



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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Experiment -9

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Section/Group: KRG_2B

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Subject Name: Advanced Database and Management System

Subject Code: 23CSP-333

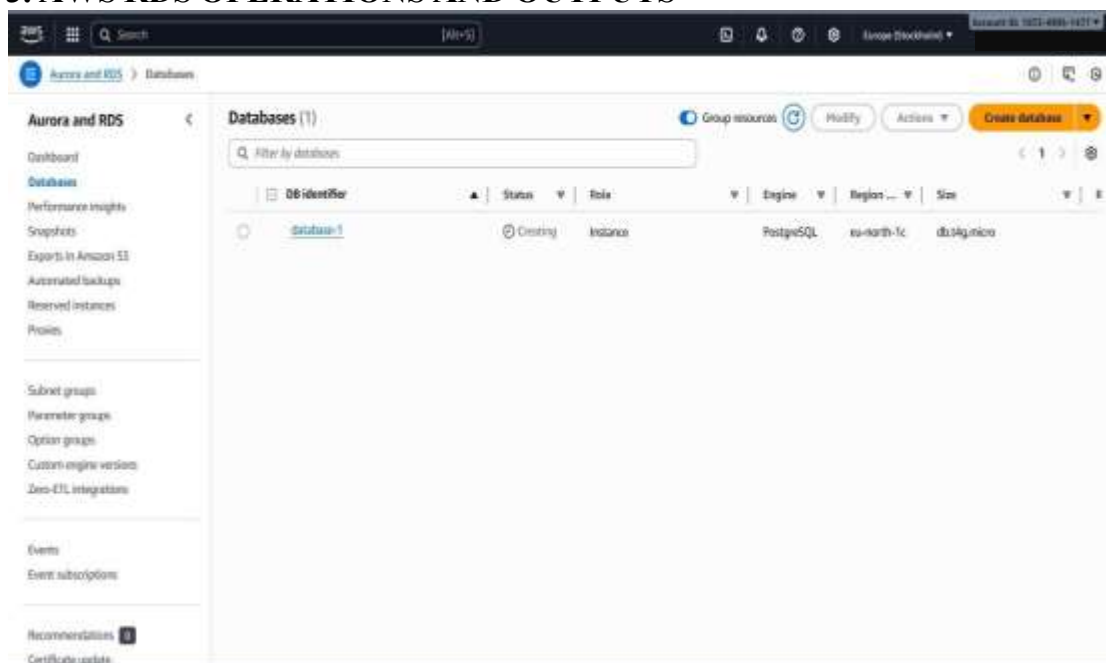
1. Aim

To create, configure, and connect an Amazon RDS PostgreSQL database instance on AWS, and verify successful database operations using a client tool.

2. Objectives:

1. To understand the concept of managed relational database services in AWS (Amazon RDS).
2. To create a PostgreSQL database instance using AWS RDS.
3. To configure DB parameters such as instance size, storage, authentication, and security groups.
4. To connect the RDS instance from a PostgreSQL client (e.g., pgAdmin/psql).
5. To execute basic SQL queries to validate connectivity and database functionality.

3. AWS RDS OPERATIONS AND OUTPUTS -



aws

Search

Account ID: 1234-5678-1234

Aurora and RDS

Databases

Performance insights

Snapshots

Exports in Amazon S3

Automated backups

Reserved instances

Proxies

Subnet groups

Parameter groups

Option groups

Custom engine versions

Zero-ETL integrations

Events

Event subscriptions

Recommendations

Certificate updates

Databases (1)

Filter by databases

DB identifier

Status

Role

Engine

Region

Size

database-1

Available

Instance

PostgreSQL

eu-north-1c

db.t4g.micro

Create database

Modify

Actions

Group resources

CloudShell

Feedback

Console Mobile App

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Security Groups

sg-0b15c6095518u04x - default

Edit inbound rules

Edit inbound rules

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules

Security group rule ID

Type

Protocol

Port range

Source

Description - optional

Delete

sg-0c10d5678be47146e

PostgreSQL

TCP

5432

Custom

Q

Delete

sg-063f9e714b4665790

All traffic

all

all

Custom

Q

Delete

Add rule

Cancel

Preview changes

Save rules

CloudShell

Feedback

Console Mobile App

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Publicly accessible	No	Yes
Database port	5432	Yes
DB instance identifier	database-1	Yes
DB engine version	17.6	Yes
DB parameter group	default.postgres17	Yes
Database Insights -		

Aurora and RDS

Connectivity & security

Endpoint & port

- Endpoint: database-1.c2gagglapn7aw-north-1-1.cdk.amazonaws.com
- Port: 5432

Networking

- Availability Zone: eu-north-1c
- VPC: vpc-1a86d23c2d8fc7d91a
- Subnet group: default-vpc-0d9b03e2d8fc74d6a
- Subnets:
 - subnet-036c52319f1b11629
 - subnet-0f6bdc0271c58333f
 - subnet-0f271ba03ba5684d5
- Network type: IPv4

Security

- VPC security groups: default (sg-0b5c4d85118a84d1) Active
- Publicly accessible: No
- Certificate authority: rds-ca-rs2045-g1
- Certificate authority date: May 25, 2061, 05:20 (UTC+05:30)
- DB instance certificate expiration date: November 09, 2026, 17:38 (UTC+05:30)

Connected compute resources 0/1 info

Register - Server

Port: 5432

Maintenance database: postgres

Username: postgres

Password: postgres

Save password? ☒

Message: Unable to connect to server: connection timeout expired

Buttons: Close, Reset, Done

EC2

Instances

Dashboard

AWS Global View

Events

Instances

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations
- Capacity Manager

Images

- AMIs
- AMI Catalog

Elastic Block Store

- Volumes
- Snapshots
- Lifecycle Manager

Instances (1)

14th updated less than a minute ago

Connect

Instance state

Actions

Launch instances

Find instance by attribute or tag (case-sensitive)

All states

< 1 >

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status checks	Alarm status	Availability Zone	Public IPv4 DI
<input type="checkbox"/>	myserver	i-00d55b63e3ed7746e6	Warning	t3.micro	Initializing	View alarms	eu-north-1a	ec2-51-20-181

Select an instance