DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING

CU CHANDIGARH UNIVERSITY

Discover. Learn. Empower.

Experiment 9

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Section/Group: 23AIT-KRG-G2

Semester: 5th

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Subject Name: ADBMS

Subject Code: 23CSP-333

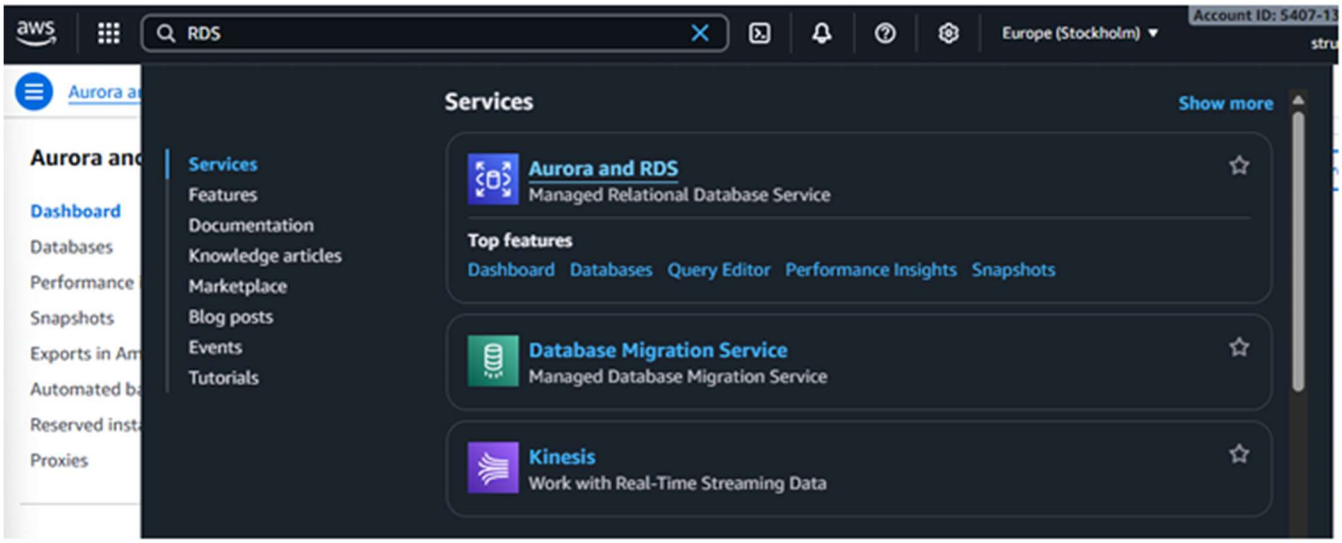
1. **AIM:** Amazon Web Service RDS.

2. **Tools Used:** pgAdmin4

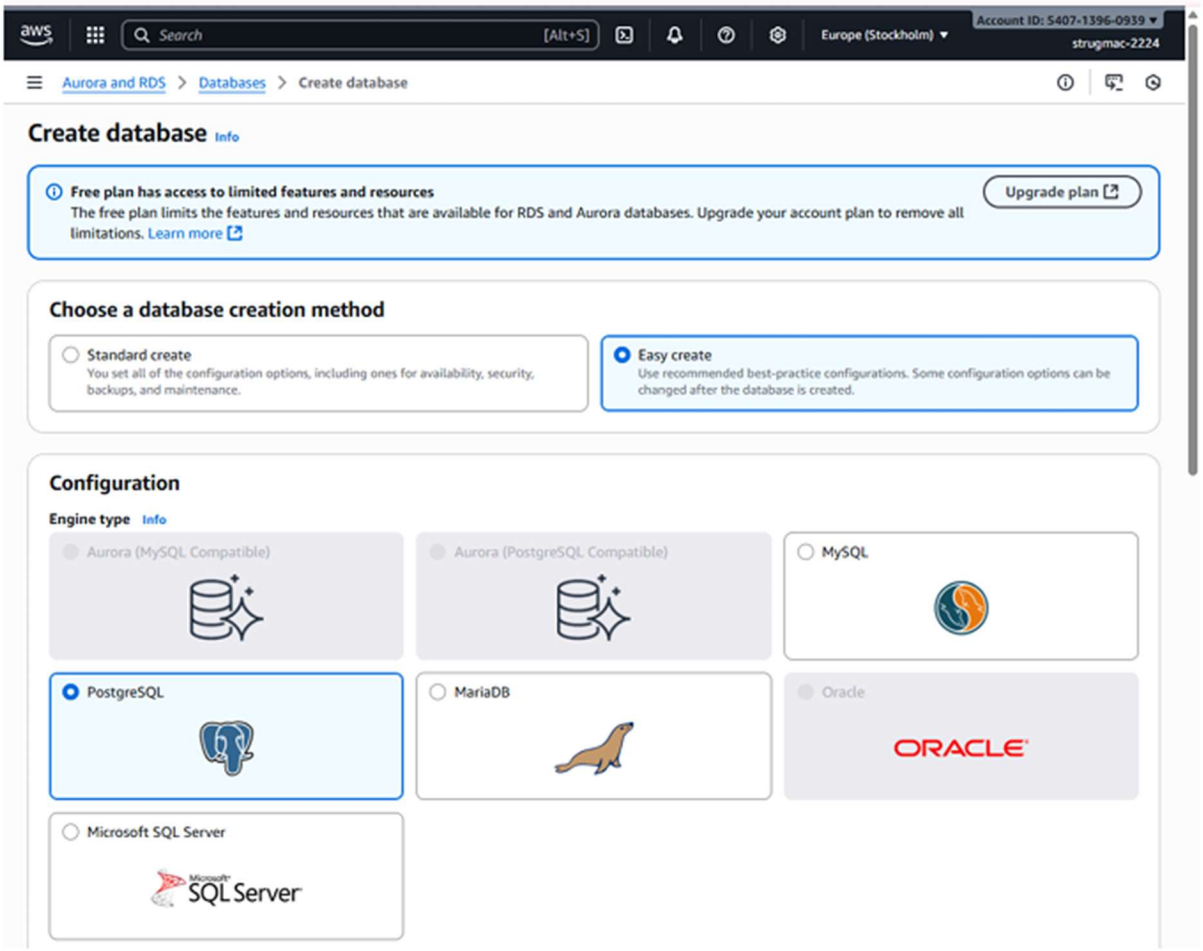
3. **Experiment:**
   - overview of AWS RDS
   - creation of database instance on AWS RDS
   - security groups
   - connecting local pgadmin to cloud rd.

