Three Tier Architecture

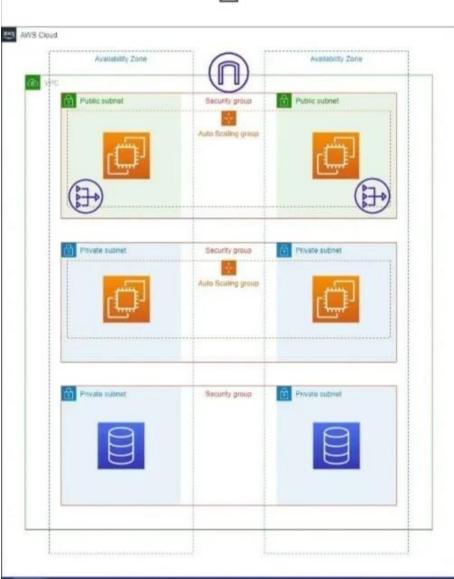
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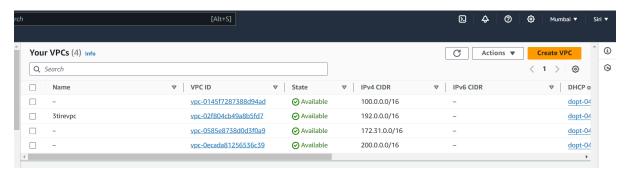




Step 1: Create a VPC with 2 Public subnets and 4 private subnets across two availability zones.

Region-mumbai,

Vpc-192.0.0.0/16,



Az---- Ap-south-1a

Public subnet ipv4---192.0.0.0/24

Private subnet ipv4—192.0.2.0/24

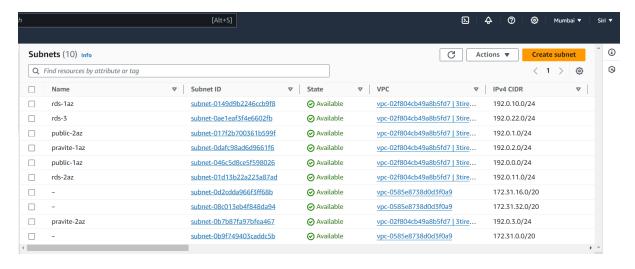
Rds-private sub ipv4-192.0.10.0/24

ap-sout

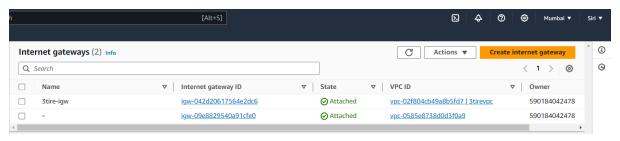
192.0.1.0/24

192.0.3.0/24

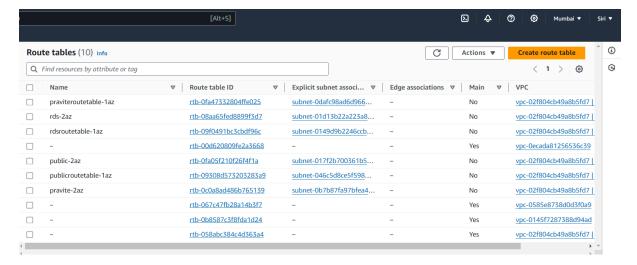
192.0.11.0/24



Step2.now create igw, and attach the vpc:



Step 3.create route table each subnet.



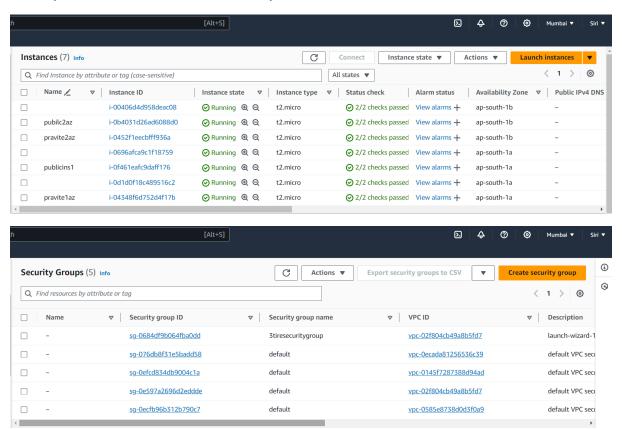
After create route table, association their subnets.

4.now create 4 instances with assign scecurity group,

2 public instances, and 2 private instances and there named assigned as

1-az-public instance, 1-az-private instance

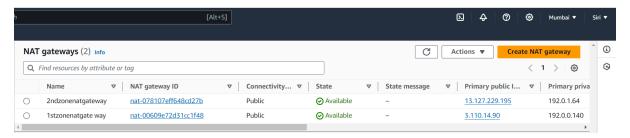
2-az-public instance, 2-az-private instance



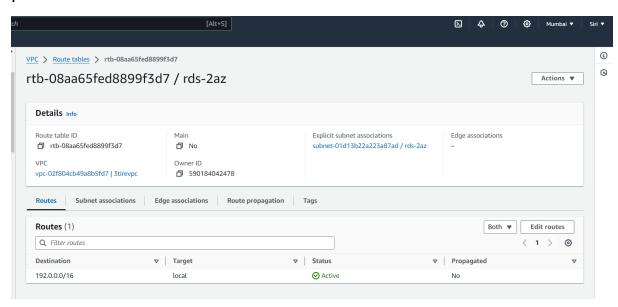
And launch the instances, and install nginx, and check the communication in private subnet. but there is no communication in public subnet to private subnet. at least we want one way communication.

atleast one way communication purpas we create a nat gate way.in two different azs

Step 5.create a nat gate way.

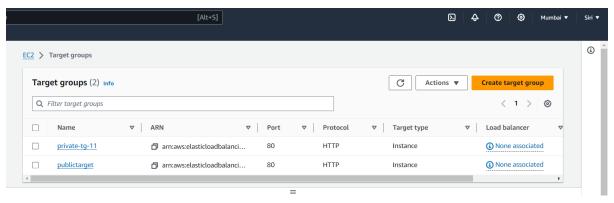


After we create nat gate way, we edit route tables in edit routs in private subnets in diff azs.

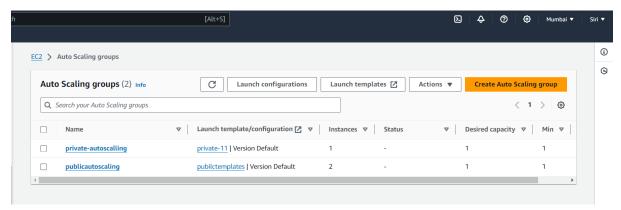


5.now create auto scalling group, and assign two public subnets and two private subnets in different az.

Autoscalling process:target group,



Autoscalling group



6.now create a rds in two subnets in 2 diff az.

Now create a data base subnet group, and create rds in there subnets with any one engine .its rds connect on only vpc connection.

