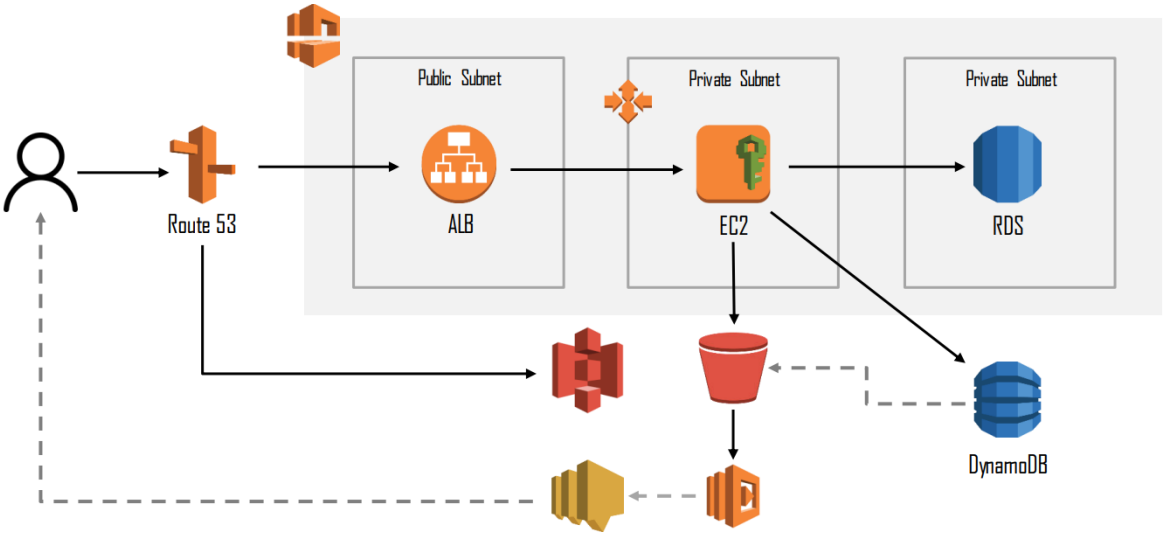
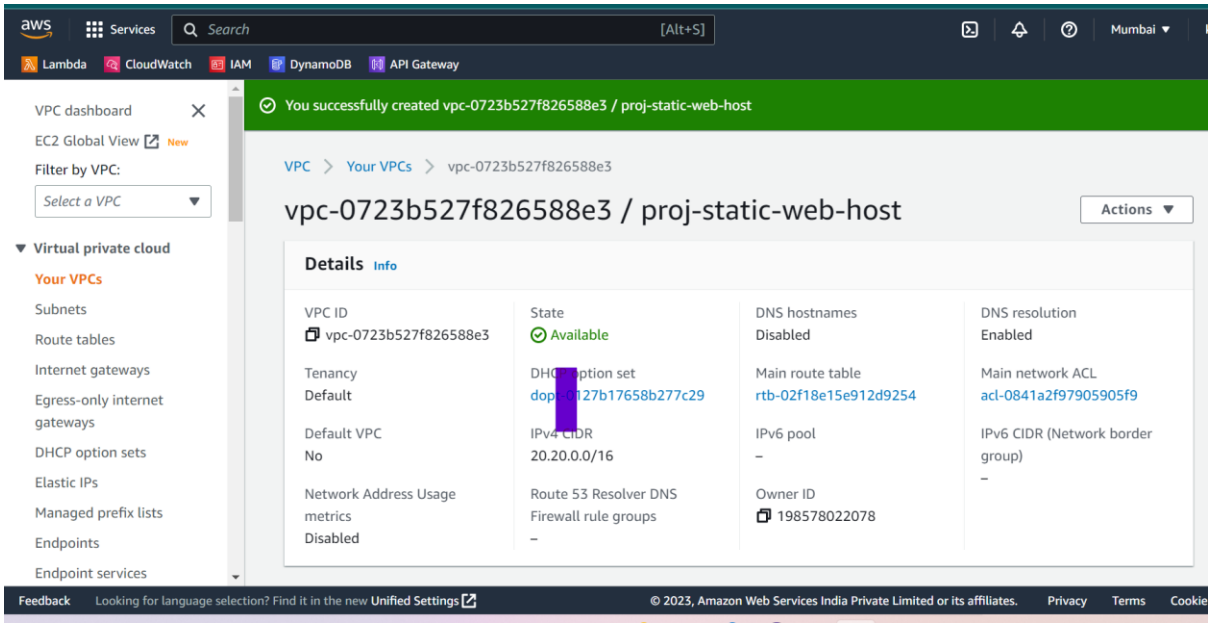
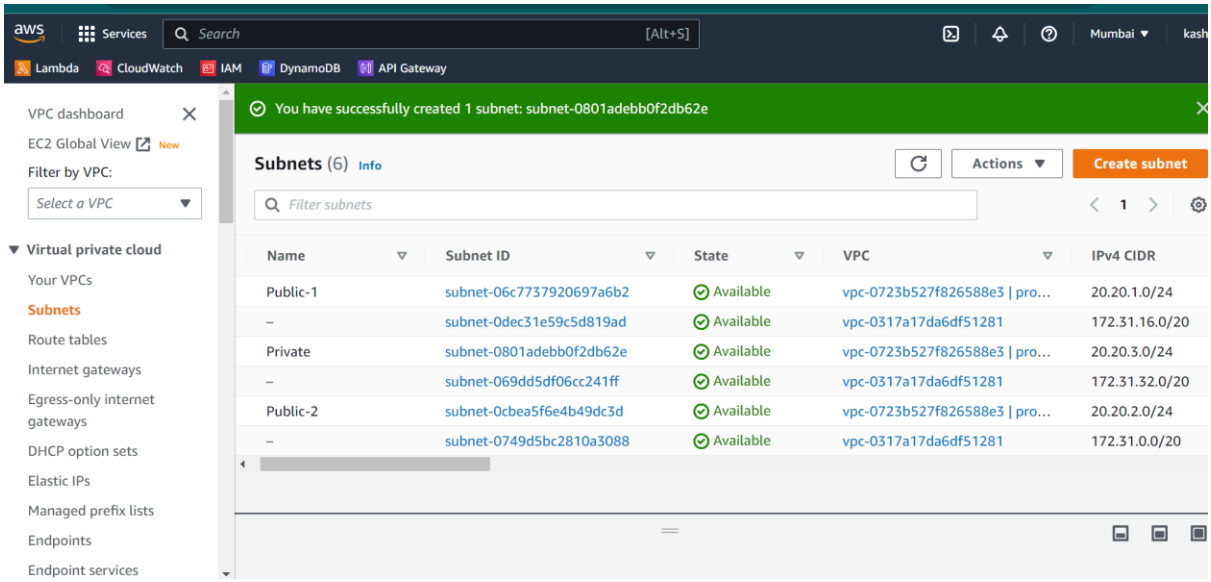
PROJECT



