# Lab Exercise 6– Terraform Multiple tfvars Files


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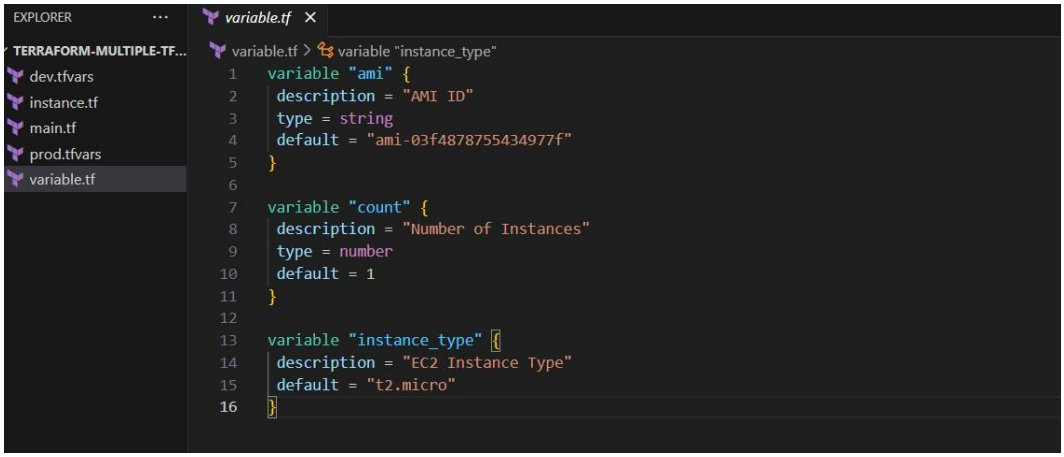
## B. Tech. CSE-DevOps – B1, 6th SEM

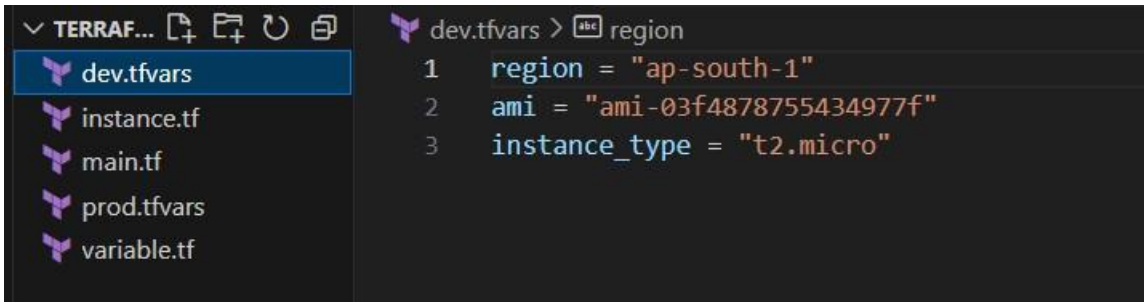

1. Create Terraform Configuration Files:



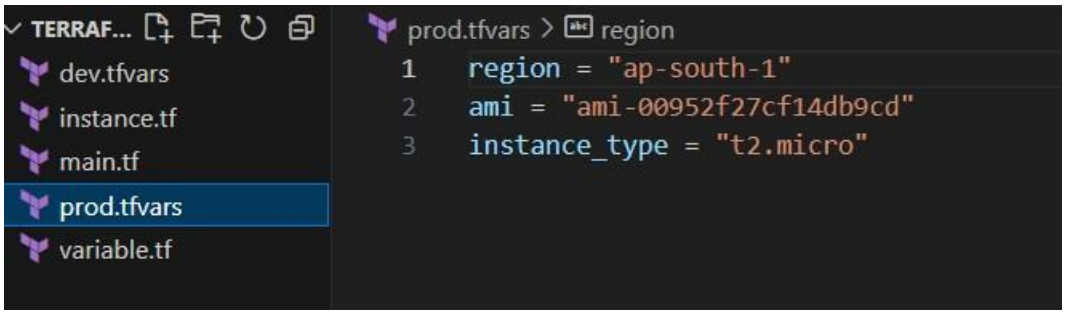


2. Create Multiple tfvars Files:

• Create a file named dev.tfvars:




• Create a file named prod.tfvars:



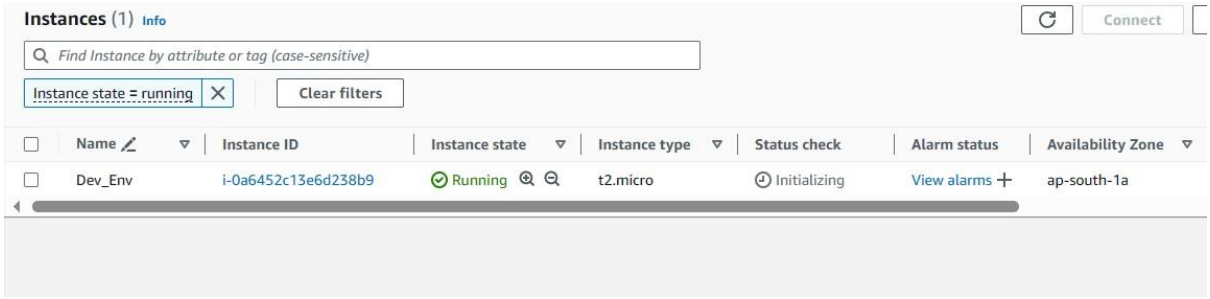

3. Initialize and Apply for Dev Environment:

Run the following Terraform commands to initialize and apply the configuration for the dev environment:

terraform apply -var-file=”dev.tfvars”

```
PS D:\DevOps\LAB\SPCM\TERRAFORM-SCRIPTS\TERRAFORM-MULTIPLE-TFVARS> terraform apply -var-file="dev.tfvars" -auto-approve

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.UPES will be created
  + resource "aws_instance" "UPES" {
      + 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)
      + 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)
```

```
      }
    + 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)
  }

Plan: 1 to add, 0 to change, 0 to destroy.
aws_instance.UPES: Creating...
aws_instance.UPES: Still creating... [10s elapsed]
aws_instance.UPES: Still creating... [20s elapsed]
aws_instance.UPES: Still creating... [30s elapsed]
aws_instance.UPES: Creation complete after 32s [id=i-0a6452c13e6d238b9]

Warning: Value for undeclared variable

The root module does not declare a variable named "region" but a value was found in file "dev.tfvars". If you meant to use this value, add a "variable" block to the
configuration.

To silence these warnings, use TF_VAR_... environment variables to provide certain "global" settings to all configurations in your organization. To reduce the verbosity of
these warnings, use the -compact-warnings option.

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
PS D:\DevOps\LAB\SPCM\TERRAFORM-SCRIPTS\TERRAFORM-MULTIPLE-TFVARS>
```




4. Initialize and Apply for Prod Environment:

• Run the following Terraform commands to initialize and apply the configuration

for the prod environment:

terraform apply -var-file=”prod.tfvars”

```
PS D:\DevOps\LAB\SPCM\TERRAFORM-SCRIPTS\TERRAFORM-MULTIPLE-TFVARS> terraform apply -var-file="prod.tfvars" -auto-approve
aws_instance.UPES: Refreshing state... [id=i-0a6452c13e6d238b9]

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.UPES must be replaced
-/+ resource "aws_instance" "UPES" {
      ~ ami                                  = "ami-03f4878755434977f" -> "ami-00952f27cf14db9cd" # forces replacement
      ~ arn                                  = "arn:aws:ec2:ap-south-1:241367251936:instance/i-0a6452c13e6d238b9" -> (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-0a6452c13e6d238b9" -> (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-03ed757dd4154b23f" -> (known after apply)
      ~ private_dns                          = "ip-172-31-37-17.ap-south-1.compute.internal" -> (known after apply)
      ~ private_ip                           = "172.31.37.17" -> (known after apply)
```

```
Plan: 1 to add, 0 to change, 1 to destroy.
aws_instance.UPES: Destroying... [id=i-0a6452c13e6d238b9]
aws_instance.UPES: Still destroying... [id=i-0a6452c13e6d238b9, 10s elapsed]
aws_instance.UPES: Still destroying... [id=i-0a6452c13e6d238b9, 20s elapsed]
aws_instance.UPES: Still destroying... [id=i-0a6452c13e6d238b9, 30s elapsed]
aws_instance.UPES: Still destroying... [id=i-0a6452c13e6d238b9, 40s elapsed]
aws_instance.UPES: Destruction complete after 41s
aws_instance.UPES: Creating...
aws_instance.UPES: Still creating... [10s elapsed]
aws_instance.UPES: Still creating... [20s elapsed]
aws_instance.UPES: Still creating... [30s elapsed]
aws_instance.UPES: Creation complete after 31s [id=i-0045b4985665c1910]

Warning: Value for undeclared variable

The root module does not declare a variable named "region" but a value was found in file "prod.tfvars". If you meant to use this value, add a "variable" block to the
configuration.

To silence these warnings, use TF_VAR_... environment variables to provide certain "global" settings to all configurations in your organization. To reduce the verbosity of
these warnings, use the -compact-warnings option.


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