### **Module 7: MariaDB Assignment**

#### **Problem Statement:**

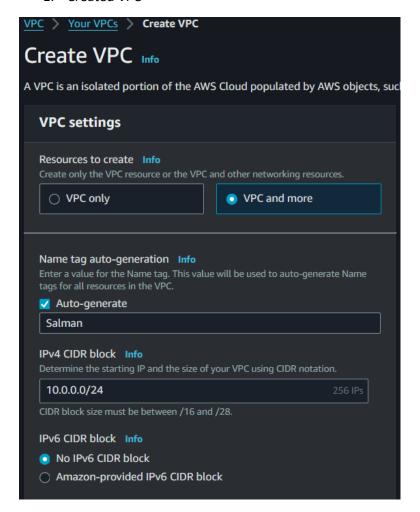
You work for XYZ Corporation. Their application requires a SQL service that can store data which can be retrieved if required. Implement a suitable RDS engine for the same.

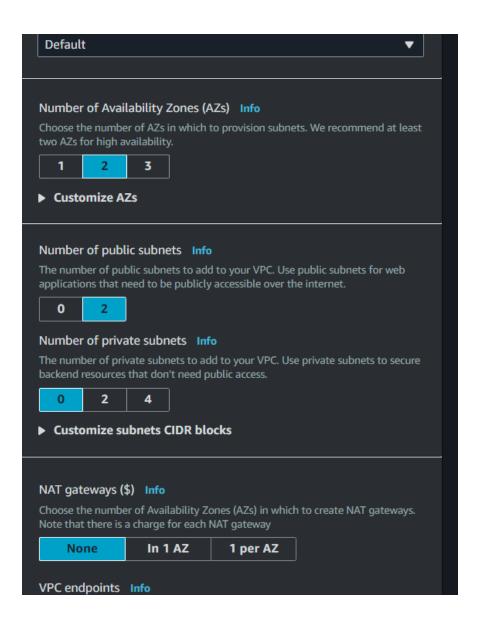
## While migrating, you are asked to perform the following tasks:

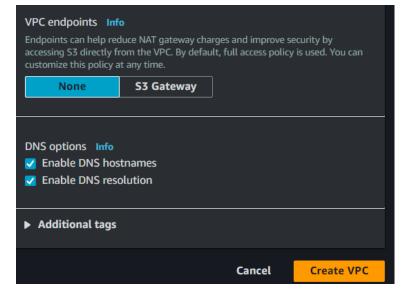
- Create a MariaDB Engine based RDS Database.
- 2. Connect to the DB using the following ways:
  - a. SQL Client for Windows
  - b. Linux based EC2 Instance

