

SPCM - LAB 6th Sem

Submitted To:

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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

```
(base) → assignment1 terraform init
 Initializing the backend...
 Initializing provider plugins...
 - Finding hashicorp/aws versions matching "5.31.0"...
 - Installing hashicorp/aws v5.31.0...

    Installed hashicorp/aws v5.31.0 (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 repository
 so that Terraform can guarantee to make the same selections by default when
 vou run "terraform init" in the future.
 Terraform has been successfully initialized!
 You may now begin working with Terraform. Try running "terraform plan" to see
 any changes that are required for your infrastructure. All Terraform commands
 should now work.
 If you ever set or change modules or backend configuration for Terraform,
 rerun this command to reinitialize your working directory. If you forget, other
 commands will detect it and remind you to do so if necessary.
(base) → assignment1
```

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

instance.tf

```
assignment1 > 🚏 instance.tf > 😭 resource "aws_instance" "ins2"
      resource "aws_instance" "ins1" {
        ami
                     = "ami-0e35ddab05955cf57"
        instance_type = "t2.micro"
                    string
      tags = {
         Name = "Instance1"
        }
      }
      resource "aws_instance" "ins2" {
 10
                     = "ami-0e35ddab05955cf57"
        ami
        instance_type = "t2.micro"
       tags = {
         Name = "Instance2"
       }
```

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

resource.tf

```
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.

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

Outputs:

terraform plan

Terraform apply

```
aws_vpn_connection.example: Still Creating... [5m0s etapsed]
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 □
```

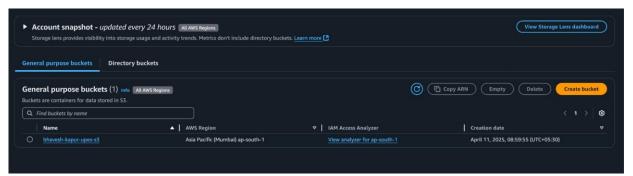
Customer Gateway



Vpc



S3



Instances