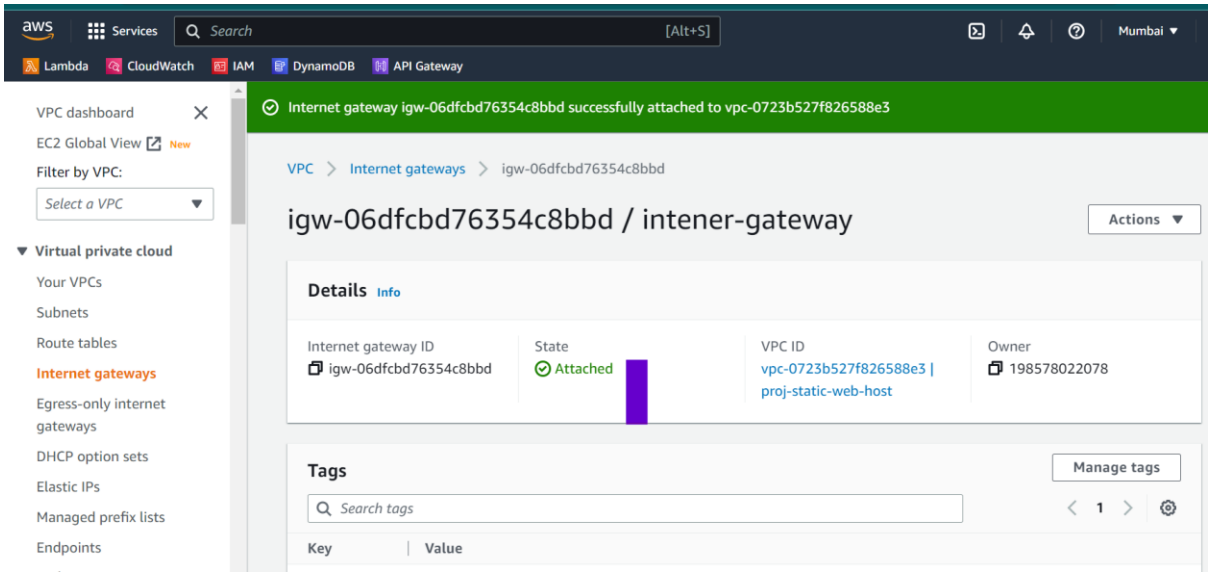
Above is the Architecture



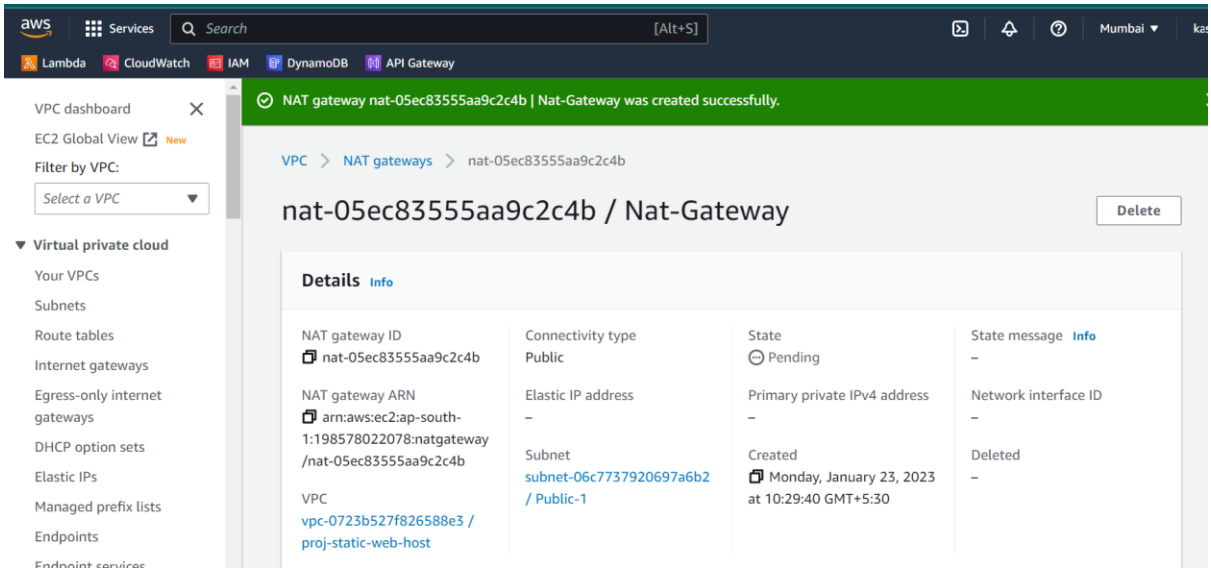
- Created VPC Named proj-static-web-host
- The next step is to create subnet, 3 subnet are created inorder to create a Load Balancer 2 subnets are must .



