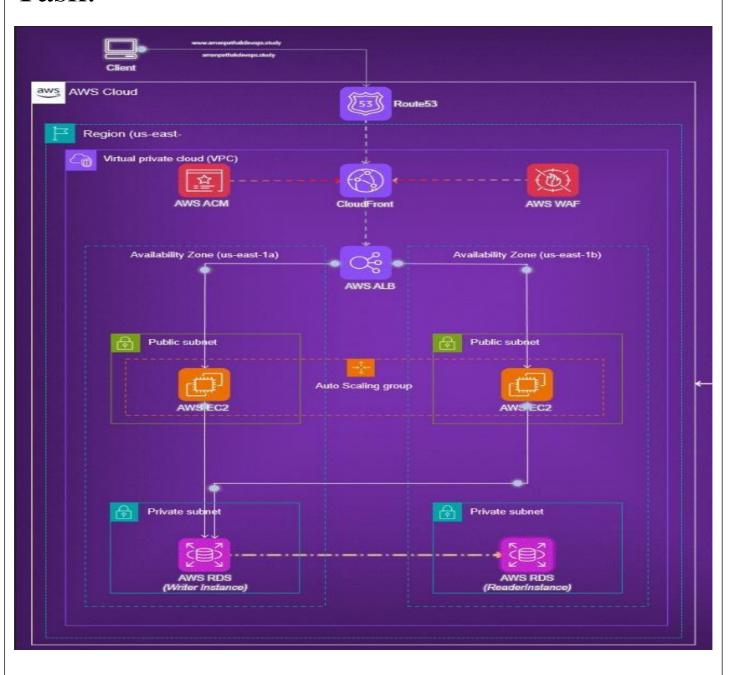
Two Tier Architecture

Task:

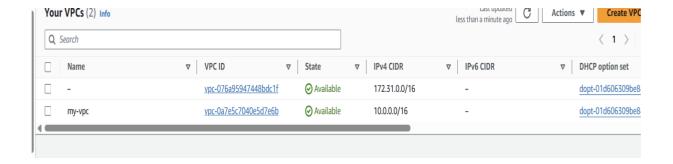


Required AWS Services:

- 1) Virtual Private Cloud.
- 2) Elastic cloud Compute.
- 3) Load Balancer.
- 4) Auto- Scaling Group.
- 5) Relational Database.
- 6) CloudFront.
- 7) ACM.
- 8) Route 53.

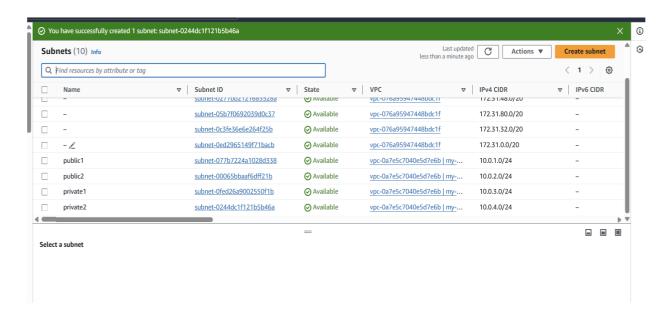
1) Virtual Private Cloud:

- 1. Login into your AWS Account and Search for VPC on Search Box.
- 2. Click on Create VPC & Subnets (public 2 & Private 2 in two AZ).
- 3. Create Two Route tables Named it as Public-rout & private-route.
- 4. Create Internet Gateway and Attach it to your VPC.
- 5. Go to edit routes in the Public-routable and Add IGW in inbound rules.
- 6. Create a NAT gateway and add routes in private-Routable.



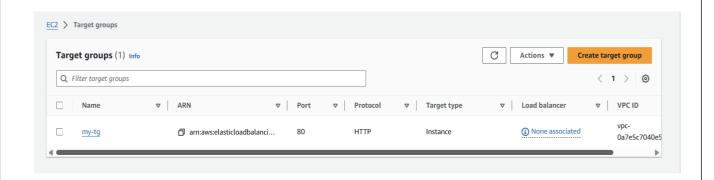
2) Elastic Cloud Compute (EC2):

