AWS

Day2 Lab3

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Mansoura Open Source

Date : 31/5/2025

LAB 3:

Create a new RDS instance of MySql engine then connect to it and create DB or Table with your name.

Step 1: Search for "**RDS**"

Step 1: Click "Create Database"

1. Choose **Standard create**.
2. Engine options:
    - **Engine type:** Choose **MySQL**
    - **Version:** Choose default (8.0.41)
    - **Enable RDS Extended Support : checked**
    - **Templates : free tier**

Step 2: Settings

1. **DB instance identifier**:
   → `nadamohamed-ahmed-mysql-db`
2. **Master username**:
   → `admin` (default)
3. **Password**:
   → Set a secure password : `nadamohamedahmedmysqldbsecure123`
   → Confirm password

Step 3: DB Instance Class (Free Tier)

- Choose:
    - **db.t4g.micro** (default: Free Tier)
    - **Storage**: 20 GB (default)

Step 4: Connectivity

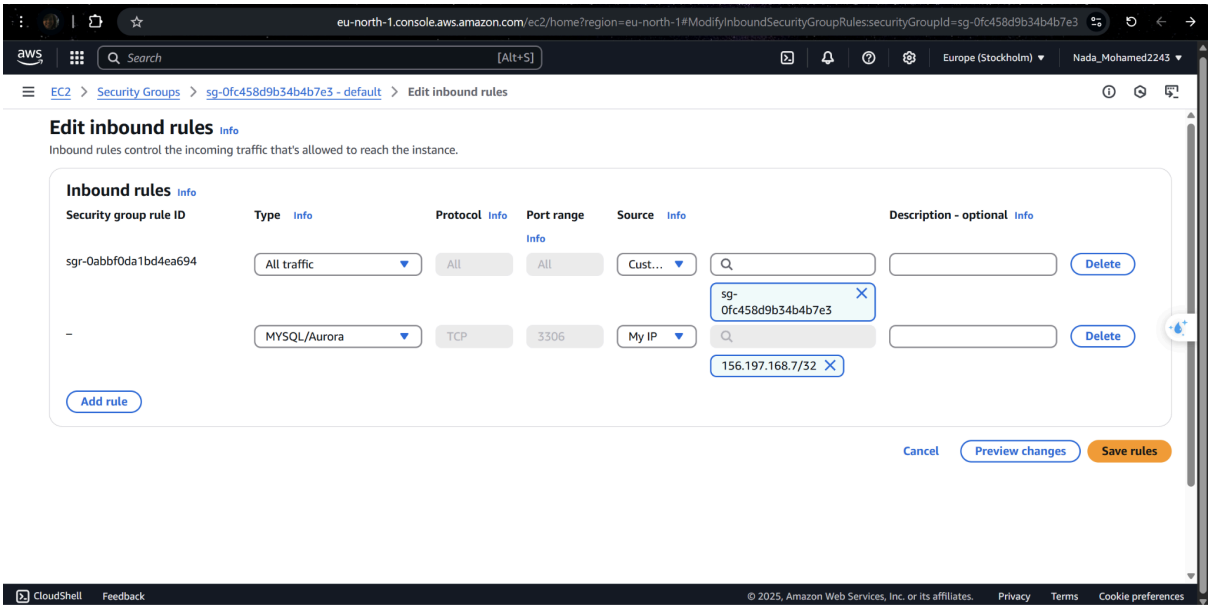
1. **VPC**: Default VPC

2. **Public access**:
   → Choose **“Yes”** (so we can connect to it from our device)

