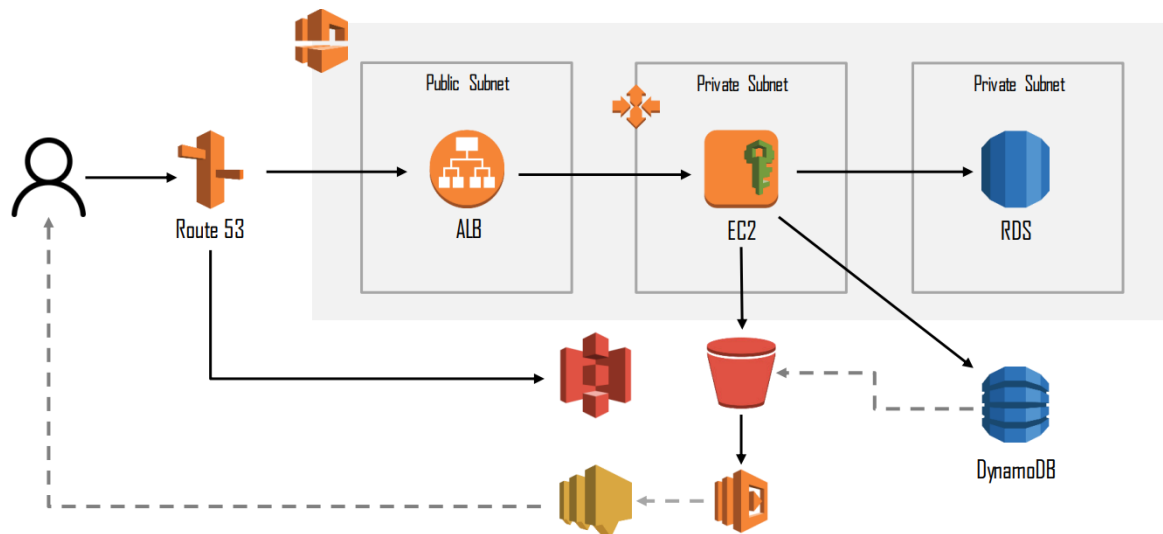
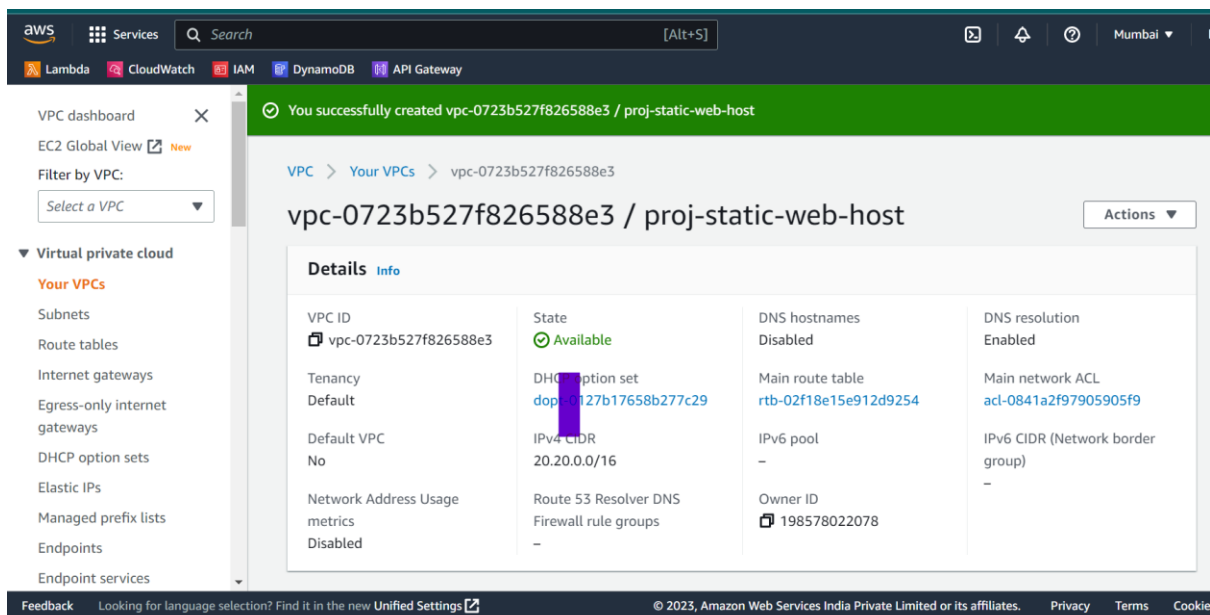


