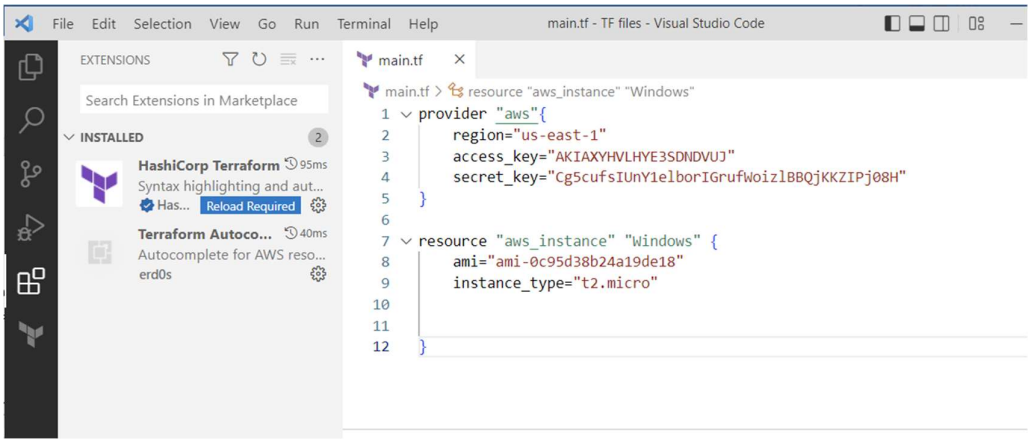
Procedure:

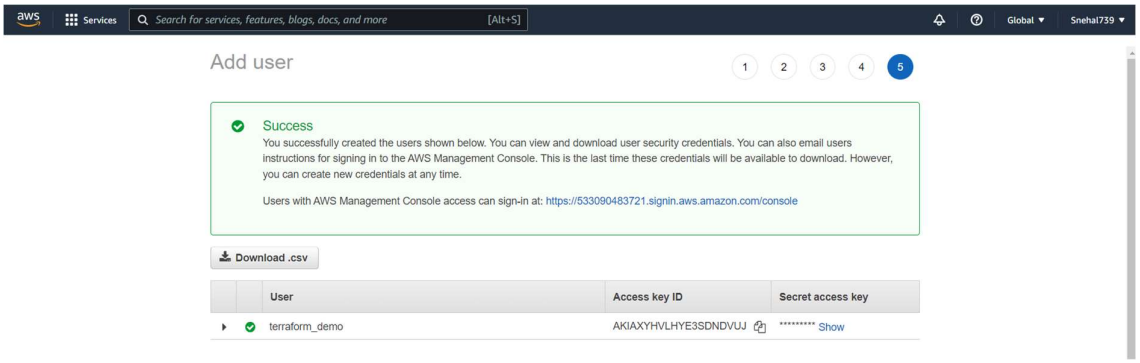
Follow the following steps to create an EC2 instance using Terraform :

1.Install VC Extension to support terraform coding.



2. We need to connect AWS account (for that you will require AWS Account)

3. We need to Create Users in IAM giving the EC2 access policy or the Admin Access



4. Provide your access key and Secret key and AMI ID (Amazon Machine Image ID)

5.Ready with code to launch EC2 Instance

Give the following Commands in the Terminal

>> terraform init

>> terraform validate

>> terraform plan

>> terraform apply

>> terraform destroy

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\TF files> terraform init

Initializing the backend...

Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v4.28.0

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, oth
er
commands will detect it and remind you to do so if necessary.
PS C:\TF files> terraform validate
Success! The configuration is valid.

PS C:\TF files> 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.Windows will be created
  + resource "aws_instance" "Windows" {
      + ami                                  = "ami-0c95d38b24a19de18"
      + arn                                  = (known after apply)
      + 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)
```

```
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" now.
PS C:\TF files> terraform apply

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.Windows will be created
  + resource "aws_instance" "Windows" {
      + ami                                  = "ami-0c95d38b24a19de18"
      + arn                                  = (known after apply)
      + 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)

          + volume_size           = (known after apply)
          + volume_type           = (known after apply)
        }
    }

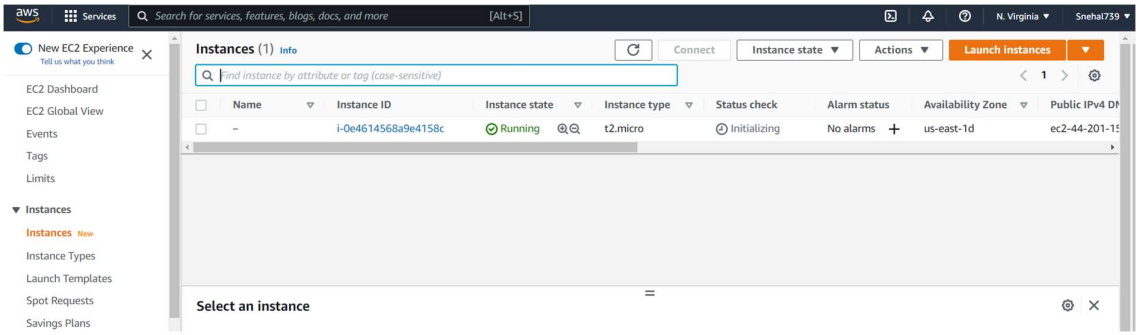
Plan: 1 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes

aws_instance.Windows: Creating...
aws_instance.Windows: Still creating... [10s elapsed]
aws_instance.Windows: Still creating... [20s elapsed]
aws_instance.Windows: Still creating... [30s elapsed]
aws_instance.Windows: Still creating... [40s elapsed]
aws_instance.Windows: Creation complete after 47s [id=i-0e4614568a9e4158c]

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




```
PS C:\TF files> terraform destroy
aws_instance.Windows: Refreshing state... [id=i-0e4614568a9e4158c]

Terraform used the selected providers to generate the following execution
plan. Resource actions are indicated with the following symbols:
  - destroy

Terraform will perform the following actions:

  # aws_instance.Windows will be destroyed
  - resource "aws_instance" "Windows" {
      - ami                                  = "ami-0c95d38b24a19de18" -> nul
l
      - arn                                  = "arn:aws:ec2:us-east-1:5330904
83721:instance/i-0e4614568a9e4158c" -> null
      - associate_public_ip_address          = true -> null
      - availability_zone                    = "us-east-1d" -> null
      - cpu_core_count                       = 1 -> null
      - cpu_threads_per_core                 = 1 -> null
      - disable_api_stop                     = false -> null
```

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      - volume_size           = 30 -> null
      - volume_type           = "gp2" -> null
    }
}

Plan: 0 to add, 0 to change, 1 to destroy.

Do you really want to destroy all resources?
  Terraform will destroy all your managed infrastructure, as shown above.
  There is no undo. Only 'yes' will be accepted to confirm.

  Enter a value: yes

aws_instance.Windows: Destroying... [id=i-0e4614568a9e4158c]
aws_instance.Windows: Still destroying... [id=i-0e4614568a9e4158c, 10s elapse
d]
aws_instance.Windows: Still destroying... [id=i-0e4614568a9e4158c, 20s elapse
d]
aws_instance.Windows: Still destroying... [id=i-0e4614568a9e4158c, 30s elapse
d]
aws_instance.Windows: Destruction complete after 32s

Destroy complete! Resources: 1 destroyed.
PS C:\TF files>
```