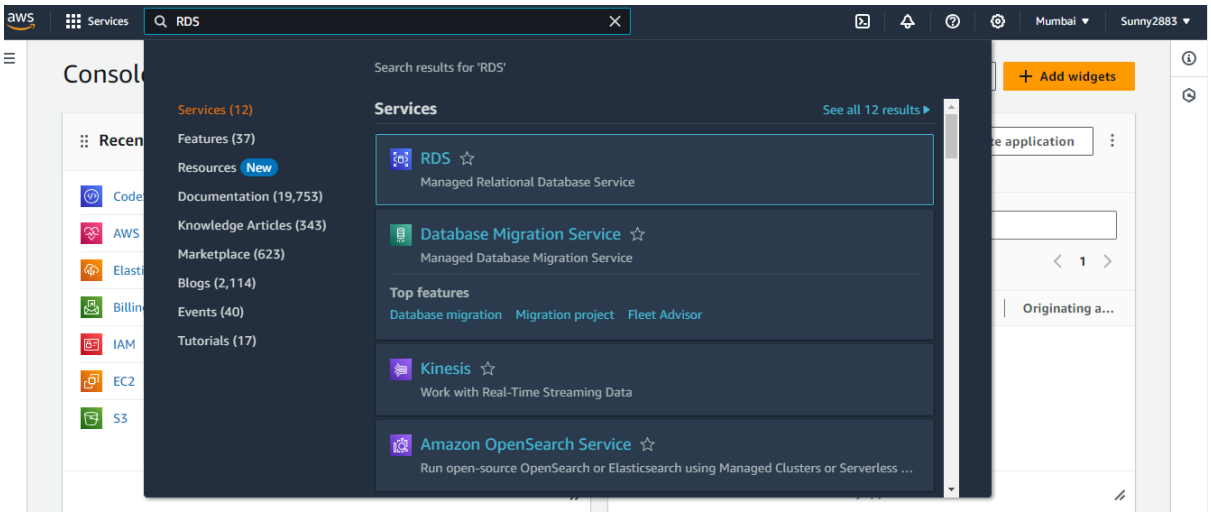
Assignment DB

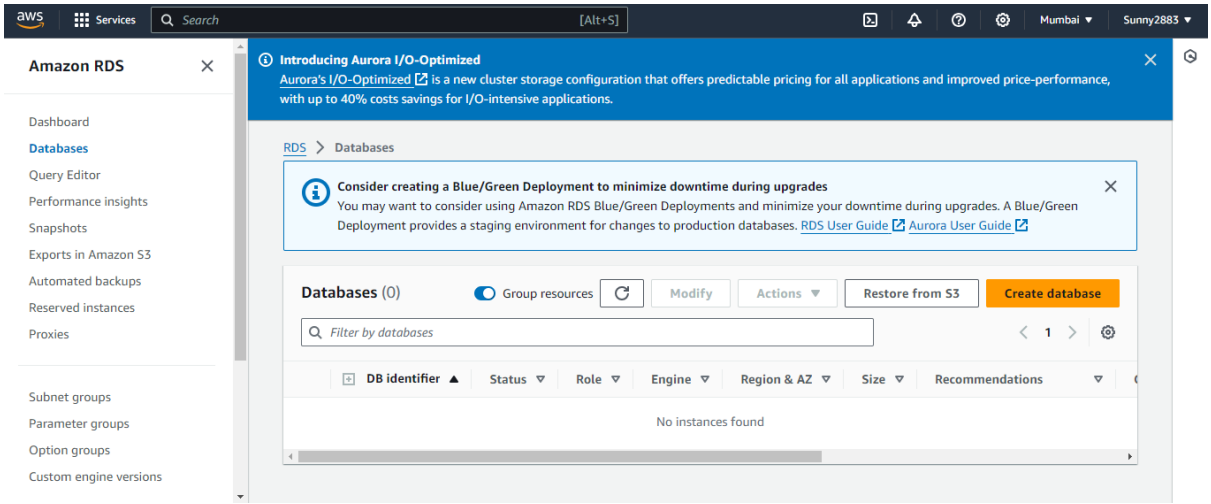
Task1:

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

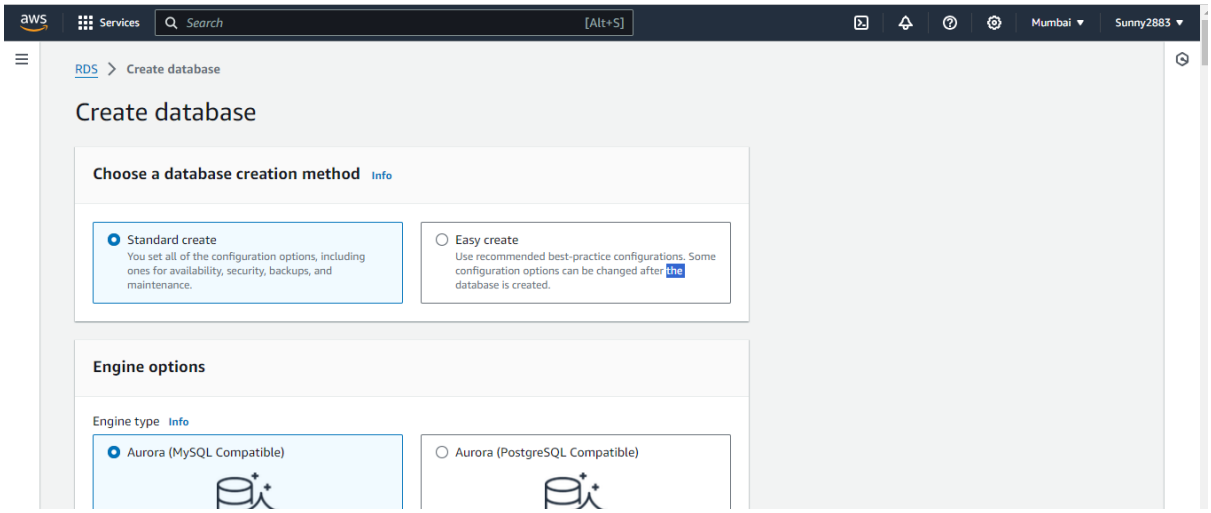
Step1: From the AWS Management Console, find and open the Amazon RDS service.