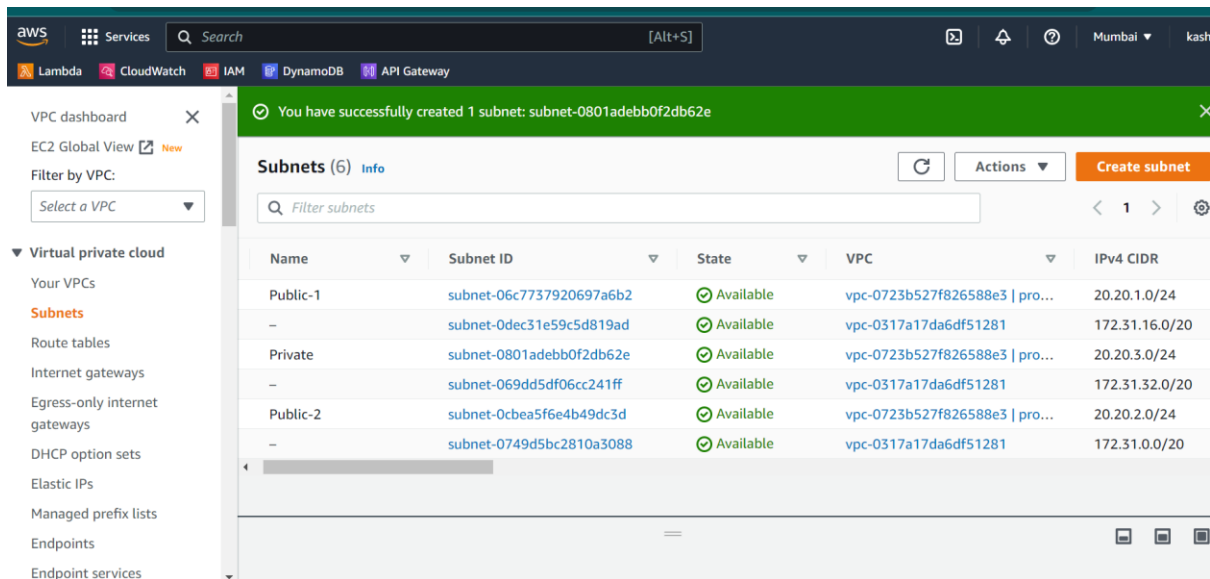
PROJECT



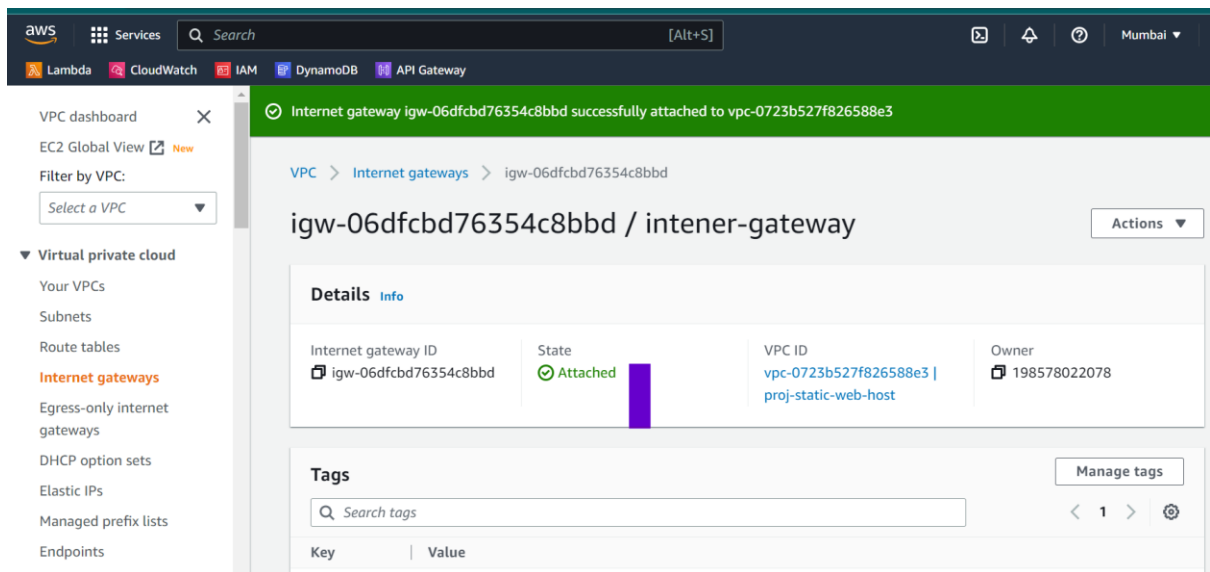
Above is the Architecture



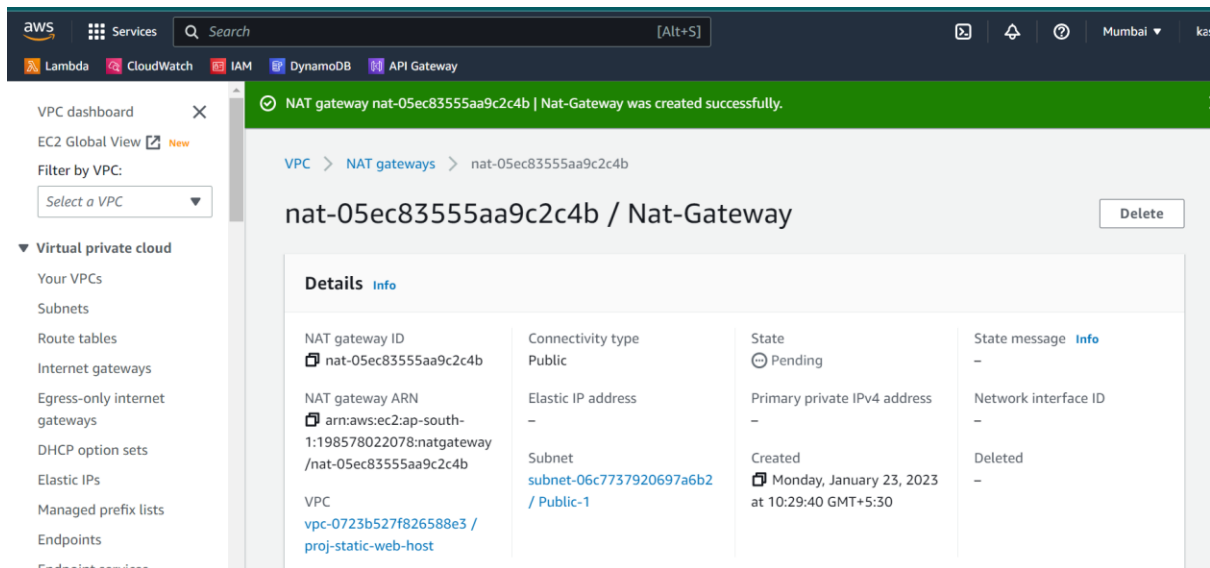
- Created VPC Named proj-static-web-host
- The next step is to create subnet, 3 subnet are created inorder to create a Load Balancer 2 subnets are must .