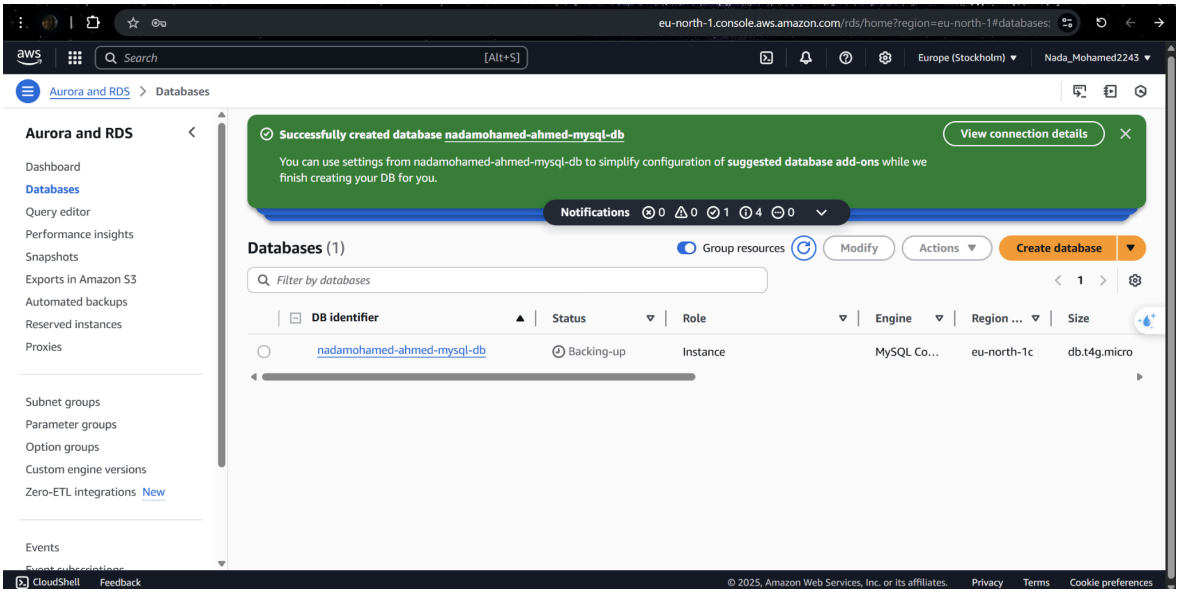
3. **VPC security group (**important**)**:
   → Choose **“Choose Existing security group”**

   → Go to EC2 → **security group** → the “Default” → go to **Inbound rules** → click **Edit**

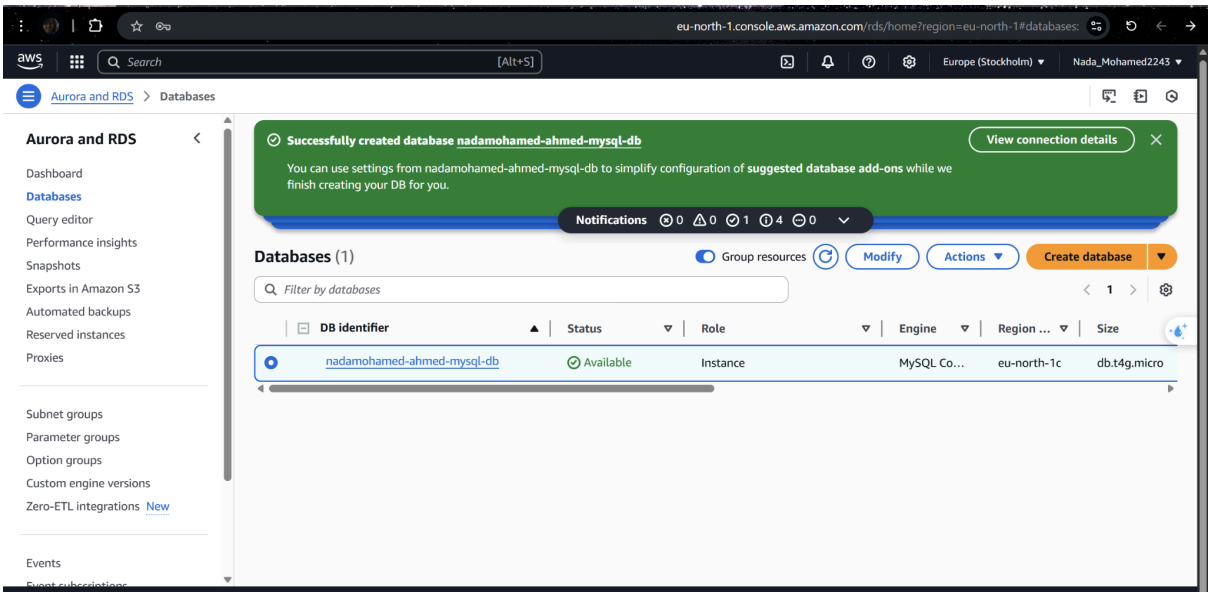
   → Add a new rule for **MySQL/Aurora**

