SPCM - LAB

6th Sem

Submitted To:

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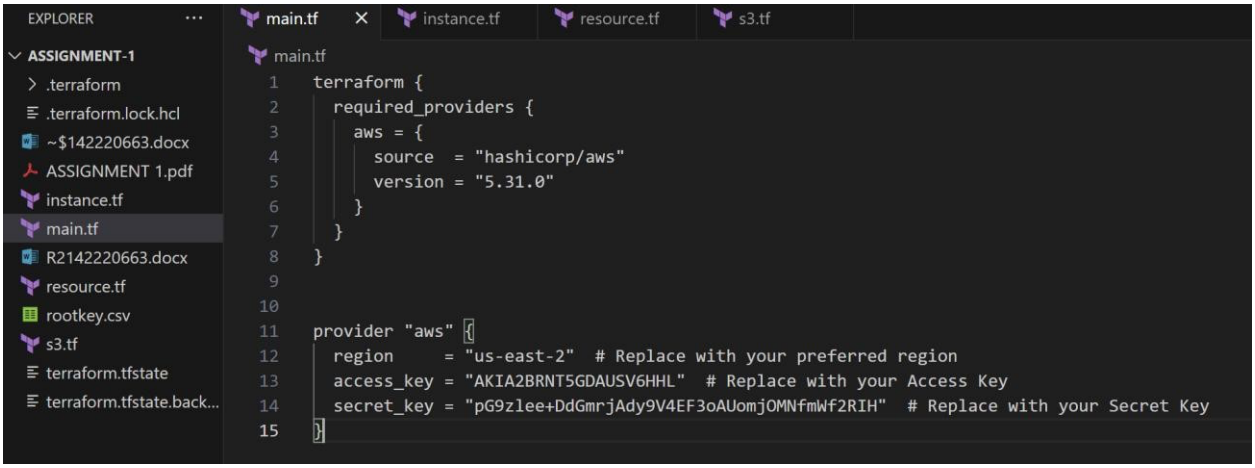
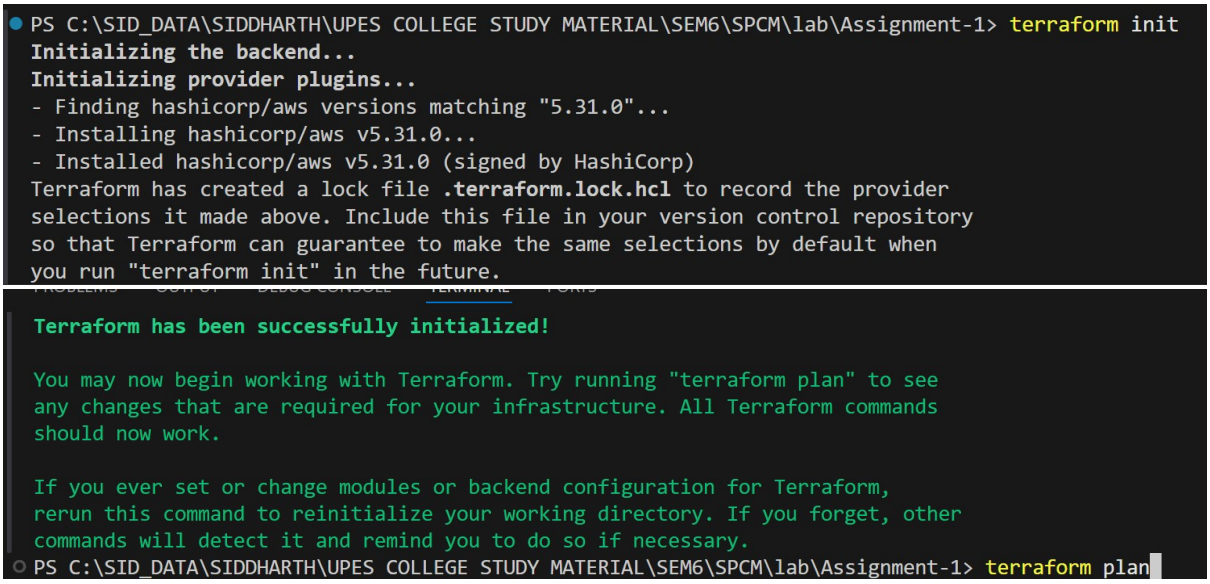
Batch 1-NH