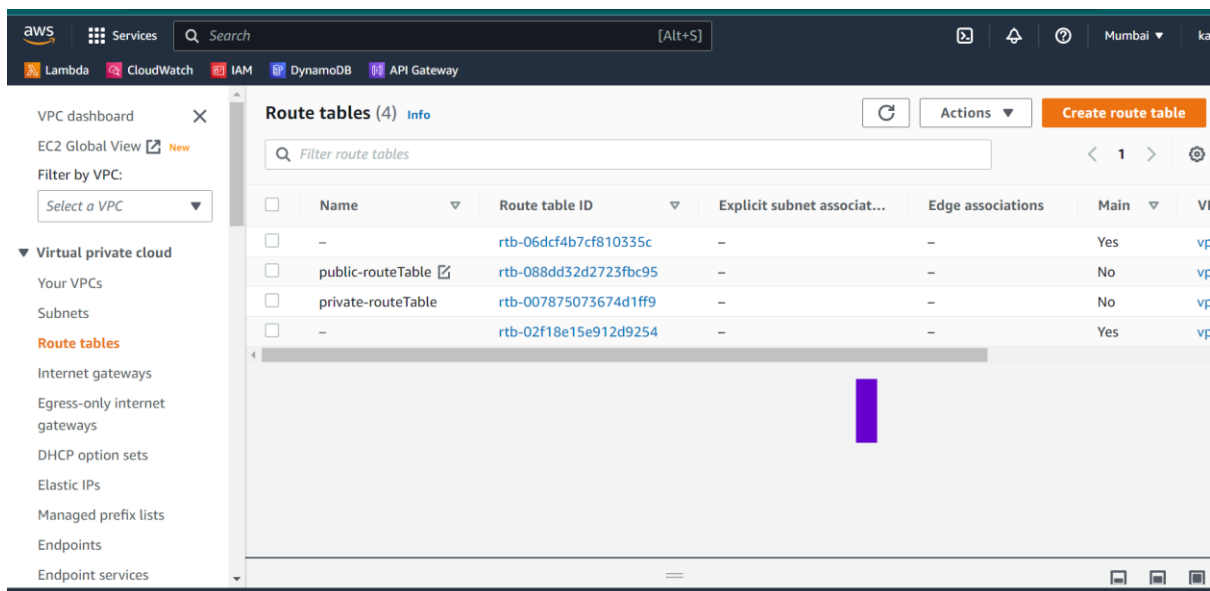
- Created 3 subnets out of which 2 public and one private, 2 subnets public-1 and private are created in the same AZ.
- Now setting up Internet Gateway



