<u>LAB-6</u> <u>Terraform Multiple tfvars Files</u>

Step 1: Create dev.tfvars and prod.tfvars

```
main.tf
               instance.tf
                               yar.tf
🦖 main.tf > 😭 provider "aws"
       terraform {
         required providers {
   3
           aws = {
              source = "hashicorp/aws"
              version = "5.32.1"
   5
   6
   7
  8
       provider"aws"{
  9
           region = "ap-south-1"
 10
           access key = "
 11
           secret key = "
 12
 13
                instance.tf ×
main.tf
                                var.tf
                                                prod.tfvars
                                                                 dev.tfvars
 🦖 instance.tf > 😭 resource "aws_instance" "lab4-1" > 긂 tags > 🖭 Name
        resource"aws_instance" "lab4-1"{
   1
            instance_type = var.instance_typ
   2
            ami = var.ami id
   3
            count = 1
   4
   5
            tags = {
                 Name = "lab4-b3-2"
   6
   7
                                                prod.tfvars
main.tf
                instance.tf
                                 var.tf
                                                                 dev.tfvars X
 y dev.tfvars > 🖭 ami_id
        instance_typ = "t2.micro"
   1
        ami id = "
   2
```

```
main.tf instance.tf var.tf dev.tfvars ×

dev.tfvars > main_id

instance_typ = "t2.micro"

ami_id = "

ami_id = "
```

Step 2: Now run terraform cycle

```
Initializing the backend...

Initializing provider plugins...

Reusing previous version of hashicorp/aws from the dependency lock file

Using previously-installed hashicorp/aws v5.32.1

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.

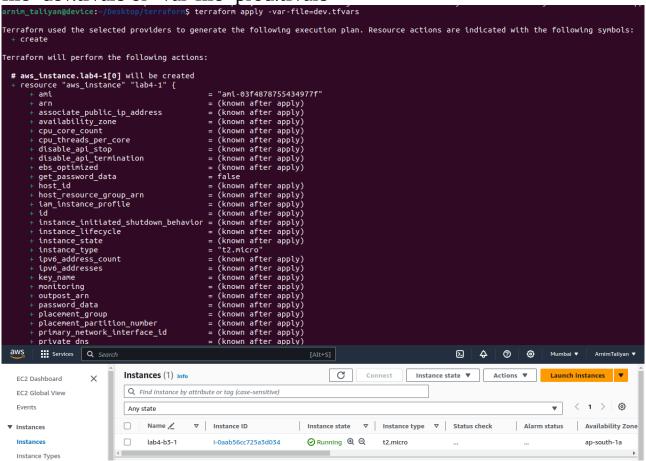
If you ever set or change modules or backend configuration for Terraform, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.

arnim_taliyan@device:~/Desktop/terraform$ terraform validate
Success! The configuration is valid.
```

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

```
ornim_taliyan@device:-/Desktop/terraform$ terraform plan -var-file=prod.tfvars
ows_instance.lab4-1[0]: Refreshing state... [id=i-0aab56cc725a3d034]
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
/+ resource "aws_instance" "lab4-:
                                                                                                            = "ami-03f4878755434977f" -> "ami-05a5bb48beb785bf1"
                                                                                                          = "amt-03f4878755434977f" -> "amt-05a5bb48beb785bf1" # forces replacement
= "arn:aws:ec2:ap-south-1:53326967718:instance/i-0aab56cc725a3d034" -> (known after apply)
= true -> (known after apply)
= "ap-south-1a" -> (known after apply)
= 1 -> (known after apply)
= false -> (known after apply)
                  associate_public_ip_address
availability_zone
cpu_core_count
                 cpu_threads_per_core
disable_api_stop
disable_api_termination
ebs_optimized
                 hibernation
host_id
host_resource_group_arn
iam_instance_profile
                                                                                                                 false
                                                                                                                  (known after apply)
                                                                                                                (known after apply)
(known after apply)
(known after apply)
(known after apply)
"i-0aab56cc725a3d034" -> (known after apply)
"stop" -> (known after apply)
"running" -> (known after apply)
0 -> (known after apply)
[] -> (known after apply)
false -> (known after apply)
                  instance_initiated_shutdown_behavior = instance_lifecycle = instance_state = ipv6_address_count = ipv6_addresses = 
             + key_name ~ monitoring
                 outpost_arn
password_data
                                                                                                                 (known after apply)
0 -> (known after apply)
"eni-0a551d62455cf7a55"
                  placement_group
placement_partition_number
                  primary_network_interface_id
private_dns
                                                                                                            = "eni-0a551d62455cf7a55" -> (known after apply)
= "ip-172-31-41-163.ap-south-1.compute.internal" -> (known after apply)
```

