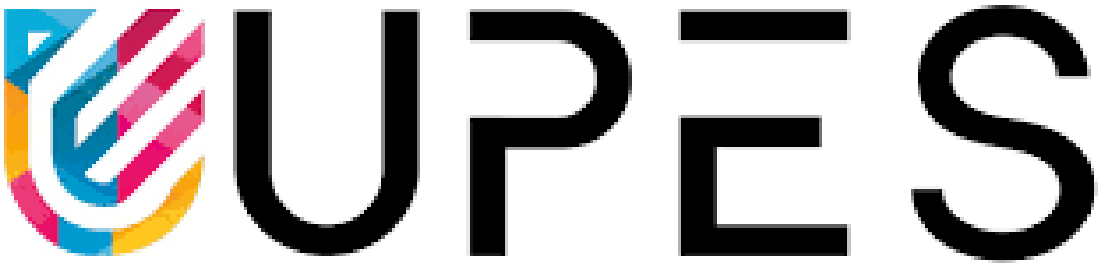

SPCM - LAB

6th Sem

Submitted To:

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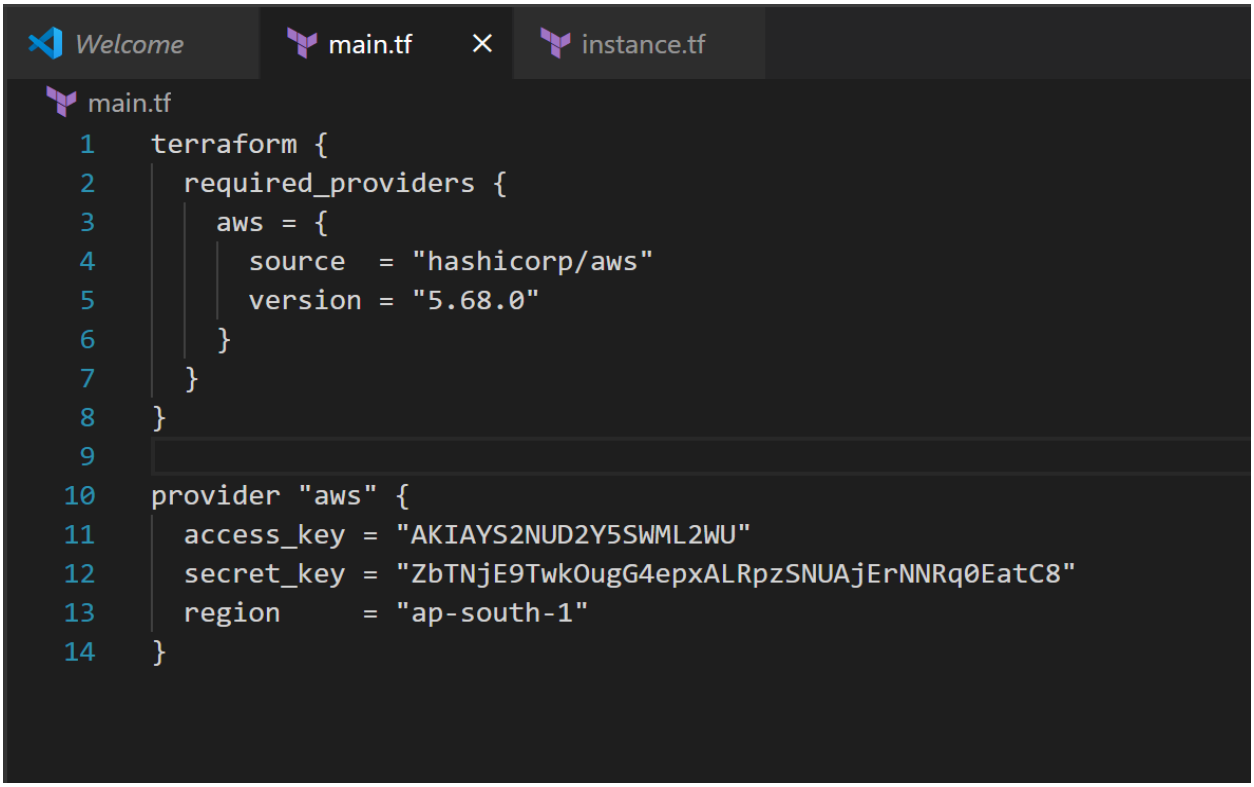
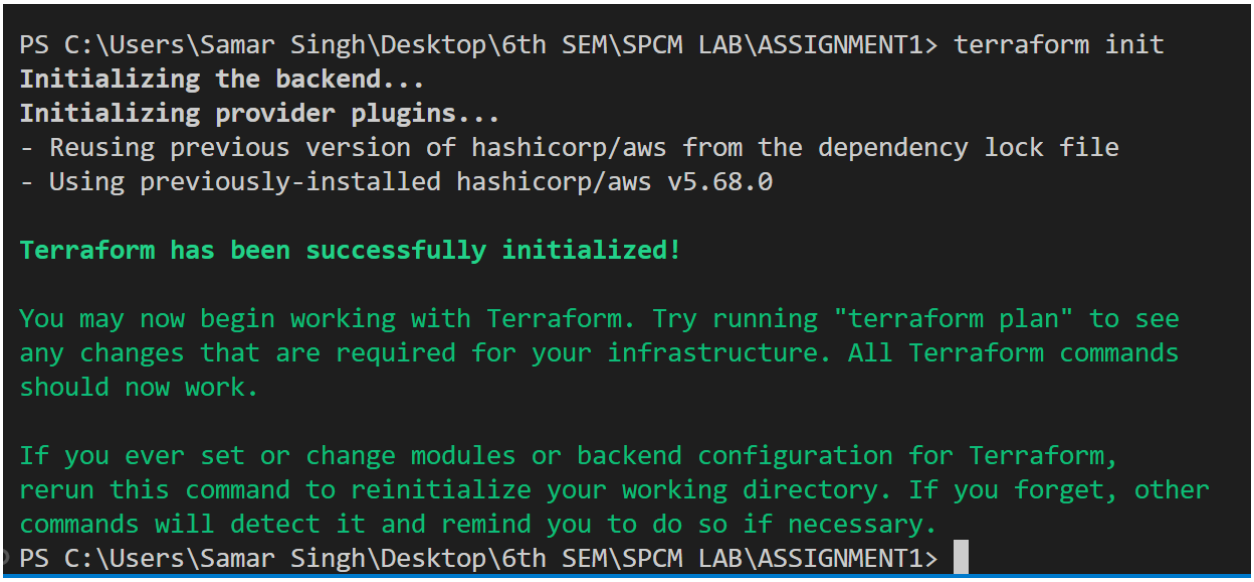
Batch 1-NH