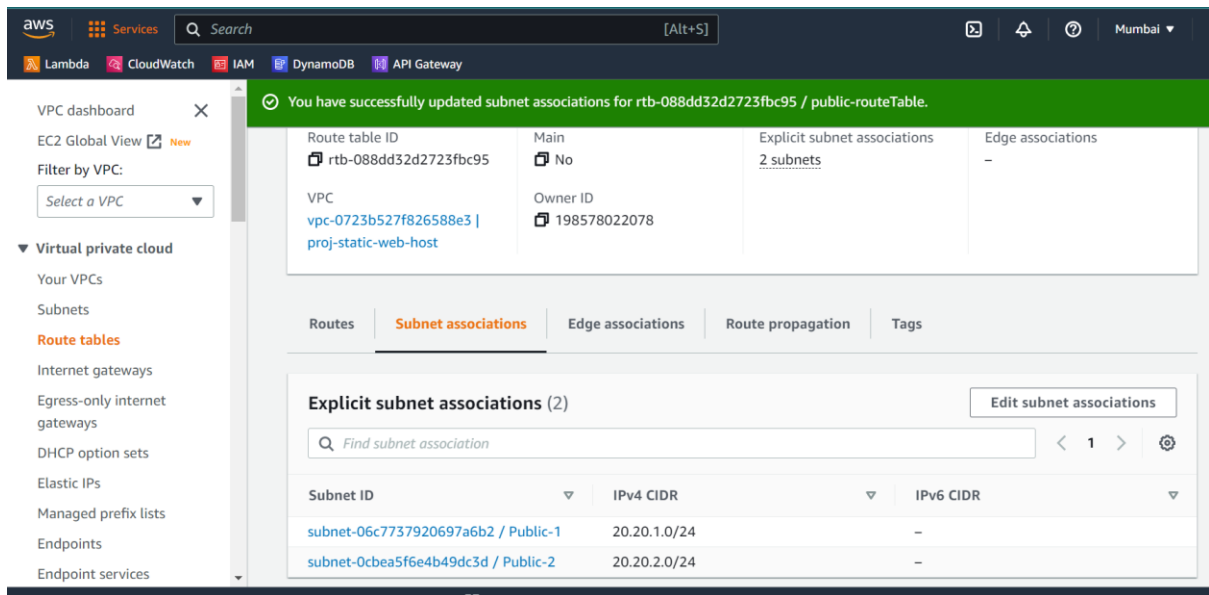
- Attached the gateway to VPC



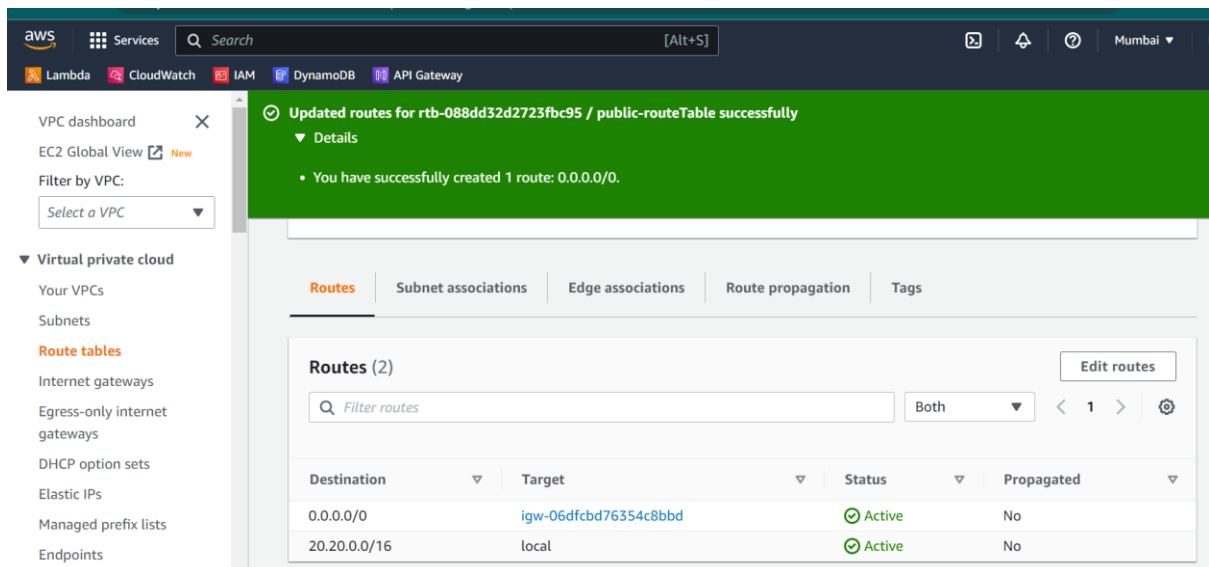
- Created NAT Gateway and hosted in Public -1 subnet for the internet to access the private instances which are to be created.



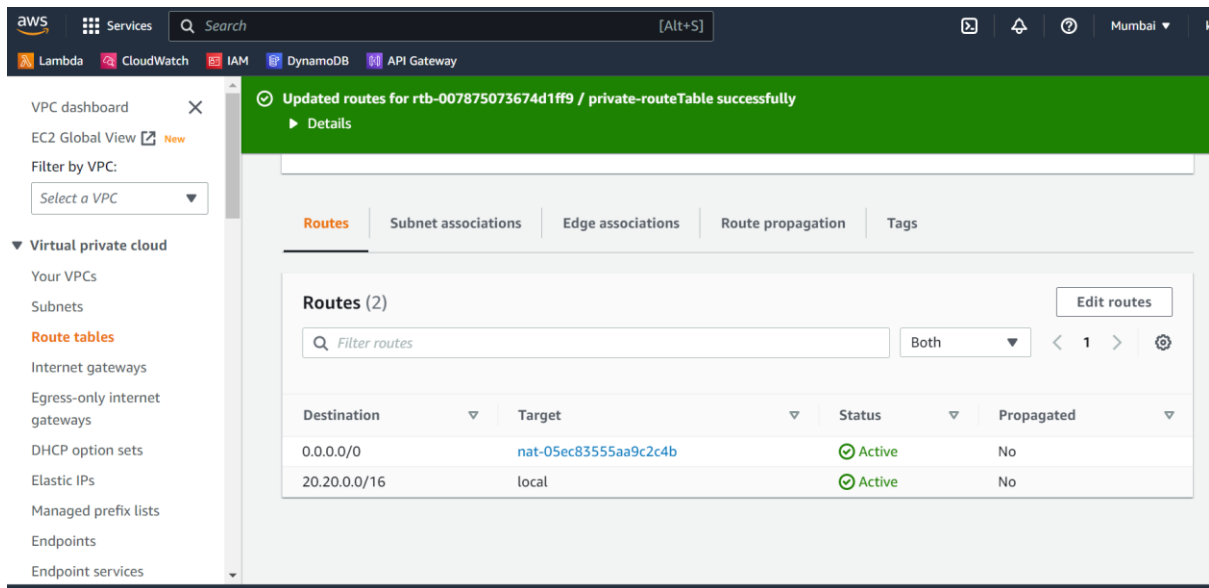
- Created 2 route tables names Public and private routeTable



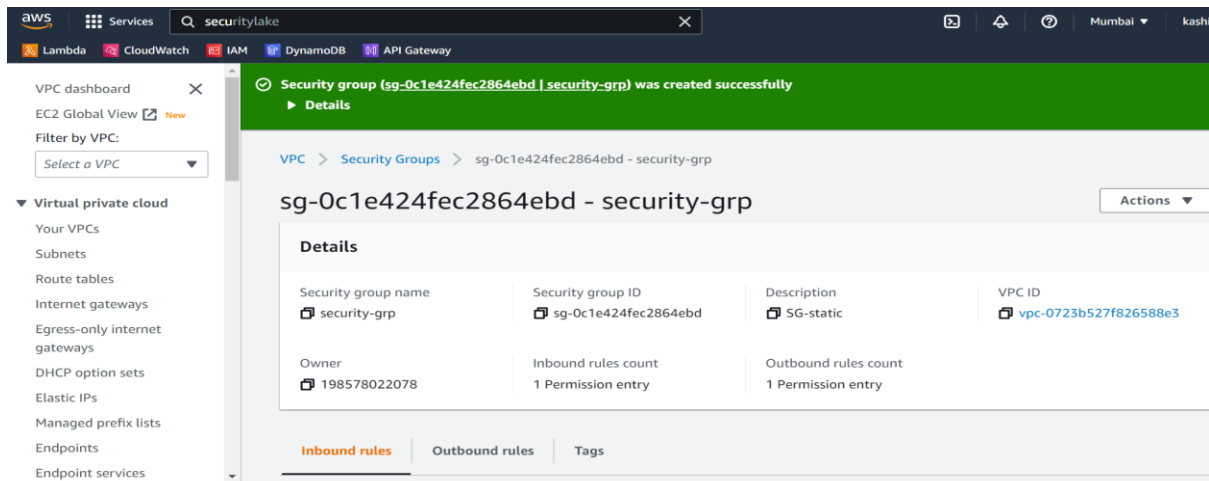
- Two Public subnets associated with the public route table