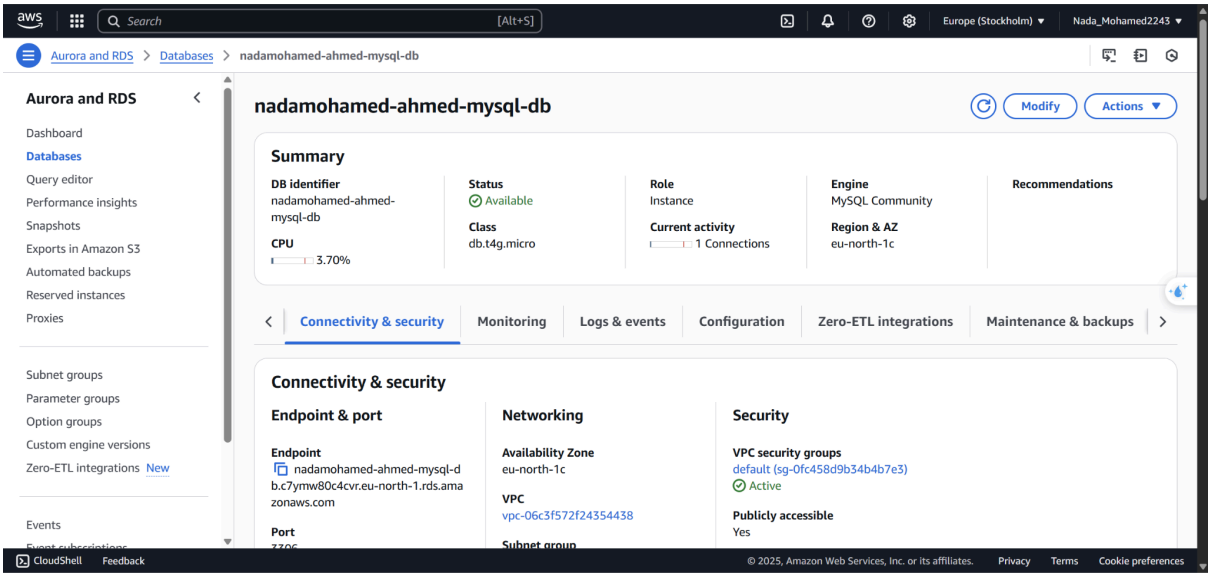


4. Click **“Create Database”**



Available now :