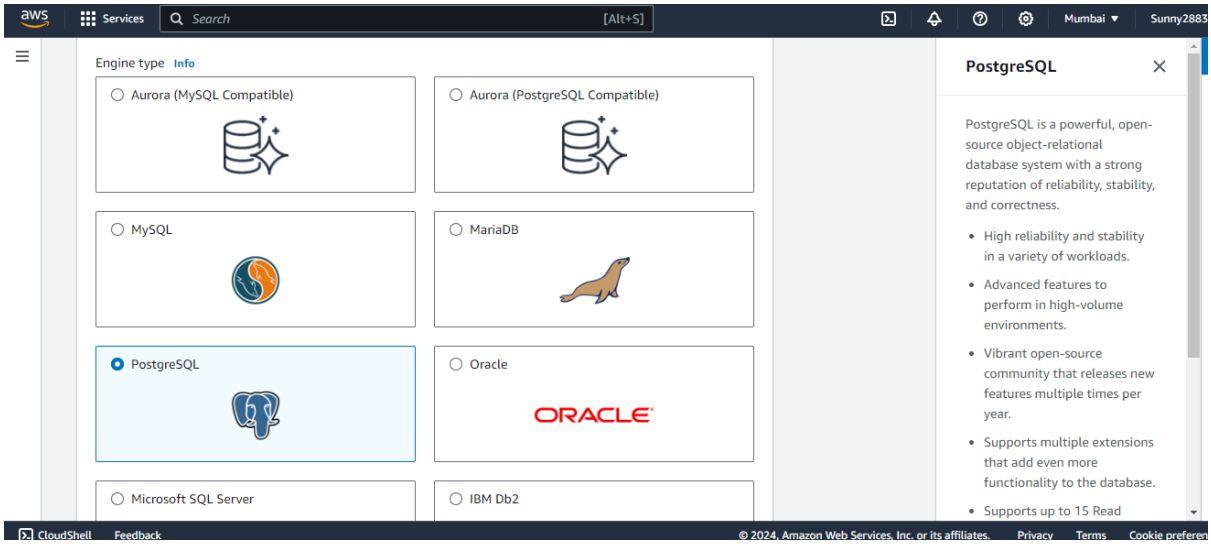
Step2: Click on the "Create Database" button to initiate the process.



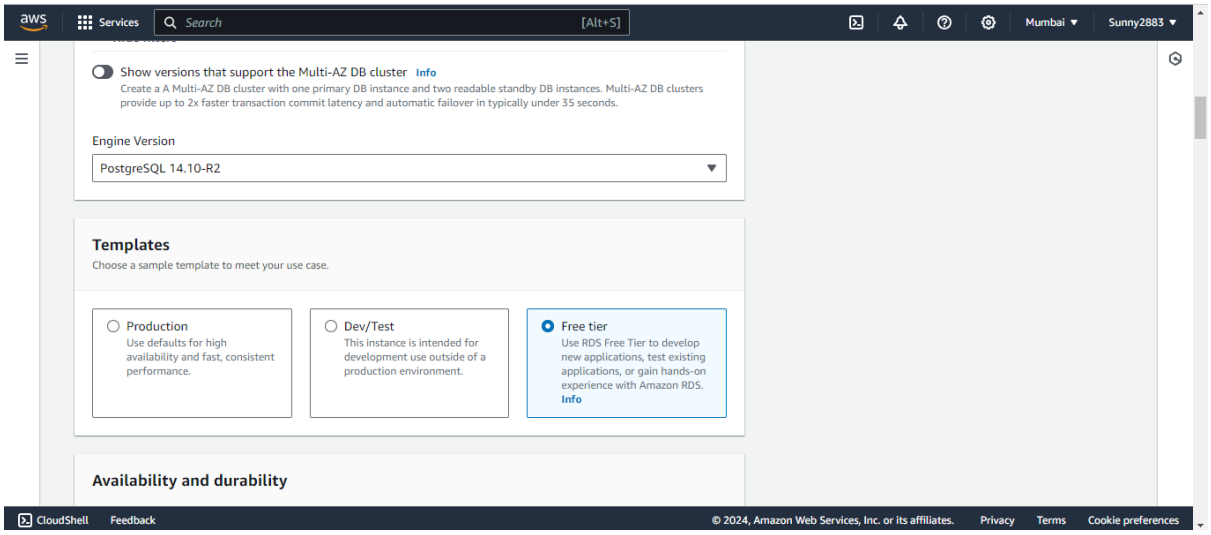
Step3: Choose a template or select "Standard Create."



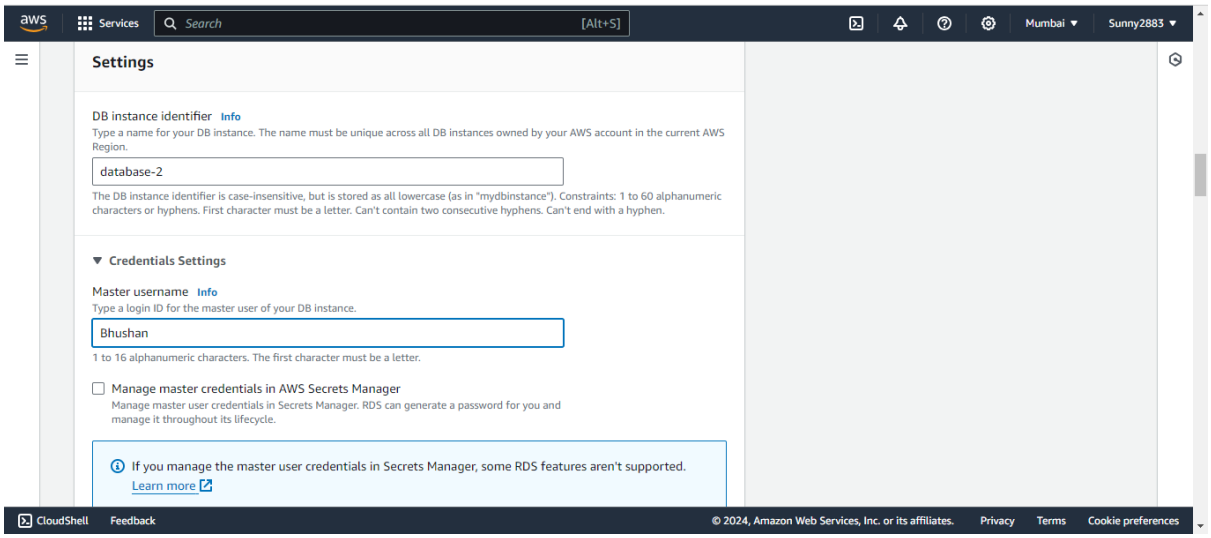
Step4: Choose the PostgreSQL database engine from the available options.