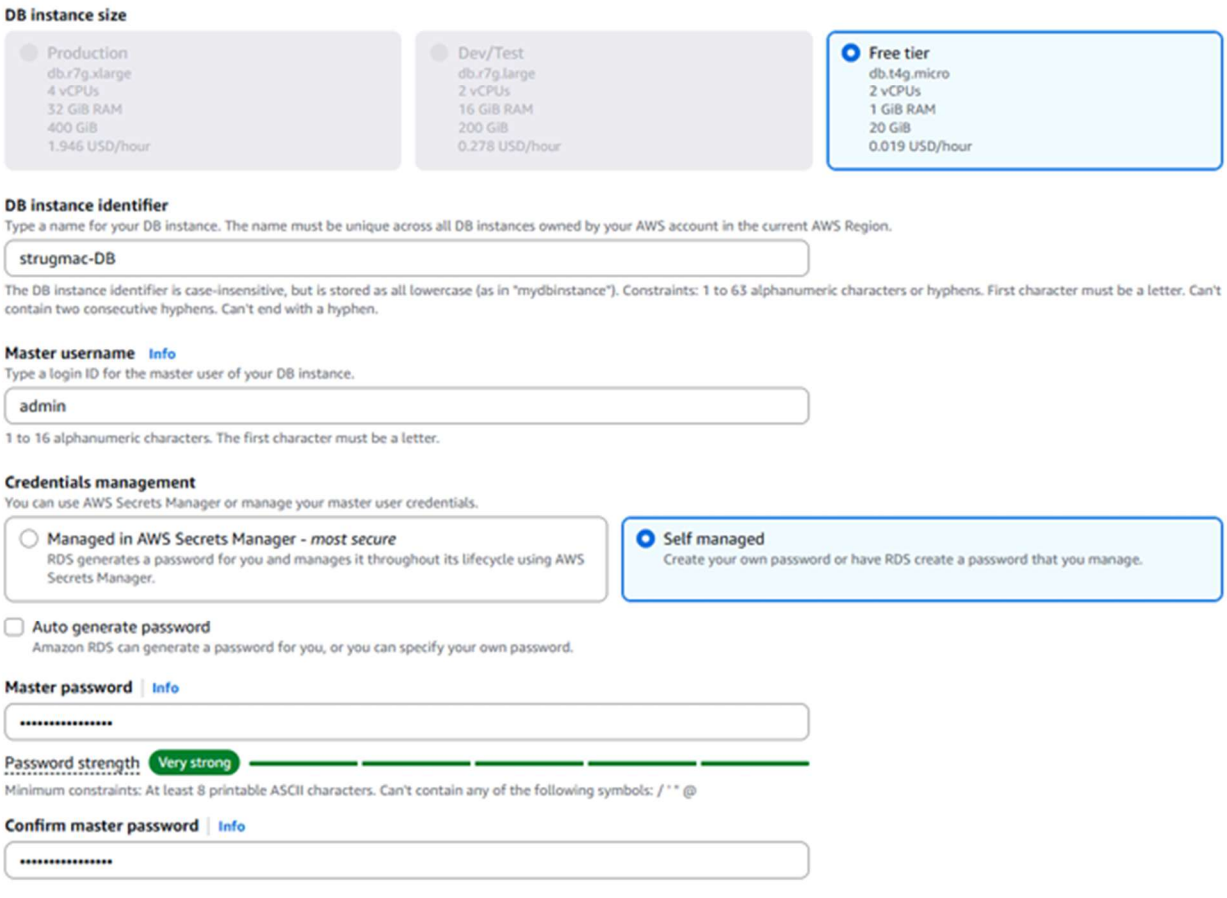
4. **Solution:**

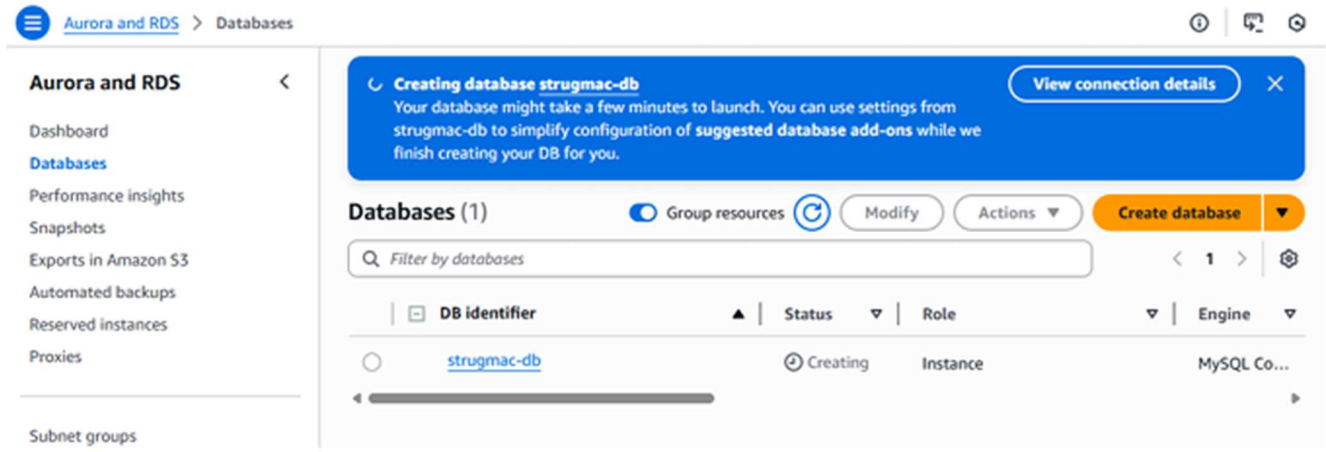
1. Go to aws homepage -> click on sign in-> enter user name with email address.
2. After sign-in -> go to search bar -> search for rds -> hit enter