#### Solution:

Created VPC

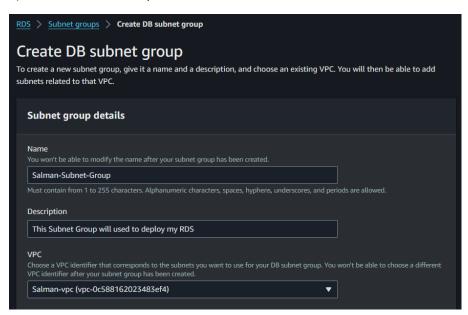


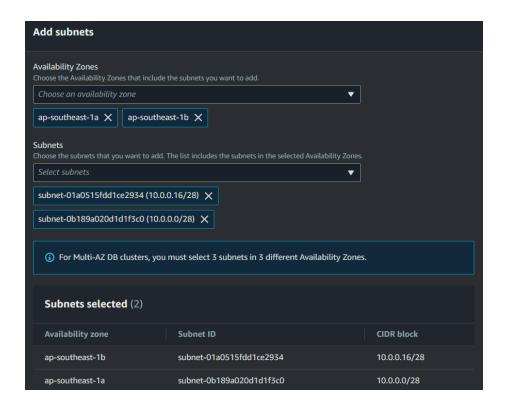






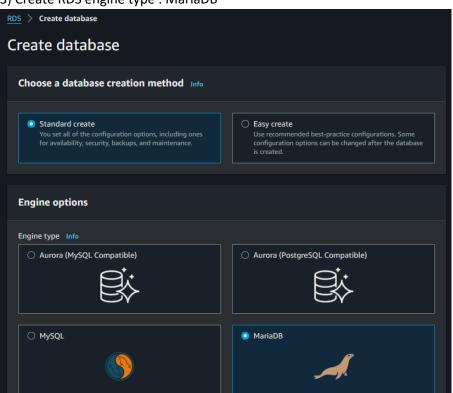
#### 2)Created Subnet Group

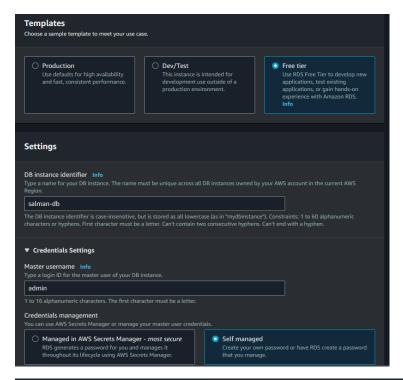


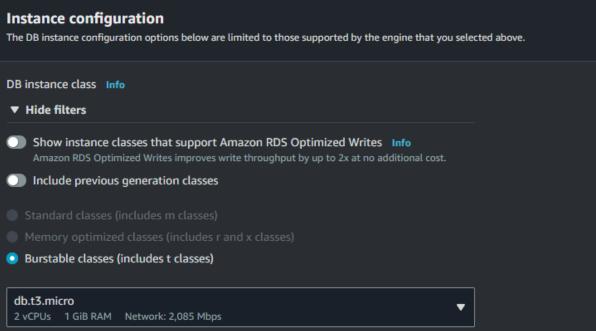


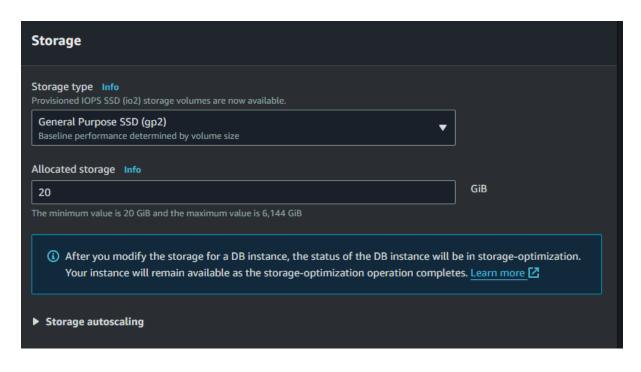


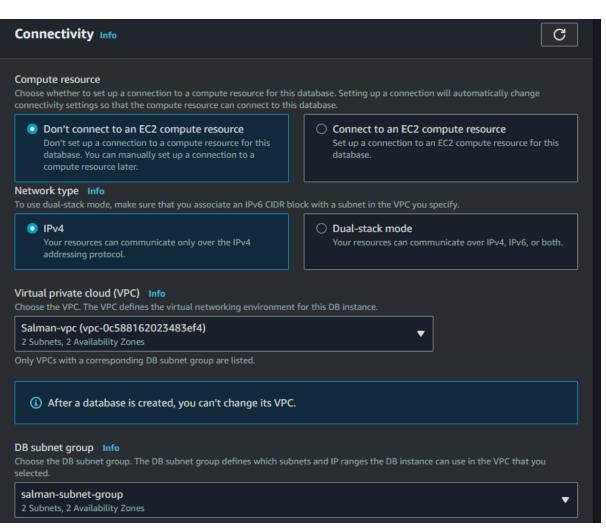
3) Create RDS engine type: MariaDB



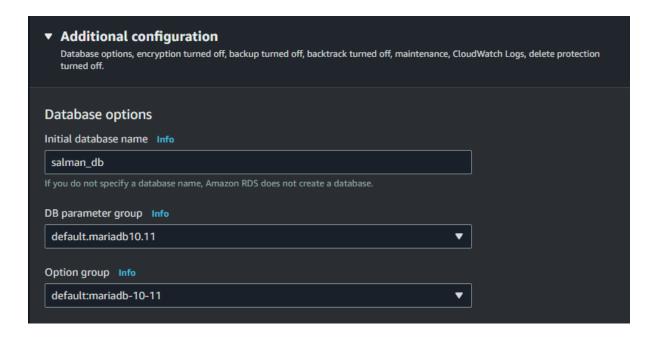




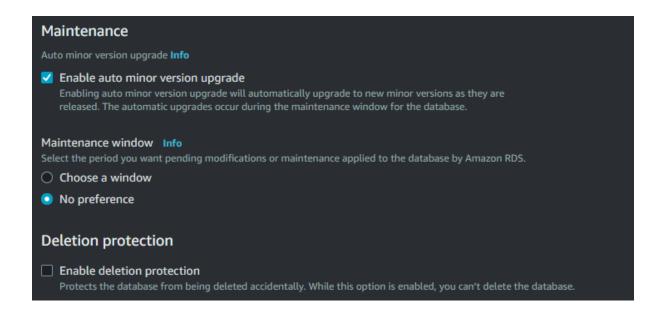


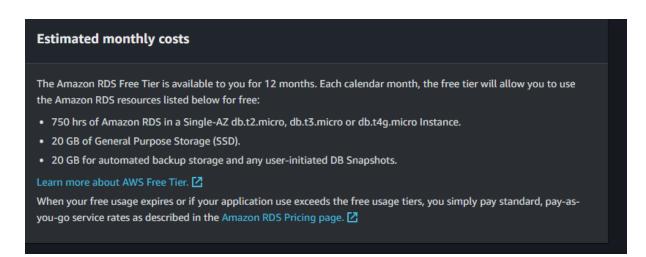


Public access Info
Yes RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.
No RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.
VPC security group (firewall) Info Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.
Choose existing Choose existing VPC security groups  Create new Create new VPC security group
New VPC security group name
salman-db-sg
Availability Zone Info
No preference ▼
-

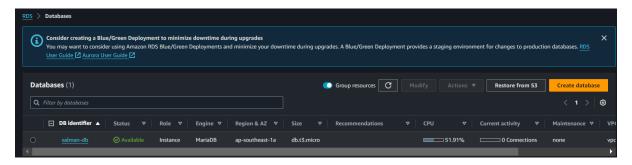


Backup	
☐ Enable automated backups  Creates a point-in-time snapshot of your database	
Encryption	
■ Enable encryption Choose to encrypt the given instance. Master key IDs and aliases appear in the list after they have been created using the AWS Key Management Service console. Info	





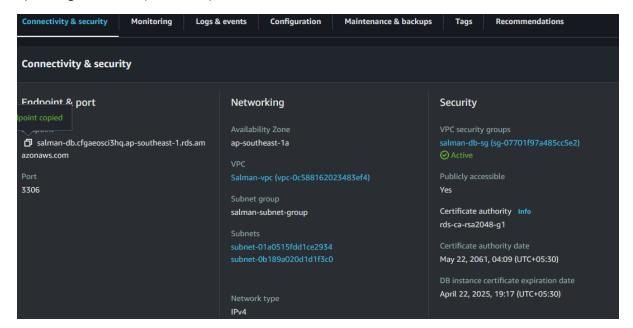
#### 4) Successfully created MariaDB



#### 5) Create EC2 instance



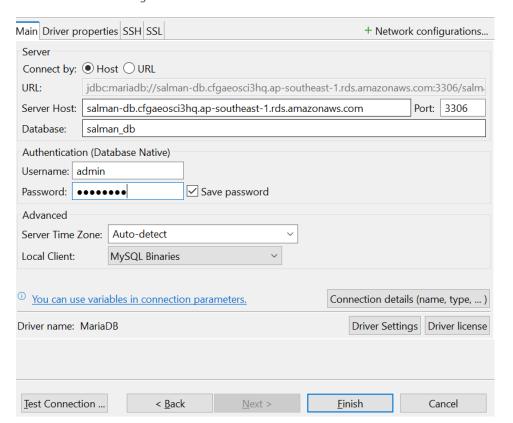
#### 6) Through End Point(Local Host) and Port, DB name and Password



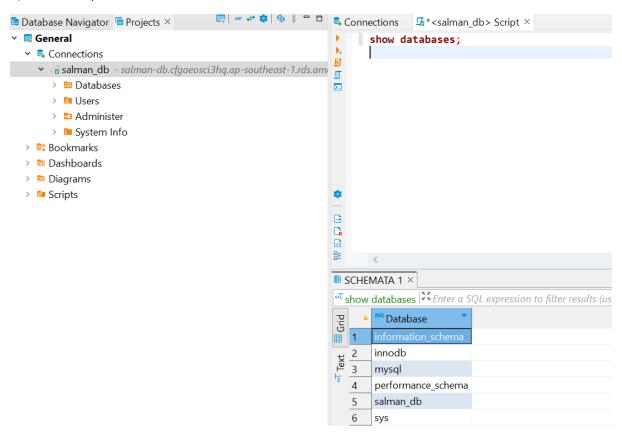
MariaDB

#### **Connection Settings**

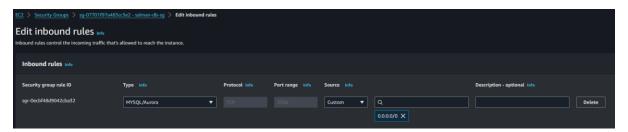




7) Successfully Connected and Shown the databases



8) Make Sure on here, we allowed source to anywhere or not to connect instances



- 9) Update the Ubuntu Machine and Install Maria DB server
- 1. sudo apt update –y
- 2. sudo apt install mariadb-server -y

```
Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No USER sessions are running outdated hypervisor (qemu) binaries on this host.

ubuntu@ip-10-0-0-22:~S mariadb -h salman-db.cfgaeosci3hq.ap-southeast-1.rds.amazonaws.com -u admin -p
Enter password:

"Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 99

Server version: 10.11.6-MariaDB managed by https://aws.amazon.com/rds/

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> '

i-099297c4d29a2a79f (salman-db-instance)

PubliciPs: 13.212.88.230 PrivatelPs: 10.00.22
```

# 10) mysql -h salman-db.cfgaeosci3hq.ap-southeast-1.rds.amazonaws.com-u admin –p

Type- Show databases; Now Connected to the DB using Linux based EC2 Instance