



**SYSTEM PROVISIONING AND CONFIGURATION
MANAGEMENT LAB**

**Lab File
(2023-2024)**

for

6th Semester

Submitted To

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Exercise 5 - 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:

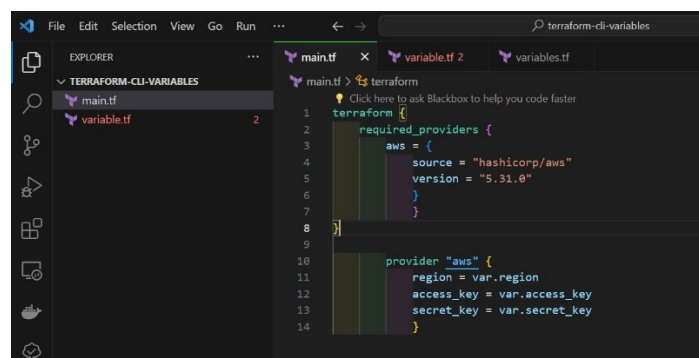
1. Create a Terraform Directory:

- Create a new directory for your Terraform project.

2. Create a Terraform Configuration File:

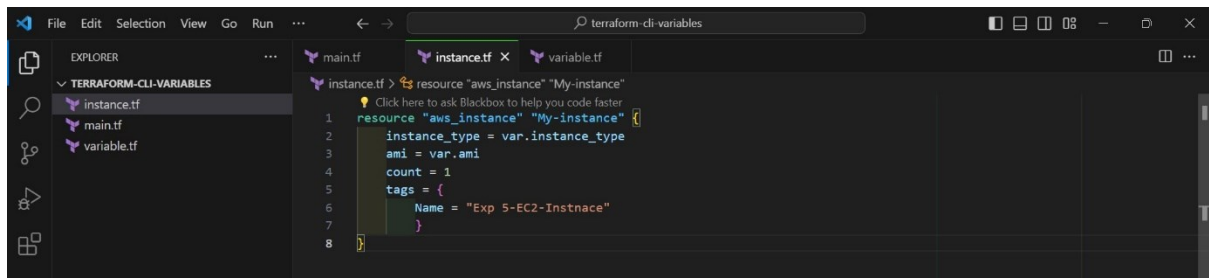
- Create a file named main.tf within your project directory.

```
arpitgoyal@AquaZen: /mnt/d $ cd 'Sp6Cm'
arpitgoyal@AquaZen: /mnt/d/Sp6Cm$ mkdir terraform-cli-variables
arpitgoyal@AquaZen: /mnt/d/Sp6Cm$ cd terraform-cli-variables
arpitgoyal@AquaZen: /mnt/d/Sp6Cm/terraform-cli-variables$ touch main.tf
arpitgoyal@AquaZen: /mnt/d/Sp6Cm/terraform-cli-variables$ ls
main.tf
arpitgoyal@AquaZen: /mnt/d/Sp6Cm/terraform-cli-variables$ |
```



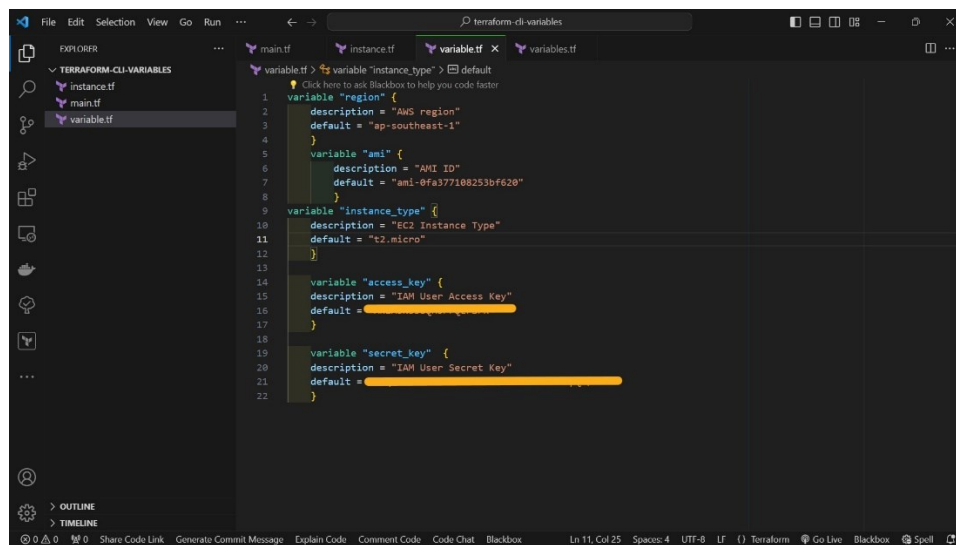
```
main.tf | terraform
1 terraform {
2   required_providers {
3     aws = {
4       source = "hashicorp/aws"
5       version = "5.31.0"
6     }
7   }
8 }
9
10 provider "aws" {
11   region = var.region
12   access_key = var.access_key
13   secret_key = var.secret_key
14 }
```

Create a terraform configuration file for EC2 Instance (instance.tf) & add variables to them.