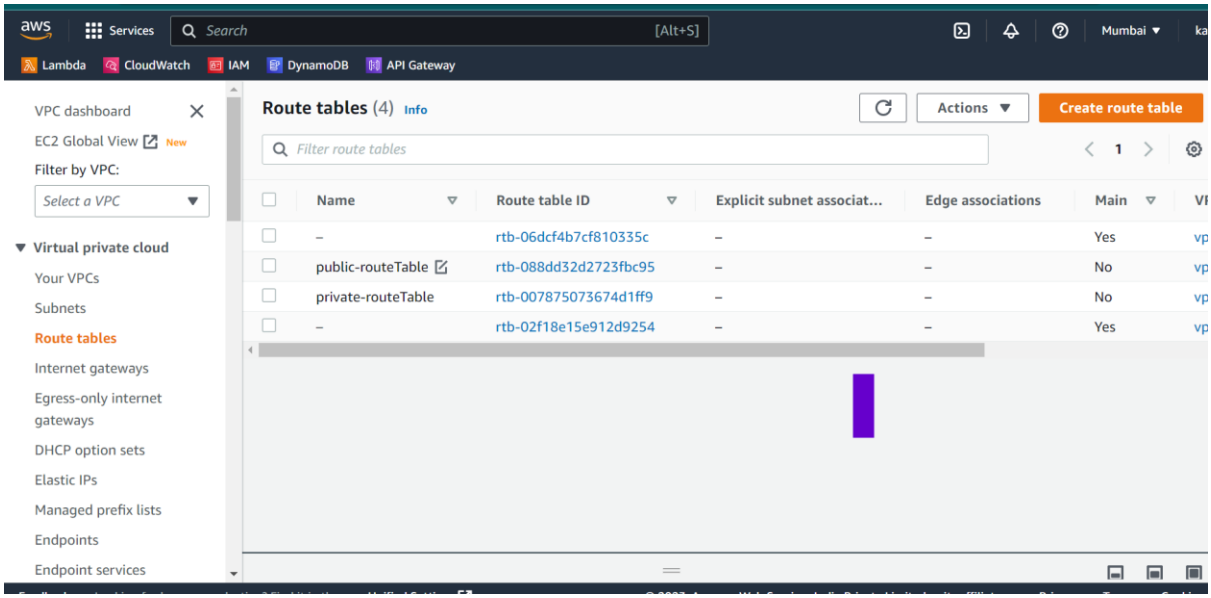
- Created 3 subnets out of which 2 public and one private, 2 subnets public-1 and private are created in the same AZ.
- Now setting up Internet Gateway