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

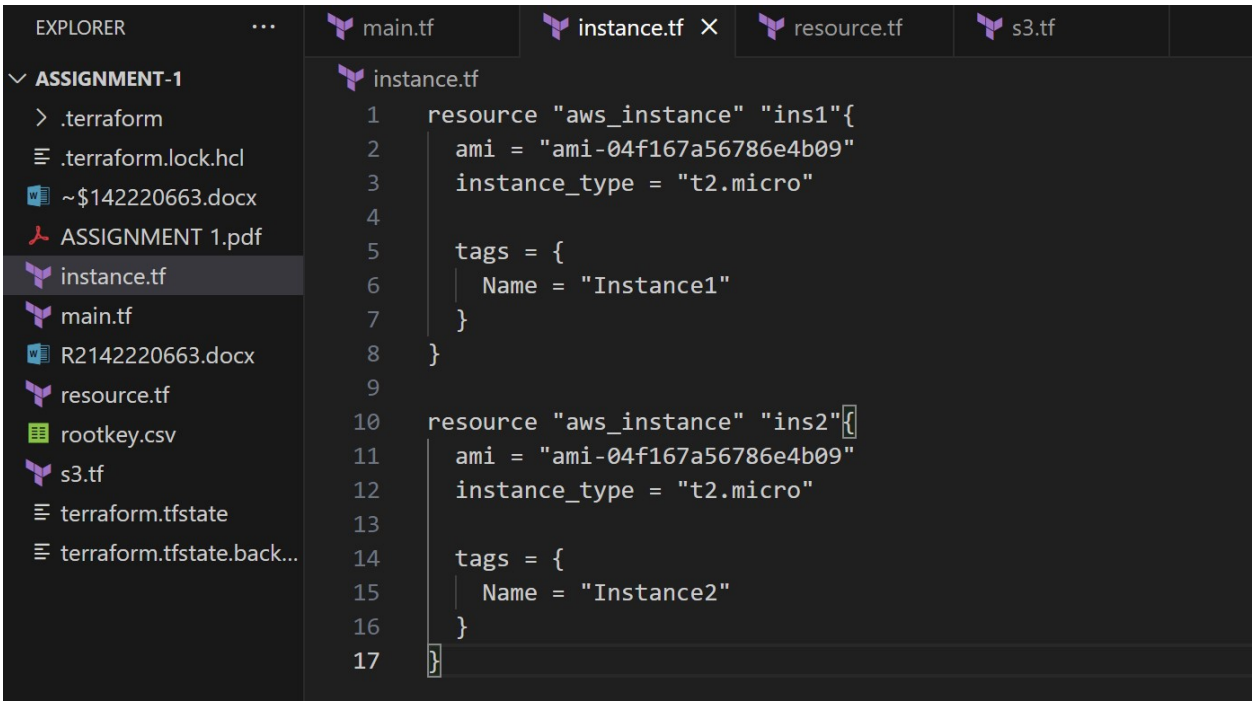


Running **terraform init**



