# **SPCM Lab-8**

# **Objective: Creating a VPC in Terraform**

1. Create Terraform directory.

```
vidhant@psyches-safehouse:~$ mkdir terraform-vpc
vidhant@psyches-safehouse:~$ cd terraform-vpc/
vidhant@psyches-safehouse:~/terraform-vpc$
```

2. Create terraform configuration file (main.tf):

```
dev.tfvars
              main.tf 2 ×
Lab-8 > 🙀 main.tf > 😭 resource "aws_subnet" "my_subnet" > 🔚 tags > 👩 Name
      provider "aws" {
       region = "us-east-1"
        access key = "AKIA232UVZYDK5TANG62"
       secret key = "47IqpUl0zW5Q3cw6KrCxPQrbQ5M/hajeNL3wxE
      resource "aws vpc" "my vpc" {
      cidr block = "10.0.0.0/16"
        enable dns support = true
        enable dns hostnames = true
 12
        tags = {
          Name="my vpc"
      resource "aws subnet" "my subnet" {
 17
       count = 2
        vpc id = aws vpc.my vpc.id
        cidr block = "10.0.${count.index + 1}.0/24"
        availability zone = "us-east-la"
 21
        map public ip on launch = true
 24
        tags = {
         Name="MySubnet-${count.index + 1}"
```

## 3. Initialize, validate and Apply:

#### terraform init:

```
vidhant@psyches-safehouse:~/Documents/Terraform/Lab-7$ terraform init

Initializing the backend...

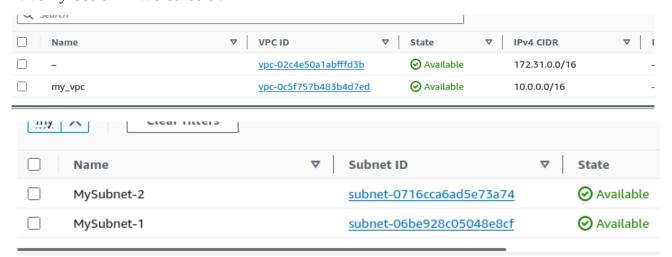
Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v5.35.0...
```

#### terraform validate:

```
    vidhant@psyches-safehouse:~/Documents/Terraform/Lab-7$ terraform v alidate Success! The configuration is valid.
    vidhant@psyches-safehouse:~/Documents/Terraform/Lab-7$
```

# terraform apply:

## 4. Verify Users in AWS console:



# 5. Clean up Resources (terraform destroy):

```
vidhant@psyches-safehouse:~/Documents/Terraform/Lab-8$ terraform destroy
aws_vpc.my_vpc: Refreshing state... [id=vpc-0c5f757b483b4d7ed]
aws_subnet.my_subnet[0]: Refreshing state... [id=subnet-06be928c05048e8cf]
aws_subnet.my_subnet[1]: Refreshing state... [id=subnet-0716cca6ad5e73a74]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
    - destroy

Terraform will perform the following actions:

# aws_subnet.my_subnet[0] will be destroyed
    - resource "aws_subnet" "my_subnet" {
```