- 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

Instance summary for i-0a0756dfd4a95b3ab (Bastion-Host) Info

Updated less than a minute ago

[Refresh](#) [Connect](#) [Instance state](#) [Actions](#)

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0a0756dfd4a95b3ab (Bastion-Host)	3.110.62.164 open address	20.20.1.85
IPv6 address	Instance state	Public IPv4 DNS
-	Running	-
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-20-20-1-85.ap-south-1.compute.internal	ip-20-20-1-85.ap-south-1.compute.internal	-
Answer private resource DNS name IPv4 (A)	Instance type	AWS Compute Optimizer finding
-	t2.micro	Opt-in to AWS Compute Optimizer for recommendations.
Auto-assigned IP address	VPC ID	Learn more
3.110.62.164 [Public IP]	vpc-0723b527f826588e3 (proj-static-web-host) VPC	

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

Instance summary for i-06eeb53343d108f68 (Application-Tier)

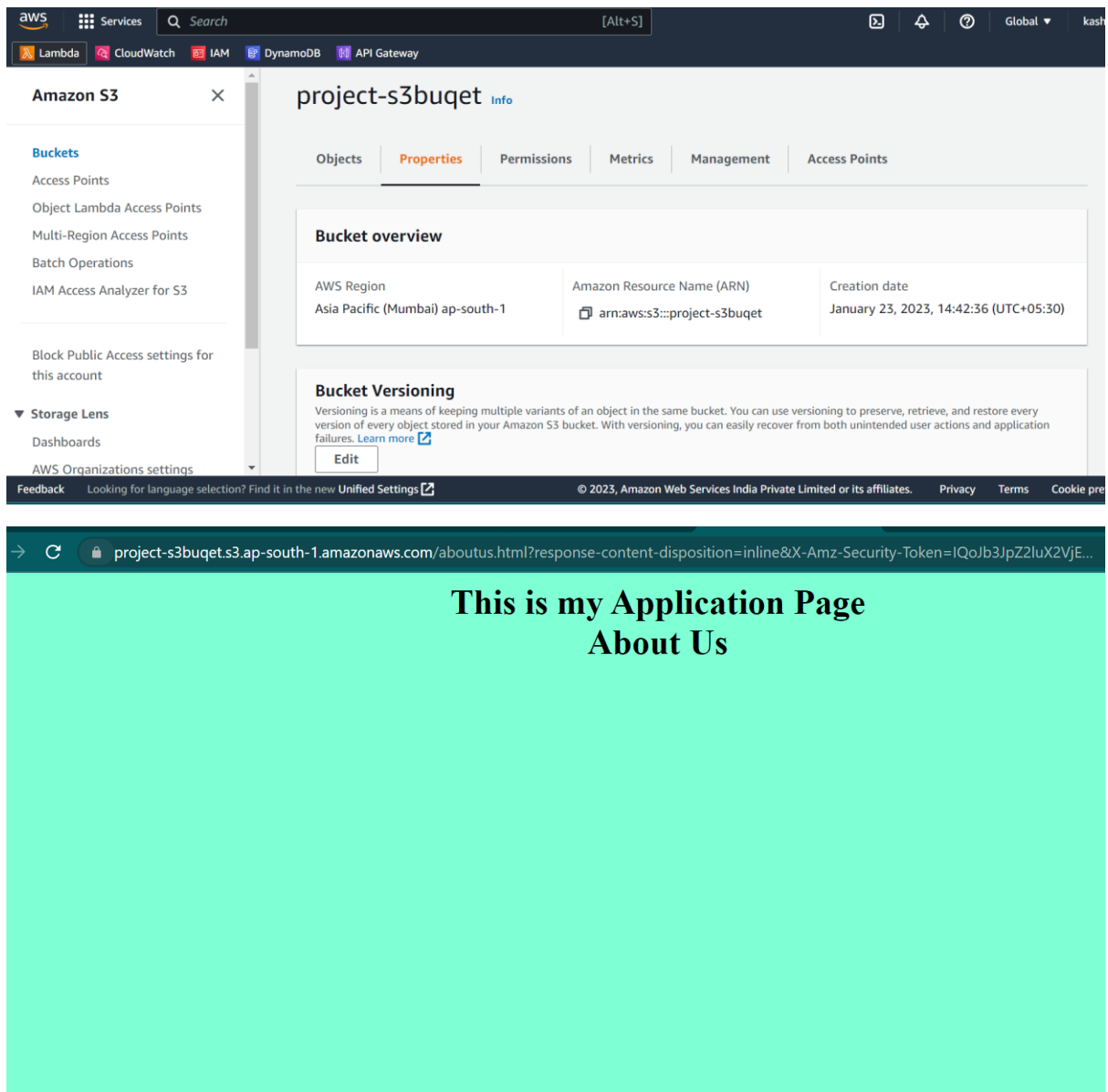
Updated less than a minute ago

[Refresh](#) [Connect](#) [Instance state](#) [Actions](#)