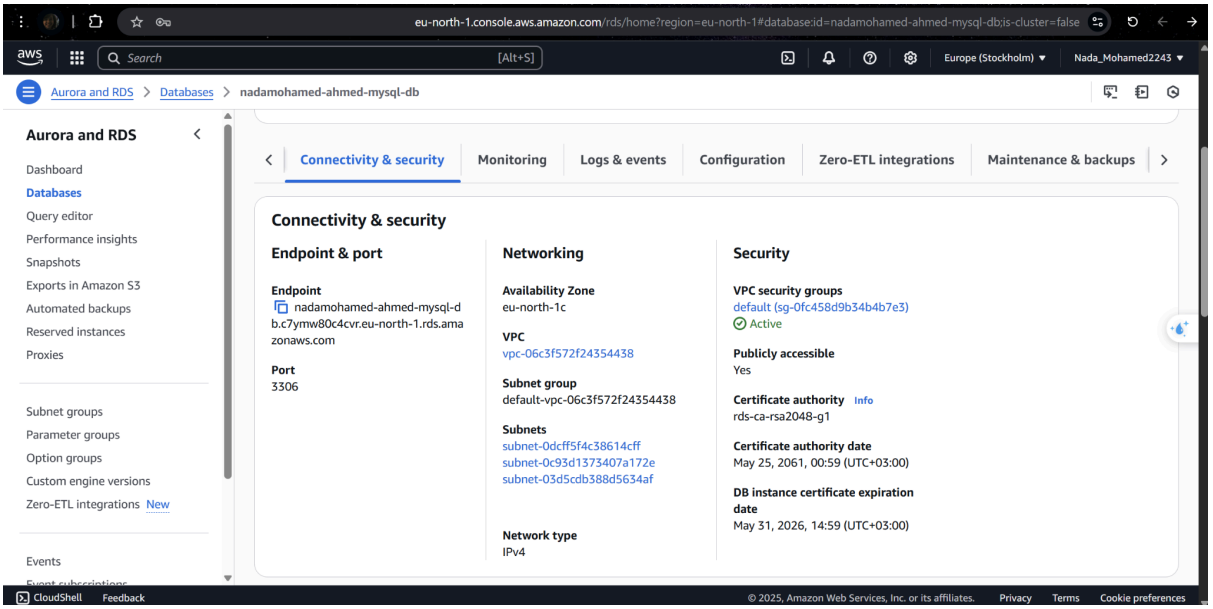


Part 2: Connect to our MySQL RDS

Step 1: Get Endpoint

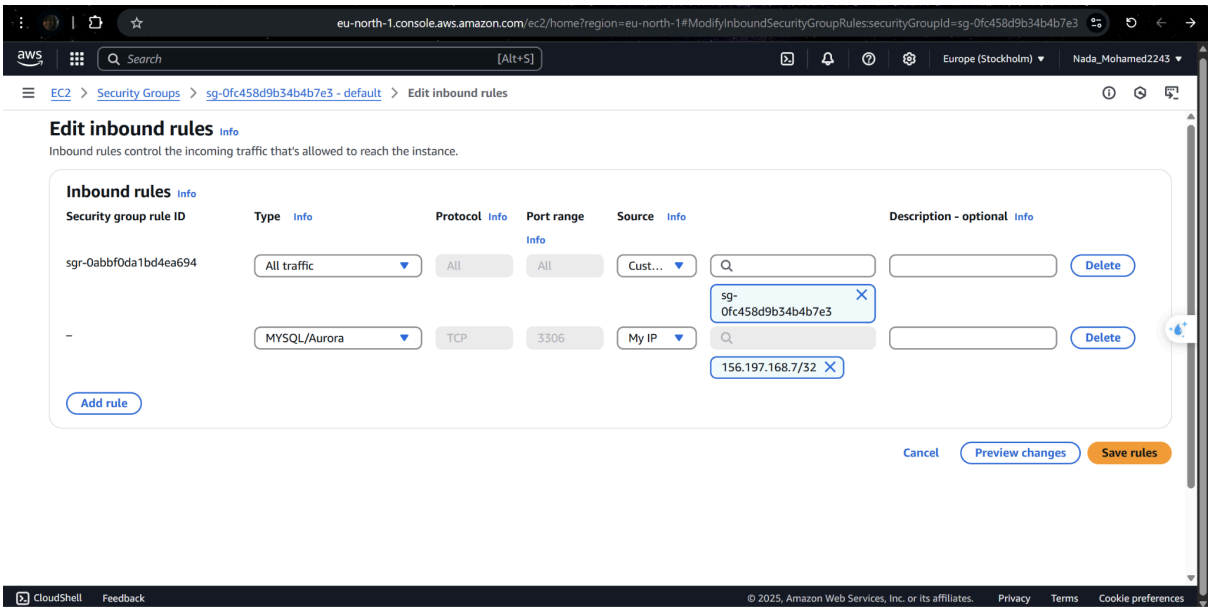
1. After the instance is available, click on it.

2. Copy the **endpoint**:
   nadamohamed-ahmed-mysql-db.c7ymw80c4cvr.eu-north-1.rds.amazonaws.com



Step 2: Allow our IP to Connect (We make this above but we should double check because this is very important)

1. Go to **EC2 > Security Groups**
2. Find the group assigned to RDS (the default).
3. Click **Edit Inbound Rules**
4. Add a rule:
    - **Type**: MySQL/Aurora
    - **Port Range**: 3306
    - **Source**: My IP



Step 3: Connect Using a MySQL Client

Using our terminal or command prompt

1. Open the terminal or command prompt
2. Run the MySQL client command to connect to our RDS instance:

    mysql -h nadamohamed-ahmed-mysql-db.c7ymw80c4cvr.eu-north-1.rds.amazonaws.com -P 3306 -u admin -p

```
C:\Users\nadam>mysql -h nadamohamed-ahmed-mysql-db.c7ymw80c4cvr.eu-north-1.rds.amazonaws.com -P 3306 -u admin -p
```

3. Enter your password
    - **Password**: nadamohamedahmedmysqldbsecure123

```
C:\Users\nadam>mysql -h nadamohamed-ahmed-mysql-db.c7ymw80c4cvr.eu-north-1.rds.amazonaws.com -P 3306 -u admin -p
mysql: Unknown OS character set 'cp720'.
mysql: Switching to the default character set 'utf8mb4'.
Enter password: ******************************
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 26
Server version: 8.0.41 Source distribution

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owners.

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

mysql>
```
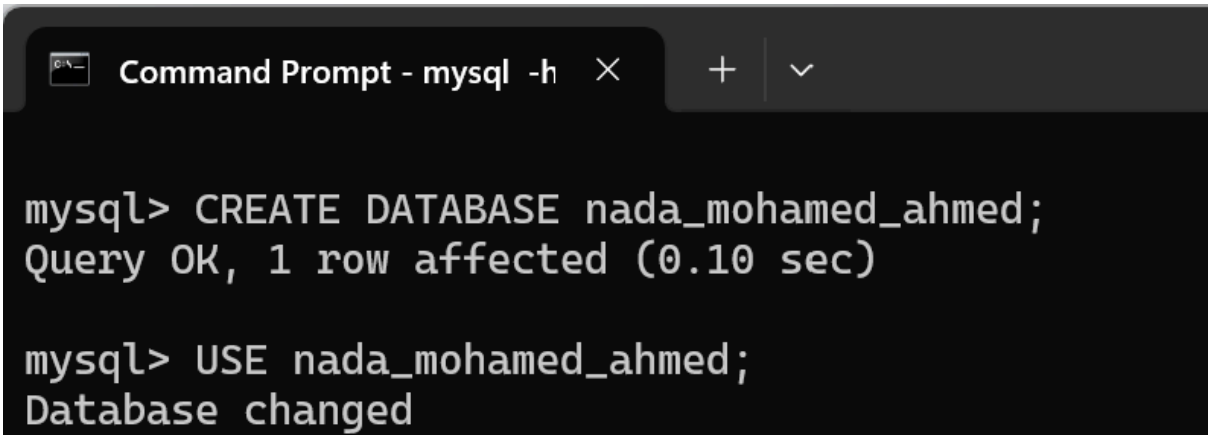

Part 3: Create a Database and Table

Step 1: Create a Database

```
CREATE DATABASE nada_mohamed_ahmed;

USE nada_mohamed_ahmed;
```



Step 2: Create a Table

```
CREATE TABLE nada_mohamed_ahmed_info(

    id INT AUTO_INCREMENT PRIMARY KEY,
```

```
    full_name VARCHAR(100),
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```

```
mysql> CREATE TABLE nada_mohamed_ahmed_info (
    ->   id INT AUTO_INCREMENT PRIMARY KEY,
    ->   full_name VARCHAR(100),
    ->   created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
    -> );
Query OK, 0 rows affected (0.13 sec)
```

Step 3: Insert Data

```
INSERT INTO nada_mohamed_ahmed_info (full_name) VALUES ('Nada
Mohamed Ahmed Hassan Eleshmawy');
```

```
mysql> INSERT INTO nada_mohamed_ahmed_info (full_name) VALUES ('Nada Mohamed Ahmed Hassan Eleshmawy');
Query OK, 1 row affected (0.10 sec)
```

Step 4: View Table

```
SELECT * FROM nada_mohamed_ahmed_info;
```

```
mysql> SELECT * FROM nada_mohamed_ahmed_info;
+----+-----------------------------------+---------------------+
| id | full_name                         | created_at          |
+----+-----------------------------------+---------------------+
|  1 | Nada Mohamed Ahmed Hassan Eleshmawy | 2025-05-31 12:15:20 |
+----+-----------------------------------+---------------------+
1 row in set (0.09 sec)
```