Terraform Task

Create a VPC with a public and private subnet, Internet Gateway and a default Route Table by using variable block

1. Create a VPC using VS code.

```
vpc.tf
1    /* #create vpc
2    resource "aws_vpc" "myvpc" {
3      cidr_block = "10.0.0.0/16"
4      tags = {
5        Name = "shank-tf-vpc"
6      }
7    }
8
9    #create pulic subnet
10   resource "aws_subnet" "PublicSubnet" {
11     vpc_id      = aws_vpc.myvpc.id
12     cidr_block = "10.0.1.0/24"
13     tags = {
14       Name = "Public-subnet"
15     }
16
17   }
18
19   #create private subnet
20   resource "aws_subnet" "PrivateSubnet" {
21     vpc_id      = aws_vpc.myvpc.id
22     cidr_block = "10.0.2.0/24"
23     tags = {
24       Name = "Private-Subnet"
25     }
26   }
27
28   #create IGW
29   resource "aws_internet_gateway" "igw" {
30     vpc_id = aws_vpc.myvpc.id
31   }
32
33   #create route table for public subnet
34   resource "aws_route_table" "PublicRT" {
35     vpc_id = aws_vpc.myvpc.id
36     route {
37       cidr_block = "0.0.0.0/0"
38       gateway_id = aws_internet_gateway.igw.id
39     }
40   }
41
41
42   #route table associated with public subnet
43   resource "aws_route_table_association" "PublicRTassociation" {
44     subnet_id       = aws_subnet.PublicSubnet.id
45     route_table_id = aws_route_table.PublicRT.id
46   } */
```

2. Make changes as per your requirement.
3. Like VPC name, cidr block .
4. After completing the code go to the ubuntu and apply following commands.

   cd /mnt

   ls

   cd Shashank -> folder name

   ls

   cd terraform-task -> my terraform folder

   ls -> my vpc files

   terraform init

   terraform plan

   terraform graph

   terraform fmt   -> for indentation

   terraform apply