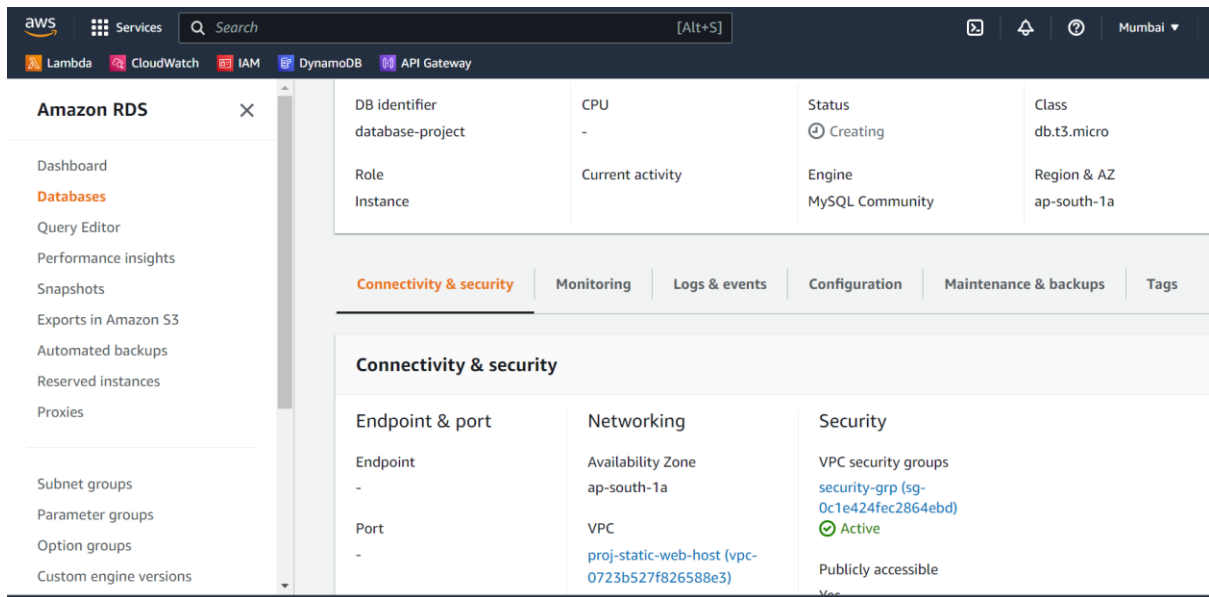
Instance ID	Public IPv4 address	Private IPv4 addresses
i-06eeb53343d108f68 (Application-Tier)	-	20.20.3.96
IPv6 address	Instance state	Public IPv4 DNS
-	Running	-
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-20-20-3-96.ap-south-1.compute.internal	ip-20-20-3-96.ap-south-1.compute.internal	-
Answer private resource DNS name IPv4 (A)	Instance type	AWS Compute Optimizer finding
-	t2.micro	Opt-in to AWS Compute Optimizer for recommendations.
Auto-assigned IP address	VPC ID	Learn more
-	vpc-0723b527f826588e3 (proj-static-web-host) VPC	
IAM Role	Subnet ID	Auto Scaling Group name
-	subnet-0801adebb0f2db62e (Private) Subnet	-

