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

## **Objective:**

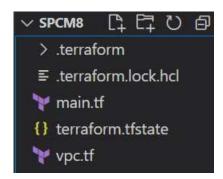
Learn how to use Terraform to create a basic Virtual Private Cloud (VPC) in AWS.

#### **Prerequisites:**

- Terraform installed on your machine.
- AWS CLI configured with the necessary credentials.

#### **Steps:**

## 1. Create a Terraform Directory:



- Create Terraform Configuration Files:
- Create a file named main.tf:

# main.tf

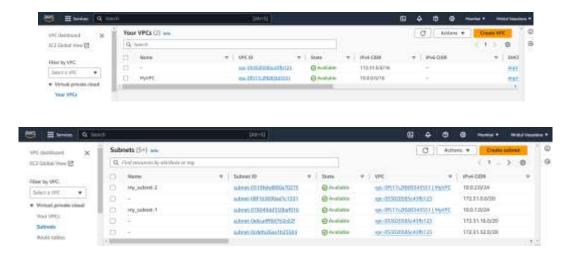
```
main.tf > sprovider "aws"

1   terraform {
2    required_providers {
3    aws = {
4        source = "hashicorp/aws"
5        version = "5.31.0"
6    }
7    }
8  }

10  provider "aws" {
11    region = "ap-south-1"
12    access_key = "AKIAZI2LIAJGSHGMMMHP"
13    secret_key = "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"
14 }
```

# 2. Initialize and Apply:

### 3. Verify Resources in AWS Console:



#### 5. Clean Up:

```
Plan: 0 to add, 0 to change, 3 to destroy.

aws_subnet.my_subnet[1]: Destroying... [id=subnet-0519febd800a70275]

aws_subnet.my_subnet[0]: Destroying... [id=subnet-076049dd350baf016]

aws_subnet.my_subnet[1]: Destruction complete after 2s

aws_subnet.my_subnet[0]: Destruction complete after 2s

aws_vpc.my_vpc: Destroying... [id=vpc-0f517c2f600343551]

aws_vpc.my_vpc: Still destroying... [id=vpc-0f517c2f600343551, 10s elapsed]

aws_vpc.my_vpc: Destruction complete after 16s

Destroy complete! Resources: 3 destroyed.
```