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



```
arnim_tallyan@device:~/Desktop/terraforr$ terraform apply -var-file=prod.tfvars
aws_instance.lab4-1[0]: Refreshing state... [id=i-0aab56cc725a3d034]
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 repl
/+ resource "aws_instance" "lab4-1" {
                                                                                  = "ami-03f4878755434977f" -> "ami-05a5bb48beb785bf1" # forces replacement
= "arn:aws:ec2:ap-south-1:533266967718:instance/i-0aab56cc725a3d034" -> (known after apply)
            ami
              arn
             arn
associate_public_ip_address
availability_zone
cpu_core_count
cpu_threads_per_core
disable_api_stop
disable_api_termination
ebs_optimized
hibernation
bost id
                                                                                  = true -> (known after apply)
= "ap-south-1a" -> (known after apply)
= 1 -> (known after apply)
= 1 -> (known after apply)
                                                                                      false -> (known after apply)
false -> (known after apply)
false -> (known after apply)
false -> null
                                                                                      (known after apply)
(known after apply)
(known after apply)
(known after apply)
"i-0aab5cc/725abd54" -> (known after apply)
"i-0aab5cc/725abd54
             host_id
host_resource_group_arn
iam_instance_profile
                                                                                      "i-0aab56cc725a3d034" -> (known a

"stop" -> (known after apply)

(known after apply)

"running" -> (known after apply)

0 -> (known after apply)

(known after apply)

false -> (known after apply)

(known after apply)

(known after apply)

(known after apply)
              key_name
monitoring
             outpost_arn
password_data
                                                                                      (known after apply)
0 -> (known after apply)
"eni-0a551d62455cf7a55"
             placement_group
placement_partition_number
              primary_network_interface_id
private_dns
                                                                                  = "eni-0a551d62455cf7a55" -> (known after apply)
= "ip-172-31-41-163.ap-south-1.compute.internal"
                                                                                                                                                                             -> (known after apply)
  aws
              Services Q Search

                                                                                                                                                                                                        @

    Mumbai ▼ ArnimTaliyan ▼

                                                                                                                                                                                     Σ
                                                                                                                                                              Instance state ▼ Actions ▼ Launch instances ▼
                                                Instances (2) Info
     EC2 Dashboard
                                                 Q Find Instance by attribute or taa (case-sensitive)
     FC2 Global View
                                                                                                                                                                                                                     ▼ < 1 > ⊚
                                                 Any state
                                                                                                                 Instance state 

▼ Instance type 
▼ Status check 
 Alarm status Availability
                                               Name ∠ ∇ Instance ID
     Instances
                                                     lab4-b3-2
                                                                                   i-0a206e4fd9ce7bb26

⊗ Running ⊕ ⊖

                                                                                                                                                                                                                 View alarms +
    Instance Types
                                                                                                                          ⊝ Terminated ⊕ Q t2.micro
                                                                                   i-0aab56cc725a3d034
                                         4
    Launch Templates
    . . .
ornim_taliyan@device:-/Desktop/terraform$ terraform destroy -var-file=prod.tfvars
ows_instance.lab4-1[0]: Refreshing state... [id=i-0a206e4fd9ce7bb26]
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.lab4-1[0] will be dest
- resource "aws_instance" "lab4-1" {
      resource
- ami
                                                                                      "ami-05a5bb48beb785bf1" -> null
"arn:aws:ec2:ap-south-1:533266967718:instance/i-0a206e4fd9ce7bb26" -> null
              arn
             arn
associate_public_ip_address
availability_zone
cpu_core_count
cpu_threads_per_core
disable_api_stop
disable_api_termination
ebs_optimized
est_password_data
                                                                                       "ap-south-1a" -> null
                                                                                      false
              get_password_data
hibernation
                                                                                      false
                                                                                        'i-0a206e4fd9ce7bb26" -> null
                                                                                      "stop" -> null
"running" -> null
"t2.micro" -> null
              instance_initiated_shutdown_behavior =
             instance_state
instance_type
ipv6_address_count
ipv6_addresses
monitoring
                                                                                 = 0
= [] ->
= false
0 ->
                                                                                  = 1 a 3.5

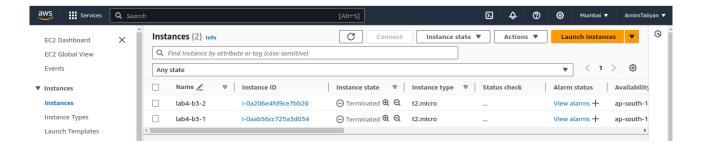
= 0 -> null

= "eni-0fcdbabc3cf17a8d8" -> null

= "tp-172-31-33-94.ap-south-1.compute.internal" -> null

= "172.31.33.94" -> null

" -2 -13 -233-216-184.ap-south-1.compute.amazonaws.com"
             placement_partition_number
primary_network_interface_id
private_dns
private_ip
             private_tp
public_dns
public_ip
secondary_private_ips
security_groups
    "default",
                                                                                     172.31-33.94 -> note rec2-13-233-216.184 ap-south-1.compute.amazonaws.com" -> null "13.233.216.184" -> null
                                                                                  = []
= [
```



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