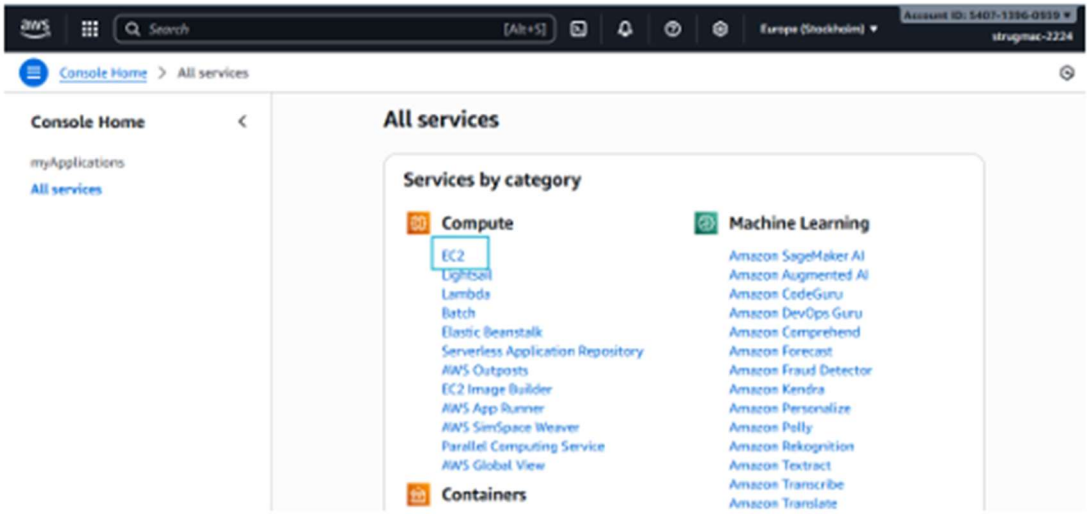
4. Click on create database

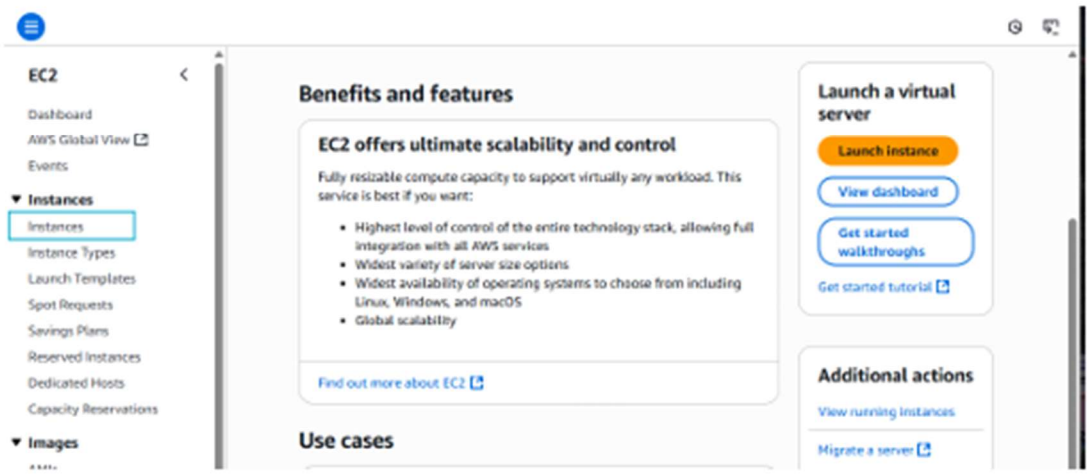


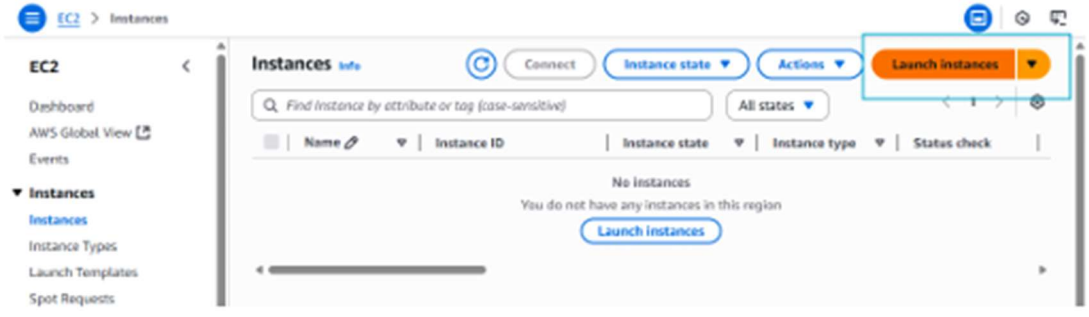


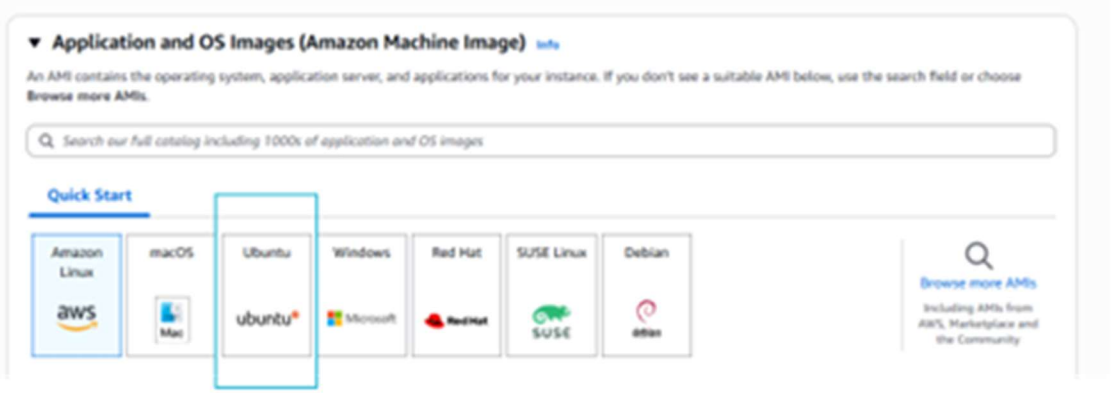


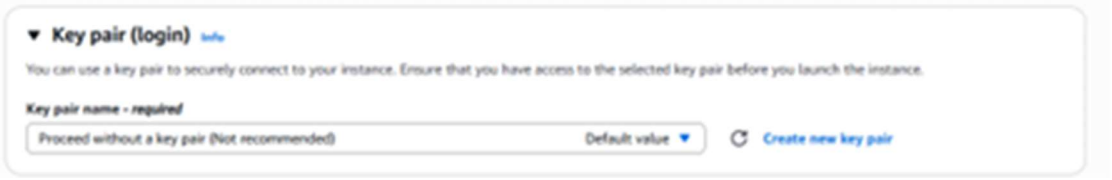
Now this will create a MySQL database to me, and we want to connect to RDS for which we have to launch a server which basically will have MySQL Client installed inside it. For that we have to launch an EC2 instance,