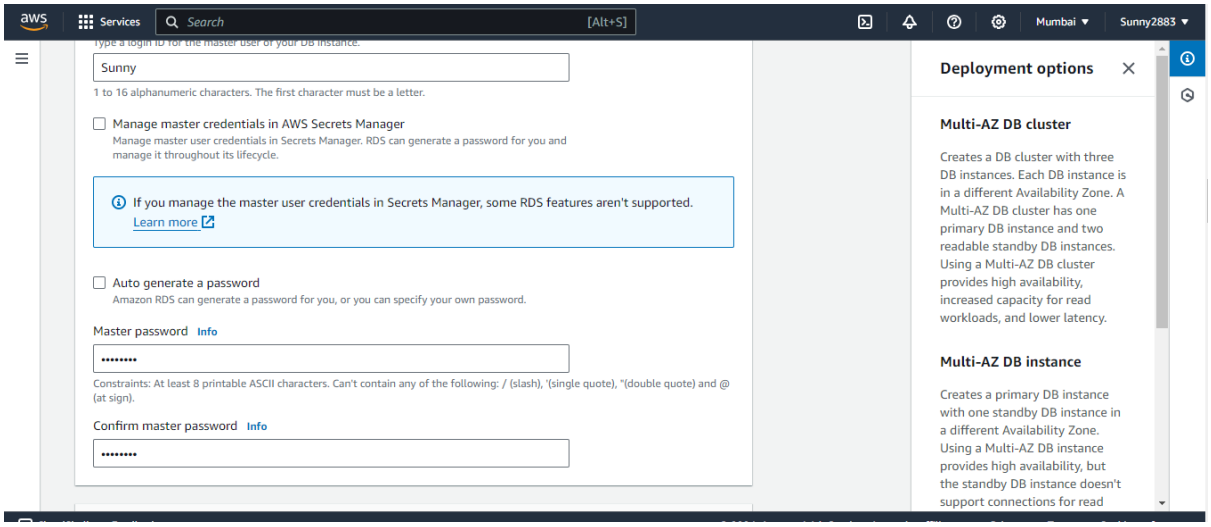
Step5: Choose version and a free tier template.



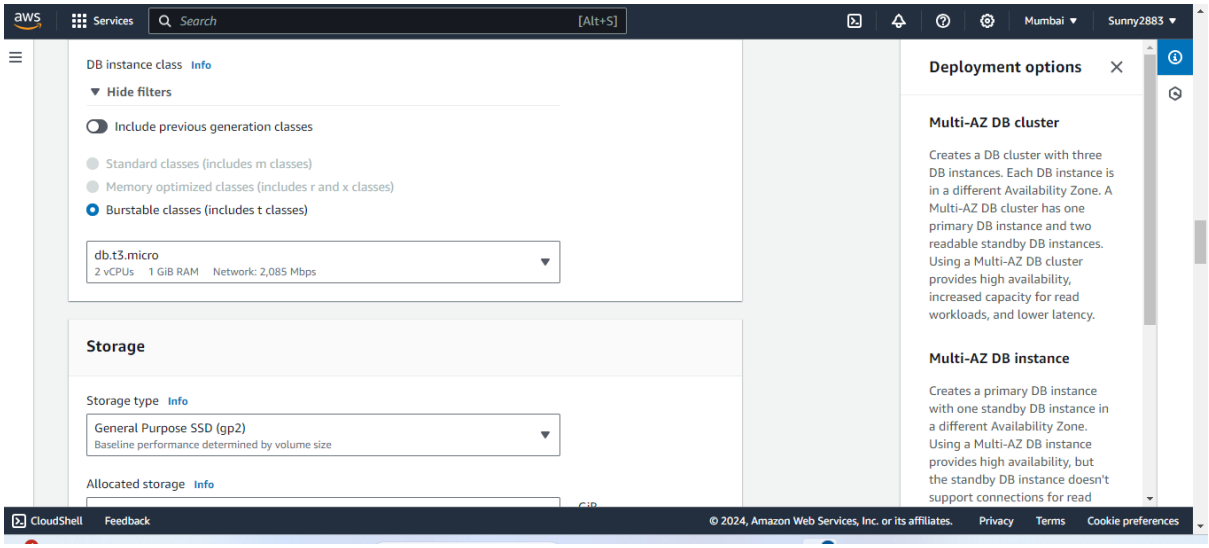
Step6: DB Instance Identifier: Enter a unique name for your DB instance.



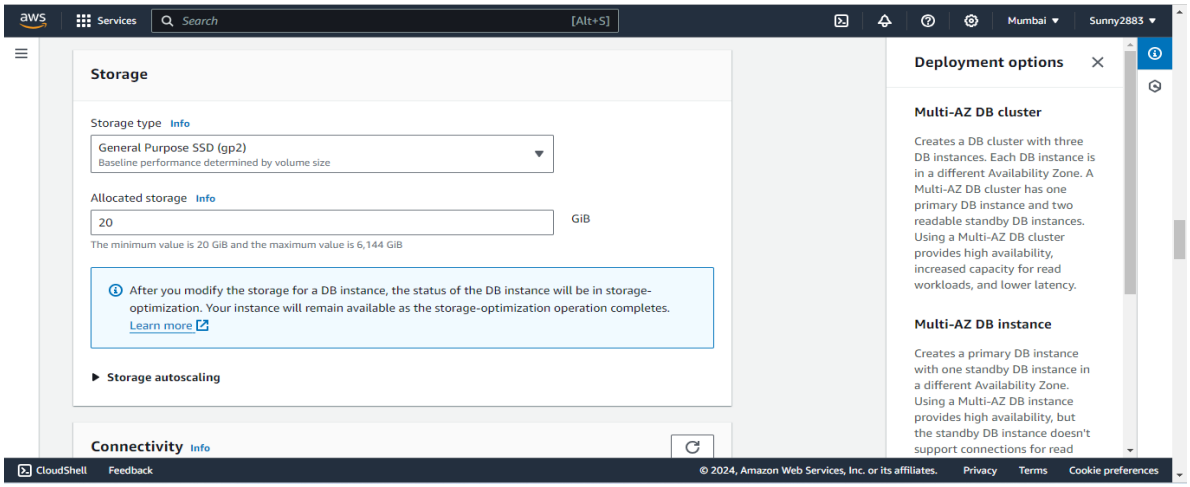
Step7: Master Username/Password: Set the master username and password.



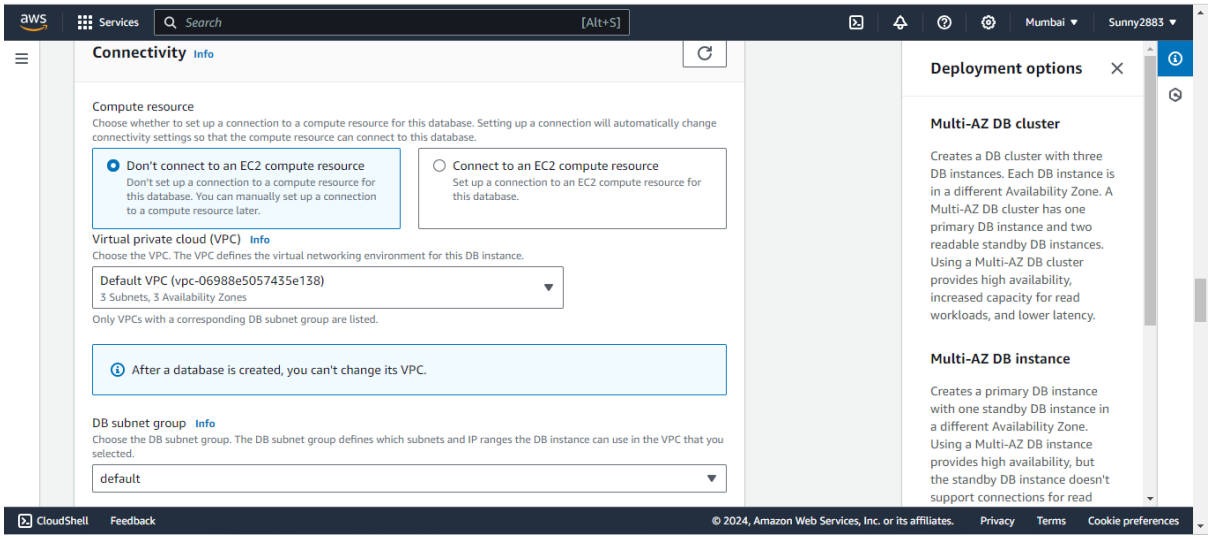
Step8: Choose the instance type based on your requirements.



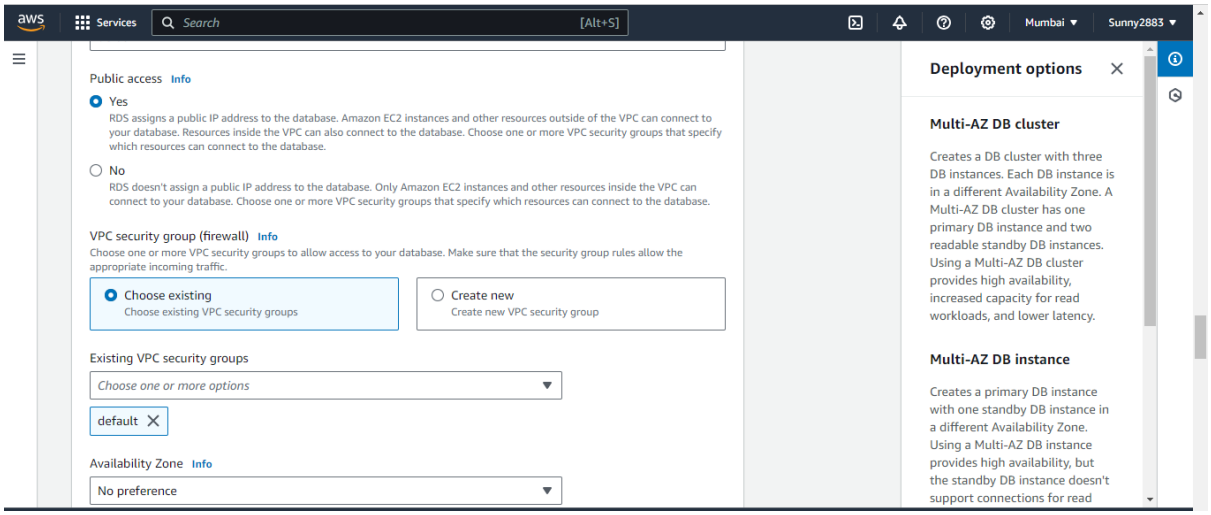
Step9: Set the allocated storage for your database.



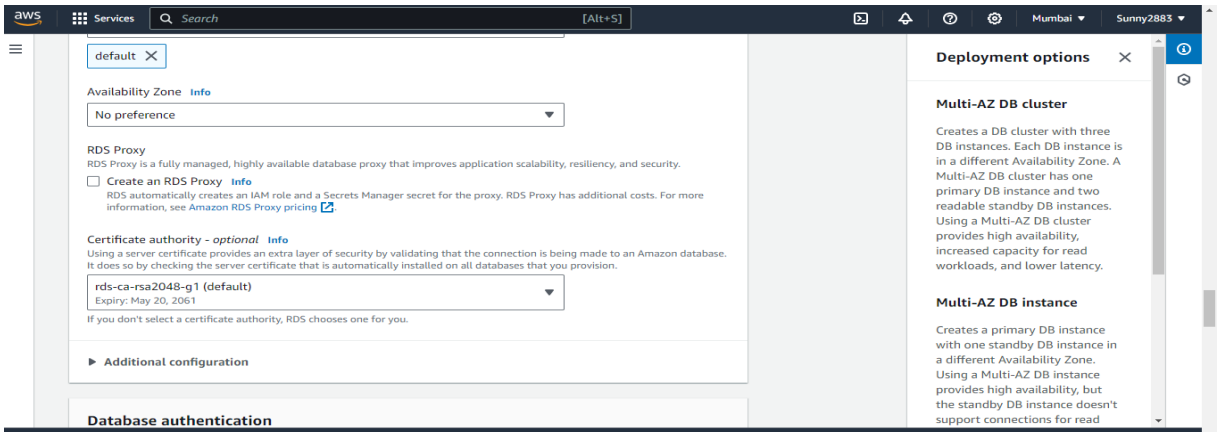
Step10: Set the connectivity including compute resource subnet group and VPC.



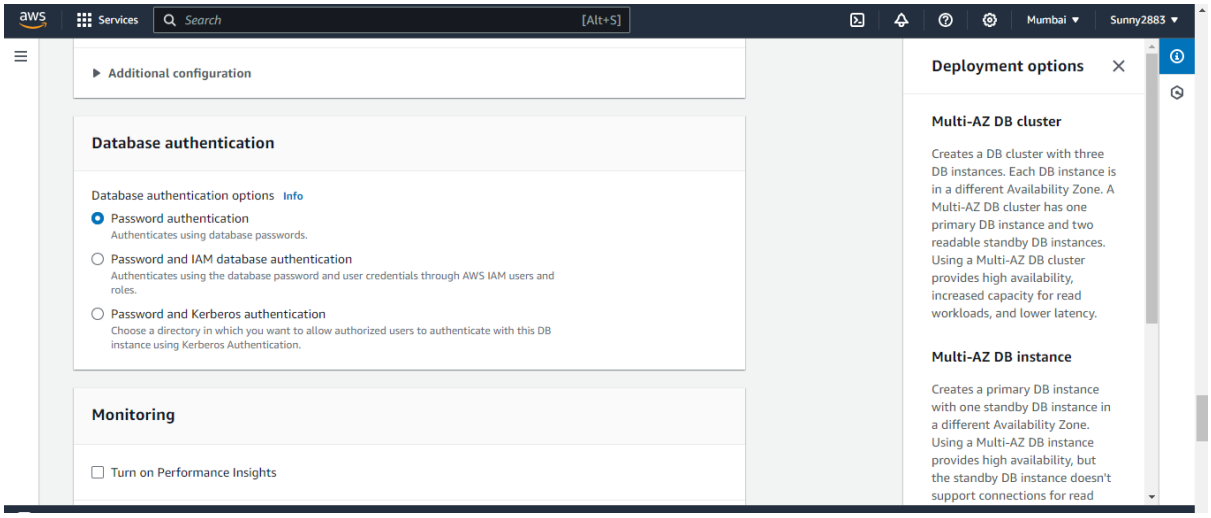
Step11: Select the Virtual Private Cloud where your DB instance will be launched and choose the subnet group for your DB instance.



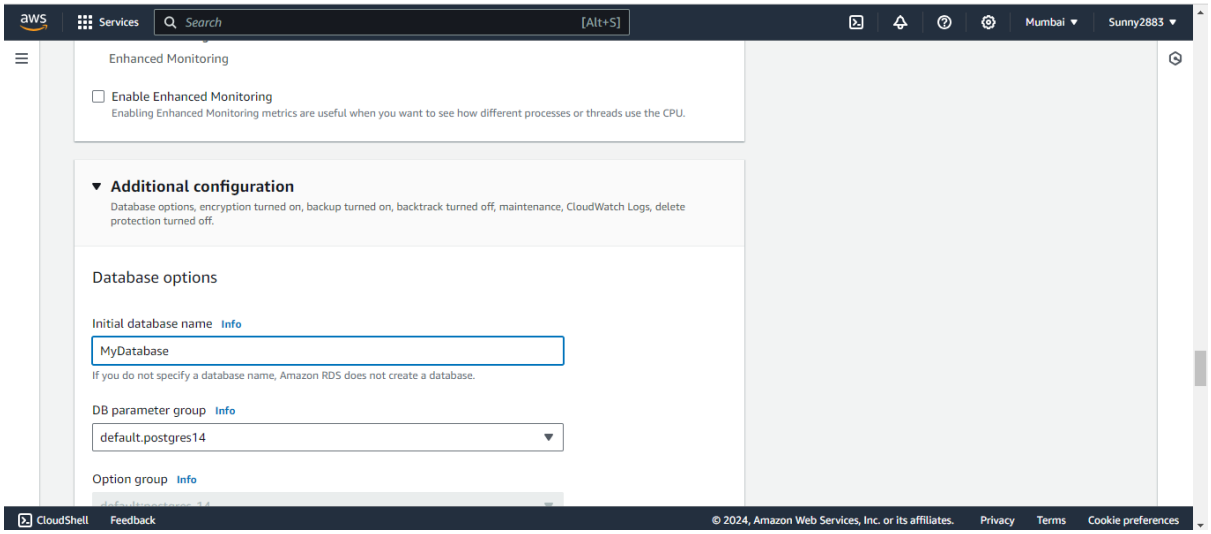
Step12: Choose whether to enable Multi-AZ deployment for high availability.



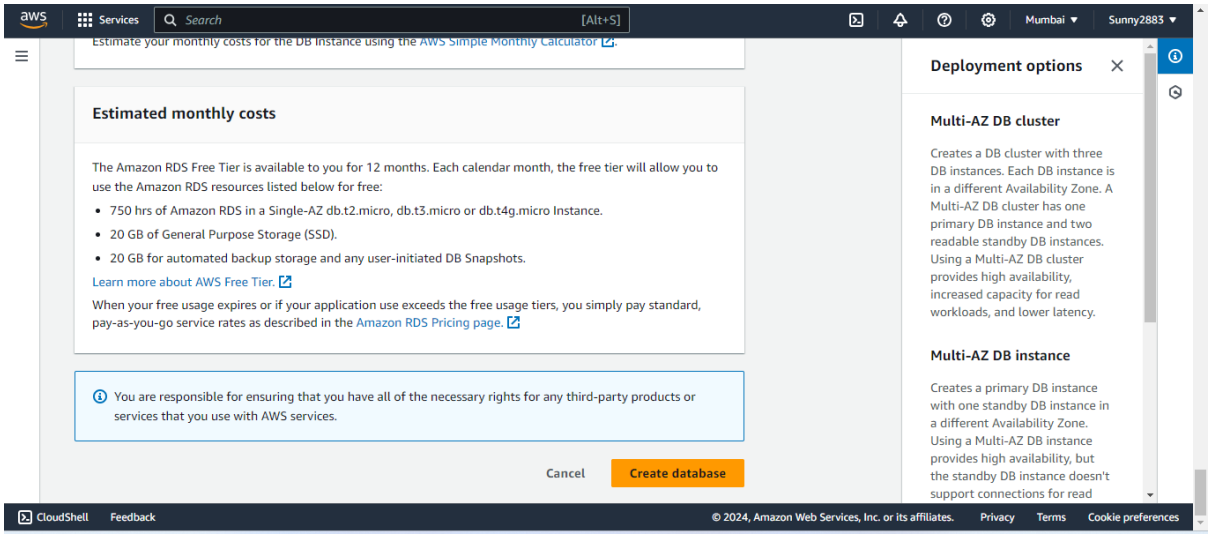
Step13: Configure Authentication, which control access to your DB instance.



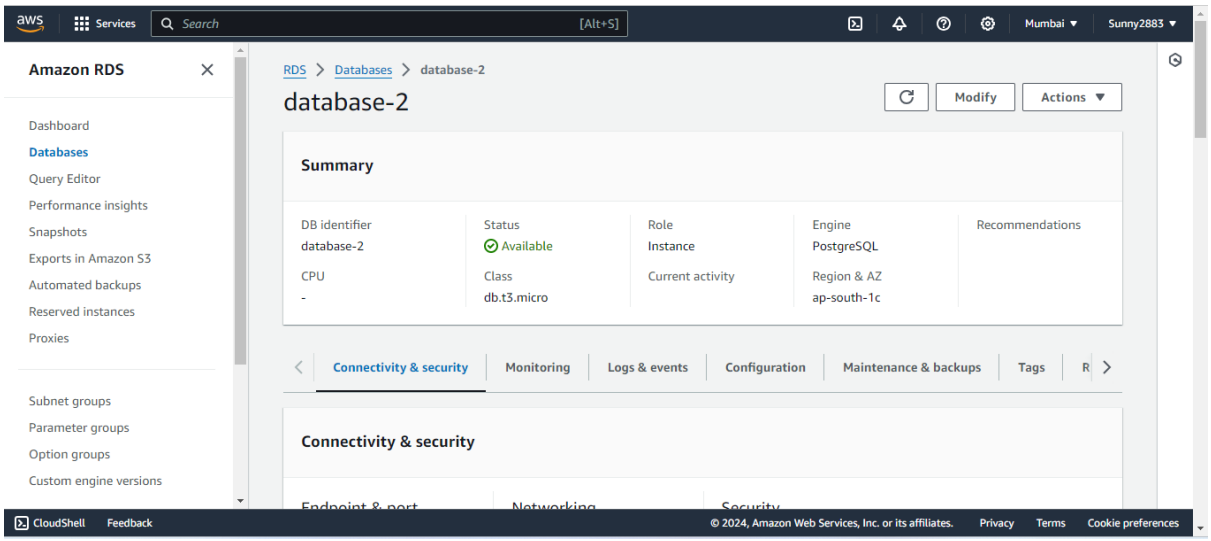
Step14: Add initial database name .

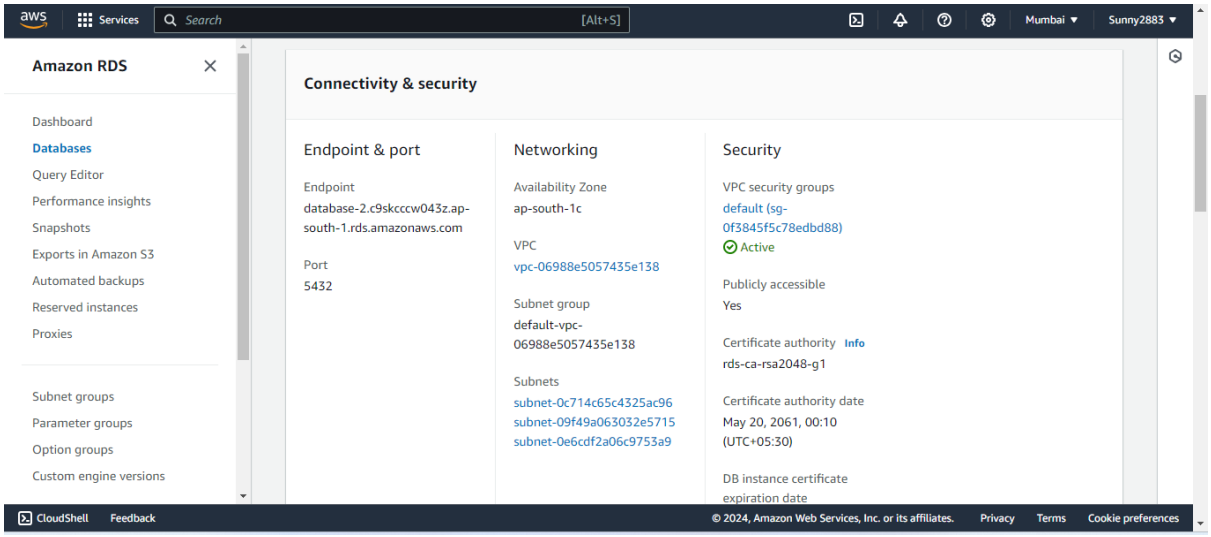


Step15: Click on the "Create Database" button to initiate the creation process.