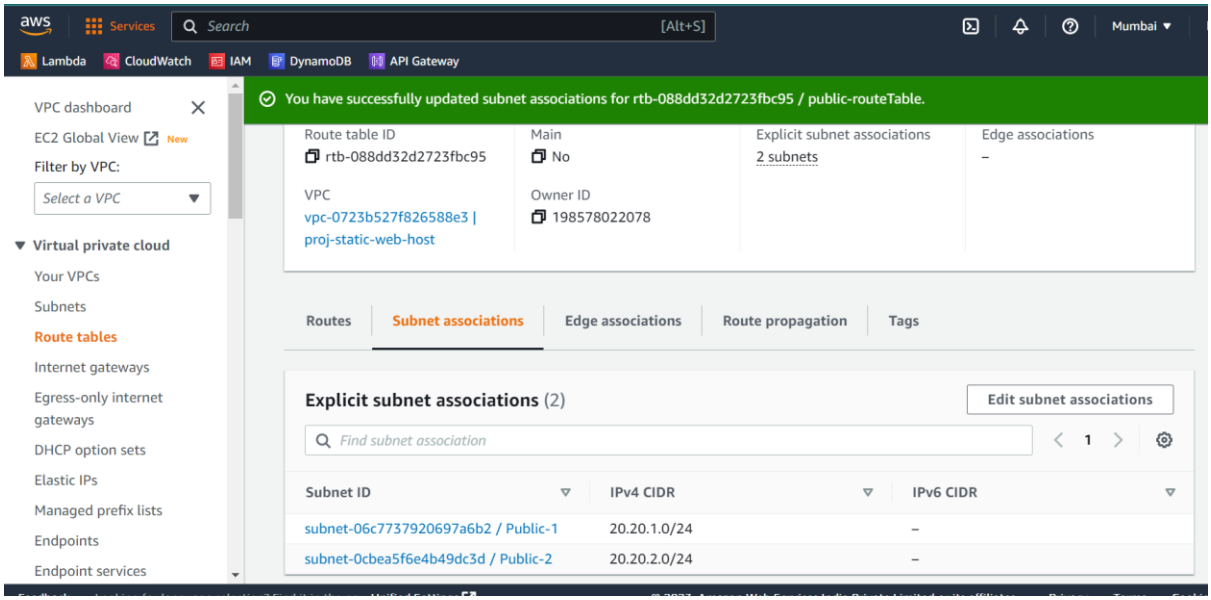
- Attached the gateway to VPC



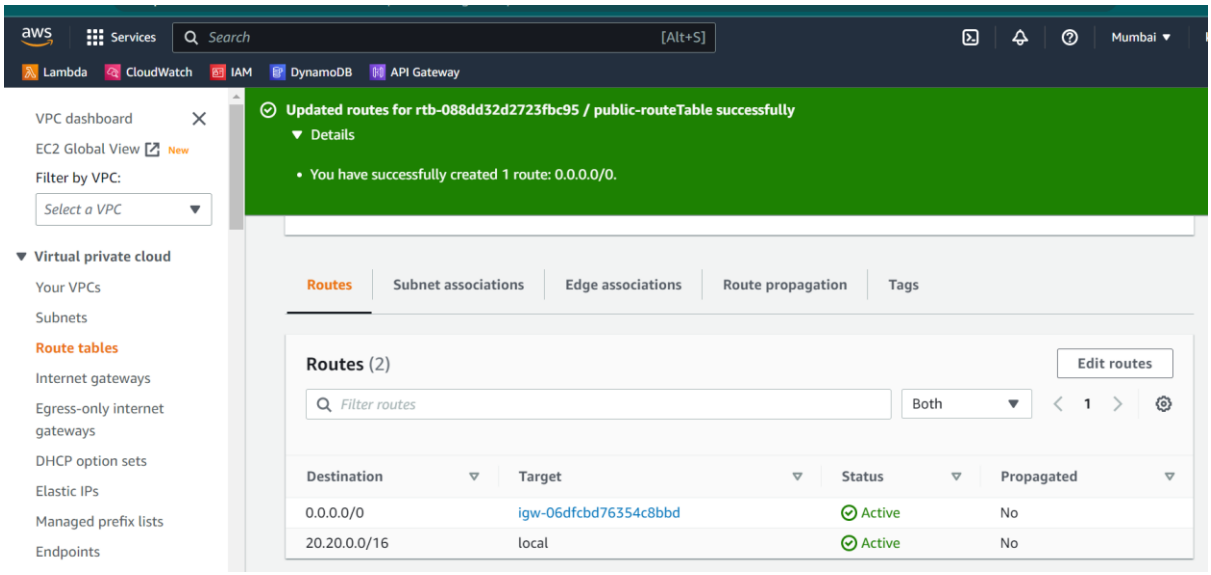
- Created NAT Gateway and hosted in Public -1 subnet for the internet to access the private instances which are to be created.



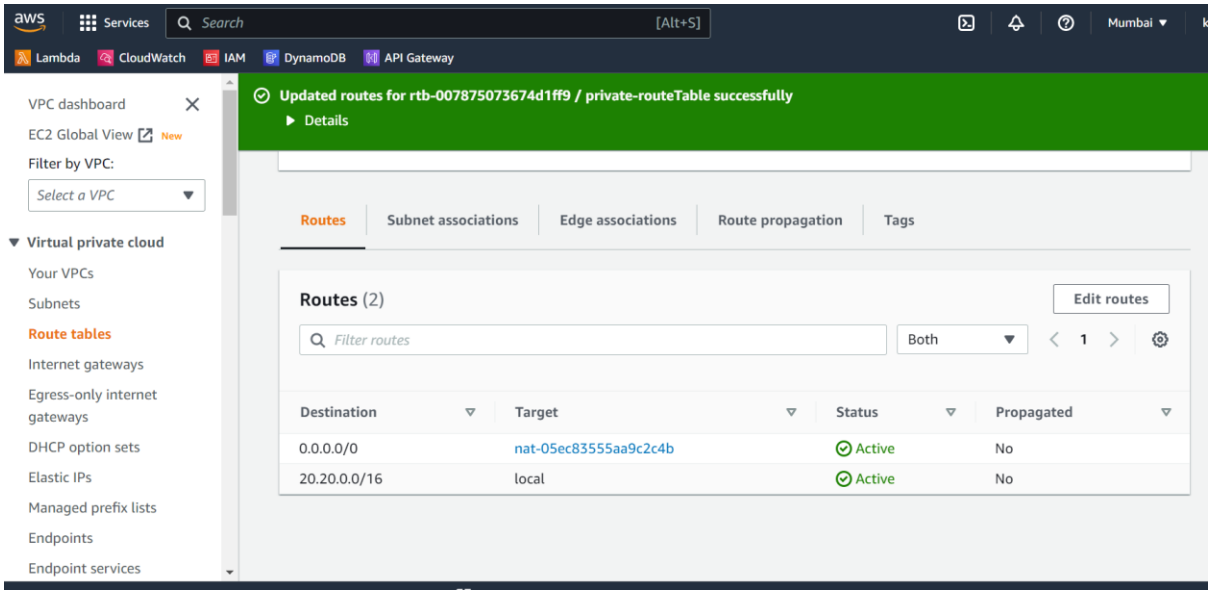
- Created 2 route tables names Public and private routeTable



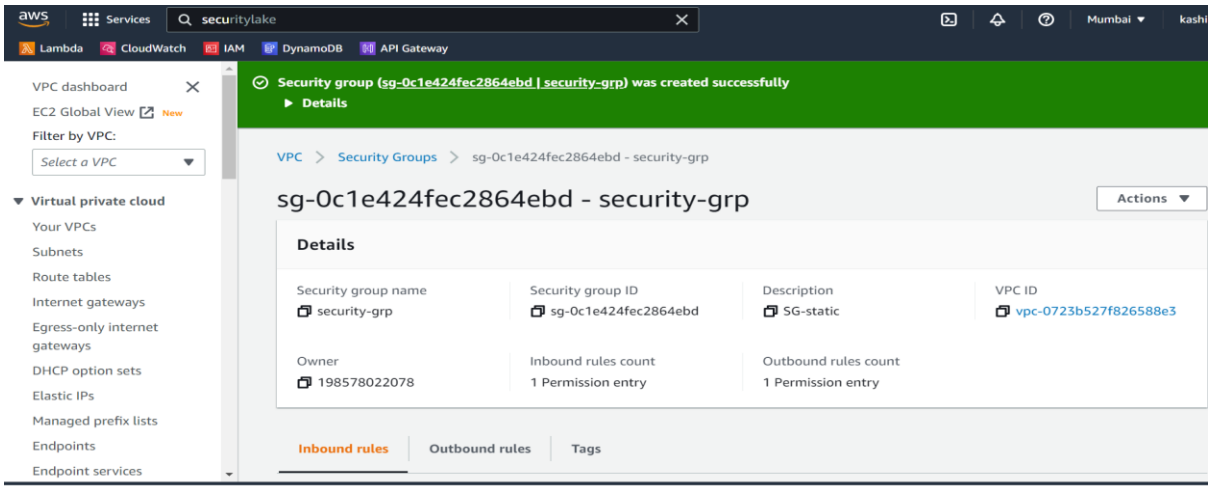
➢ Two Public subnets associated with the public route table



