#### **Terraform Task**

### **Installing Terraform:**

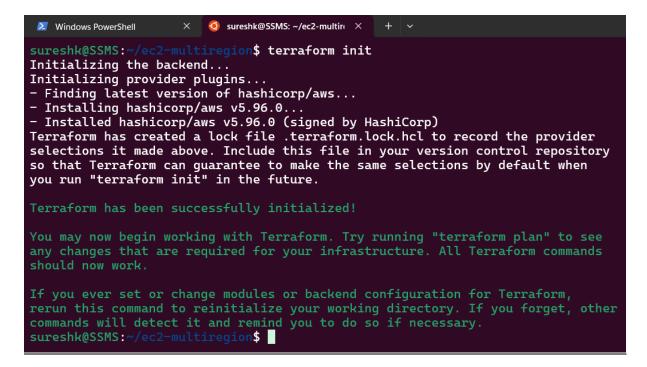
# **Installing AWS CLI:**

# **Creating Directory for Terraform:**

### **Creating Terraform file:**

```
Windows PowerShell
                        sureshk@SSMS:~$ mkdir ec2-multiregion
sureshk@SSMS:~$ cd ec2-multiregion
sureshk@SSMS:~/ec2-multiregion$ vi main.tf
sureshk@SSMS:~/ec2-multiregion$ cat main.tf
provider "aws" {
   alias = "us_east"
 region = "us-east-1"
provider "aws" {
 alias = "us_west"
 region = "us-west-2"
resource "aws_instance" "ec2_us_east" {
  provider = aws.us_east
             = "ami-0c2b8ca1dad447f8a" # Amazon Linux 2 AMI (us-east-1)
  ami
  instance_type = "t2.micro"
  tags = {
   Name = "EC2-East"
}
resource "aws_instance" "ec2_us_west" {
  provider = aws.us_west
               = "ami-094125af156557ca2" # Amazon Linux 2 AMI (us-west-2)
  instance_type = "t2.micro"
  tags = {
   Name = "EC2-West"
}
sureshk@SSMS:~/ec2-multiregion$
```

**Initializing Terraform:** 



### Validating the Configuration:



#### Terraform Plan:

```
+ "Name" = "EC2-West"
        }
tenancy
user_data
user_data_base64
user_data_replace_on_change
vpc_security_group_ids
                                                     = (known after apply)
= (known after apply)
= (known after apply)
= false
= (known after apply)

    capacity reservation specification (known after apply)

       + cpu_options (known after apply)
       + ebs_block_device (known after apply)
       + enclave_options (known after apply)
       + ephemeral_block_device (known after apply)
       + instance market options (known after apply)
       + maintenance_options (known after apply)
       + metadata_options (known after apply)
       + network_interface (known after apply)
       + private_dns_name_options (known after apply)
       + root_block_device (known after apply)
Plan: 2 to add, 0 to change, 0 to destroy.
Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these actions if you run "terraform apply"
```

## **Terraform Apply:**

```
+ "Name" = "EC2-West"
          }
tenancy
user_data
user_data_base64
user_data_replace_on_change
vpc_security_group_ids
                                                          = (known after apply)
= (known after apply)
= (known after apply)
= false
= (known after apply)
        capacity_reservation_specification (known after apply)
        + cpu_options (known after apply)
        + ebs_block_device (known after apply)
        + enclave_options (known after apply)
        + ephemeral_block_device (known after apply)
        + instance_market_options (known after apply)
       + maintenance_options (known after apply)
       + metadata_options (known after apply)
        + network_interface (known after apply)
        + private_dns_name_options (known after apply)
        + root block device (known after apply)
Plan: 2 to add, 0 to change, 0 to destroy.
Do you want to perform these actions?
Terraform will perform the actions described above.
Only 'yes' will be accepted to approve.
  Enter a value:
```

#### EC2 Instance Output: