

## EXPERIMENT- 09

**Student Name:** Ankit Kushwaha

**UID:** 23BCS14105

**Branch:** BE-CSE

**Section/Group:** KRG 1(A)

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**Subject Name:** ADBMS

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**1. Aim:** To create and connect a PostgreSQL database instance on Amazon RDS (Relational Database Service)

### 2. Objective:

- To understand the steps involved in launching a database instance using Amazon RDS.□
- To configure a database for public access and connect it with a local client (pgAdmin).□
- To perform basic SQL operations (CREATE, INSERT, SELECT).□

### 3. Tools / Software

- Amazon Web Services (AWS)□
- PostgreSQL□
- pgAdmin 4□
- RDS (Relational Database Service)□

### 4. Program:

Step 1: Create and Configure Database Instance

1. Login to AWS Console → RDS → Create database, select Standard create and PostgreSQL under the Free Tier template.



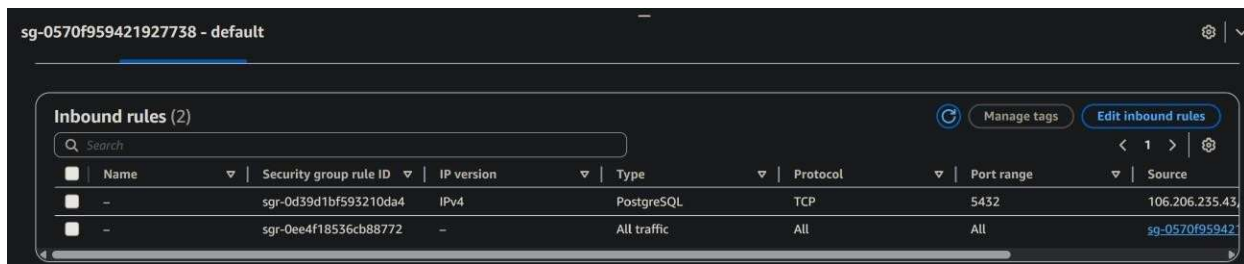
Set DB identifier: ruchy-db, Username: postgres, choose db.t3.micro, 20 GB gp2 storage, and enable Public access.

2. Click Create database and wait until the status shows Available in the RDS dashboard.

## Step 2: Configure Security Group (Allow Local Access Only)

1. In AWS Console → go to RDS → Databases → click your DB (ruchy-db).
2. Open the Connectivity & Security tab.
3. Under VPC security groups, click the linked group name (it opens EC2 security groups).
4. Click Edit inbound rules → Add rule
  - Type: PostgreSQL
  - Protocol: TCP ☐ Port: 5432 ☐ Source: My IP

5. Click Save rules.



## Step 3: Connect Database Using pgAdmin

1. Open pgAdmin 4 on your local system.
2. Right-click Servers → Create → Server.

3. Under the General tab, enter the name: postgres.
4. Under the Connection tab, fill in the following details:
  - Host name/address: ruchi-db.xxxxxxx.rds.amazonaws.com
  - Port: 5432      Username: postgres
  - Check Save password.
5. Click Save to connect your RDS PostgreSQL database.