➢ Public Route Table is associated with Internet Gateway

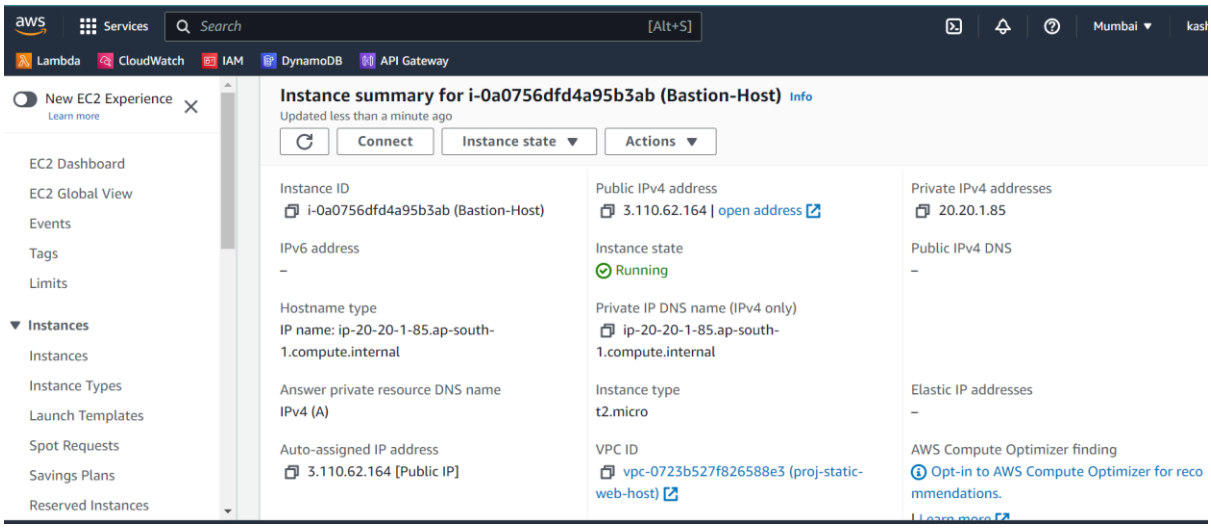


➢ Private routable is associated with the NAT gateway

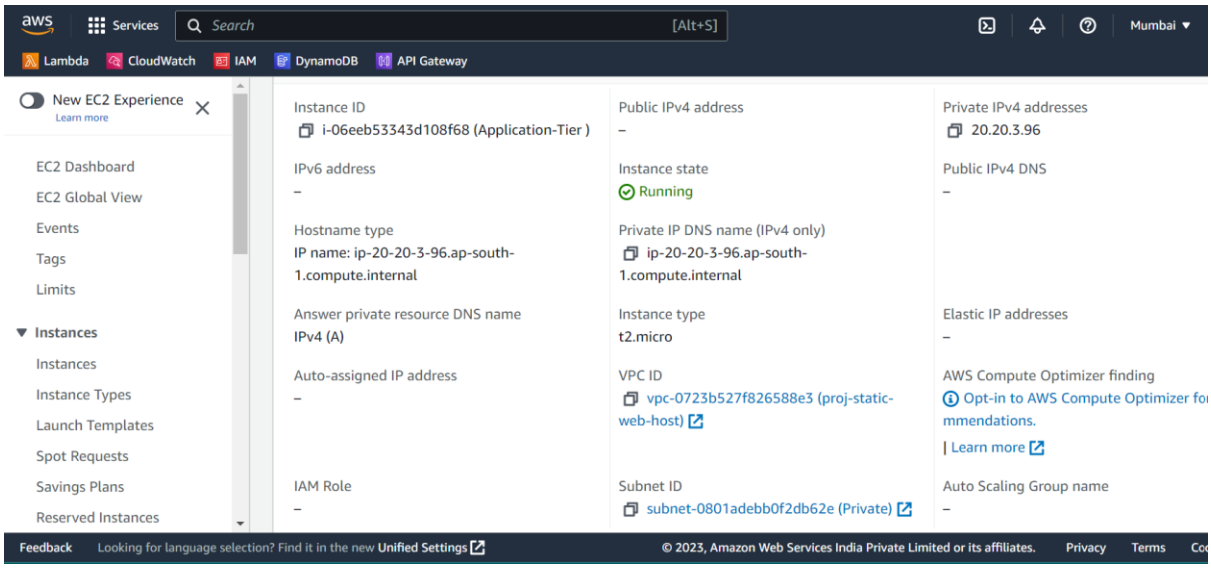


➢ Security group is created for proj vpc

Now Creation of Instances In the Subnets

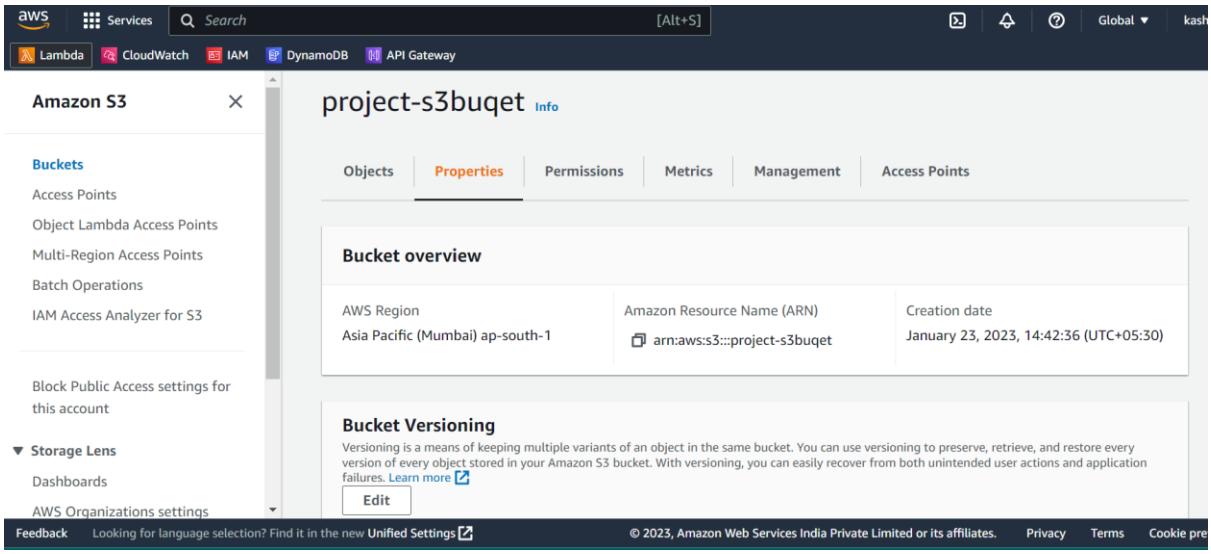


➢ Bastion-Host named instance created in Public-1 subnet

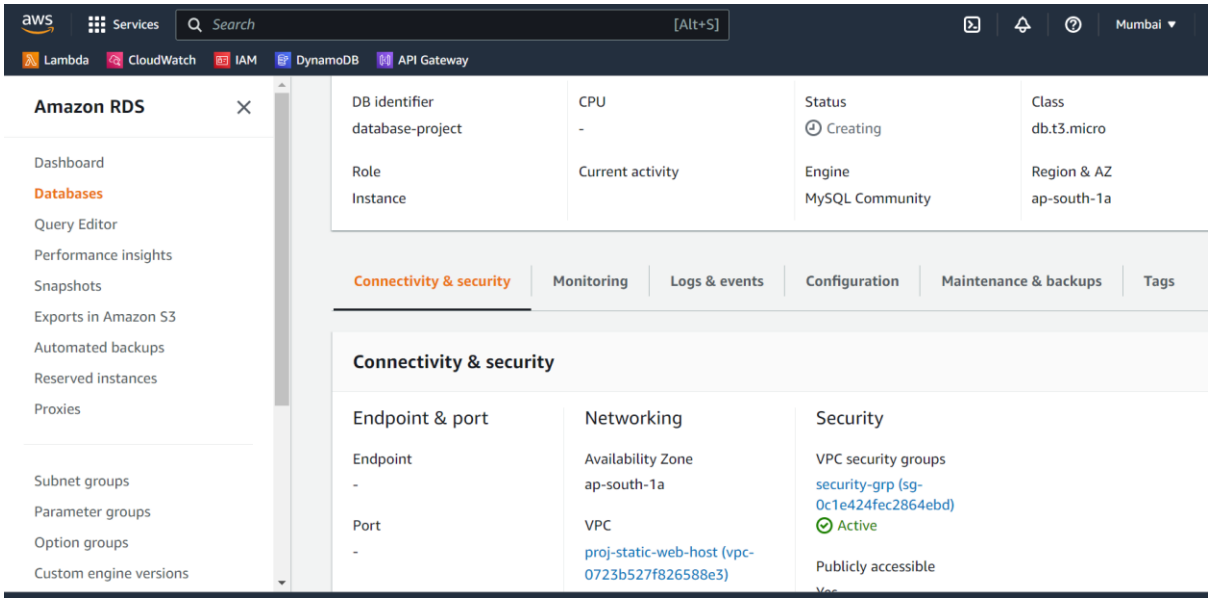


