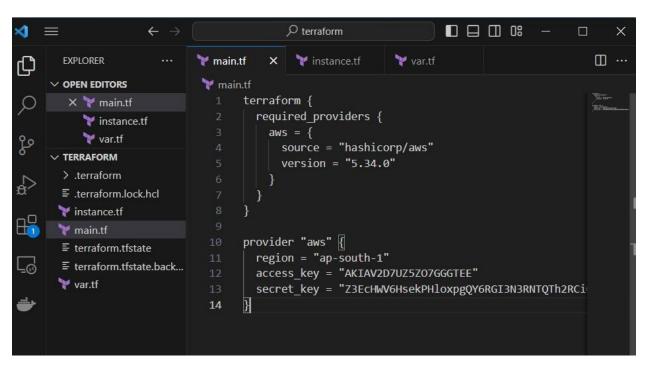
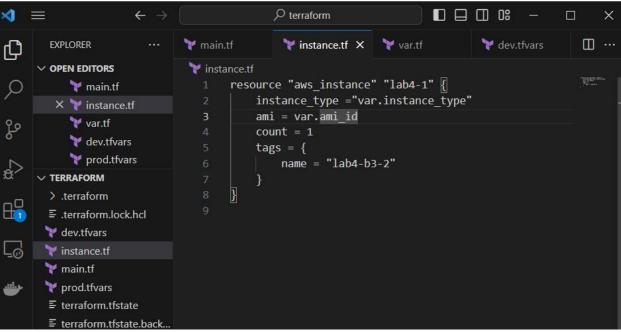
## LAB-6

## **Terraform Multiple tfvars Files**

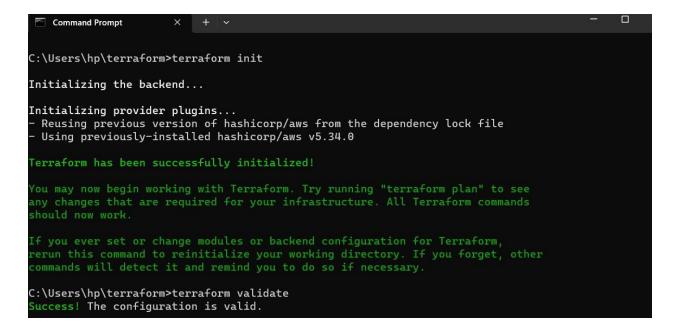
Step 1: Create dev.tfvars and prod.tfvars







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

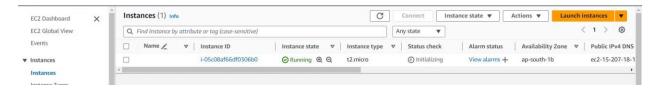
```
C:\Users\hp\terraform>terraform plan -var-file=dev.tfvars
Terraform used the selected providers to generate the following execution plan. Resource
actions are indicated with the following symbols:
  + create
Terraform will perform the following actions:
  # aws_instance.lab1[0] will be created
  + resource "aws_instance" "lab1" {
     + ami
                                             = "ami-03f4878755434977f"
     + arn
                                             = (known after apply)
                                            = (known after apply)
     + associate_public_ip_address
                                            = (known after apply)
     + availability_zone
                                            = (known after apply)
= (known after apply)
     + cpu_core_count
     + cpu_threads_per_core
     + disable_api_stop
                                            = (known after apply)
                                            = (known after apply)
     + disable_api_termination
     + ebs_optimized
                                            = (known after apply)
                                            = false
     + get_password_data
                                            = (known after apply)
     + host_id
     + host_resource_group_arn
                                            = (known after apply)
                                            = (known after apply)
     + iam_instance_profile
     + id
                                            = (known after apply)
     + instance_initiated_shutdown_behavior = (known after apply)
                                            = (known after apply)
     + instance_lifecycle
                                             = (known after apply)
     + instance_state
                                             = "t2.micro"
     + instance_type
     + ipv6_address_count
                                             = (known after apply)
```

```
Note: You didn't use the -out option to save this plan, so Terraform can't g
uarantee to take
exactly these actions if you run "terraform apply" now.
C:\Users\hp\terraform>terraform plan -var-file=prod.tfvars
var.instance_type
  Enter a value: t2.micro
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"
                                             = (known after apply)
      + arn
      + associate_public_ip_address
                                             = (known after apply)
      + availability_zone
                                             = (known after apply)
                                             = (known after apply)
      + cpu_core_count
                                             = (known after apply)
      + cpu_threads_per_core
      + 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)
                                             = (known after apply)
      + instance_initiated_shutdown_behavior = (known after apply)
                                             = (known after apply)
      + instance_lifecycle
                                             = (known after apply)
      + instance_state
      + instance_type
                                             = "t2.micro"
      + ipv6_address_count
                                             = (known after apply)
                                             = (known after apply)
      + ipv6_addresses
      + key_name
                                             = (known after apply)
```

