**LAB – VPC (**Virtual Private Cloud**)**

1. Create a vpc with CIDR (network range) 10.32.0.0/16
   1. **MyVPC**
      1. VPC Default Security Group will be created
         1. Blocks all traffic
         2. Sits behind our EC2 instances
      2. Network ACL (Network Access Control List)
         1. Allows all traffic
         2. Sits behind our Subnets
      3. Default Route table (Public)
         1. PublicRT
2. Create 1 public subnet
   1. Use CIDR 10.32.0.0/24
      1. MyPublicSubnet
      2. Availability zone is 1a
3. Create 1 private subnets
   1. Use CIDR 10.32.2.0/24
      1. MyPrivateSubnet
      2. Availability zone is 1b
4. Create an Internet Gateway (IGW)
   1. MyIGW
      1. Attach IGW to MyVPC
5. Create a NAT gateway (NATGW)
   1. MyNatGW
      1. Select a public subnet
         1. We create NAT gateway in Public subnet but associate it with private subnet
      2. Allocate a new Elastic IP Address (Public IP address)
6. Create 1 more Route table
   1. PrivateRT
7. Configure Route Table
   1. PublicRT
      1. Associate with the PublicRT
   2. PrivateRT
      1. Associate with the PrivateRT

**Question:**

How do you configure your private and public network?

**Answer:**

1. By associating your private subnet with your private RT
2. By associating your public subnet with your public RT