➢ Private instance is created

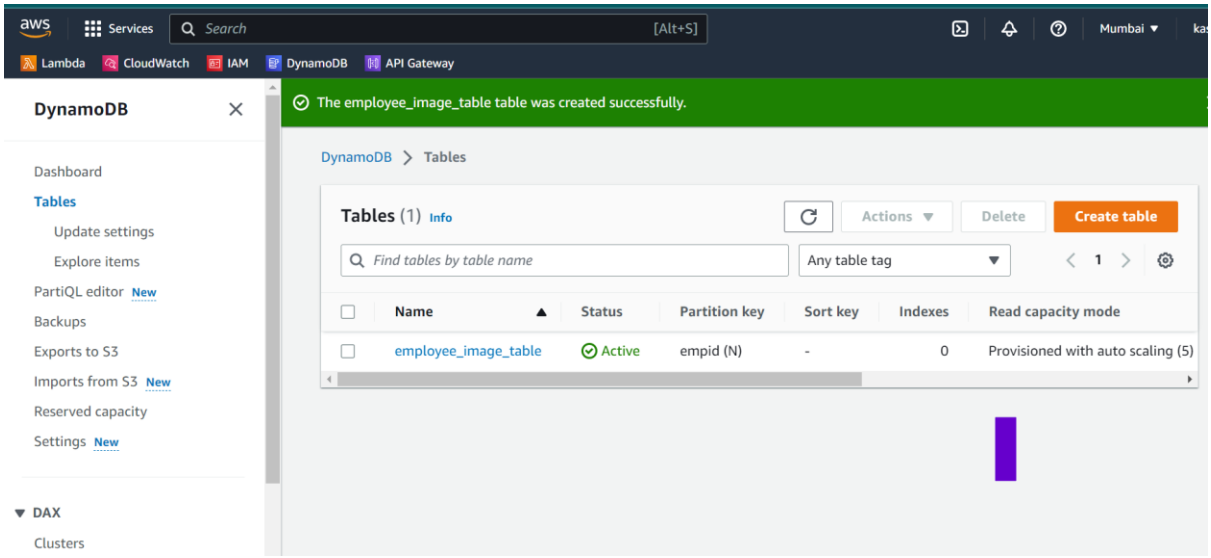
- S3 Bucket creation



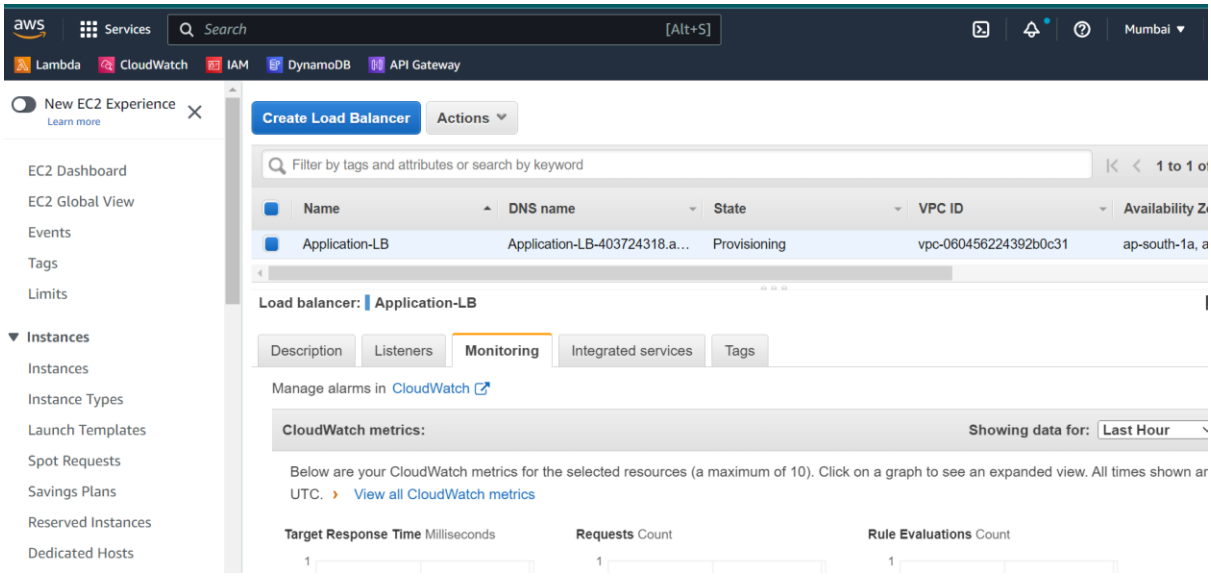
➢ Uploaded the AboutUs html page to s3 and turned on public access



➢ Created Database MySQL for previously created VPC

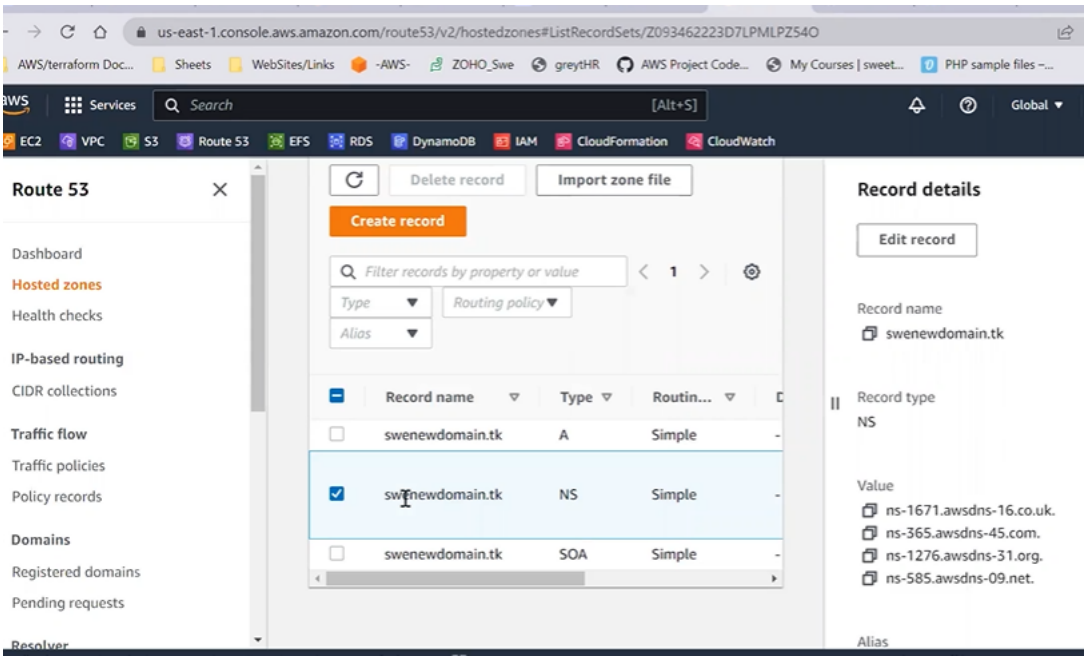


➢ Created DynamoDB with table name employee_image_table



- Load Balancer is created with a target group registered 2 instances created previously.

Now Creating a hosted zone as the DNS is located outside of the AWS. The application is located in a private instance and connected to the Load Balancer. Now to have a connection between DNS and AWS, the **hosted zone** is created through Name Server as the traffic is getting to the domain main. With the help of **records** connection between the load balancer and route 53 is created .