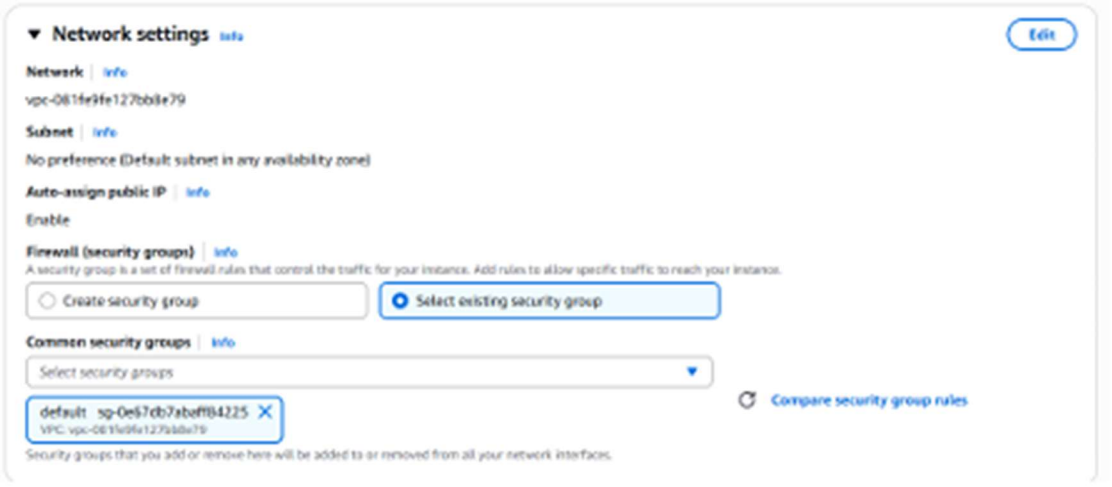


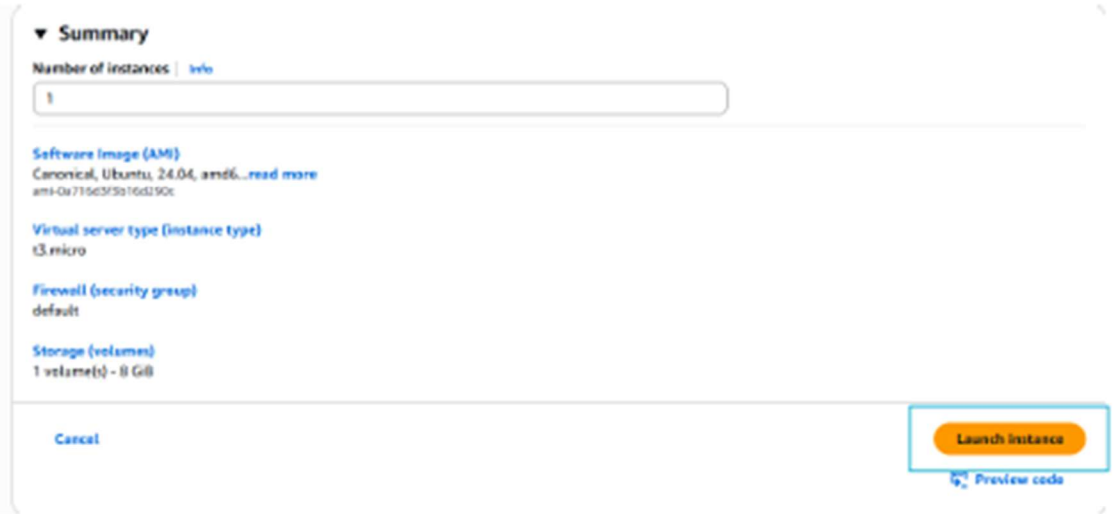




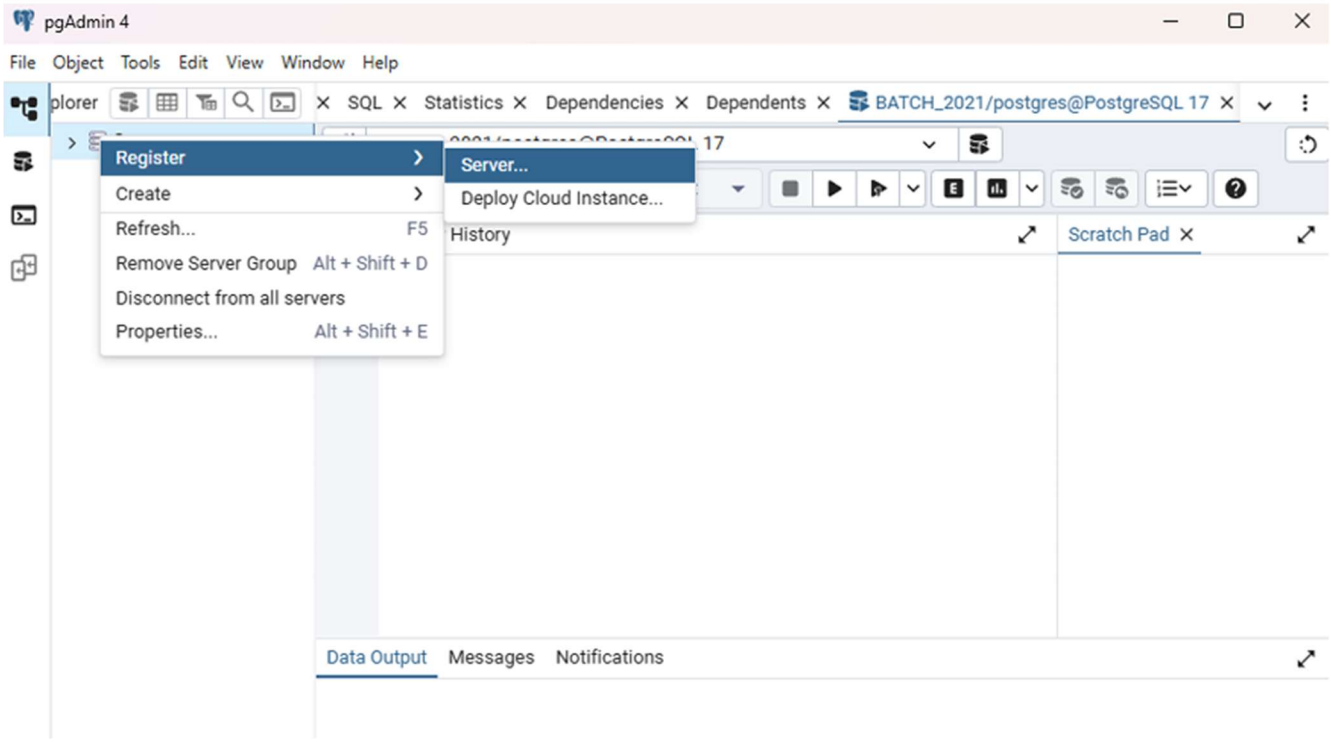

Application and OS Images (Amazon Machine Image) Info
An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose Browse more AMIs.
Search our full catalog including 1000s of application and OS images
Quick Start
Amazon Linux
macOS
Ubuntu
Windows
Red Hat
SUSE Linux
Debian
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community


Key pair (login) Info
You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.
Key pair name - required
Proceed without a key pair (Not recommended)
Default value
Create new key pair

