

Q3. Create an rds connection with EC2 instance and use it to create a sql database and a simple table.

- Amazon Relational Database Service is a collection of managed services that makes it simple to set up, operate, and scale databases in the cloud. They are used to store various forms of data.
- Amazon Elastic Compute Cloud provides scalable computing capacity in the Amazon Web Services Cloud.
- We can connect the rds. instance with EC2 instance and run MySQL database on it.

Procedure:

- Initially, create a database in rds.
- Next, create an EC2 instance and launch it.
- Connect the instance and connect that with any terminal.
- Install necessary updates, SQL and establish a connection with the database and instance.
- Create a sample database and table.

Steps followed in RDS:

1. Open RDS dashboard and create a database.
2. Select the easy create option, configuration as MySQL with free tier eligibility.
3. Configure database instance name. user name and password.
4. Database is created.
5. We can select that instance and copy the endpoint.

Steps to EC2 launch and connect:

1. Open EC2 dashboard and select launch an instance.
2. Create an instance, choose an AMI .
3. Instance type will be t2.micro.
4. Create a new keypair,security group an add all necessary rules.
5. Launch the instance.
6. Connect the instance with the terminals.

Steps for setting up connection:

1. Select the database instance and open the Connectivity&Security tab.
2. Scroll down and choose Set up EC2 connection.

3. Choose the EC2 instance to set up a connection.
4. Review and confirm the setup.
5. Copy the endpoint in Connectivity&Security tab.
6. Open the instance terminal and execute **sudo yum update -y**.
7. Install mariadb with **sudo yum install mariadb** and configure it.
8. Now to connect database with this instance:

MySQL -h (endpoint) -P 3306 -u admin -p is executed.

9. Now, create a sample database with the command:

CREATE DATABASE db;

10. Change the directory to database created with

USE database;

11. Next, we can create a table with below syntax as example”

**CREATE TABLE sample (
Roll INT NOT NULL,
Name VARCHAR(20) NOT NULL
);**

12. Now, we can insert data values into table rows.

INSERT INTO sample values(1,'Abhi');
INSERT INTO sample values(2,'Hani');
INSERT INTO sample values(3,'Thanu');

13. We can display the table with **SELECT * from sample;**

We can connect the databse with EC2 instance by following this procedure.