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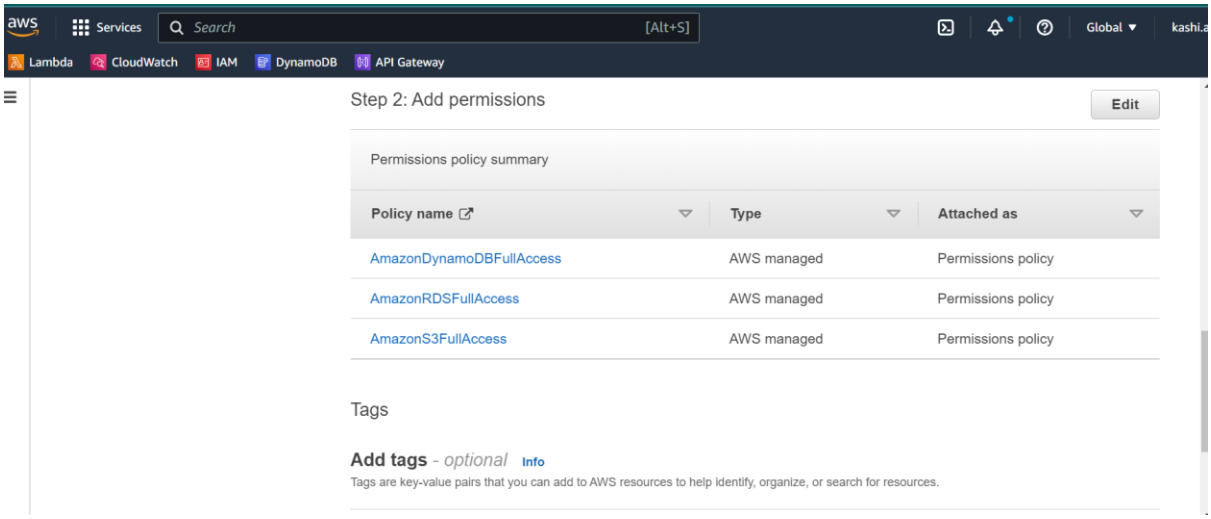
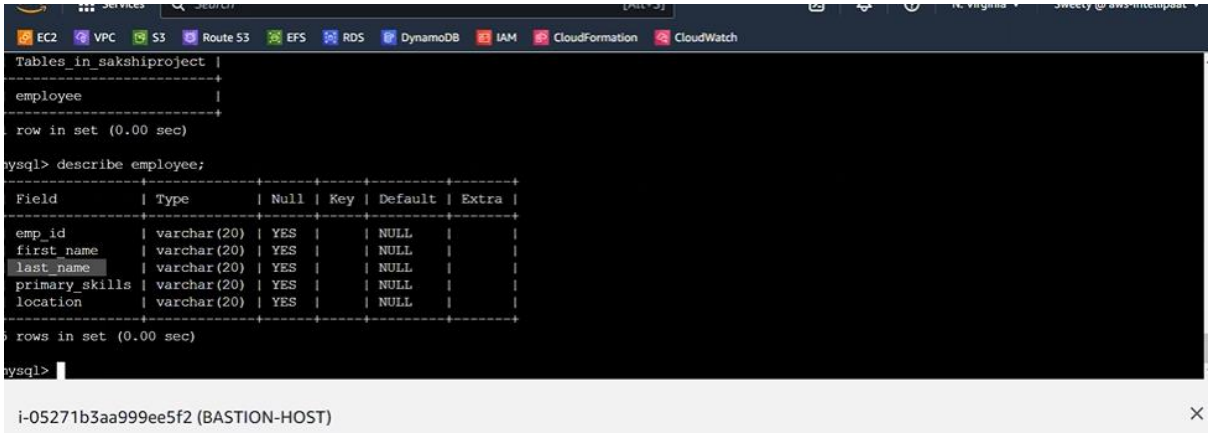
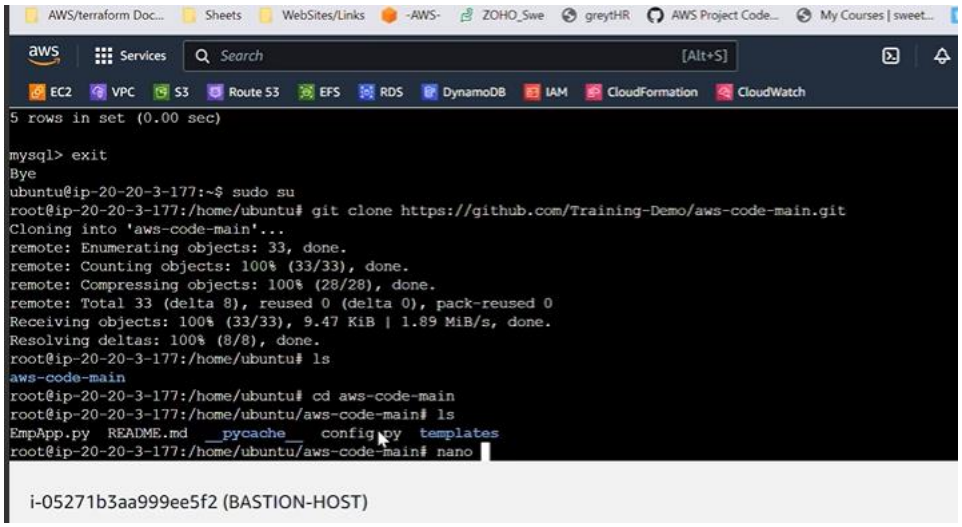


- IAM role is created

Next is to enter the EC2 Boston Host Instance and installing mysql



And uploading the code



- The code are been uploaded for config.py and emp.py files

```
sudo apt-get update
```

-------->For Sql-client

```
sudo apt-get install mysql-client
```

-------->For python and related frameworks

```
sudo apt-get install python3 -y
sudo apt-get install python3-flask -y
sudo apt-get install python3-pymysql -y
sudo apt-get install python3-boto3 -y
```

-------->For running application

```
sudo python3 EmpApp.py
```

- Followed by framework commands for the library that are supported by the application and once completed need to run the application

- Once the Employee Data is filled the data is stored in S3 through which we can download images.