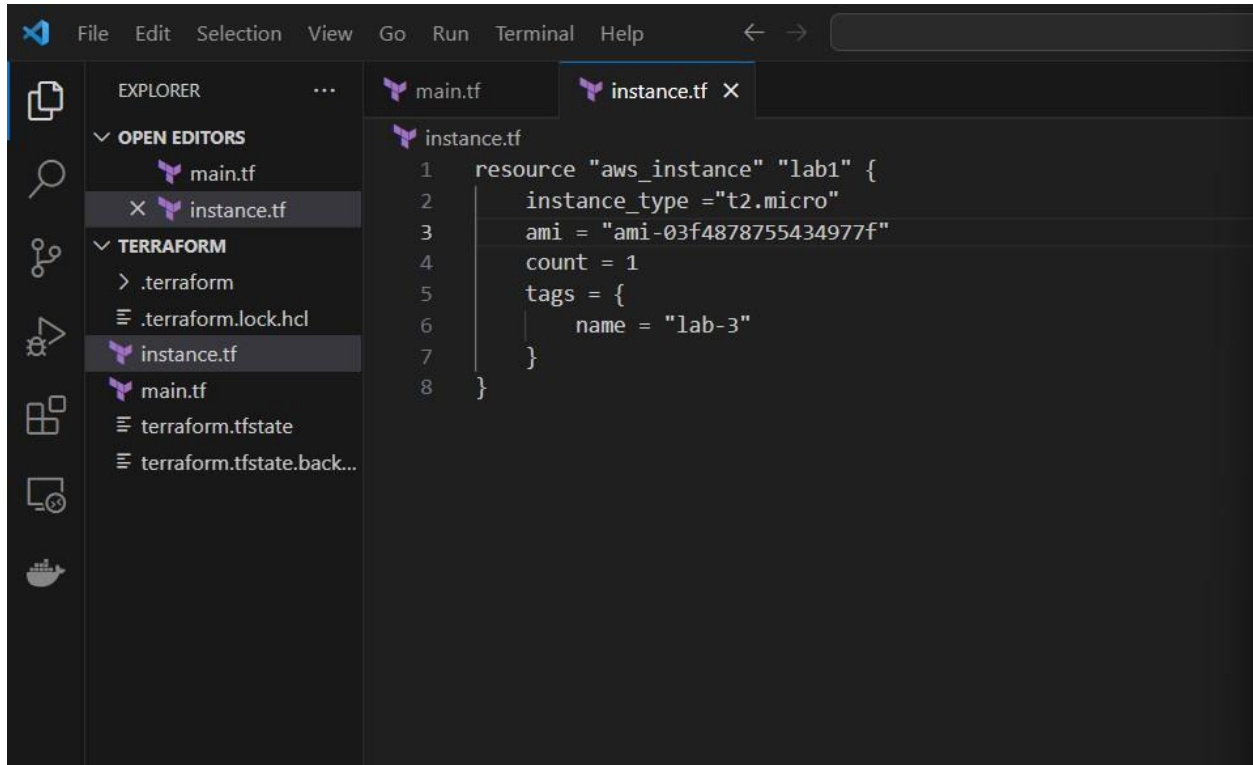


LAB-3

Provisioning on EC2 Instance on AWS

Step 1: Create Terraform configuration file for EC2 instance



Step 2: Review Plan

```
Command Prompt
C:\Users\hp\terraform>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.lab1[0] will be created
+ resource "aws_instance" "lab1" {
  + ami                        = "ami-0d0b75c8c47ed0edf"
  + 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)
  + disable_api_termination    = (known after apply)
  + ebs_optimized              = (known after apply)
  + get_password_data          = false
  + host_id                   = (known after apply)
  + host_resource_group_arn    = (known after apply)
  + iam_instance_profile       = (known after apply)
  + id                         = (known after apply)
  + instance_initiated_shutdown_behavior = (known after apply)
  + instance_lifecycle         = (known after apply)
  + instance_state             = (known after apply)
  + instance_type              = "t2.micro"
  + ipv6_address_count         = (known after apply)
  + ipv6_addresses             = (known after apply)
  + key_name                   = (known after apply)
  + monitoring                 = (known after apply)
  + outpost_arn               = (known after apply)
  + password_data              = (known after apply)
  + placement_group            = (known after apply)
  + placement_partition_number = (known after apply)
  + primary_network_interface_id = (known after apply)
  + private_dns                = (known after apply)
  + private_ip                 = (known after apply)
```