➤ Private instance is created

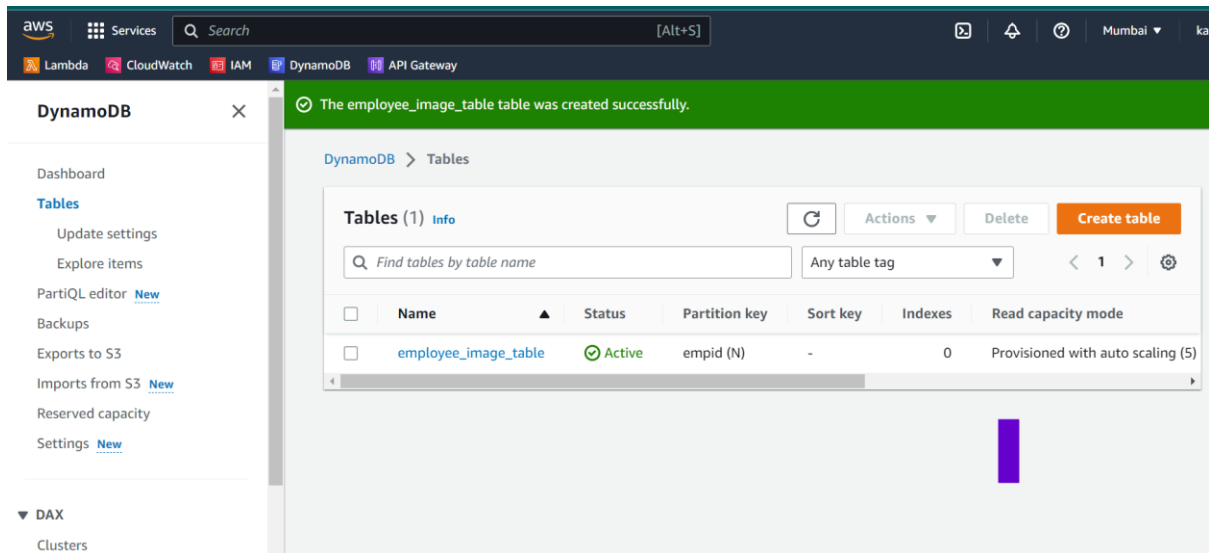
- S3 Bucket creation



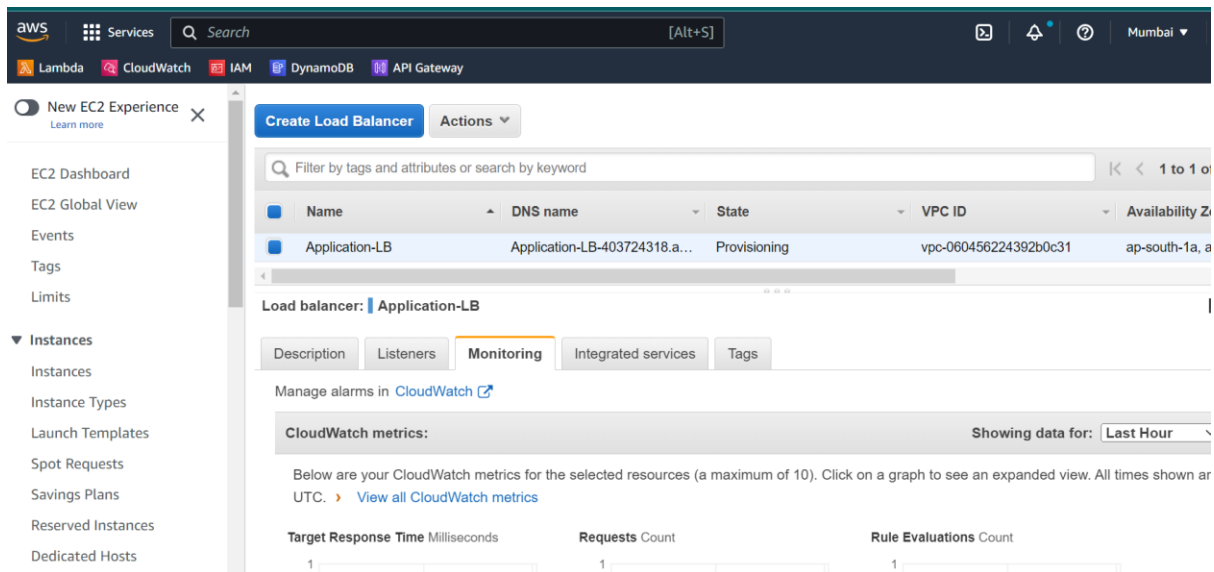
- Uploaded the AboutUs html page to s3 and turned on public access



