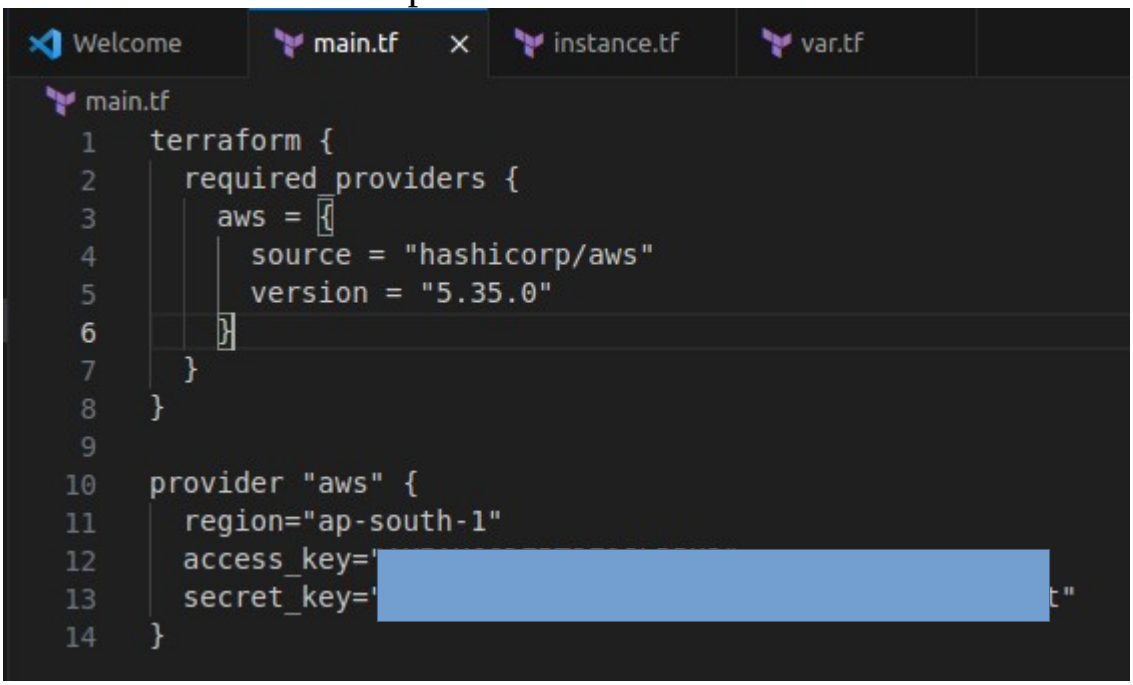
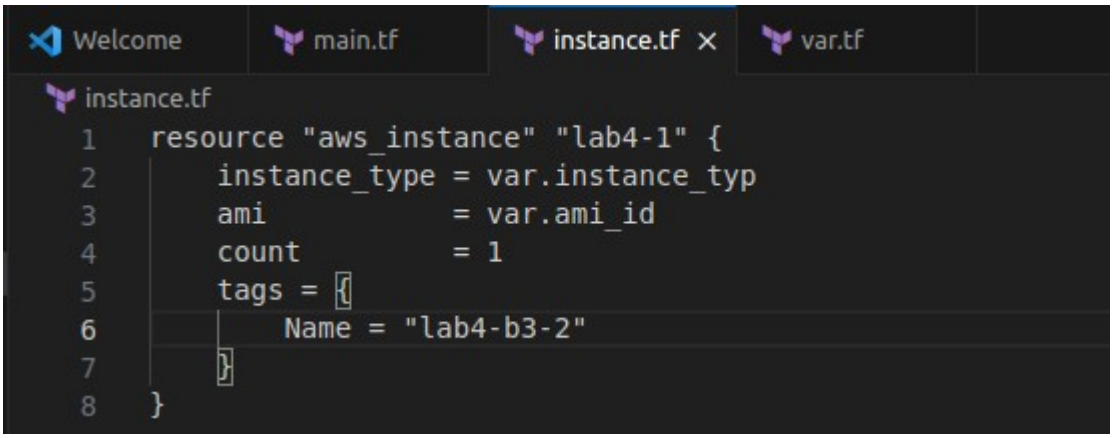
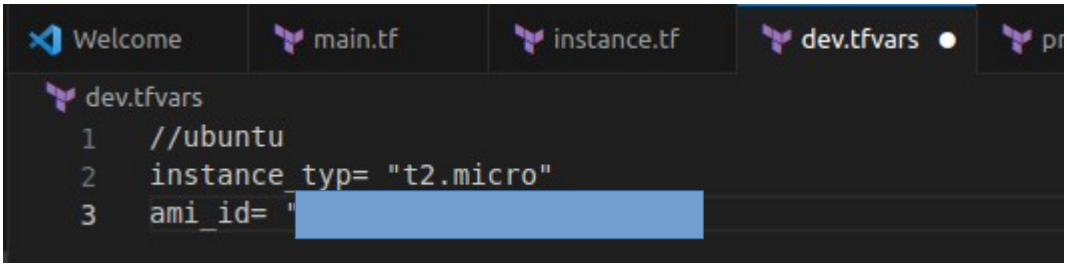
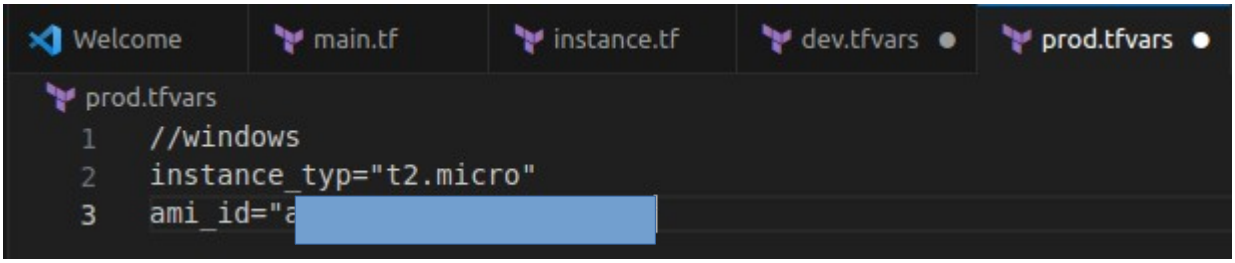
# ***LAB-6***
# ***Terraform Multiple tfvars Files***

