### Lab Exercise 8- Terraform Mul

### **Objective:**

Learn how to use multiple thvars files in Terrafor

### **Prerequisites:**

- Terraform installed on your machine.
- Basic knowledge of Terraform configuration

# Steps:

### 1. Create a Terraform Directory

mkdir terraform-multiple-tfvars cd terraform-multiple-tfvars

- Create Terraform Configuration Files:
- Create a file named main.tf:

#### # main.tf

```
provider "aws" {
  region = var.region
}

resource "aws_instance" "example" {
  ami = var.ami
  instance_type = var.instance_type
}
```

Create a file named variables.tf:

# variables.tf

```
variable "ami" {
  type = string
}

variable "instance_ty" {
  type = string
}
```

```
(base) → terraform-multiple-tfva
variable "ami" {
    type = string
variable "instance_type" {
    type = string
variable "region" {
  type = string
base) → terraform-multiple-tfva
```

# 2. Create Multiple tfvars Files:

Create a file named dev.tfvars:

#### # dev.tfvars

```
ami = "ami-o123456789abcdefo"
instance_type = "t2.micro"

(base) → terraform-multiple-tfv
ami = "ami-0447b33427c
instance_type = "t2.micro"
(base) → terraform-multiple-tfv
```

Create a file named prod.tfvars:

### # prod.tfvars

```
ami = "ami-9876543210fedcbao"

instance_type = "t2.large"

(base) → terraform-multiple-tfva

ami = "ami-0447b33427d7

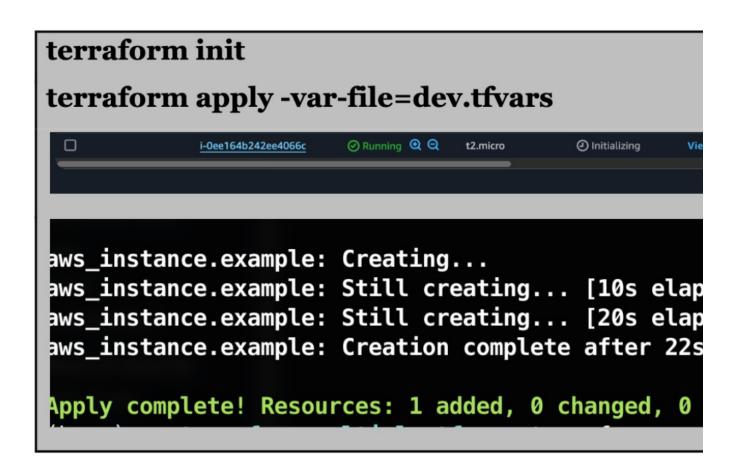
instance_type = "t2.large"

(base) → terraform-multiple-tfva
```

In these files, provide values for the variables basε

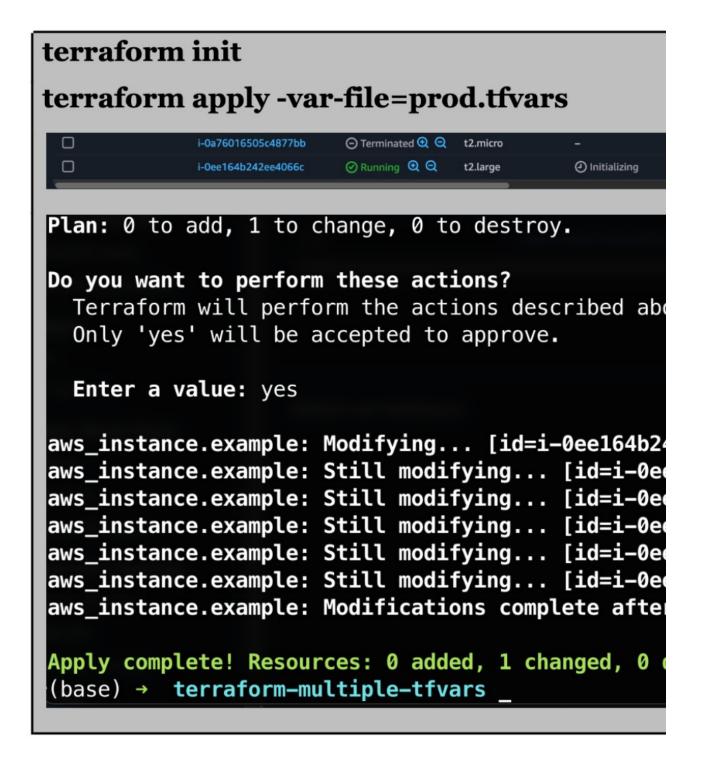
### 3. Initialize and Apply for Dev Envi

Run the following Terraform commands to initialifor the dev environment:



### 4. Initialize and Apply for Prod Env

 Run the following Terraform commands to init for the prod environment:



# 5. Test and Verify:

- Observe how different the files are used to set environments during the apply process.
- Access the AWS Management Console or use the AV
  of resources in the specified regions and instance typ

### 6. Clean Up:

• After testing, you can clean up resources:

terraform destroy -var-file=dev.tfvars terraform destroy -var-file=prod.tfvars