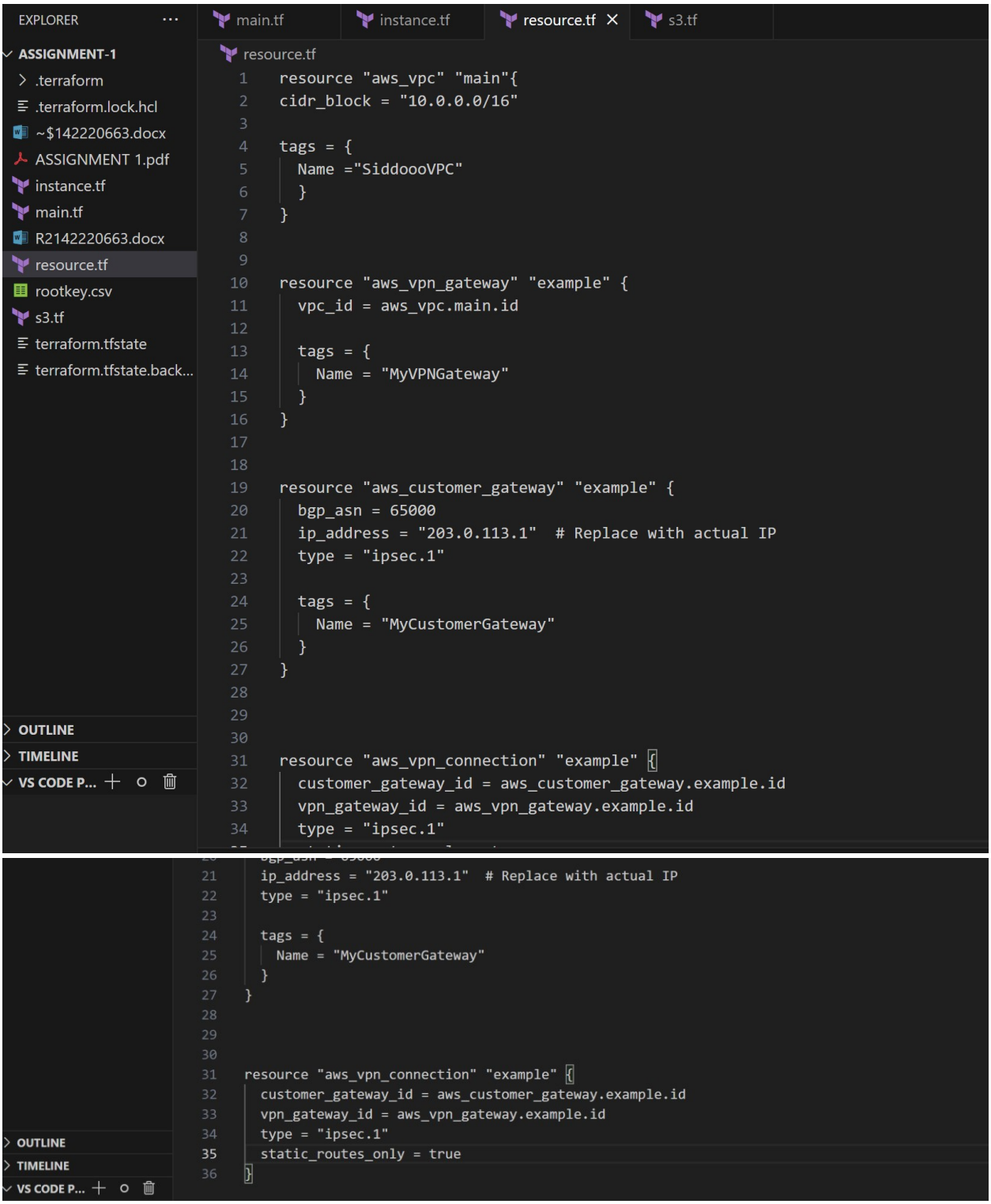
Terraform init to initialize the terraform folder which will have the aws provider plugin installed