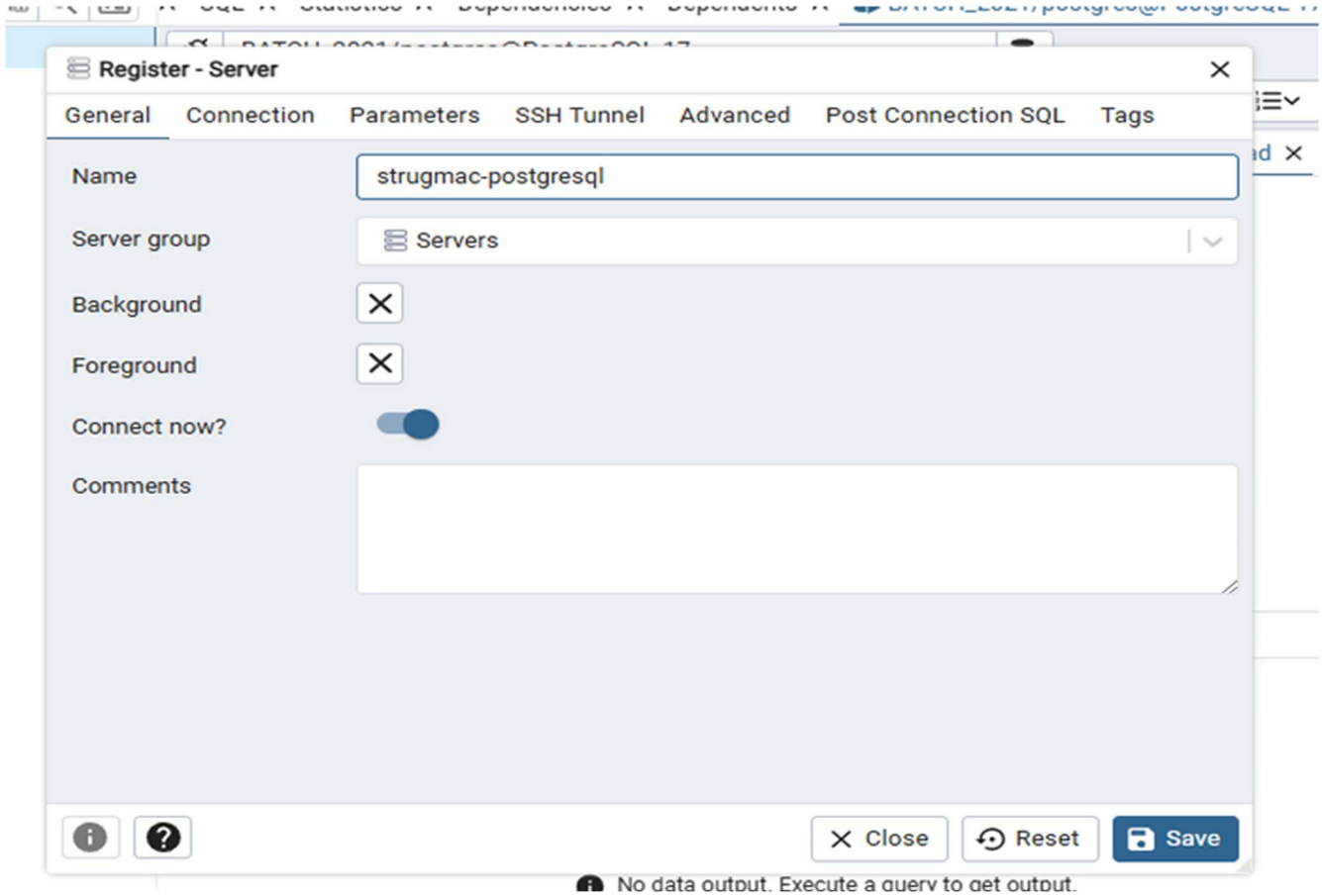

Network settings Info
Edit
Network Info
vpc-081fe9fe127bb8e79
Subnet Info
No preference (Default subnet in any availability zone)
Auto-assign public IP Info
Enable
Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
Create security group
Select existing security group
Common security groups Info
Select security groups
default sg-0e67db7abeff84225
VPC: vpc-081fe9fe127bb8e79
Compare security group rules
