

## Lab Exercise 16– Terraform Variables with Command Line Arguments

### Objective:

Learn how to pass values to Terraform variables using command line arguments.

### Prerequisites:

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

### Steps:

#### 1. Create a Terraform Directory:

```
mkdir terraform-cli-variables  
cd terraform-cli-variables
```

#### 2. Create Terraform Configuration Files:

- Create a file named main.tf:

```
# instance.tf
```

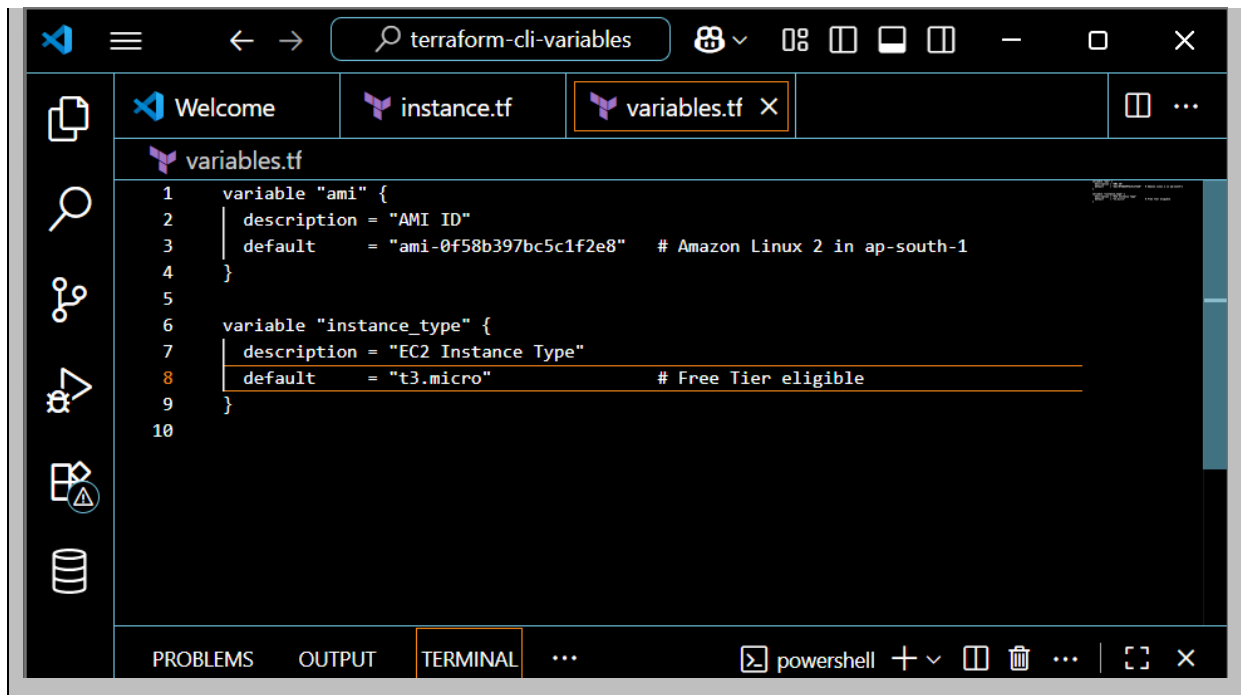
```
resource "aws_instance" "example" {  
  ami      = var.ami  
  instance_type = var.instance_type  
}
```



- Create a file named variables.tf:

# variables.tf

```
variable "ami" {  
  description = "AMI ID"  
  default    = "ami-08718895af4dfa033"  
}  
  
variable "instance_type" {  
  description = "EC2 Instance Type"  
  default    = "t2.micro"  
}
```



### 3. Use Command Line Arguments:

- Open a terminal and navigate to your Terraform project directory.
- Run the terraform init command:

#### terraform init

- Run the terraform apply command with command line arguments to set variable values:

```
terraform plan -var="ami=ami-0522ab6e1ddcc7055" -var="instance_type=t3.micro"
```

- Adjust the values based on your preferences.

### 4. Test and Verify:

- Observe how the command line arguments dynamically set the variable values during the apply process.