instance.tf



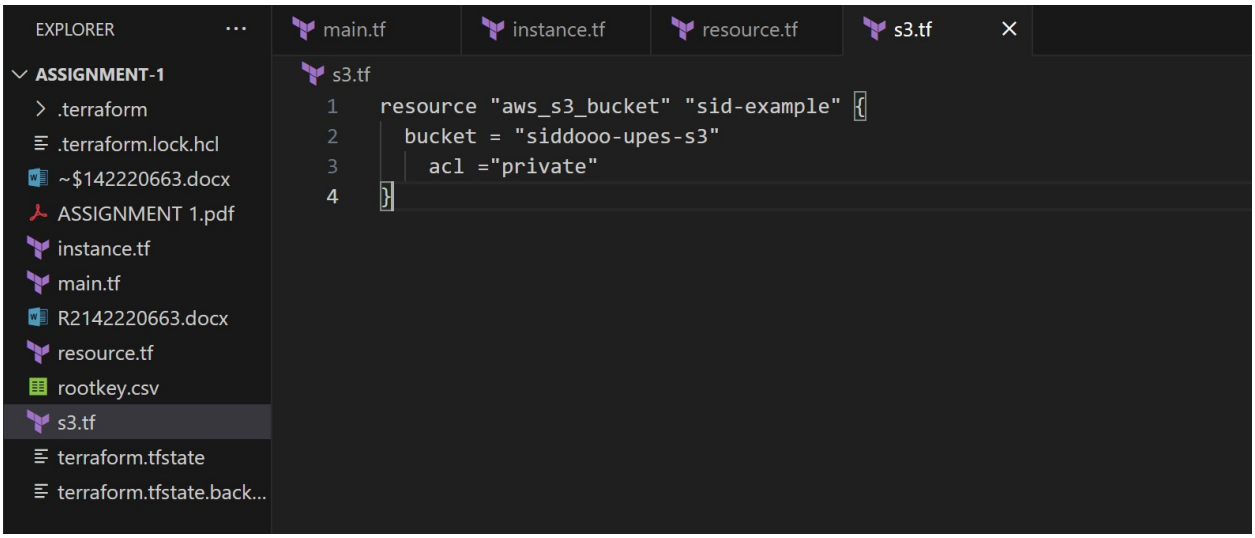
This file holds the iac code to make 2 instances - t2-micro ec2 machines

resource.tf



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

s3.tf



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

Outputs: **terraform plan**

```
PS C:\SID_DATA\SIDDHARTH\UPES COLLEGE STUDY MATERIAL\SEM6\SPCM\lab\Assignment-1> terraform plan

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

Terraform will perform the following actions:

  # aws_customer_gateway.example will be created
  + resource "aws_customer_gateway" "example" {
      + arn        = (known after apply)
      + bgp_asn    = "65000"
      + id         = (known after apply)
      + ip_address = "203.0.113.1"
      + tags       = {
          + "Name" = "MyCustomerGateway"
        }
      + tags_all   = {
          + "Name" = "MyCustomerGateway"
        }
      + type       = "ipsec.1"
```

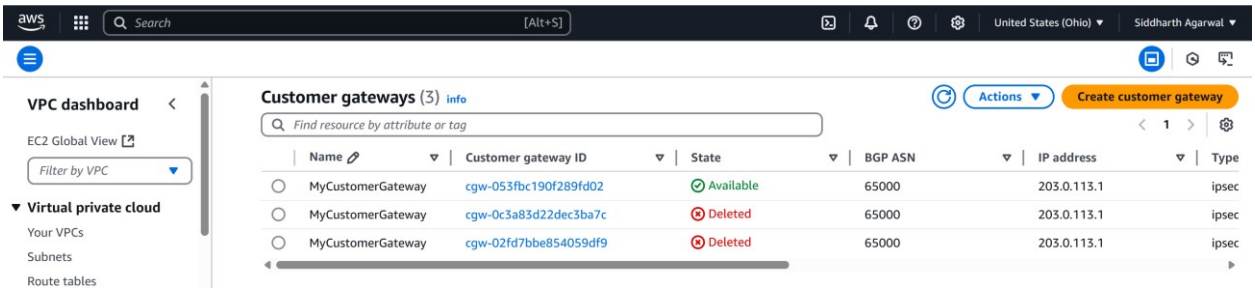
```
      + tunnel1_log_options (known after apply)

      + 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)
    }

Plan: 7 to add, 0 to change, 0 to destroy.
```

