Experiment 9

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Branch: CSE Section/Group: KRG 3_A

Semester: 5th Date of Performance:30/10/2025

Subject Code: 23CSP-333

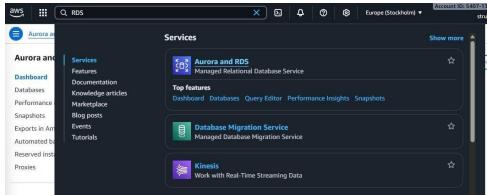
1. Aim:

AWS RDS

Subject Name: ADBMS

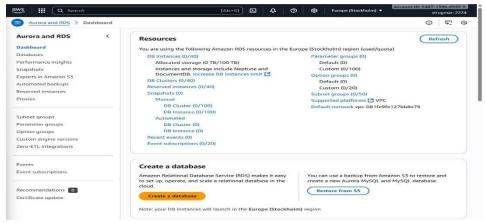
OVERVIEW OF AWS RDS

- CREATION OF DATABASE INSTANCE ON AWS RDS
- SECURITY GROUPS
- CONNECTING LOCAL PGADMIN TO CLOUD RDS
 - 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

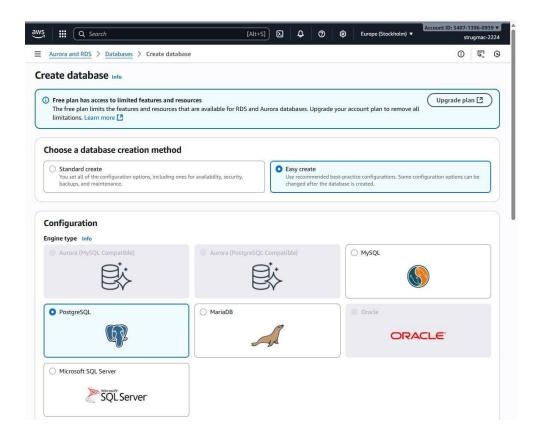


3. HOW TO CREATE MY SQL DATABASE INSTANCE ON AWS RDS?





4. CLICK ON CREATE DATABASE



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



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DD IIIStance Size			
Production db://gx/large 4 vCPUs 32 GiB RAM 400 GiB 1:946 USO/hour	Dev/Test db.r7g.large 2 vCPUs 16 GiB RAM 200 GiB 0.278 USD/hour		Free tier db.t4g.micro 2 vCPUs 1 GIB RAM 20 GIB 0.019 USD/hour
DB instance identifier Type a name for your DB instance. The name must be unique across a	ll DB instances owned by yr	our AWS account in the current AW	/S Region.
strugmac-DB			
The DB instance identifier is case-insensitive, but is stored as all lower 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.	case (as in "mydbinstance")). Constraints: 1 to 63 alphanumeri	c characters or hyphens. First character must be a letter. Can't
admin			
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 creder Managed in AWS Secrets Manager - most secure RDS generates a password for you and manages it throughout 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			
Password strength Very strong			
Minimum constraints: At least 8 printable ASCII characters. Can't cont	ain any of the following syr	mhols: / ' * @	

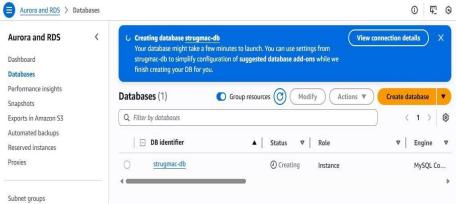
▼ View default settings for Easy create

Easy create sets the following configurations to their default values, some of which can be changed later. If you want to change any of these settings now, use Standard create.

Configuration	▼ Value	Editable after database is created	•
Encryption	Enabled	No	
VPC	Default VPC (vpc- 081fe9fe127bb8e79)	No	
Multi-AZ	No	Yes	
Option group	default:mysql-8-0	Yes	
Subnet group	Create new DB Subnet Group	Yes	
Automatic backups	Enabled	Yes	
VPC security group	default	Yes	
Publicly accessible	No	Yes	
Database port	3306	Yes	
DB instance identifier	strugmac-DB	Yes	
DB engine version	8.0.42	Yes	
DB parameter group	default.mysql8.0	Yes	
Monitoring type	Database Insights - Standard	Yes	
Performance insights	Not enabled	Yes	
Monitoring	Enabled	Yes	
Maintenance	Auto minor version upgrade enabled	Yes	



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6. 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,

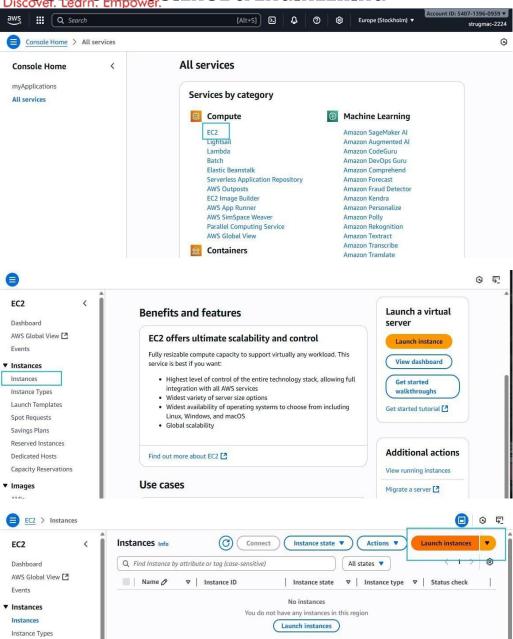
7. Launching an EC2 instance



Spot Requests

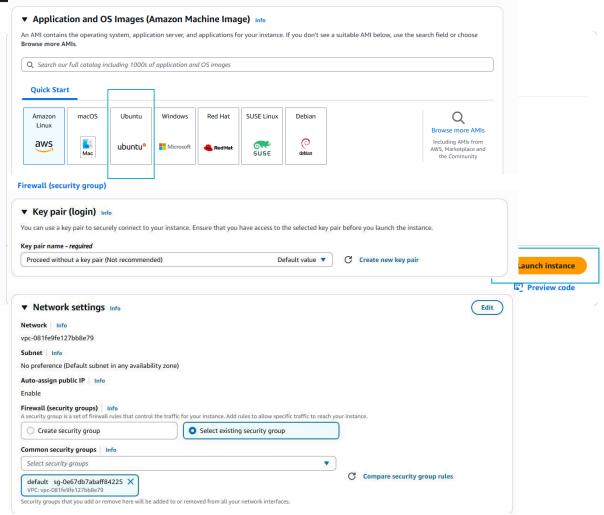
DEPARTMENT OF

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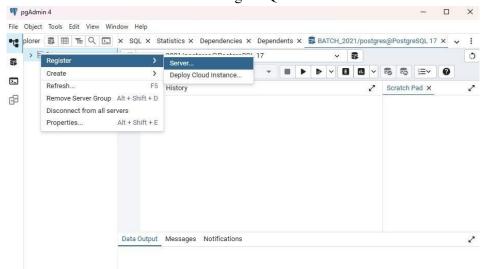


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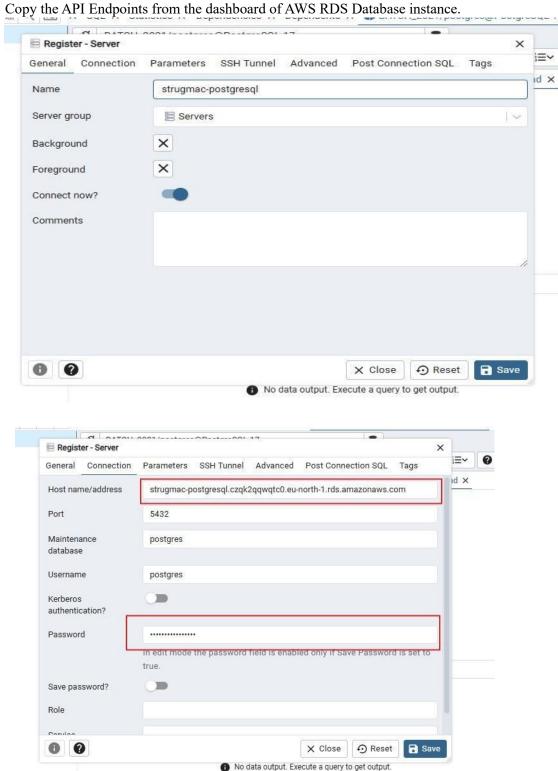
Other option is that we can connect the Postgres AWS RDS to our local machine.

1. Create AWS RDS database for PostgresSQL 2.





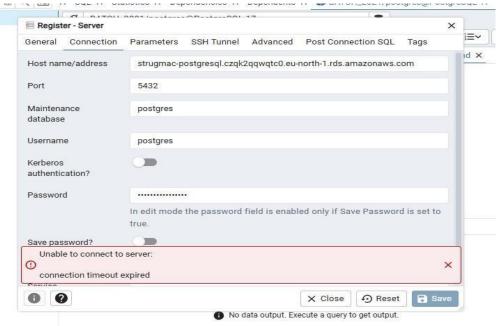
Connect from PgAdmin.





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4. Click on Save



- 5. Might give this error as this DB instance is not available locally.
- 6. Change the INBOUND RULES of DB Instance from the AWS Console

