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LAB - ACTIVITY

Creating an Amazon RDS Instance and connecting it to EC2.

Objective → To create a MySQL database using Amazon RDS and connect it to an EC2 instance for remote access.

Steps:

1. Launch EC2 instance:

- Go to AWS EC2 → Launch instance
- choose Amazon Linux 2, type t2.micro
- create/use a key pair
- In Security Group, allow SSH (port 22)
- Launch the instance.

2. Create RDS Security Group:

- Go to EC2 → Security Groups → Create
- Allow MySQL (port 3306)
- Source: select the EC2 security group.

3. Create RDS instance:

- Go to AWS RDS → Create Database
- Engine : MySQL , free tier
- Set DB name , master user (admin) & password
- Enable public access.
- choose previously created RDS security grp.
- Launch DB and wait till status is available.

4. Connect EC2 to RDS:

- SSH into EC2:
`ssh -i <key>.pem ec2-user@<ec2-public-ip>`
- Install MySQL client:
`sudo yum install mysql -y`
- Connect to RDS:
`mysql -h <RDS-endpoint> -u admin-p`
- Enter password → You are now connected.

Successfully created a MySQL RDS instance and connected it via an EC2 instance using the MySQL client.