Terraform apply

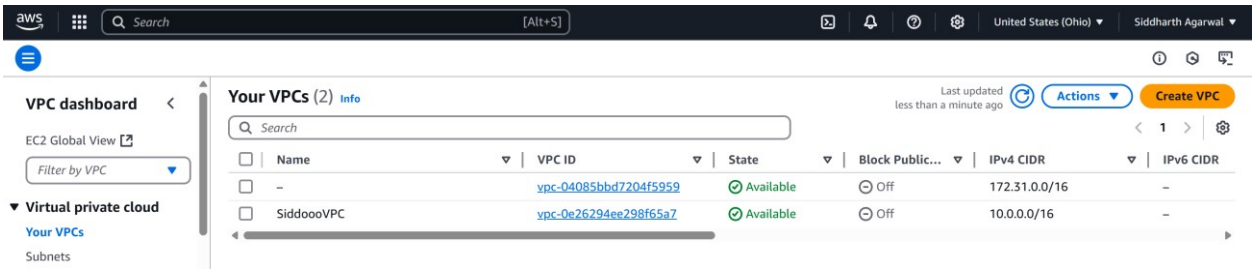
```
PS C:\SID_DATA\SIDDHARTH\UPES COLLEGE STUDY MATERIAL\SEM6\SPCM\lab\Assignment-1> terraform apply -auto-approve

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

Terraform will perform the following actions:

  # aws_customer_gateway.example will be created
  + resource "aws_customer_gateway" "example" {
      + arn        = (known after apply)
      + bgp_asn    = "65000"
      + id         = (known after apply)
      + ip_address = "203.0.113.1"
      + tags       = {
          + "Name" = "MyCustomerGateway"
        }
      + tags_all   = {
          + "Name" = "MyCustomerGateway"
        }
      + type       = "ipsec.1"
    }

  # aws_instance.ins1 will be created
  + resource "aws_instance" "ins1" {
      + ami                                  = "ami-04f167a56786e4b09"
      + arn                                  = (known after apply)
      + associate_public_ip_address          = (known after apply)
      + availability_zone                    = (known after apply)
      + cpu_core_count                       = (known after apply)
      + cpu_threads_per_core                 = (known after apply)
      + disable_api_stop                     = (known after apply)
      + disable_api_termination              = (known after apply)
      + ebs_optimized                        = (known after apply)
      + get_password_data                    = false
```

```
    3:     acl ="private"


  Use the aws_s3_bucket_acl resource instead

  (and 2 more similar warnings elsewhere)


  (and 2 more similar warnings elsewhere)

  (and 2 more similar warnings elsewhere)


Apply complete! Resources: 7 added, 0 changed, 0 destroyed.
PS C:\SID_DATA\SIDDHARTH\UPES COLLEGE STUDY MATERIAL\SEM6\SPCM\lab\Assignment-1>
```

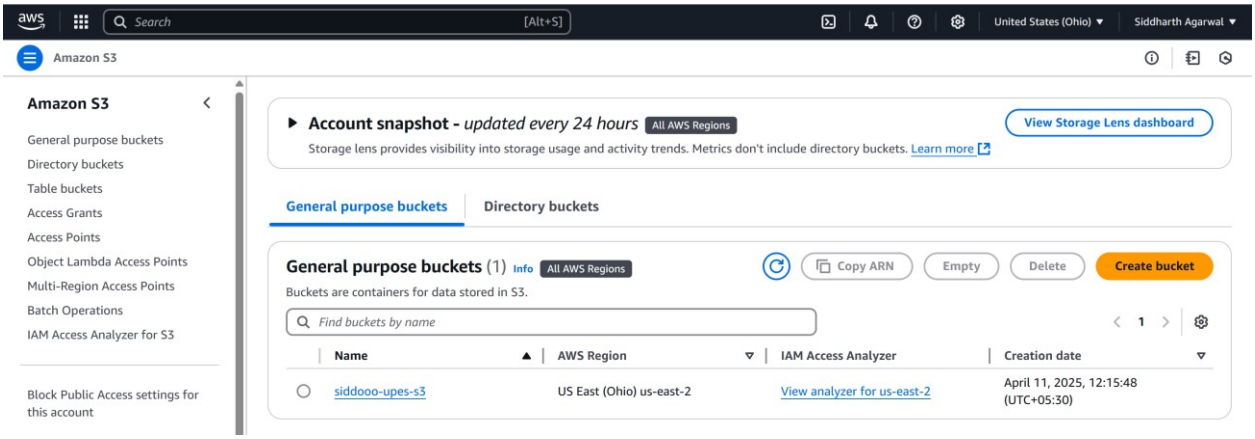
Customer Gateway



VPC



S3



Instances