Security groups that you add or remove here will be added to or removed from all your network interfaces.

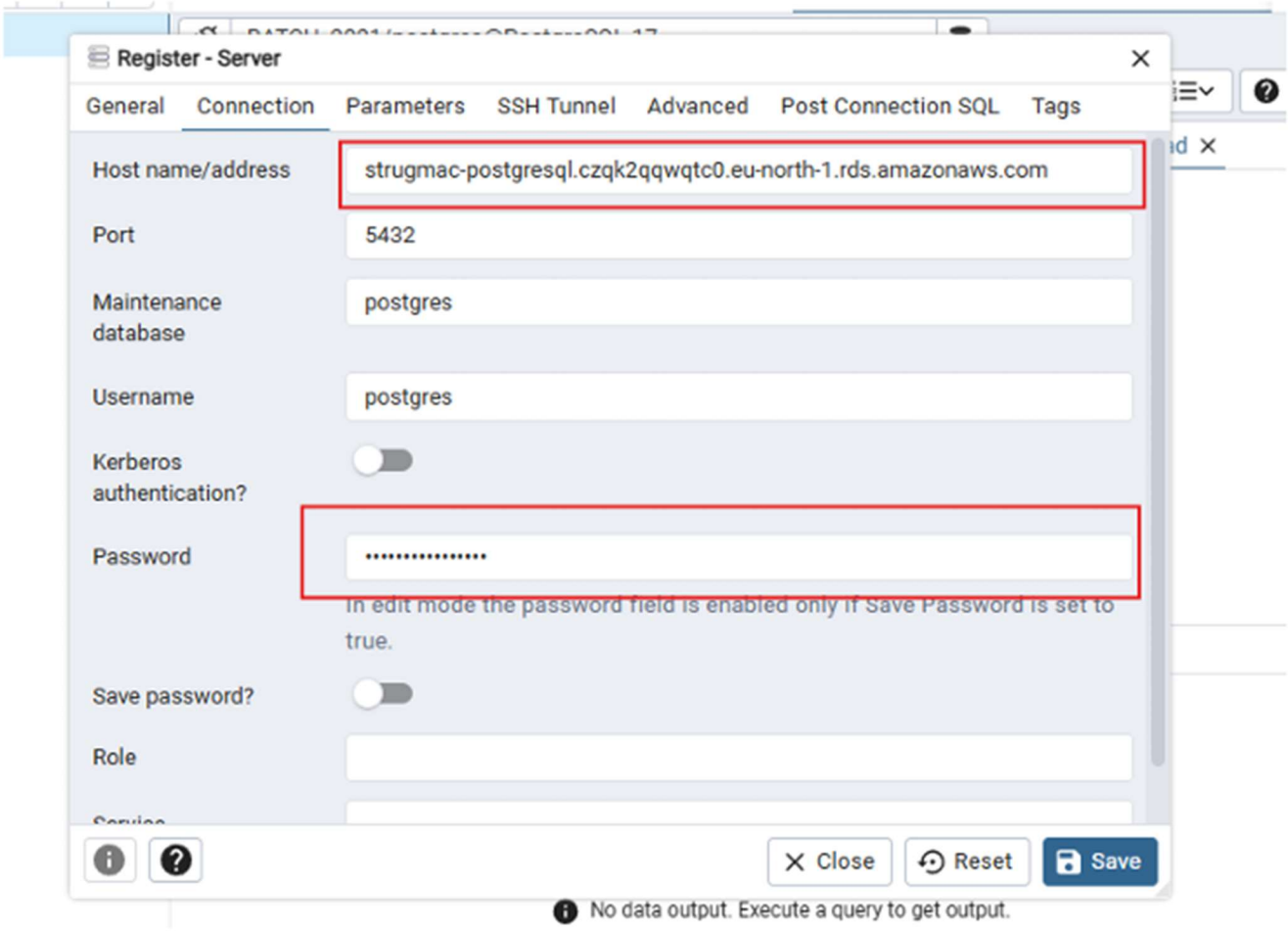

Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 24.04, amd6...read more
Virtual server type (instance type)
t3.micro
Firewall (security group)
default
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance
Preview code

Other option is that we can connect the Postgres AWS RDS to our local machine.
1. Create AWS RDS database for PostgresSQL
2. Connect from PgAdmin.