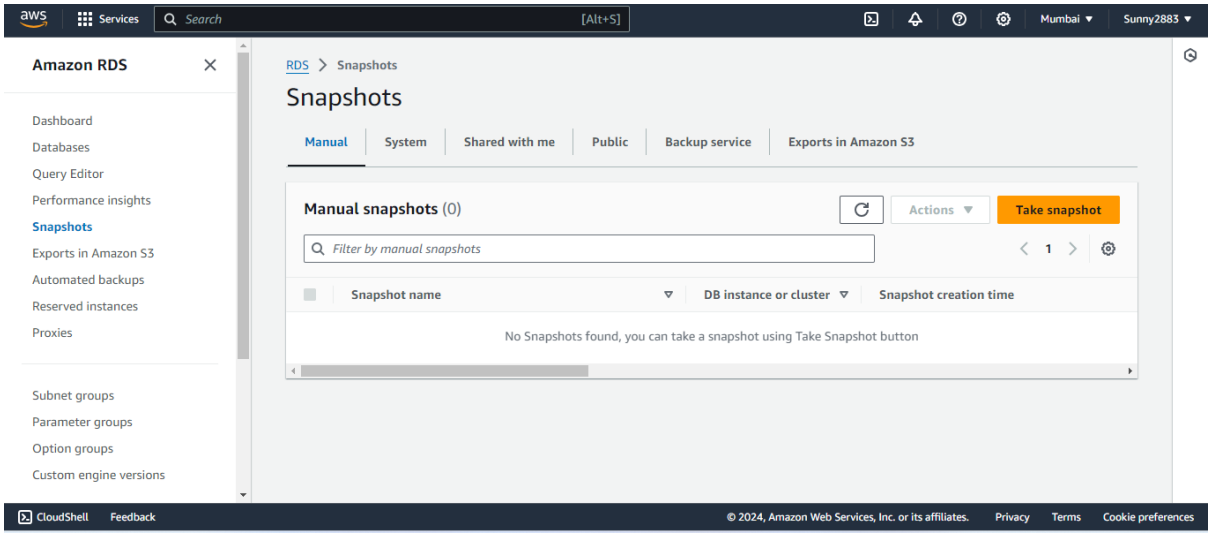
Step16: Once the instance status is "Available," you can access your PostgreSQL database using the provided endpoint, master username, and password.



