# **SPCM LAB**

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# Lab Exercise 8– Creating a VPC in Terraform Objective:

- 1. Create a Terraform Directory:
  - Create a file named main.tf

```
main.tf
                                                              terraform-vpc > 🚩 main.tf
      region = "us-east-1"
      access key = "AKIAYS2NV47DL6IMWZUT"
      secret key = "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
      resource "aws_vpc" "my_vpc" {
      cidr block = "10.0.0.0/16"
      enable_dns_support = true
      enable dns hostnames = true
      tags = {
      Name = "MyVPC"
       resource "aws_subnet" "my_subnet" {
        count = 2
        vpc id
                                = aws vpc.my vpc.id
        cidr block
                                = "10.0.${count.index + 1}.0
        availability zone
                               = "us-east-1a"
        map public ip on launch = true
        tags = {
          Name = "MySubnet-${count.index + 1}"
 26
```

#### 2. Initialize and Apply:

#### Terraform init

```
PS D:\6 th sem\SPCM\SPCM LAB\teraform lab files\terraform-vpc> terraform init

Initializing the backend...

Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v5.38.0...
- Installed hashicorp/aws v5.38.0 (signed by HashiCorp)

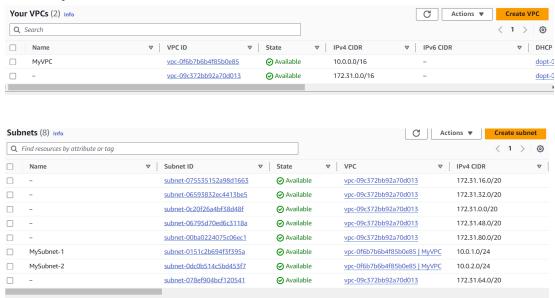
Terraform has created a lock file .terraform.lock.hcl to record the provider selections it made above. Include this file in your version control re pository so that Terraform can guarantee to make the same selections by default when you run "terraform init" in the future.

Terraform has been successfully initialized!
```

### Terraform apply

```
Plan: 3 to add, 0 to change, 0 to destroy.
Do you want to perform these actions?
 Terraform will perform the actions described above.
 Only 'yes' will be accepted to approve.
 Enter a value: yes
aws vpc.my vpc: Creating...
aws_vpc.my_vpc: Still creating... [10s elapsed]
aws_vpc.my_vpc: Creation complete after 15s [id=vpc-0f6b7b6b4f85b0e85]
aws subnet.my subnet[0]: Creating...
aws_subnet.my_subnet[1]: Creating...
aws_subnet.my_subnet[1]: Still creating... [10s elapsed]
aws subnet.my subnet[0]: Still creating... [10s elapsed]
aws subnet.my subnet[1]: Creation complete after 13s [id=subnet-0dc0b5
14c5bd453f71
aws subnet.my subnet[0]: Creation complete after 13s [id=subnet-0151c2
b694f3f395a]
Apply complete! Resources: 3 added, 0 changed, 0 destroyed.
```

# 3. Verify Resources in AWS Console:



# 4. Clean Up: terraform destroy

