

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

```
cd C:\Users\Stuti\OneDrive\Desktop\SPCM_Assignment
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
you 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.
```

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

instance.tf

```
instance.tf X
main.tf
🚩 instance.tf > ધ resource "aws_instance" "inst2"
       resource "aws_instance" "inst1" {
         ami = "ami-0e35ddab05955cf57"
         instance type = "t2.micro"
           tags = {
             Name = "Instance1"
       resource "aws_instance" "inst2" {
 10
           ami = "ami-0e35ddab05955cf57"
 11
           instance_type = "t2.micro"
 12
 13
 14
           tags = {
             Name = "Instance2"
 15
 16
 17
```

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

```
resource.tf > ...
      resource "aws vpc" "main" {
          cidr block = "10.0.0.0/16"
          tags = {
            Name = "SujalVPC"
      }
      resource "aws vpn gateway" "example" {
        vpc id = aws vpc.main.id
10
11
12
        tags = {
13
          Name = "MyVPNGateway"
14
15
      }
16
```

```
resource "aws_customer_gateway" "example" {
  bgp_asn = 65000
  ip_address = "203.0.113.1"
  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.

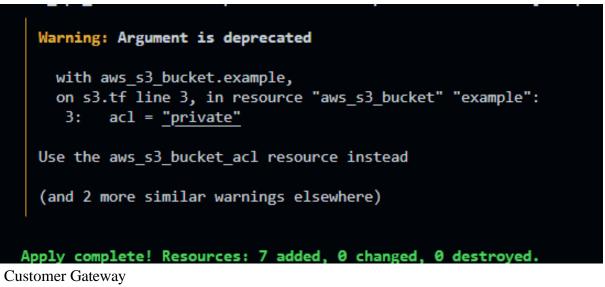
```
resource "aws_s3_bucket" "example" {
bucket = "sujal-s3"
acl = "private"
4 }
```

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

Outputs:

terraform plan

Terraform apply





Vpc



S3



Instances

