SPCM - LAB
6th Sem

Submitted To:

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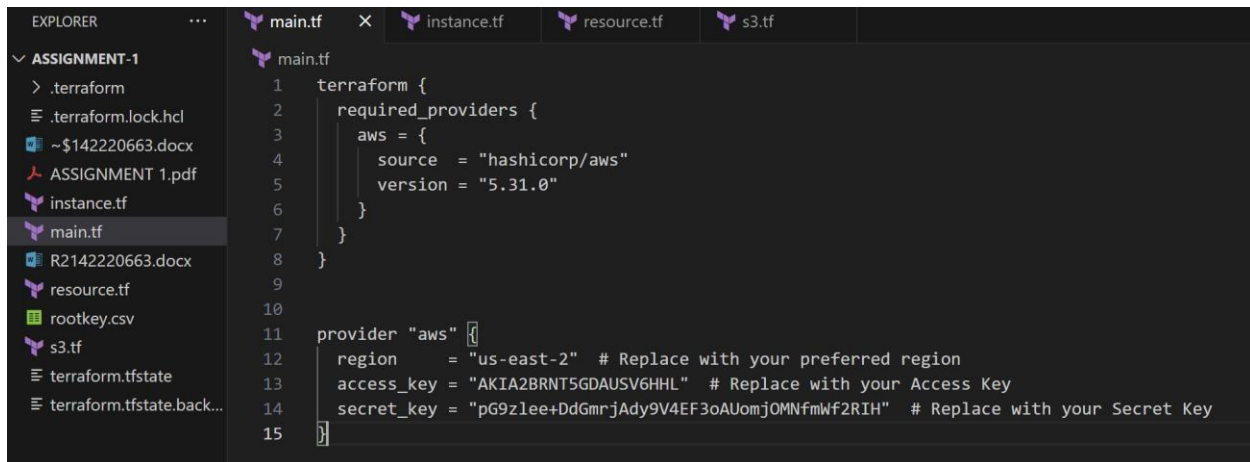
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Submitted By:

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Batch 2-NH

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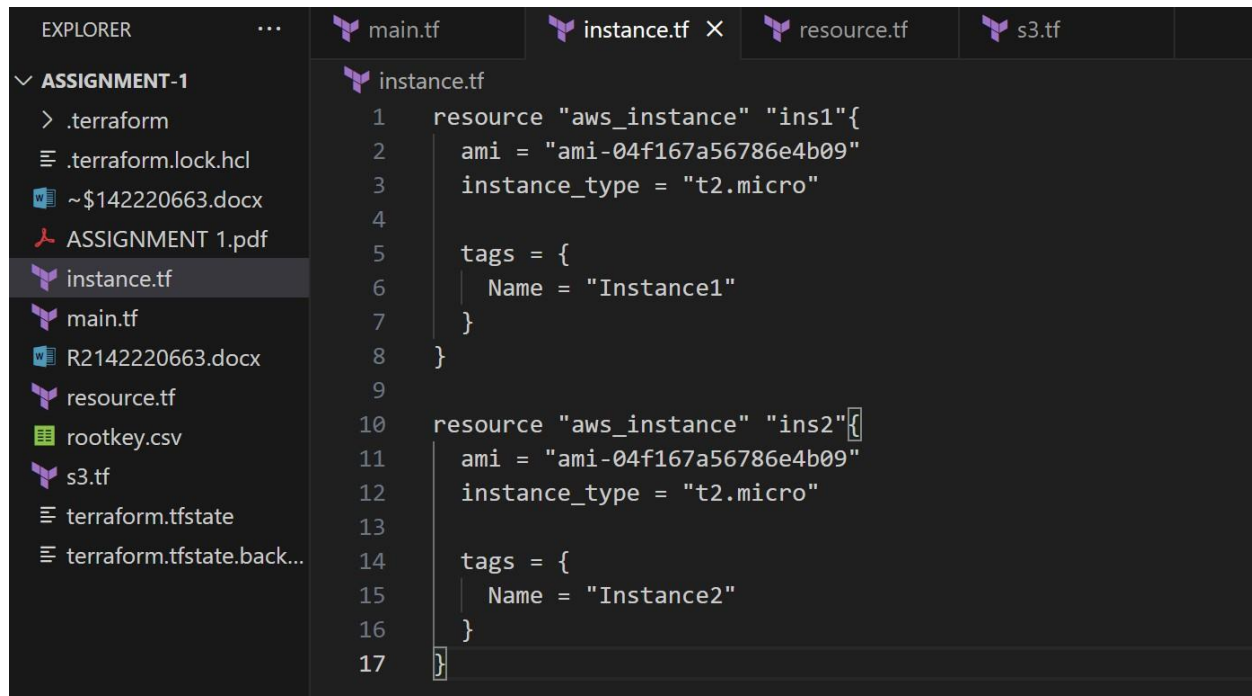
Running **terraform init**