**Step 1:** Create dev.tfvars and prod.tfvars

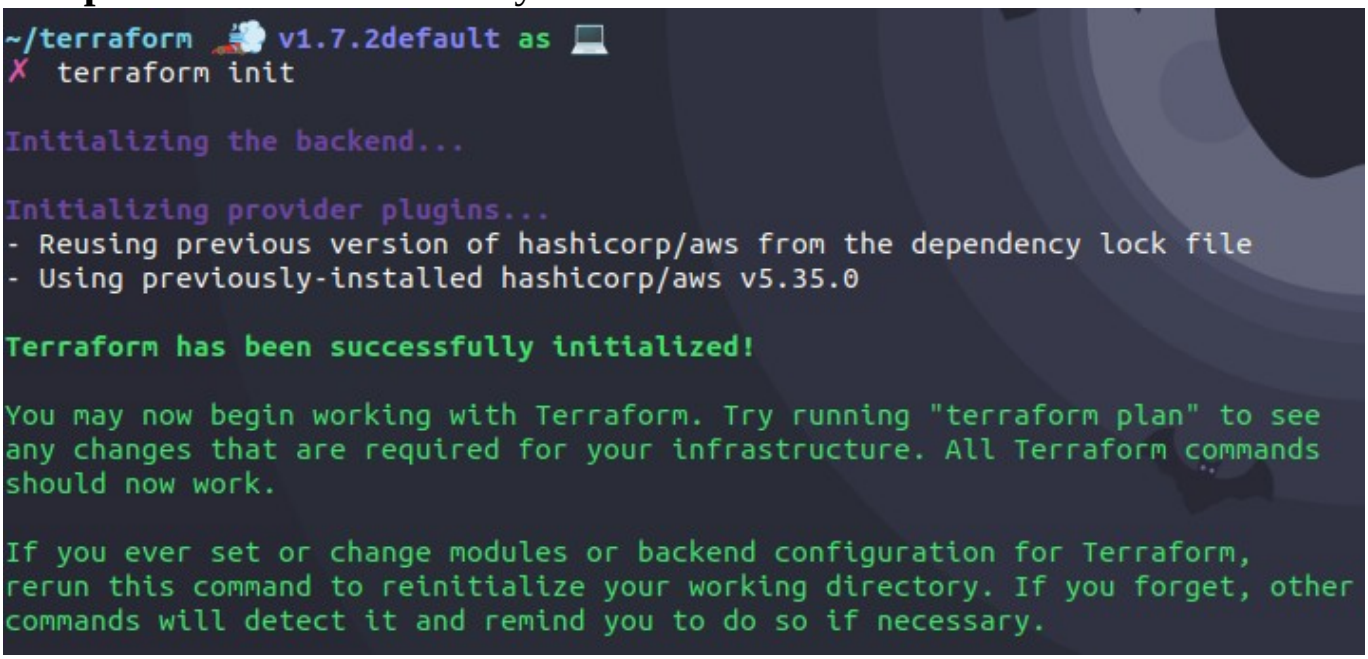





**Step 2:** Now run terraform cycle





**Step 3:** To run terraform plan we need to use -var-file=dev.tfvars or -var-file=prod.tfvars

```
~/terraform  v1.7.2default as 💻
→ terraform plan -var-file=prod.tfvars

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.lab4-1[0] will be created
  + resource "aws_instance" "lab4-1" {
      + ami                                  = "ami-00d59001b2335bdea"
      + 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)
```

