<u>Lab Exercise 17 – Terraform</u> <u>Multiple tf-vars Files</u>

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Objective:

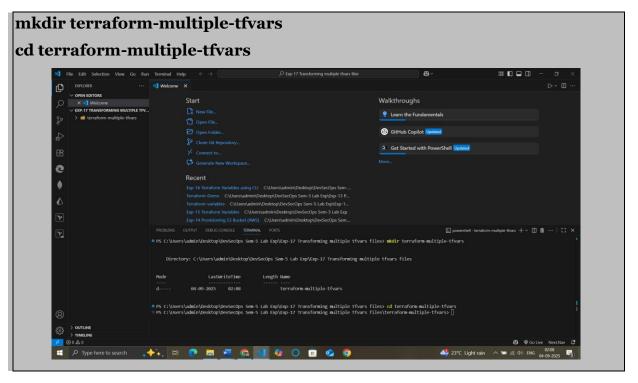
Learn how to use multiple thvars files in Terraform for different environments.

Prerequisites:

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

Steps:

1. Create a Terraform Directory:



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

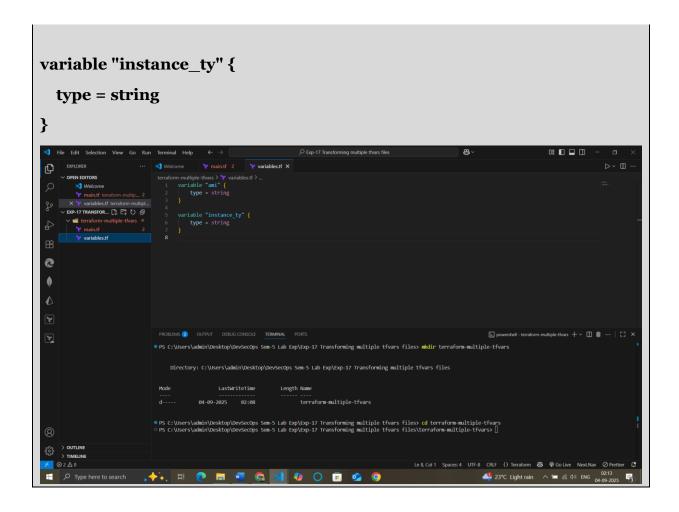
main.tf

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

• Create a file named variables.tf:

variables.tf

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



2. Create Multiple tfvars Files:

• Create a file named dev.tfvars:

dev.tfvars

• Create a file named prod.tfvars:

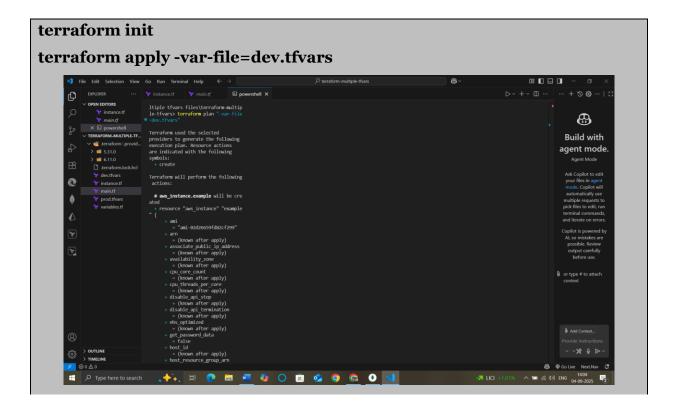
prod.tfvars

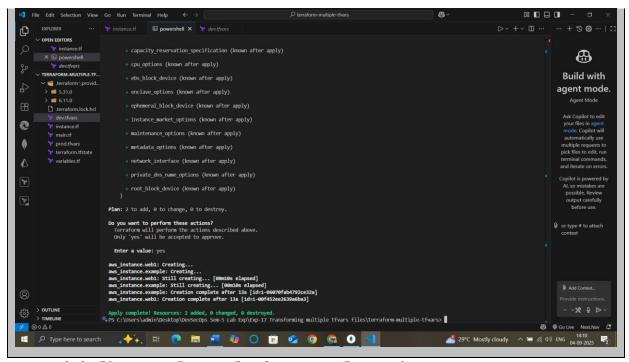


• In these files, provide values for the variables based on the environments.

