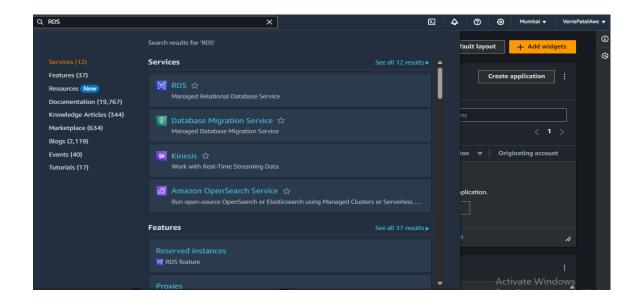
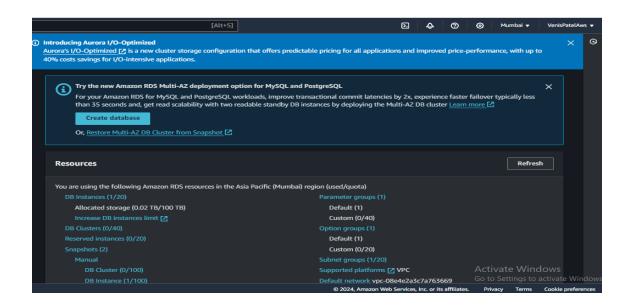
TASK 1: Create a new Amazon RDS instance with a database engine of your choice (PostgreSQL)

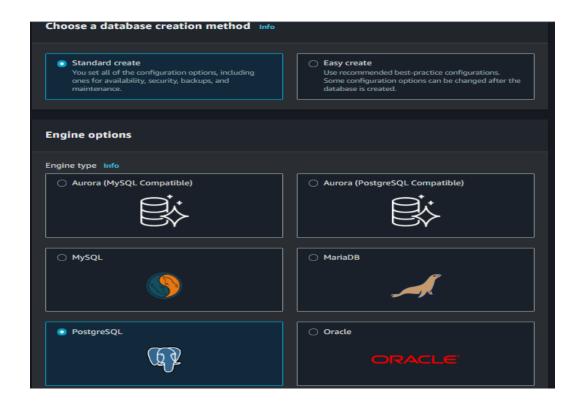
- 1. Configure the instance with appropriate settings, including the master username and password.
- 2. Take a manual snapshot of your RDS instance.
- 3. Do PG Dump of RDS using connection string or Connect to the DB using connection string.
- > Steps to create RDS PostgreSQL database:
- 1. Search for RDS in AWS Console.



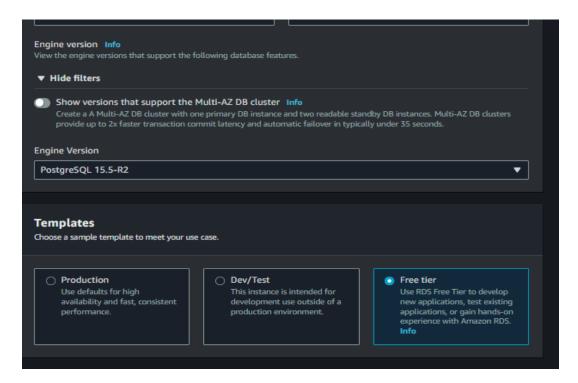
2. In RDS click on "Create Database".



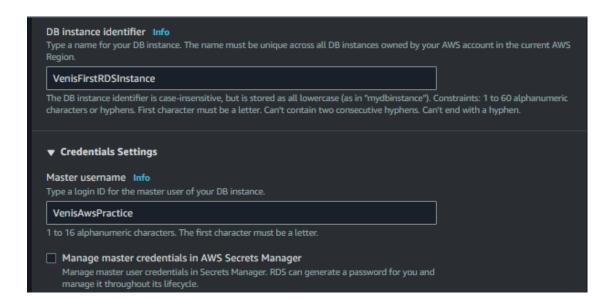
3. Now select "Standard Create" in choose database creation, Select postgresql in Engine options. Select version PostgreSQL.