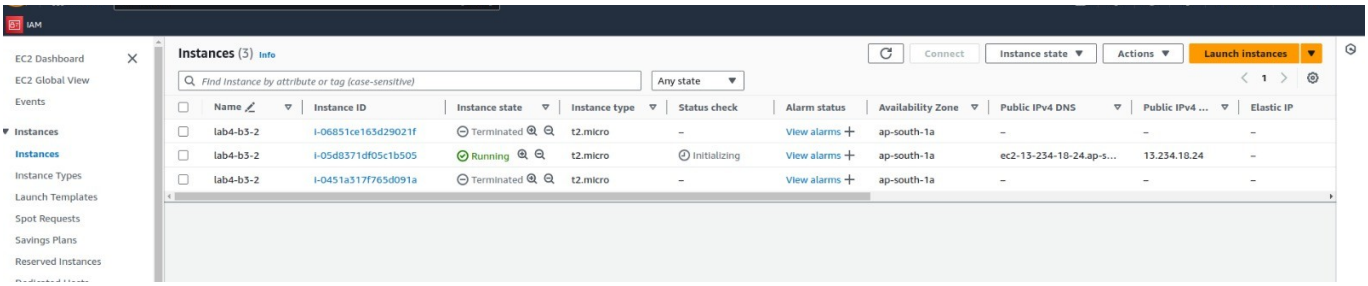
**Step 4:** To run terraform apply and destroy we need to use -var-file=dev.tfvars or -var-file=prod.tfvars

```
~/Documents/SPCM/Terraform  v1.7.1default as 💻 took 5s
💀 21% → terraform plan -var-file=prod.tfvars

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.lab4-1[0] will be created
  + resource "aws_instance" "lab4-1" {
      + ami                                  = "ami-00d59001b2335bdea"
      + 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)
      + public_dns                           = (known after apply)
      + public_ip                            = (known after apply)
      + secondary_private_ips                = (known after apply)
      + security_groups                      = (known after apply)
      + source_dest_check                    = true
      + spot_instance_request_id             = (known after apply)
      + subnet_id                            = (known after apply)
      + tags                                 = {
          + "Name" = "lab4-b3-2"
        }
```