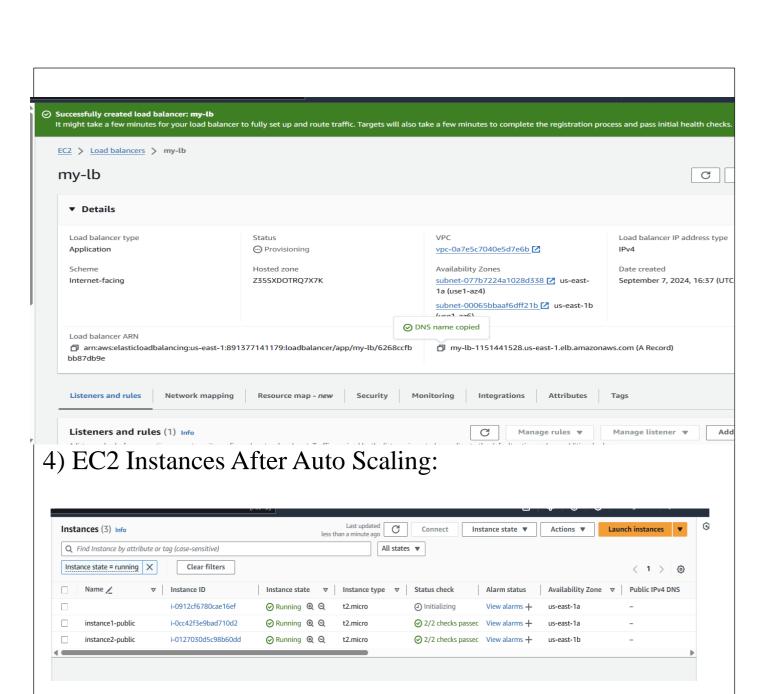
- 1. Go & Click on Launch Instance.
- 2. Launch Two Ec2 instances (web Server-1 & web Server-2) in two different AZ.
- 3. Some Snapshots are attached below.



3) Elastic Load Balancer:

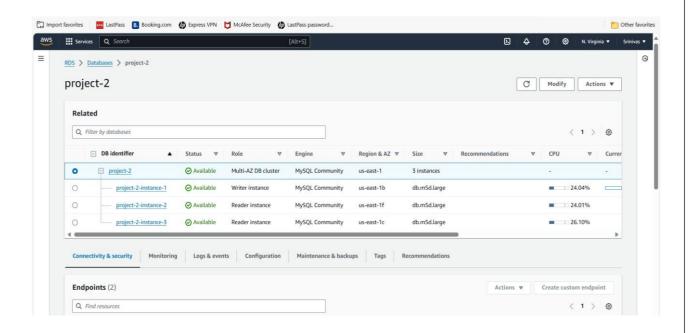
- 1. Firstly, We Need to Create a Target Group and Target Group Attachment.
- 2. Create a Load Balancer and Include Two EC2 Instances.

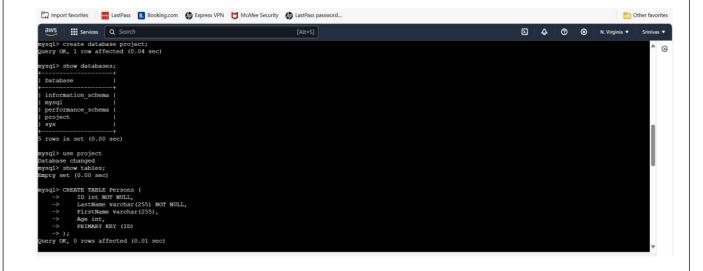




5) Amazon RDS:

- 1. Create a Database in Multi-Cluster AZ and including Private Subnet which is in Available in AZ.
- 2. Take write Instance endpoint and paste it in Git bash and connect to My-Sql Server.
- 3. Create a Database Name is Project.
- 4. Create a Table Name is Person.
- 5. Insert Data into Table.
- 6. Some Snapshots are Attached Below.



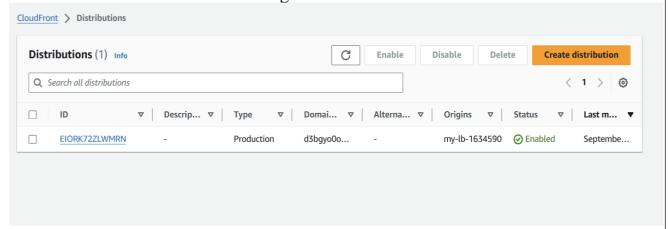


```
mysql> use project;
Database changed
mysql> INSERT INTO Persons (ID, LastName, FirstName, Age)
 -> VALUES ('101', 'Motu', 'Pathulu', '22');
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO Persons (ID, LastName, FirstName, Age)
   -> VALUES ('102', 'chota', 'Bheem', '23');
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO Persons (ID, LastName, FirstName, Age)
 -> VALUES ('103', 'chota', 'Bheem', '23');
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO Persons (ID, LastName, FirstName, Age)
 -> VALUES ('103', 'chowdary', 'Sinchan', '19');
ERROR 1062 (23000): Duplicate entry '103' for key 'Persons.PRIMARY'
mysql> INSERT INTO Persons (ID, LastName, FirstName, Age)
 -> VALUES ('104', 'chowdary', 'Sinchan', '19');
Query OK, 1 row affected (0.00 sec)
```

```
rresponds to your MySQL server version for the right syntax to use near 'Persons'
at line 1
mysql> select * from Persons;
 ID | LastName | FirstName | Age
 101 | Motu
                 | Pathulu
                                 22 I
 102 | chota
                 | Bheem
                                 23 I
 103 | chota
               | Bheem
                                 23 I
 104 | chowdary | Sinchan
                                 19 I
4 rows in set (0.00 sec)
mysql>
```

