



CHANDIGARH UNIVERSITY

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EXPERIMENT - 9

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Branch: BE-CSE

Semester: 5th

Subject Name: ADBMS

UID: 23BCS13761

Section/Group: KRG 1-B

Date of Performance: 21/10/2025

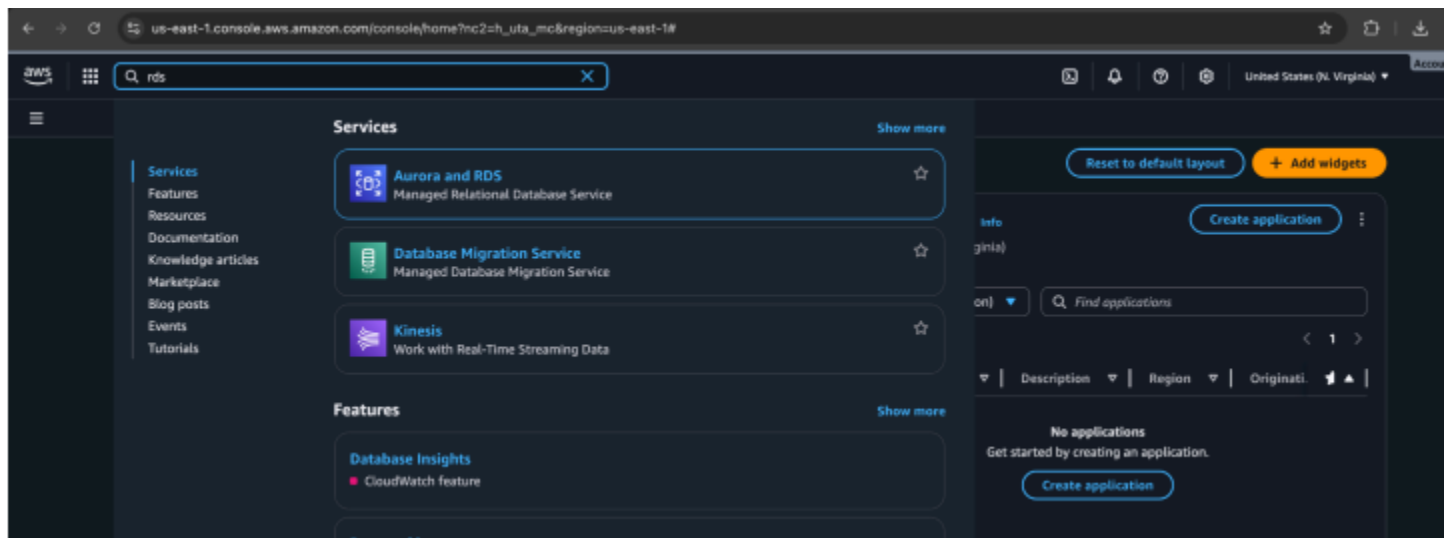