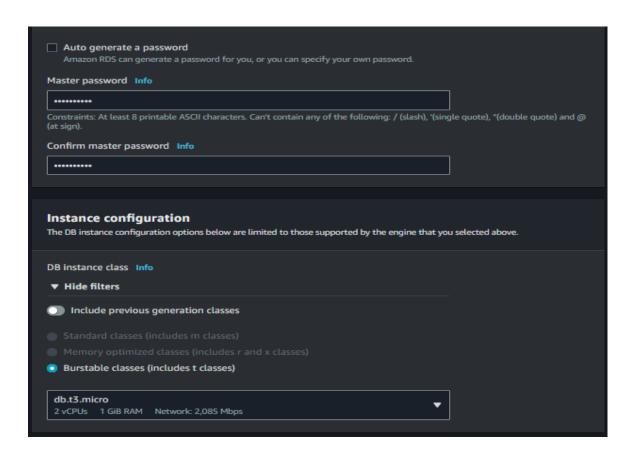
4. Select Postgres version 15.5-R2 and select Free tier Templates.



- 5. Now enter the following details:
 - a. Db Instance Identifier: VenisFirstRDSInstance
 - b. Master Username: VenisAwsPractice
 - c. Master Password



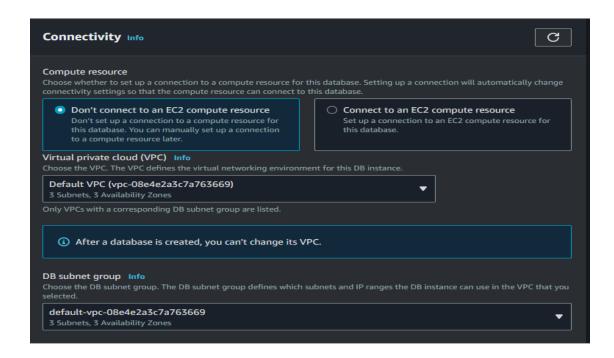
6. Select Instance configuration as db.t3.micro (covered under free tier).



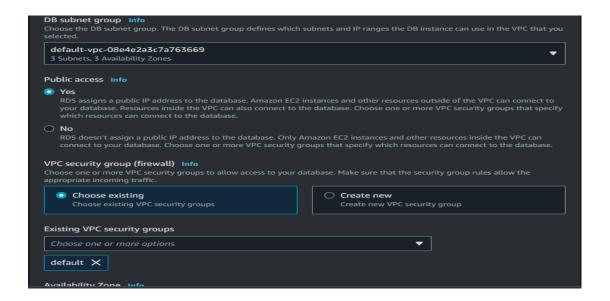
7. Then select storage type "gp2" and allocate 20gb of storage.



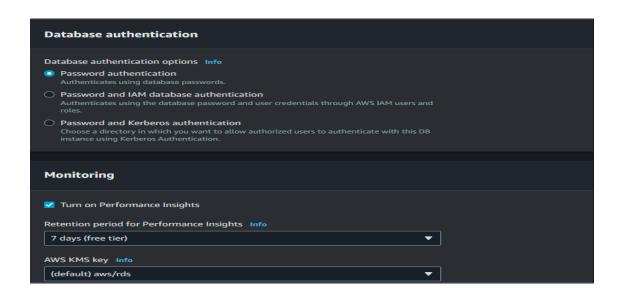
8. Under connectivity select "Don't Connect to an EC2 compute resource", Then select Default VPC. And select default-vpc in subnet group.



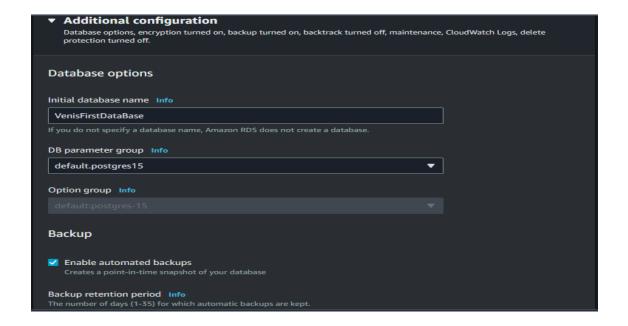
9. We don't want to allow RDS database to be accessed but just for tutorial purpose, we are making it public . Select Existing "default" security groups.



