

# Terraform Project (VPC)

1. Create a file for provider with name "provider.tf" in which region should be Mumbai.
2. Create a file for configure following infrastructure :-  
(name of file "aws.tf" ).
3. Create a VPC

CIDR: 100.0.0.0/16

4. Create two subnet :-

a. PublicSub: 100.0.1.0/24

b. PrivateSub: 100.0.2.0/24

5. Create elastic IP in above created VPC.
6. Create Internet Gateway & NAT Gateway in public subnets  
attach NAT Gateway with elastic IP you created above.
7. Create two route table :-
  - a. Public route table to connect internet gateway and attach public route table to public subnet.
  - b. Private route table to connect NAT gateway and attach private route table to private subnet.
8. Create a security group with name "mysg" that allows internet traffic on port 80, 3306 and 22. We'll also allow outgoing traffic on all ports. Create "mysg" security group in above using VPC.
9. Create a key pair for both the instance with name "project".
10. Create two instances with name "pub" "pvt and create them in public & private subnets respectively and use above created security group and key-pair to launch instance.
11. In public instance you have to configure a webserver through "apache" software it contains the data "My First Terraform Project".
12. In private instance you have to install a mariadb software.