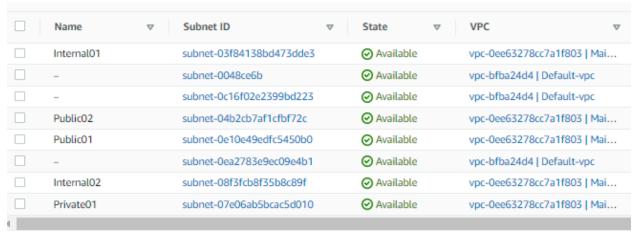
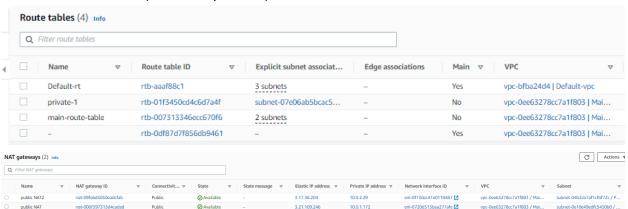
Created a main vpc



Created 5 subnets (2 public, 2 internal, and 1 private).



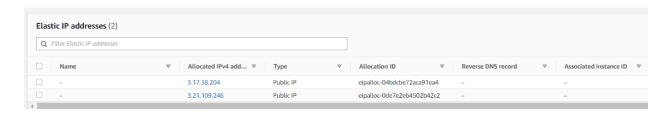
2 route tables (main and privates)



Created 2elastic ips for the nat gateways.



Created 2 elastic ips



Part 2 Ec2

- Created a ec2 instance that was an Ubuntu ami
 - It had a security group with the following rules:
 - Ingress: allow port 80 traffic from the ALB security group'
 - Egress: allow all outbound traffic to any ipv4 address

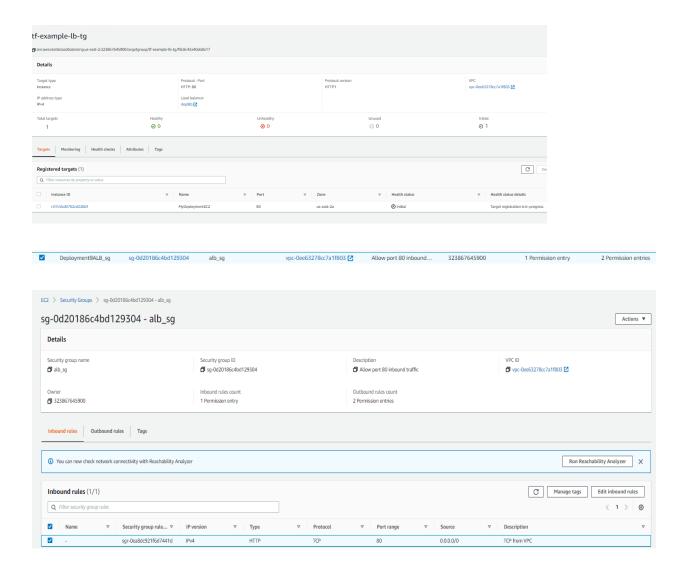


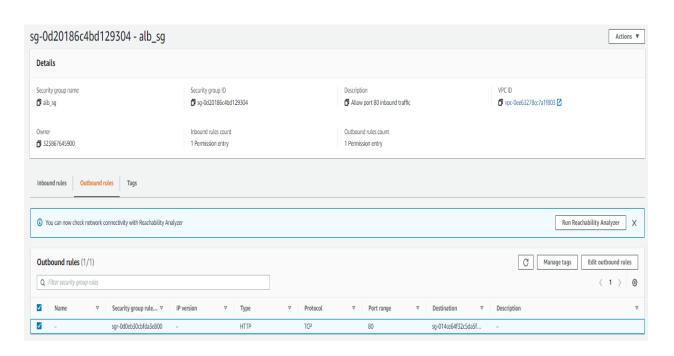


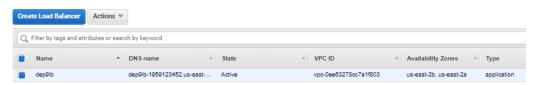
Part 3

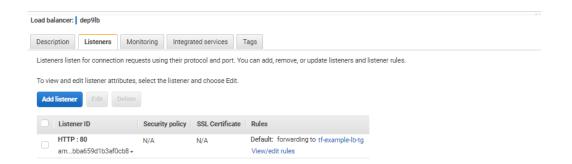
created a security group

- Created a load balancer security group that allows inbound port 80 ipv4 traffic
- The load balancer security group ingress rules that allow only port 80 access from any ipv4 traffic. And it's egress rules were that it allowed outbound traffic to port 80 only to the deployment 9 Ec2 instance security group.









Part 4 - RDS (Not finished): I created a rds.tf for the postgresql database. This is what I have so far for the rds.tf but it doesn't seem to work when I run terraform apply

```
resource "aws security group" "rds sg" {
 description = "Allow TLS inbound traffic"
 vpc id = aws vpc.main.id
 ingress {
  description = "TLS from VPC"
  from_port = 80
                 = 80
  to port
   protocol = "tcp"
   security groups = [aws security group.ubuntu ec2.id]
 tags = {
resource "aws db instance" "rds" {
 allocated storage = 20
 engine
 engine version
                     = "mydb"
                     = "bishajit"
 username
 vpc security group ids = [aws security group.rds sg.id]
 skip_final_snapshot = true
```

It gives me this error

```
Error: Error creating DB Instance: InvalidParameterValue: Invalid DB engine
   status code: 400, request id: d9a9bfdb-3656-4cd5-b91f-39f5956cb303, {
 AllocatedStorage: 20,
 AutoMinorVersionUpgrade: true,
 BackupRetentionPeriod: 0,
 CopyTagsToSnapshot: false,
 DBInstanceClass: "db.t2.micro",
 DBInstanceIdentifier: "terraform-20211215041104490800000001",
 DBName: "mydb",
 DeletionProtection: false,
 Engine: "postgresSQL",
 EngineVersion: "9.6.20-R1",
 MasterUserPassword: "******",
 MasterUsername: "bishajit",
 MultiAZ: true.
 PubliclyAccessible: false,
 StorageEncrypted: false,
 Tags: [{
   Key: "Team",
   Value: "Kura Labs"
  },{
   Key: "Deployment",
   Value: "DEPLOYMENT_09_TERRAFORM"
 VpcSecurityGroupIds: ["sg-088d4b5bb37f5472f"]
}
 with aws_db_instance.rds,
 on rds.tf line 19, in resource "aws db instance" "rds":
```

19: resource "aws_db_instance" "rds" {