Step 3: Apply changes

```
Command Prompt
guarantee to take exactly these actions if you run "terraform apply" now.

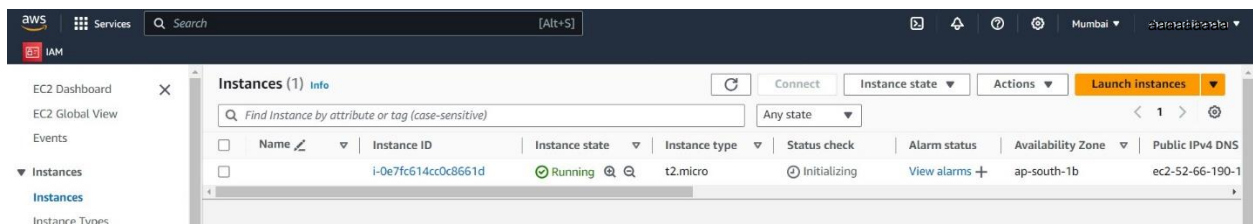
C:\Users\hp\terraform>terraform apply

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.lab1[0] will be created
+ resource "aws_instance" "lab1" {
  + ami               = "ami-03f4878755434977f"
  + 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)
  + disable_api_termination = (known after apply)
  + ebs_optimized      = (known after apply)
  + get_password_data  = false
  + host_id            = (known after apply)
  + host_resource_group_arn = (known after apply)
  + iam_instance_profile = (known after apply)
  + id                = (known after apply)
  + instance_initiated_shutdown_behavior = (known after apply)
  + instance_lifecycle = (known after apply)
  + instance_state     = (known after apply)
  + instance_type      = "t2.micro"
  + ipv6_address_count = (known after apply)
  + ipv6_addresses     = (known after apply)
  + key_name           = (known after apply)
  + monitoring         = (known after apply)
  + outpost_arn        = (known after apply)
  + password_data      = (known after apply)
  + placement_group    = (known after apply)
  + placement_partition_number = (known after apply)
  + primary_network_interface_id = (known after apply)
  + private_dns        = (known after apply)
```

Step 4: Verify Resources



Step 5: Cleanup Resources

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

C:\Users\hp\terraform>terraform destroy
aws_instance.lab1[0]: Refreshing state... [id=i-0e7fc614cc0c8661d]

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.lab1[0] will be destroyed
- resource "aws_instance" "lab1" {
  - ami                               = "ami-03f4878755434977f" -> null
  - arn                               = "arn:aws:ec2:ap-south-1:39969
9660658:instance/i-0e7fc614cc0c8661d" -> null
  - associate_public_ip_address      = true -> null
  - availability_zone                 = "ap-south-1b" -> null
  - cpu_core_count                    = 1 -> null
  - cpu_threads_per_core              = 1 -> null
  - disable_api_stop                  = false -> null
  - disable_api_termination           = false -> null
  - ebs_optimized                     = false -> null
  - get_password_data                 = false -> null
  - hibernation                       = false -> null
  - id                               = "i-0e7fc614cc0c8661d" -> null
  - instance_initiated_shutdown_behavior = "stop" -> null
  - instance_state                    = "running" -> null
  - instance_type                     = "t2.micro" -> null
  - ipv6_address_count                = 0 -> null
  - ipv6_addresses                    = [] -> null
  - monitoring                        = false -> null
  - placement_partition_number        = 0 -> null
  - primary_network_interface_id      = "eni-0bc1cec36fde87bc7" -> null
  - private_dns                       = "ip-172-31-5-18.ap-south-1.co
mpute.internal" -> null
  - private_ip                        = "172.31.5.18" -> null
```

```
Command Prompt

] -> null
- source_dest_check = true -> null
- subnet_id = "subnet-00bdce89f43094758" ->
null
- tags = {
  - "name" = "lab-3"
} -> null
- tags_all = {
  - "name" = "lab-3"
} -> null
- tenancy = "default" -> null
- user_data_replace_on_change = false -> null
- vpc_security_group_ids = [
  - "sg-0a013be3e8908a3e6",
] -> null

- capacity_reservation_specification {
  - capacity_reservation_preference = "open" -> null
}

- cpu_options {
  - core_count = 1 -> null
  - threads_per_core = 1 -> null
}

- credit_specification {
  - cpu_credits = "standard" -> null
}

- enclave_options {
  - enabled = false -> null
}

- maintenance_options {
  - auto_recovery = "default" -> null
}

- metadata_options {
  - http_endpoint = "enabled" -> null
```