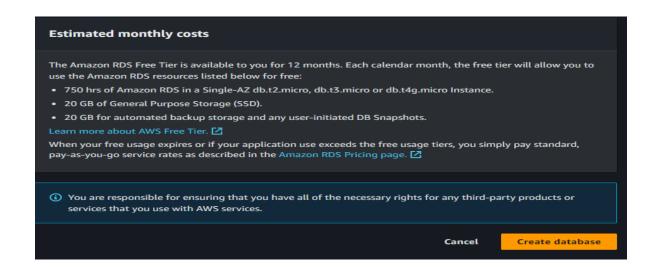
10. Select "Password Authentication" as Database authentication and keep everything same.



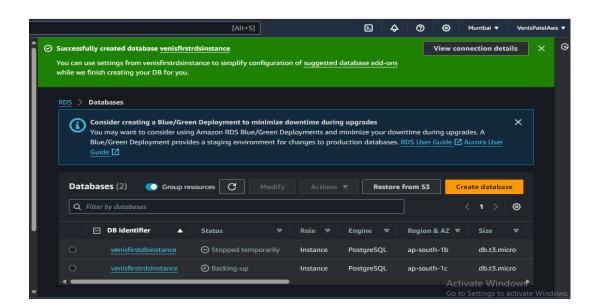
11. Now Go into Additional configuration and give Initial database name as "VenisFirstDataBase" and keep everything default.



12. Now Select "Create database".

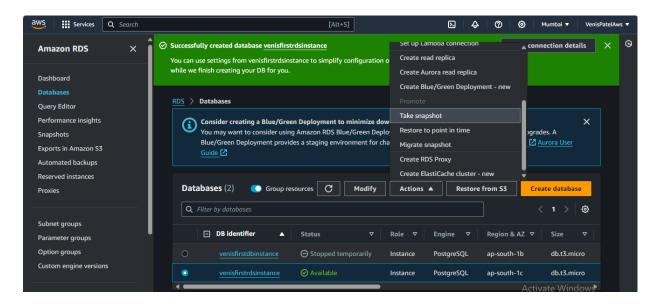


13. Now, here we can see that RDS has been created.

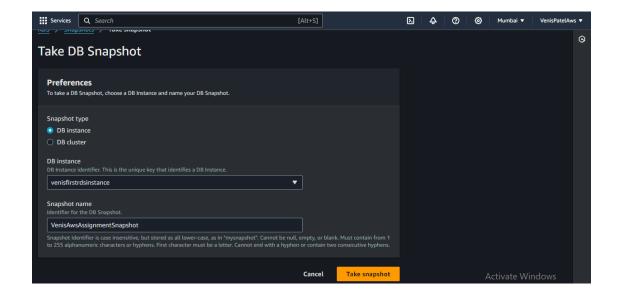


> Steps For Taking Snapshots.

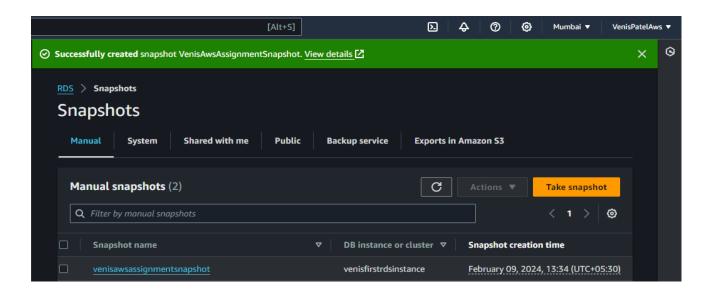
1. Now wait for Available status of DB Instance and then select that instance and go to Actions and Select "Take Snapshot".



2. Now select DB Instance and give DB instance "venisfirstinstance" and now give Snapshot name "VenisAwsAssignmentSnapshot".



3. Here we can see Snapshot has been taken.



> Steps For Taking backup using pg_dump

1. First of all connect a instance and Now we have to install Postgres so that we can access our RDS database.

Run command: sudo amazon-linux -extras install postgresql14

2. Now for taking backup of data, we have to run pg_dump command and after that we can see created backup file by using ls and cat commands.

pg_dump -h <hostname or Ip>-U <Mastername> -d <Initial Database name> -Fc -f <Output file>

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