Terraform init to initialize the

terraform folder which will have the aws provider plugin installed

instance.tf

```
instance.tf
1    resource "aws_instance" "ins1"{
2      ami = "ami-04f167a56786e4b09"
3      instance_type = "t2.micro"
4
5      tags = {
6        Name = "Instance1"
7      }
8    }
9
10   resource "aws_instance" "ins2"{
11     ami = "ami-04f167a56786e4b09"
12     instance_type = "t2.micro"
13
14     tags = {
15       Name = "Instance2"
16     }
17   }
```
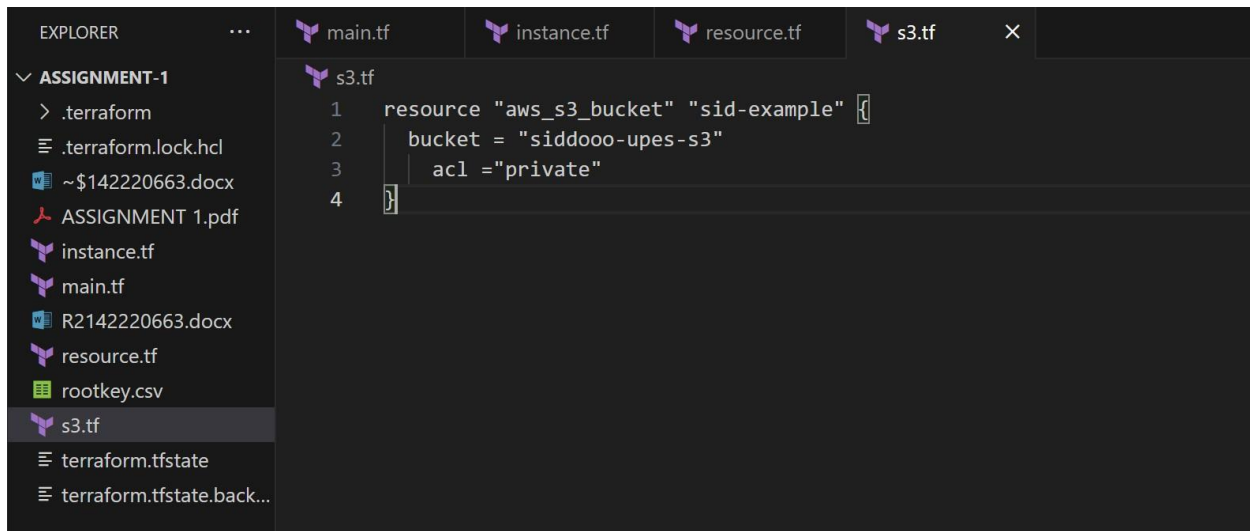
This file holds the iac code to make 2 instances - t2-micro ec2 machines

resource.tf

```
resource.tf

1    resource "aws_vpc" "main"{
2    cidr_block = "10.0.0.0/16"
3
4    tags = {
5      Name ="SiddoooVPC"
6      }
7    }
8
9
10   resource "aws_vpn_gateway" "example" {
11     vpc_id = aws_vpc.main.id
12
13     tags = {
14       Name = "MyVPNGateway"
15     }
16   }
17
18
19   resource "aws_customer_gateway" "example" {
20     bgp_asn = 65000
21     ip_address = "203.0.113.1"  # Replace with actual IP
22     type = "ipsec.1"
23
24     tags = {
25       Name = "MyCustomerGateway"
26     }
27   }
28
29
30
31   resource "aws_vpn_connection" "example" {
32     customer_gateway_id = aws_customer_gateway.example.id
33     vpn_gateway_id = aws_vpn_gateway.example.id
34     type = "ipsec.1"
```

```
21     ip_address = "203.0.113.1"  # Replace with actual IP
22     type = "ipsec.1"
23
24     tags = {
25       Name = "MyCustomerGateway"
26     }
27   }
28
29
30
31   resource "aws_vpn_connection" "example" {
32     customer_gateway_id = aws_customer_gateway.example.id
33     vpn_gateway_id = aws_vpn_gateway.example.id
34     type = "ipsec.1"
35     static_routes_only = true
36   }
```

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

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" {
    arm = (known after apply)
    bgp_asm = "65800"
    id = (known after apply)
    ip_address = "283.0.113.1"
    tags = (
    + "Name" = "MyCustomerGateway"
    )
    tags_all = (
    + "Name" = "MyCustomerGateway"
    )
    type = "ipsec.1"
}

# aws_instance.insl will be created
+ resource "aws_instance" "insl" {
    arm = "ami-04f167a56786e4b69"
    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.
```

Customer Gateway

VPC

S3

Instances