regional c...	Aurora My...	us-east-1	3 instances
database-1-instance-1	Available	Writer ins...	Aurora My...	us-east-1d	db.t3.medium
reader2	Creating	Reader ins...	Aurora My...	us-east-1c	db.t3.medium
replicareader	Creating	Reader ins...	Aurora My...	us-east-1b	db.t3.medium

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> show databases;
```

```
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| raj |
| sys |
+-----+
```

5 rows in set (0.01 sec)

```
mysql> use raj;
```

Reading table information for completion of table and column names  
You can turn off this feature to get a quicker startup with -A

Database changed

```
mysql>
```

**i-027535172c41ee774 (db1)**

PublicIPs: 54.221.88.21 PrivateIPs: 172.31.31.228