➤ Created Database MySQL for previously created VPC

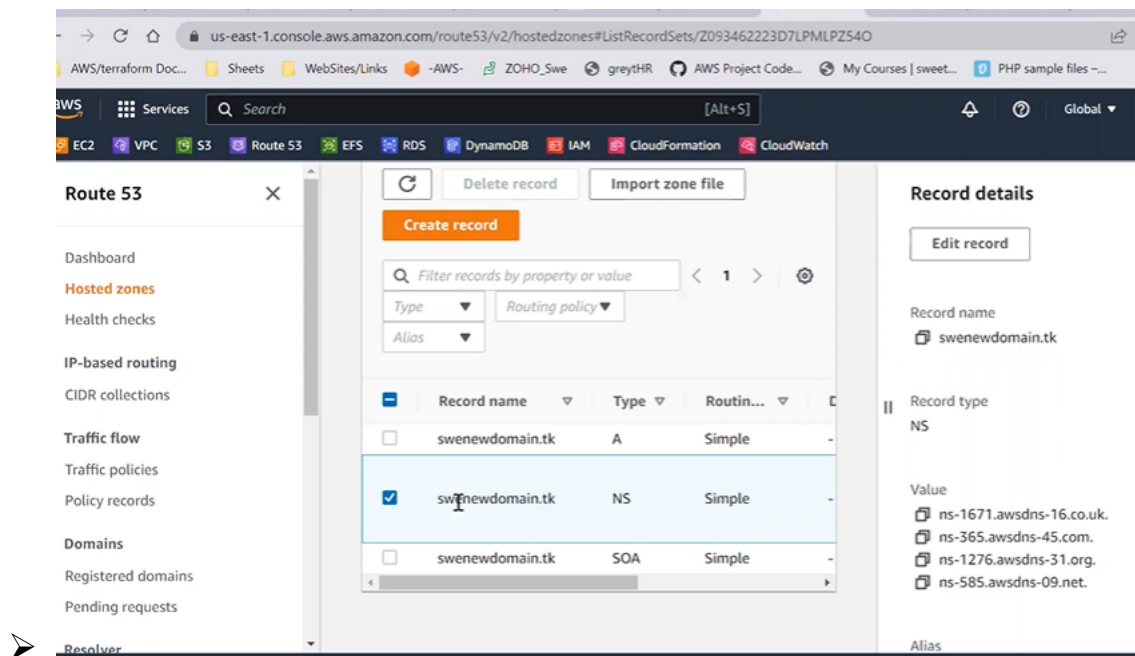


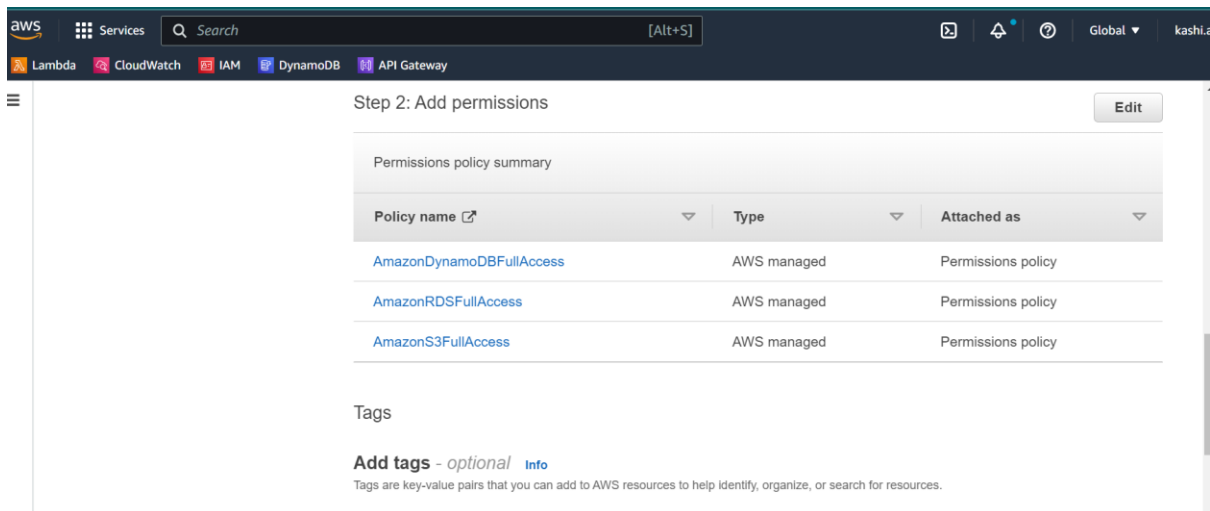
➤ Created DynamoDB with table name employee_image_table



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

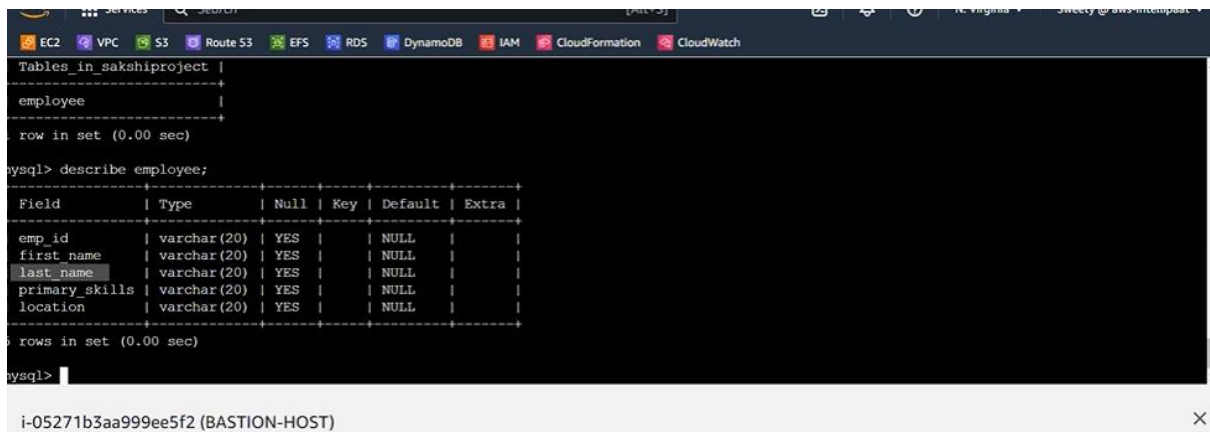
Now Creating a hosted zone as the DNS is located outside of the AWS. The application is located in a private instance and connected to the Load Balancer. Now to have a connection between DNS and AWS, the **hosted zone** is created through Name Server as the traffic is getting to the domain main. With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



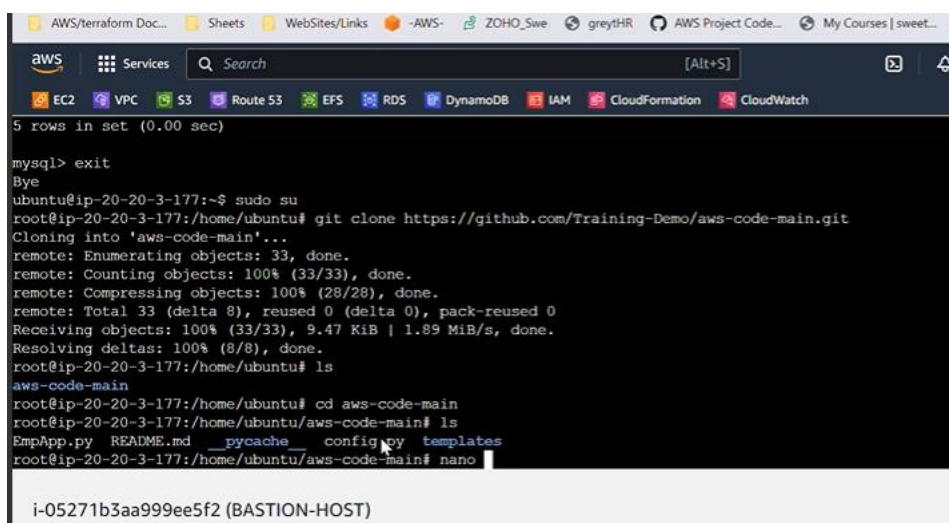


➤ IAM role is created

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



The screenshot shows a web application titled "Employee Database" in blue text. Below the title is a dark grey button labeled "GET EMPLOYEE INFORMATION". Underneath the button are five input fields, each with a label above it: "Employee ID:" (with a dropdown arrow), "First Name:", "Last Name:", "Primary Skills:", and "Location:". At the bottom of the form is an "Image:" label followed by a "Choose File" button and the text "No file chosen".

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