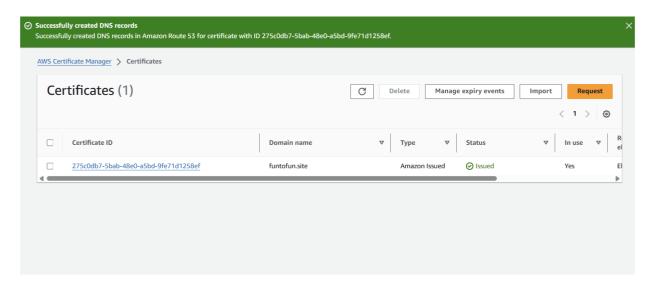
6) Amazon CloudFront:

- 1. Create a CloudFront and Enable WAF for Protection.
- 2. Create Amazon Certificate Management and add it to CloudFront.

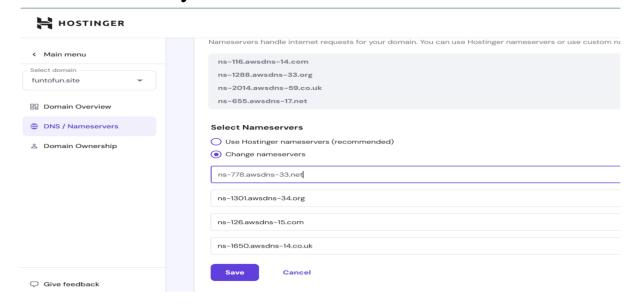


7) Amazon Certification Management:

1. Create ACM and add it to CloudFront.

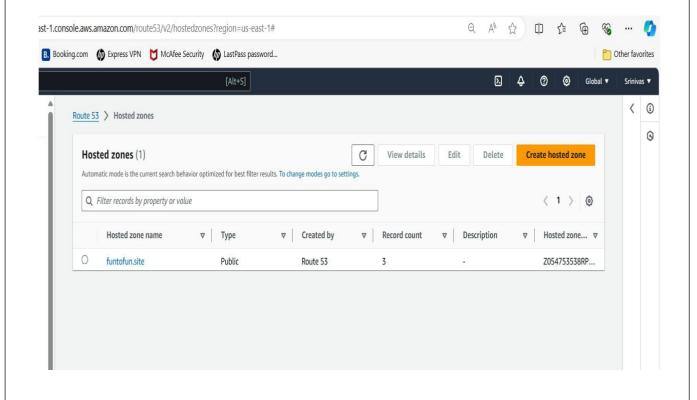


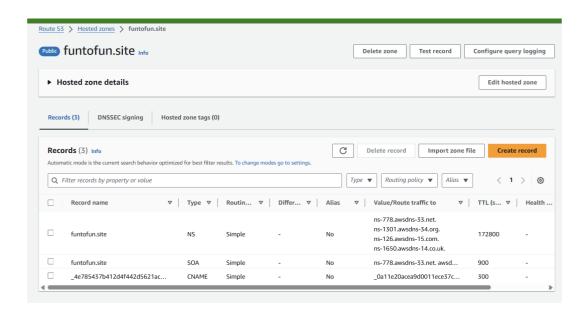
Domain Name System:



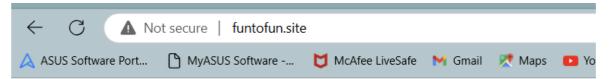
8) Amazon Route 53:

- 1. Create a route 53 and Create a CNAME record in Route 53.
- 2. Change The Name Servers in DNS (Hostinger) with your Route 53 Name Server.

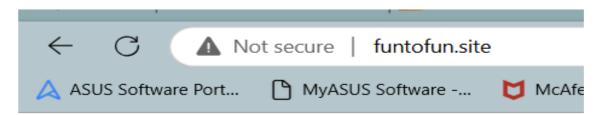




Outputs:



This is from instance2 public



This is from public instance 1