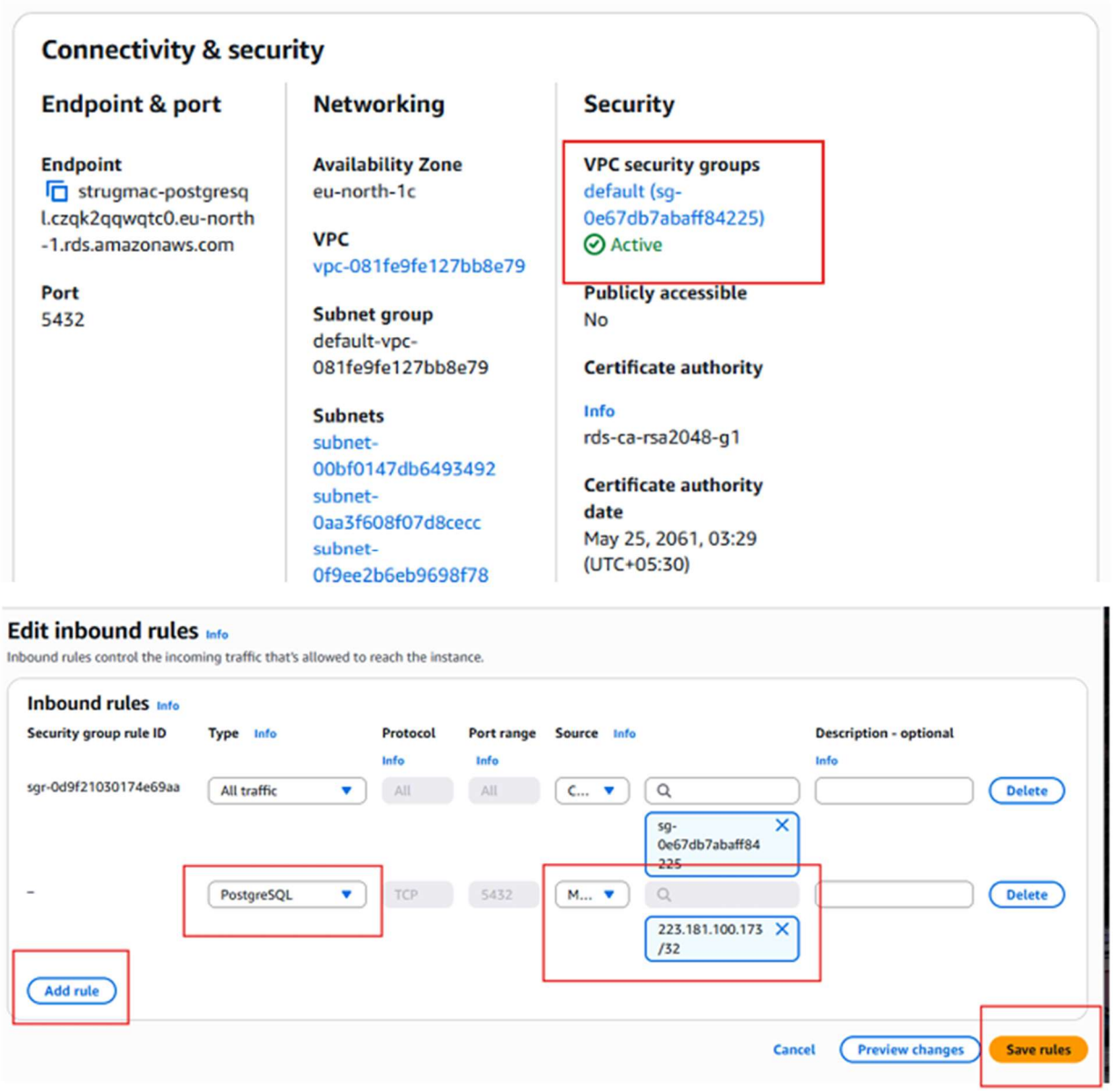


Copy the API Endpoints from the dashboard of AWS RDS Database instance.




Register - Server
General
Connection
Parameters
SSH Tunnel
Advanced
Post Connection SQL
Tags
Host name/address
strugmac-postgresql.czqk2qqwqtc0.eu-north-1.rds.amazonaws.com
Port
5432
Maintenance database
postgres
Username
postgres
Kerberos authentication?
Password
In edit mode the password field is enabled only if Save Password is set to true.
Save password?
Role
Close
Reset
Save
No data output. Execute a query to get output.

5. Output:



6. Learning Outcomes:

- Learn't about AWS RDS.
- Learn't how to create a database instance on AWS RDS.
- Learn't how to connect local pgAdmin to Cloud RD.