Writing Terraform Scripts to perform the following task 2 ec2 Instances, VPN and S3
main.tf



Running terraform init



Terraform init to initialize the terraform folder which will have the aws provider plugin installed

instance.tf

```
resource "aws_instance" "ins1" {
  ami           = "ami-0e35ddab05955cf57"
  instance_type = "t2.micro"

  tags = {
    Name = "Instance1"
  }
}

resource "aws_instance" "ins2" {
  ami           = "ami-0e35ddab05955cf57"
  instance_type = "t2.micro"

  tags = {
    Name = "Instance2"
  }
}
```

This file holds the iac code to make 2 instances - t2-micro ec2 machines

resource.tf

resource.tf

```
resource "aws_vpc" "main"{
cidr_block = "10.0.0.0/16"
tags = {
  Name ="SamarVPC"
  }
}
resource "aws_vpn_gateway" "example" {
  vpc_id = aws_vpc.main.id

  tags = {
    Name = "MyVPNGateway"
  }
}
resource "aws_customer_gateway" "example" {
  bgp_asn    = 65000
  ip_address = "203.0.113.1"  # Replace with actual IP
  type       = "ipsec.1"

  tags = {
    Name = "MyCustomerGateway"
  }
}
resource "aws_vpn_connection" "example" {
  customer_gateway_id = aws_customer_gateway.example.id
  vpn_gateway_id      = aws_vpn_gateway.example.id
  type                = "ipsec.1"
  static_routes_only  = true
}
```

This resource.tf hold the iac code to create vpc , the customer gateway and the vpn connection.

s3.tf

```
1
2  resource "aws_s3_bucket" "example" {
3    bucket = "Samar-singh-upes-s3"
4      acl    = "private"
5    }
```

The s3.tf hold the code to create a s3 bucket which has a unique name

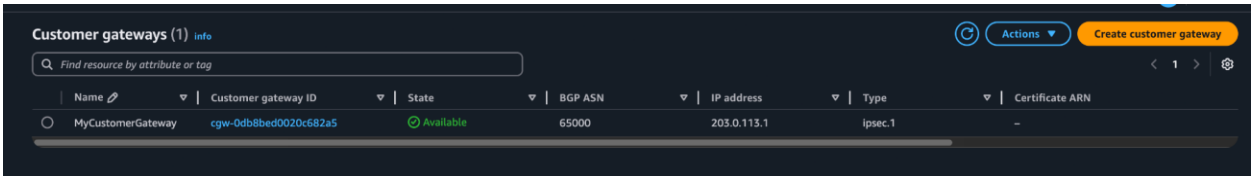
Outputs:
terraform plan

```
      + tunnel2_log_options (known after apply)
    }

  # aws_vpn_gateway.example will be created
  + resource "aws_vpn_gateway" "example" {
      + amazon_side_asn = (known after apply)
      + arn             = (known after apply)
      + id              = (known after apply)
      + tags            = {
          + "Name" = "MyVPNGateway"
        }
      + tags_all        = {
          + "Name" = "MyVPNGateway"
        }
      + vpc_id          = (known after apply)
    }
```

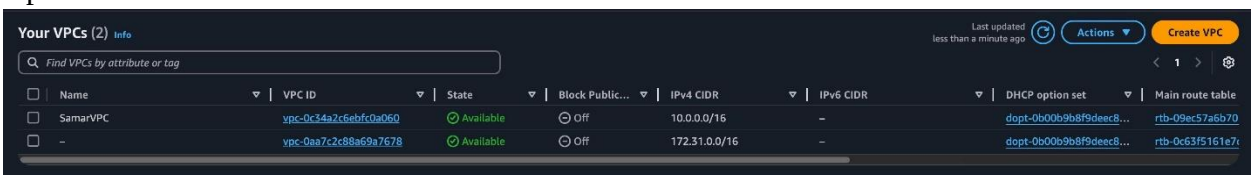
Terraform apply

```
aws_vpn_connection.example: Still creating... [5m0s elapsed]
aws_vpn_connection.example: Creation complete after 5m7s [id=vpn-029da44f6ca1c9be9]

Warning: Argument is deprecated

  with aws_s3_bucket.example,
  on s3.tf line 4, in resource "aws_s3_bucket" "example":
   4:     acl    = "private"

Use the aws_s3_bucket_acl resource instead

Apply complete! Resources: 7 added, 0 changed, 0 destroyed.
(base) ➜  assignment1
```

Customer Gateway



Vpc



S3

Instances