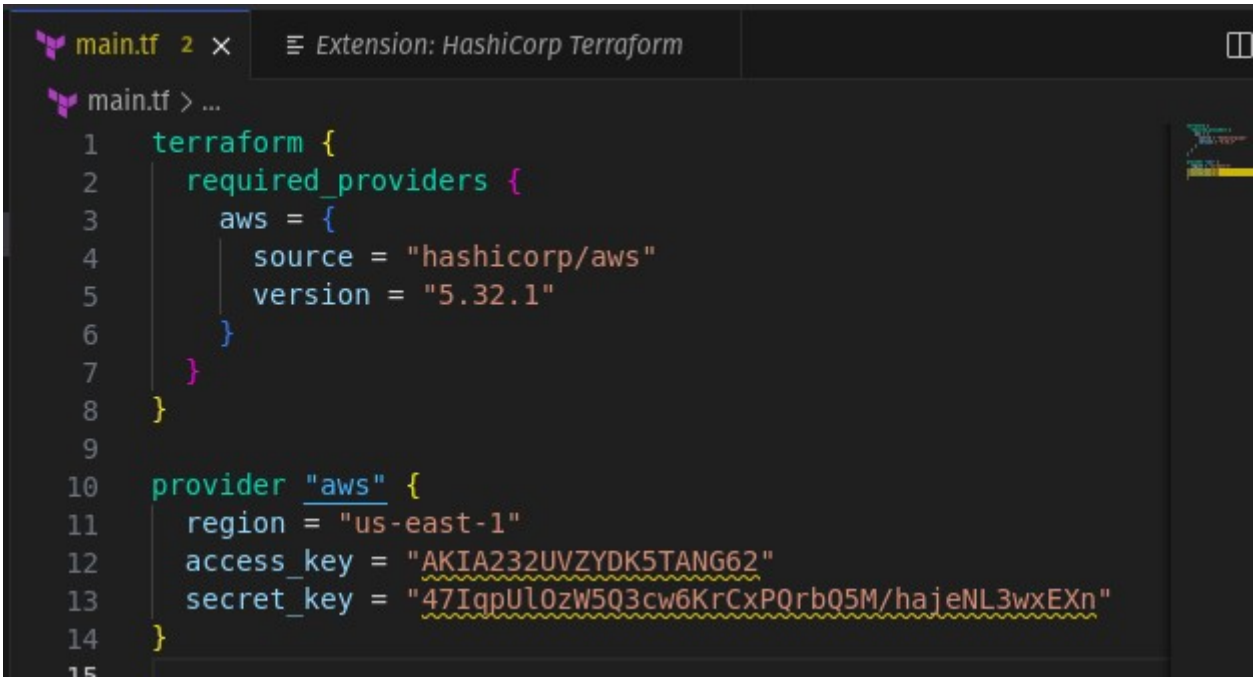
SPCM Lab-3

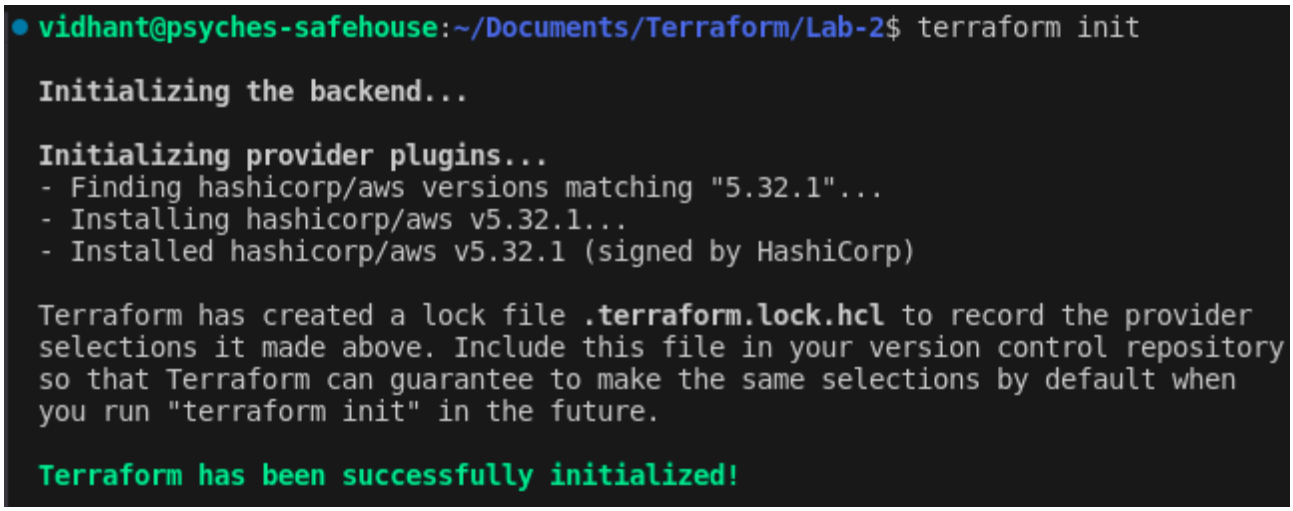
Objective : Provisioning an EC2 Instance on AWS.