Subject Code: 23CSP-333

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

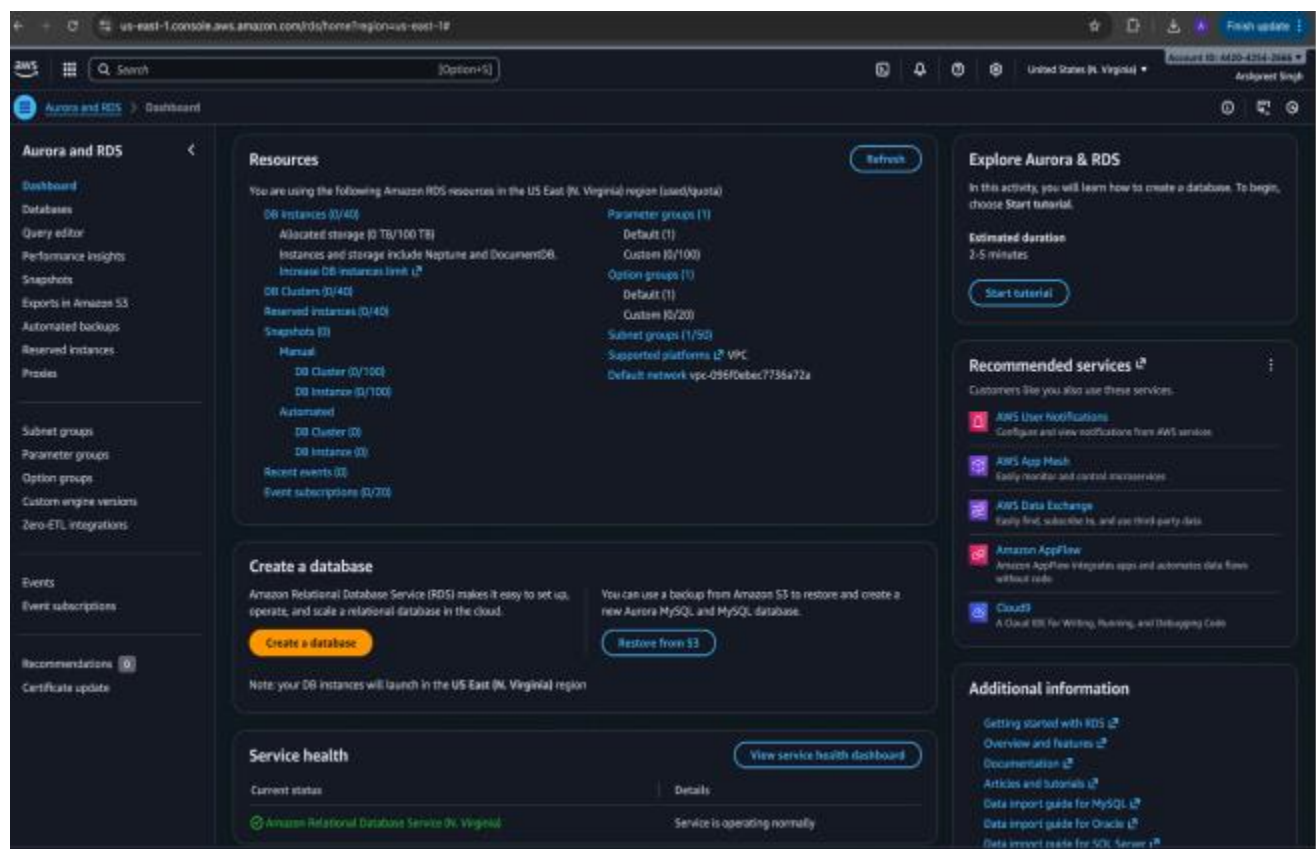
Objective: To understand the steps involved in launching a database instance using Amazon RDS. and configure a database for public access and connect it with a local client (pgAdmin).

Code:

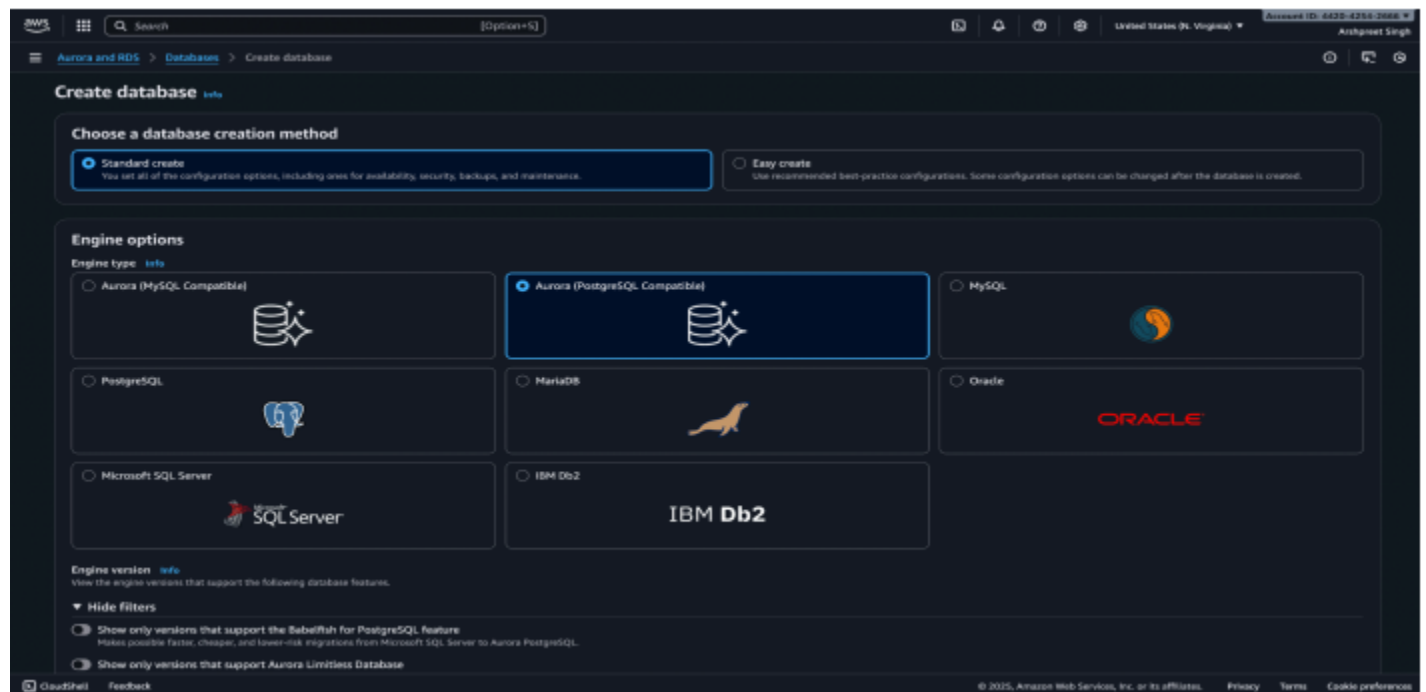
1. GO TO AWS HOMEPAGE -> CLICK ON SIGN IN-> ENTER USER NAME WITH EMAIL ADDRESS
2. AFTER SIGN-IN -> GO TO SEARCH BAR -> SEARCH FOR RDS -> HIT ENTER



3. To create database go to RDS Dashboard



4. CLICK ON CREATE DATABASE.



IN THE STANDALONE CREATE, WE CAN SET EVERYTHING FOR OUR DATABASE, THE INCOMING TRAFFIC, IP ADDRESSES TO BE USED, BACKUP ETC.

5. Select PostgreSQL and add configurations.

DB instance size

- ☐ Production
db.r7g.xlarge
4 vCPUs
32 GiB RAM
400 GiB
1.915 USD/hour
- ☐ Dev/Test
db.r7g.large
2 vCPUs
16 GiB RAM
200 GiB
0.271 USD/hour
- ☒ Free tier
db.t4g.micro
2 vCPUs
1 GiB RAM
20 GiB
0.013 USD/hour

DB instance identifier

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

database-1

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 63 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

Master username [info](#)

Type a login ID for the master user of your DB instance.

postgres

1 to 16 alphanumeric characters. The first character must be a letter.

Credentials management

You can use AWS Secrets Manager or manage your master user credentials.

- ☐ Managed in AWS Secrets Manager - most secure
RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.
- ☒ Self managed
Create your own password or have RDS create a password that you manage.

☐ Auto generate password
Amazon RDS can generate a password for you, or you can specify your own password.

Master password [info](#)

The Master password field is required.
Minimum constraints: At least 8 printable ASCII characters. Can't contain any of the following symbols: / * @

6. GET CONNECTIONS URL AND CONNECT LOCAL PG ADMIN WITH CLOUD DB USING URL AND PASSWORD

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.