<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
         terraform {
           required providers {
             aws = {
               source = "hashicorp/aws"
               version = "5.35.0"
    10 provider "aws" {
           region ="ap-south-1"
           access key =
          secret key =
    14
main.tf
              instance.tf
                             yar.tf
                                            dev.tfvars
                                                           prod.tfvars
  instance.tf
        resource "aws instance" "lab4-1"{
            instance type= var.instance typ
            ami = var.ami id
            count =1
             tags= {
                 Name = "lab4-b3-2"
    6
main.tf
              instance.tf • var.tf
                                            y dev.tfvars ×
                                                           prod.tfvars
  dev.tfvars
        //ubuntu
         instance typ= "t2.micro"
        ami id= "ami-03f4878755434977f"
```

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

//windows
instance_typ= "t2.micro"
ami_id= "ami-00d59001b2335bdea"
```

Step 2: Now run terraform cycle

```
~/Documents/SPCM/Terraform  v1.7.1default as □
22% → terraform init

Initializing the backend...

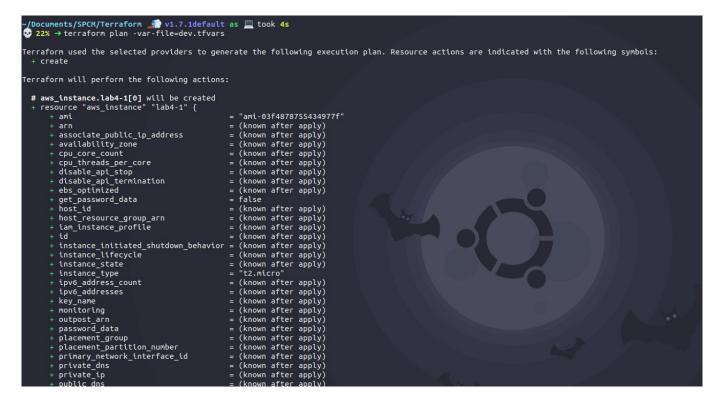
Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v5.35.0

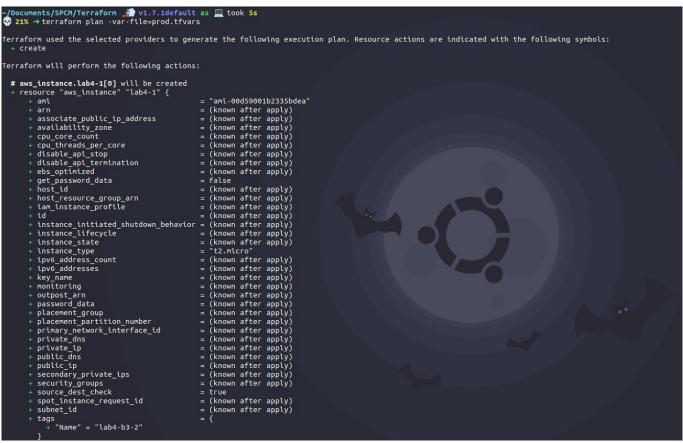
Terraform has been successfully initialized!

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.

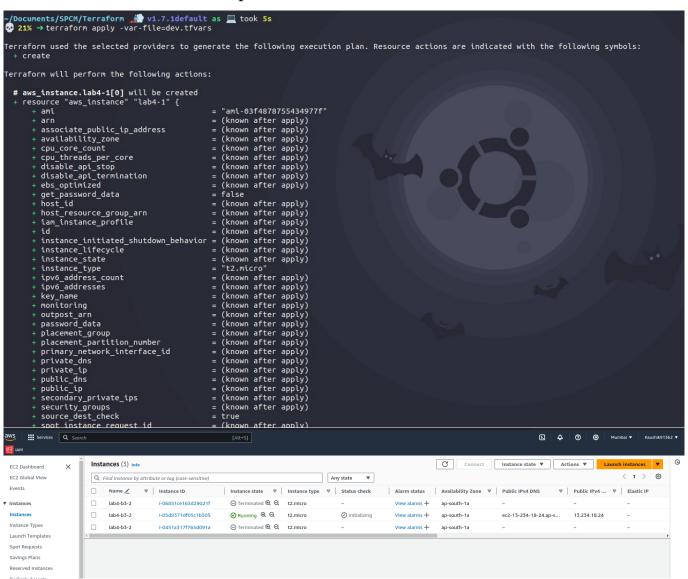
If you ever set or change modules or backend configuration for Terraform, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.
```