1. create and Initialize a terraform repository on your local Machine.

(a) Create a main.tf file and configure your cloud provider using the Access ID and Secret ID



(b) Initialize Terraform :



2. Create a TerraForm Configuration File for EC2 instance (instance.tf)

```
instance.tf
instance.tf > resource "aws_instance" "vidhant-ec2"
1  resource "aws_instance" "vidhant-ec2" {
2    instance_type = "t2.micro"
3    ami = "ami-0c7217cdde317cfec"
4    count = 1
5    tags = {
6      Name = "Vidhant-EC2-Instance"
7    }
8  }
```

3. Review Plan : **terraform plan**

```
vidhant@psyches-safehouse:~/Documents/Terraform/Lab-2-3$ 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_instance.vidhant-ec2[0] will be created
  + resource "aws_instance" "vidhant-ec2" {
```

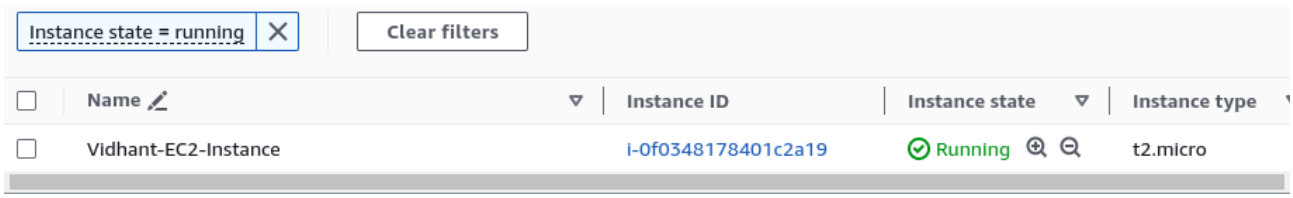
4. Apply Changes. **terraform apply**

```
  Enter a value: yes

aws_instance.vidhant-ec2[0]: Creating...
aws_instance.vidhant-ec2[0]: Still creating... [10s elapsed]
aws_instance.vidhant-ec2[0]: Still creating... [20s elapsed]
aws_instance.vidhant-ec2[0]: Still creating... [30s elapsed]
aws_instance.vidhant-ec2[0]: Still creating... [40s elapsed]
aws_instance.vidhant-ec2[0]: Creation complete after 41s [id=i-0f03481784
01c2a19]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
```

5. Verify Resource Creation.



6. CleanUp Resources. **terraform destroy**

```
aws_instance.vidhant-ec2[0]: Destroying... [id=i-0f0348178401c2a19]
aws_instance.vidhant-ec2[0]: Still destroying... [id=i-0f0348178401c2a19, 10s elapsed]
aws_instance.vidhant-ec2[0]: Still destroying... [id=i-0f0348178401c2a19, 20s elapsed]
aws_instance.vidhant-ec2[0]: Still destroying... [id=i-0f0348178401c2a19, 30s elapsed]
aws_instance.vidhant-ec2[0]: Destruction complete after 35s

Destroy complete! Resources: 1 destroyed.
```

7. Verify Resource Deletion