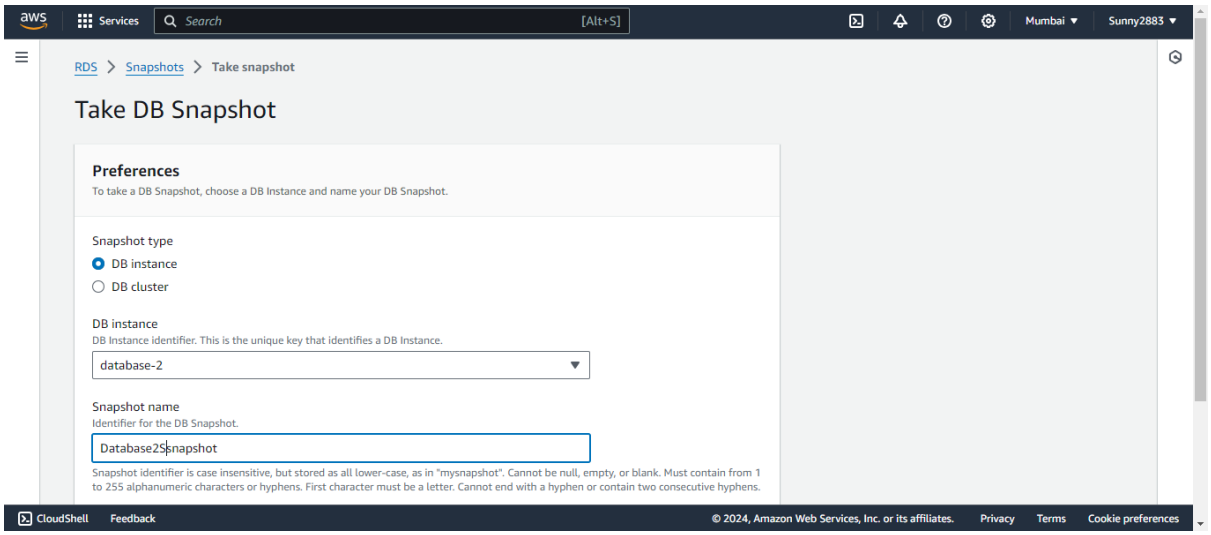


2. Take a manual snapshot of your RDS instance.

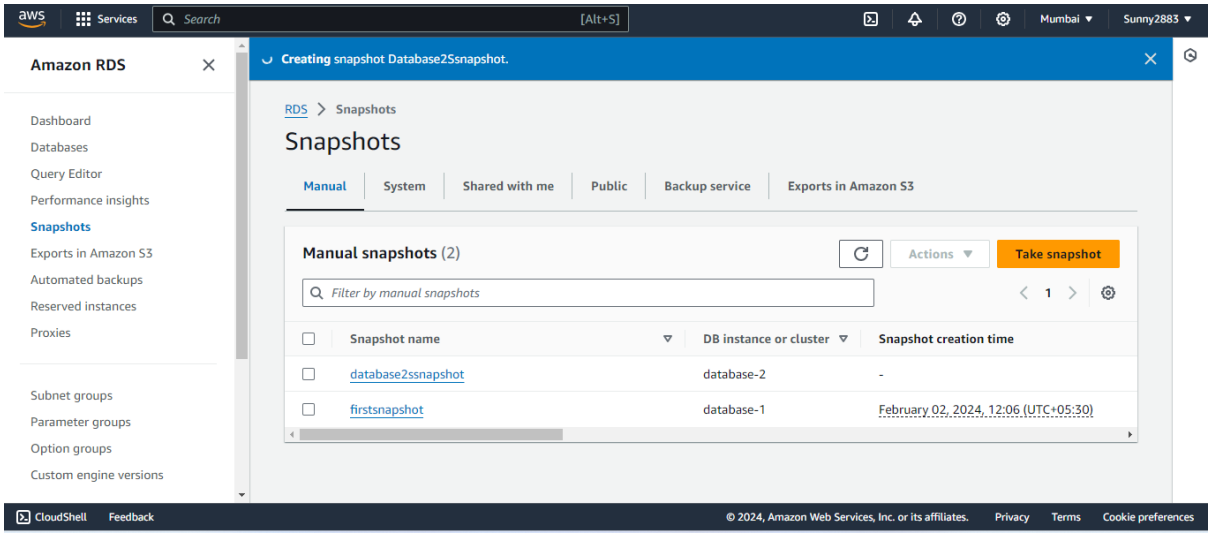
Step1**:** From the dropdown menu, select "Take Snapshot."



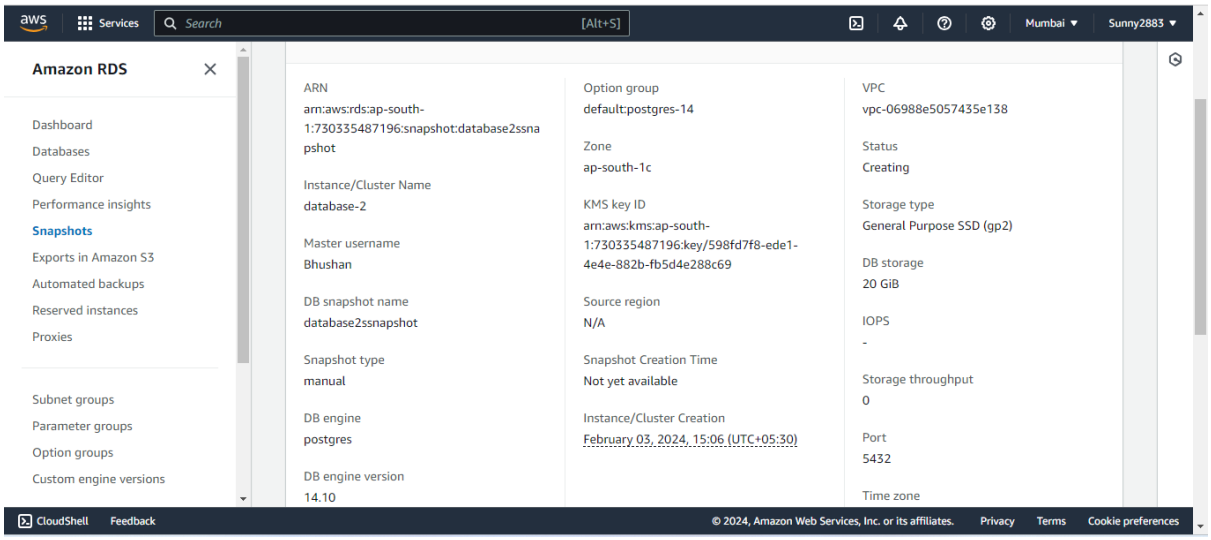
Step2: Select snapshot type and enter a descriptive name for the manual snapshot and Click on the "Take Snapshot" button to initiate the manual snapshot creation



Step3: The snapshot creation process may take some time. Monitor the progress on the RDS dashboard.



Step4: Once the snapshot is created, you can verify its status in the list of snapshots. The status should be "Available."



3. Do PG Dump of RDS using connection string or Connect to the DB using connection string.

Step1: Connect to AWS EC2 Instance:

Step2:Install postgresql14 using amazon-linuz-extras.

sudo amazon-linux-extras install postgresql14

```
Bhushanfalse3[ec2-user@ip-172-31-45-45 ~]$ ^C
[ec2-user@ip-172-31-45-45 ~]$ sudo amazon-linux-extras install postgresql14
```

Step3: install postgresql14.

sudo yum install postgresql

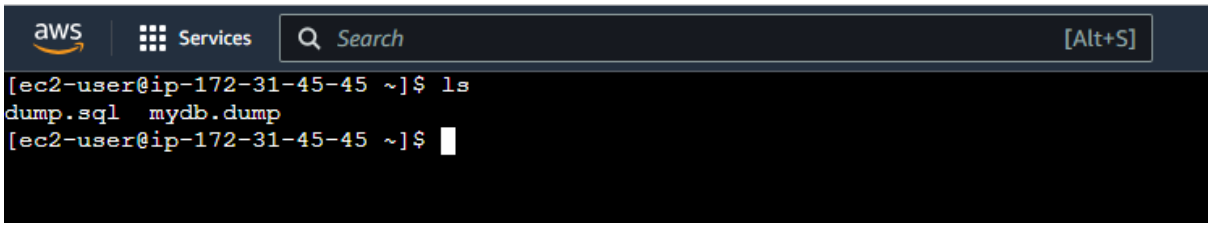
```
[ec2-user@ip-172-31-45-45 ~]$ sudo yum install postgresql
```

Step4: Run the pg_dump command using the connection string to perform a database dump:

pg_dump -h database-2.c9skcccw043z.ap-south-1.rds.amazonaws.com -U Bhushan -Fc MyDatabase > mydb.dump

```
[ec2-user@ip-172-31-45-45 ~]$ pg_dump -h database-2.c9skcccw043z.ap-south-1.rds.amazonaws.com -U Bhushan -Fc MyDatabase > mydb.dump
```

Step5: Use la command to list all the files.



Step6: Use cat command see the content of dump file.

cat mydb.dump