3. Initialize and Apply for Dev Environment:

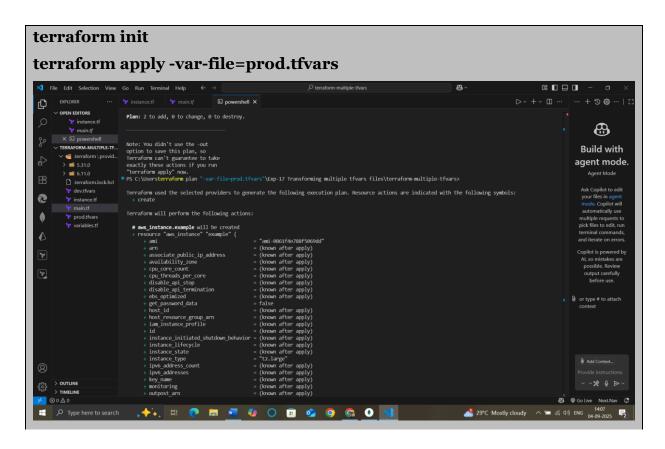
• Run the following Terraform commands to initialize and apply the configuration for the dev environment:

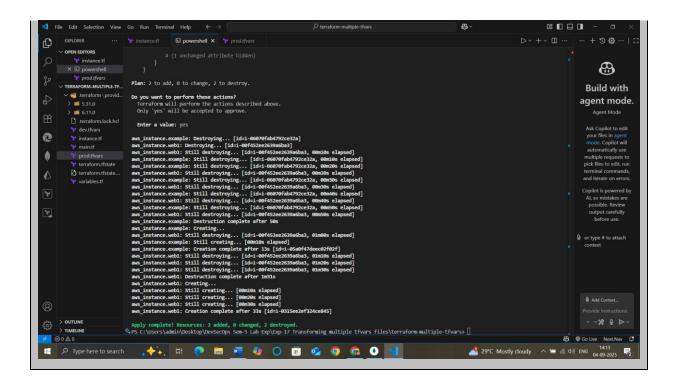




4. Initialize and Apply for Prod Environment:

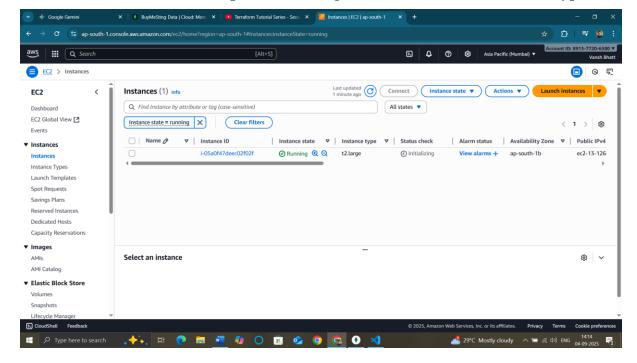
• Run the following Terraform commands to initialize and apply the configuration for the prod environment:





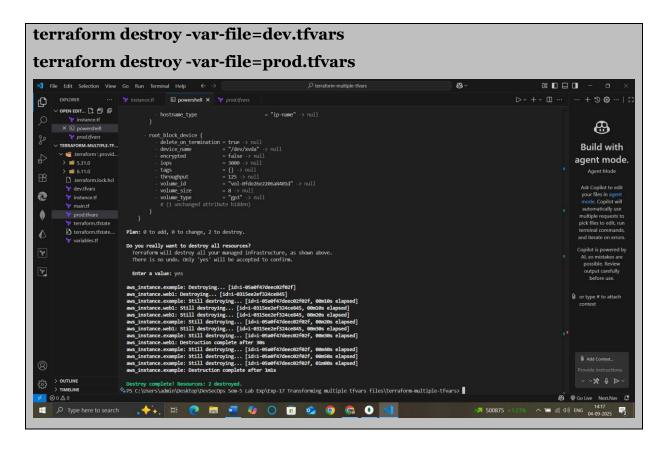
5. Test and Verify:

- Observe how different the transfiles are used to set variable values for different environments during the apply process.
- Access the AWS Management Console or use the AWS CLI to verify the creation of resources in the specified regions and instance types.



6. Clean Up:

• After testing, you can clean up resources:



• Confirm the destruction by typing yes.

7. Conclusion:

This lab exercise demonstrates how to use multiple tfvars files in Terraform to manage variable values for different environments. It allows you to maintain separate configuration files for different environments, making it easier to manage and maintain your infrastructure code. Experiment with different values in the dev.tfvars and prod.tfvars files to observe how they impact the infrastructure provisioning process for each environment.