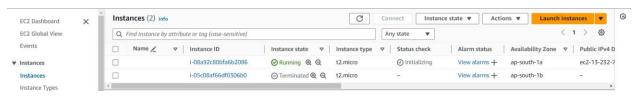
Step 4: To run terraform apply and destroy we need to use -var-file=dev.tfvars or -var-file=prod.tfvars

```
C:\Users\hp\terraform>terraform apply -var-file=dev.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.lab1[0] will be created
  + resource "aws_instance" "lab1" {
                                             = "ami-03f4878755434977f"
      + ami
                                             = (known after apply)
     + arn
                                            = (known after apply)
      + associate_public_ip_address
                                            = (known after apply)
      + availability_zone
     + 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)
                                            = (known after apply)
      + iam_instance_profile
                                            = (known after apply)
     + id
     + instance_initiated_shutdown_behavior = (known after apply)
                                             = (known after apply)
      + instance_lifecycle
      + instance_state
                                             = (known after apply)
     + instance_type
                                             = "t2.micro"
      + ipv6_address_count
                                             = (known after apply)
      + ipv6_addresses
                                            = (known after apply)
                                             = (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
      + primary_network_interface_id
                                          = (known after apply)
      + private_dns
                                            = (known after apply)
```

```
+ private_dns
                                             = (known after apply)
                                             = (known after apply)
      + private_ip
      + 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"
                                             = {
      + tags_all
         + "name" = "lab4-b3"
      + tenancy
                                              = (known after apply)
      + user_data
                                             = (known after apply)
      + user_data_base64
                                             = (known after apply)
     + user_data_replace_on_change
                                             = false
      + vpc_security_group_ids
                                             = (known after apply)
    ļ
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.lab1[0]: Creating...
aws_instance.lab1[0]: Still creating... [10s elapsed]
aws_instance.lab1[0]: Still creating... [20s elapsed]
aws_instance.lab1[0]: Still creating... [30s elapsed]
aws_instance.lab1[0]: Creation complete after 32s [id=i-05c08af66df0306b0]
Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
```



```
Command Prompt
  Enter a value: t2.micro
aws_instance.lab1[0]: Refreshing state... [id=i-08a92c80bfa6b2086]
Terraform used the selected providers to generate the following execution
plan. Resource actions are indicated with the following symbols:
  update in-place
Terraform will perform the following actions:
  # aws_instance.lab1[0] will be updated in-place
  ~ resource "aws_instance" "lab1" {
                                                = "i-08a92c80bfa6b2086"
        id
      ~ tags
          ~ "name" = "lab4-b3" -> "lab4-2"
      tags_all
                                                = {
          ~ "name" = "lab4-b3" -> "lab4-2"
Plan: 0 to add, 1 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.lab1[0]: Modifying... [id=i-08a92c80bfa6b2086]
aws_instance.lab1[0]: Modifications complete after 2s [id=i-08a92c80bfa6b2086]
Apply complete! Resources: 0 added, 1 changed, 0 destroyed.
C:\Users\hp\terraform>
```



```
C:\Users\hp\terraform>terraform destroy -var-file=prod.tfvars
var.instance_type
Enter a value: t2.micro
aws_instance.lab1[0]: Refreshing state... [id=i-08a92c80bfa6b2086]
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
Terraform will perform the following actions:
  # aws_instance.lab1[0] will be destroyed
- resource "aws_instance" "lab1" {
                                                               = "ami-03f4878755434977f" -> null
           ami
           arn
                                                               = "arn:aws:ec2:ap-south-1:399699660658:instance/i-08a92c80bfa6b2086" -> null
           associate_public_ip_address
                                                                  true -> nul
                                                                  "ap-south-1a" -> null
           availability_zone
cpu_core_count
                                                               = 1 -> null
= 1 -> null
          cpu_core_count
cpu_threads_per_core
disable_api_stop
disable_api_termination
ebs_optimized
get_password_data
hibernation
id
                                                               = false -> null
= false -> null
                                                                  false -> null
                                                                  false -> null
"i-08a92c80bfa6b2086" -> null
                                                                  "stop" -> null
"running" -> null
"t2.micro" -> null
           instance_initiated_shutdown_behavior = "stop"
           instance_state
           instance_type
ipv6_address_count
           ipv6 addresses
           monitoring
                                                                  0 -> nutl

"eni-0060317afe2cf7a2d" -> null

"ip-172-31-43-243.ap-south-1.compute.internal" -> null

"172.31.43.243" -> null

"ec2-13-232-76-4.ap-south-1.compute.amazonaws.com" -> null
           placement_partition_number
           primary_network_interface_id
           private_dns
           private_ip
public_dns
                                                                  "13.232.76.4"
[] -> null
           public_ip
            secondary_private_ips
           security_groups
```

```
= "disabled" -> null
                      instance_metadata_tags
               }
               private_dns_name_options {
                     enable_resource_name_dns_a_record = false -> null
enable_resource_name_dns_aaaa_record = false -> null
                                                                                        = "ip-name"
                      hostname_type
               root_block_device {
                      delete_on_termination = true -> null
                                                        = "/dev/sda1" -> null
= false -> null
                      device_name
                      encrypted
                                                             = 100 -> null
                      iops
                                                             = {} -> null
                      tags
                      throughput
                      volume_id
                                                             = "vol-0c4b460e119503361" -> null
                                                            = 8 -> null
= "gp2" -> null
                      volume_size
                      volume_type
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.lab1[0]: Destroying... [id=i-08a92c80bfa6b2086]
aws_instance.lab1[0]: Still destroying... [id=i-08a92c80bfa6b2086, 10s elapsed]
aws_instance.lab1[0]: Still destroying... [id=i-08a92c80bfa6b2086, 20s elapsed]
aws_instance.lab1[0]: Still destroying... [id=i-08a92c80bfa6b2086, 30s elapsed]
aws_instance.lab1[0]: Still destroying... [id=i-08a92c80bfa6b2086, 40s elapsed]
aws_instance.lab1[0]: Destruction complete after 41s
 Destroy complete! Resources: 1 destroyed.
C:\Users\hp\terraform>
```