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



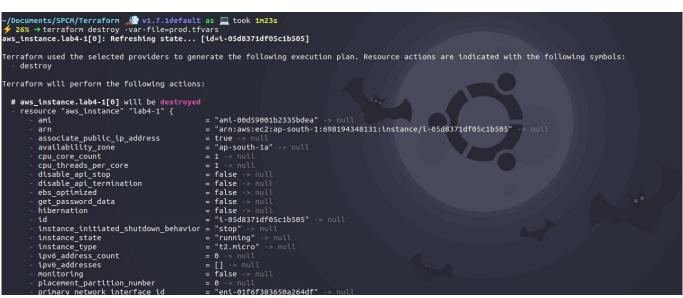


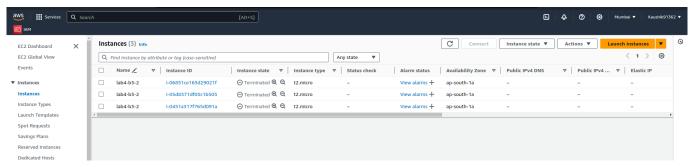
Step 4: To run terraform apply and destroy we need to use -var-file=dev.tfvars or -var-file=prod.tfvars



```
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-03f4878755434977f" -> "ami-00d59001b2335bdea" # forces replacement
= "arn:aws:ec2:ap-south-1:698194348131:instance/i-06851ce163d29021f" -> (known after apply)
= true -> (known after apply)
= "ap-south-1a" -> (known after apply)
= 1 -> (known after apply)
= false -> (known after apply)
              ~ ami
~ ace
              arn
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_essurce_group_acp
                                                                                                               Talse -> NULL
(known after apply)
(known after apply)
(known after apply)
"i-06851ce163d29021f" -> (known after apply)
                   host_resource_group_arn iam_instance_profile
                                                                                                             (known after apply)
"i-68851ce163d29921f" -> (known after apply)
"Stop" -> (known after apply)
(known after apply)
"running" -> (known after apply)
(left) -> (known after apply)
(eleft) -> (known after apply)
"ip-172-31-42-61.ap-south-1.compute.internal" -> (known after apply)
"ec2-35-154-246-64.ap-south-1.compute.amazonaws.com" -> (known after apply)
"ssc.154.246.64" -> (known after apply)
("35.154.246.64" -> (known after apply)
[] -> (known after apply)
                  id
instance_initiated_shutdown_behavior
instance_lifecycle
instance_state
ipv6_address_count
ipv6_addresses
key_name
monitoring
outnost_arm
                  outpost_arn
password_data
placement_group
placement_partition_number
primary_network_interface_id
private_dns
                   private_ip
public_dns
                  public_ip
secondary_private_ips
security_groups
- "default",
] -> (known after apply)
spot_instance_request_id
                                                                                                          = (known after apply)
= "subnet-0d78b64e981bd0f9d" -> (known after apply)
                   subnet id
      Services Q Search
                                                                                                                                                                                                                                                                                          Instances (3) Info
                                                                                                                                                                                                                                  C Connect Instance state ▼ Actions ▼ Launch instances ▼
2 Dashboard
                                        Q Find Instance by attribute or tag (case-sensitive)
                                                                                                                                                               Any state ▼
                                                                                                        Alarm status Availability Zone 

✓ Public IPv4 DNS
                                                                                                                                                                                                                                                                                                     ▽ Public IPv4 ... ▽ Elastic IP
                                        Name ∠ ∇ Instance ID
                                                                                                                ⊝ Terminated @ Q t2.micro
                                               lab4-b3-2
                                                                            I-06851ce163d29021f
                                                                                                                                                                                                            View alarms + ap-south-1a
                                                                                                                  ⊘ Running ⊕ ⊖ t2.micro
tances
                                                lab4-b3-2
                                                                            I-05d8371df05c1b505
                                                                                                                                                                               Ø 2/2 checks passed View alarms + ap-south-1a
                                                                                                                                                                                                                                                                      ec2-13-234-18-24.ap-s...
                                                                                                                                                                                                                                                                                                            13.234.18.24
                                                 lab4-b3-2
                                                                            L0451a317f765d091a
                                                                                                                   ⊕ Terminated ⊕ ⊕ t2 micro
                                                                                                                                                                                                                                     ap-south-1a
served Instances
```





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