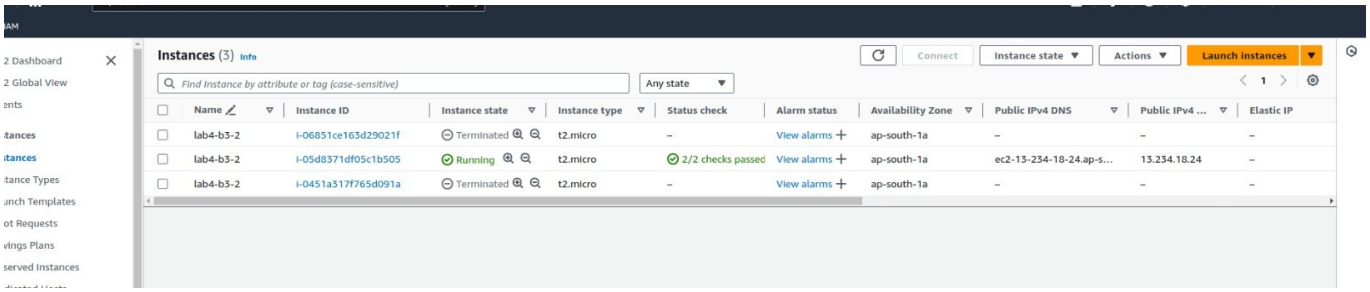


```
~/Documents/SPCM/Terraform  v1.7.1default as 💻 took 37s
⚡ 20% → terraform apply -var-file=prod.tfvars
aws_instance.lab4-1[0]: Refreshing state... [id=i-06851ce163d29021f]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
-/+ destroy and then create replacement

Terraform will perform the following actions:

  # aws_instance.lab4-1[0] must be replaced
-/+ resource "aws_instance" "lab4-1" {
      ~ ami                                  = "ami-03f4878755434977f" -> "ami-00d59001b2335bdea" # forces replacement
      ~ arn                                  = "arn:aws:ec2:ap-south-1:698194348131:instance/i-06851ce163d29021f" -> (known after apply)
      ~ associate_public_ip_address          = true -> (known after apply)
      ~ availability_zone                    = "ap-south-1a" -> (known after apply)
      ~ cpu_core_count                       = 1 -> (known after apply)
      ~ cpu_threads_per_core                 = 1 -> (known after apply)
      ~ disable_api_stop                     = false -> (known after apply)
      ~ disable_api_termination              = false -> (known after apply)
      ~ ebs_optimized                        = false -> (known after apply)
      - hibernation                          = false -> null
      + host_id                              = (known after apply)
      + host_resource_group_arn              = (known after apply)
      + iam_instance_profile                 = (known after apply)
      ~ id                                   = "i-06851ce163d29021f" -> (known after apply)
      ~ instance_initiated_shutdown_behavior = "stop" -> (known after apply)
      + instance_lifecycle                   = (known after apply)
      ~ instance_state                       = "running" -> (known after apply)
      ~ ipv6_address_count                   = 0 -> (known after apply)
      ~ ipv6_addresses                       = [] -> (known after apply)
      + key_name                             = (known after apply)
      ~ monitoring                           = false -> (known after apply)
      + outpost_arn                          = (known after apply)
      + password_data                        = (known after apply)
      + placement_group                      = (known after apply)
      ~ placement_partition_number           = 0 -> (known after apply)
      ~ primary_network_interface_id         = "eni-0c81b3fd4d3d22579" -> (known after apply)
      ~ private_dns                          = "ip-172-31-42-61.ap-south-1.compute.internal" -> (known after apply)
      ~ private_ip                           = "172.31.42.61" -> (known after apply)
      ~ public_dns                           = "ec2-35-154-246-64.ap-south-1.compute.amazonaws.com" -> (known after apply)
      ~ public_ip                            = "35.154.246.64" -> (known after apply)
      ~ secondary_private_ips                = [] -> (known after apply)
      ~ security_groups                      = [
          - "default",
        ] -> (known after apply)
      + spot_instance_request_id             = (known after apply)
      ~ subnet_id                            = "subnet-0d78b64e981bd0f9d" -> (known after apply)
```

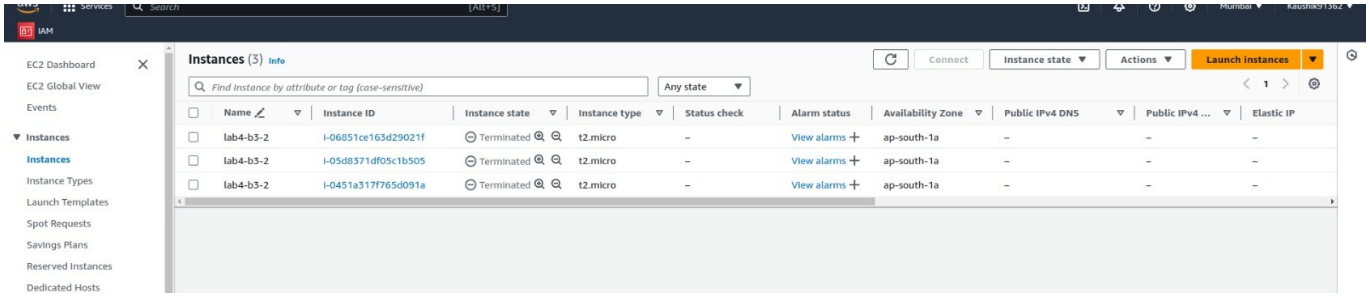



```
~/Documents/SPCM/Terraform  v1.7.1default as 💻 took 1m23s
⚡ 26% → terraform destroy -var-file=prod.tfvars
aws_instance.lab4-1[0]: Refreshing state... [id=i-05d8371df05c1b505]

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.lab4-1[0] will be destroyed
  - resource "aws_instance" "lab4-1" {
      - ami                                  = "ami-00d59001b2335bdea" -> null
      - arn                                  = "arn:aws:ec2:ap-south-1:698194348131:instance/i-05d8371df05c1b505" -> null
      - associate_public_ip_address          = true -> null
      - availability_zone                    = "ap-south-1a" -> 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-05d8371df05c1b505" -> 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-01f6f383650a264df" -> null
```




**When we run terraform apply -var-file=prod.tfvars previously created terraform apply -var-file=dev.tfvars automatically destroy.**