Module 7: MariaDB Assignment
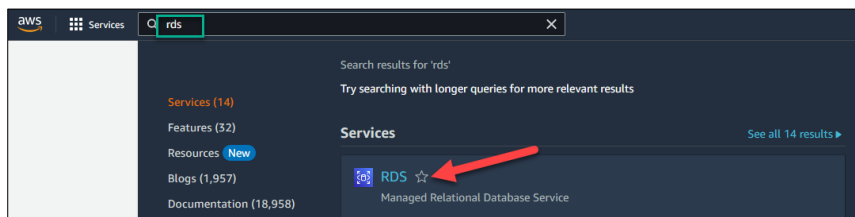
AWS Solutions Architect Training

Problem Statement:

You work for TechArkit Corporation. Their application requires a SQL service that can store data that can be retrieved. 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

Answer

Login to AWS Management Console https://ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1# Search for RDS service → Click on RDS.

Create Database

Select the Database-Engine MariaDB as suggested in the question.

Select the Engine Version, Template for use case, DB instance name, Credentials user name (admin) provide the password

Select instance type since it is a demo purpose, I have selected the free tier limit

Select storage type and storage size based on the required.

Select the VPC settings (Network)

Database authentication

Database authentication options   Info

🔘 **Password authentication**
   Authenticates using database passwords.

⚪ **Password and IAM database authentication**
   Authenticates using the database password and user credentials through AWS IAM users and roles.

Database authentication Password authentication

ⓘ 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**

⊘ **Successfully created database mydatabase**

You can use settings from mydatabase to simplify configuration of suggested database add-ons while we finish creating your DB for you.

DB instance is created successfully. Let's access.

Click on the instance for more details then copy the endpoint details

Connectivity & security

Endpoint & port

Endpoint
mydatabase.cgbnfibbsymt.ap-south-1.rds.amazonaws.com

Port
3306

Connecting to MySQL instance from Visual Studio Code

Created a simple table to check the connection is working.

That's conclude, able to connect from Windows machine.

```
[cloudshell-user@ip-10-6-24-54 ~]$ mysql -h mydatabase.cgbnfibbsymt.ap-south-1.rds.amazonaws.com -u admin -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 320
Server version: 10.6.14-MariaDB-log 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           |
+--------------------+
| information_schema |
| innodb             |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0.00 sec)

MariaDB [(none)]> use innodb;
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
MariaDB [innodb]> show tables;
+------------------+
| Tables_in_innodb |
+------------------+
| Persons          |
+------------------+
1 row in set (0.00 sec)

MariaDB [innodb]> 
```

That Concludes this question.