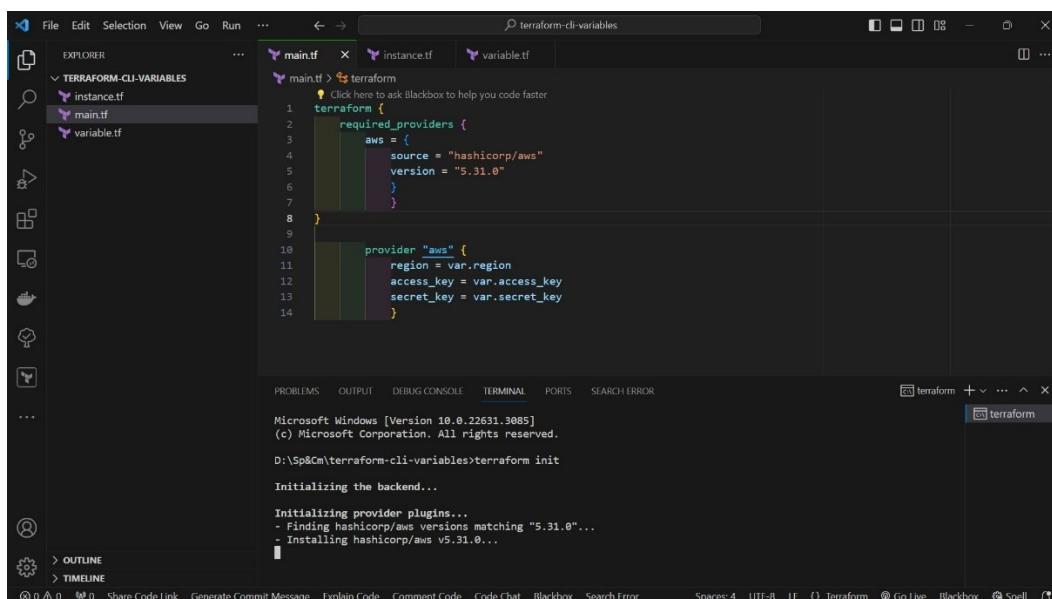
3. Define Variables:

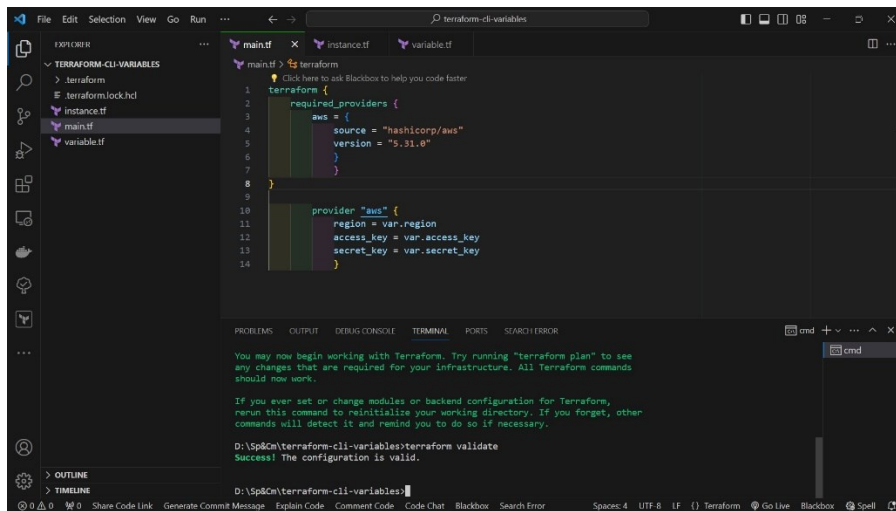
- Open a new file named variables.tf. Define variables for region, ami, and instance_type.



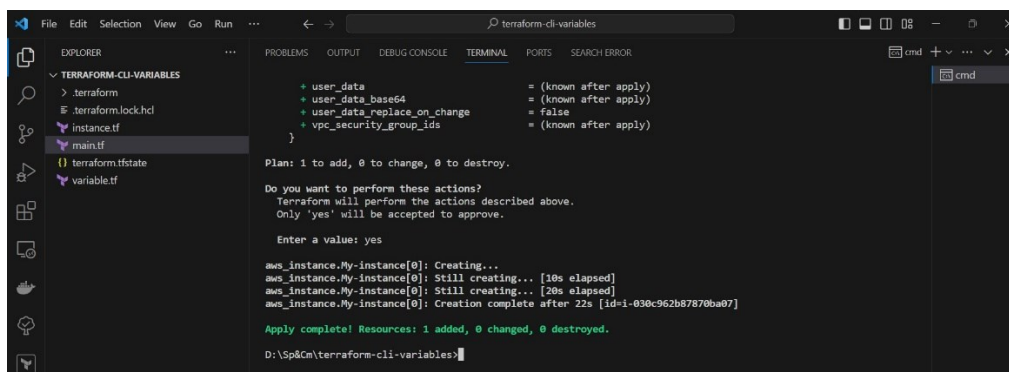
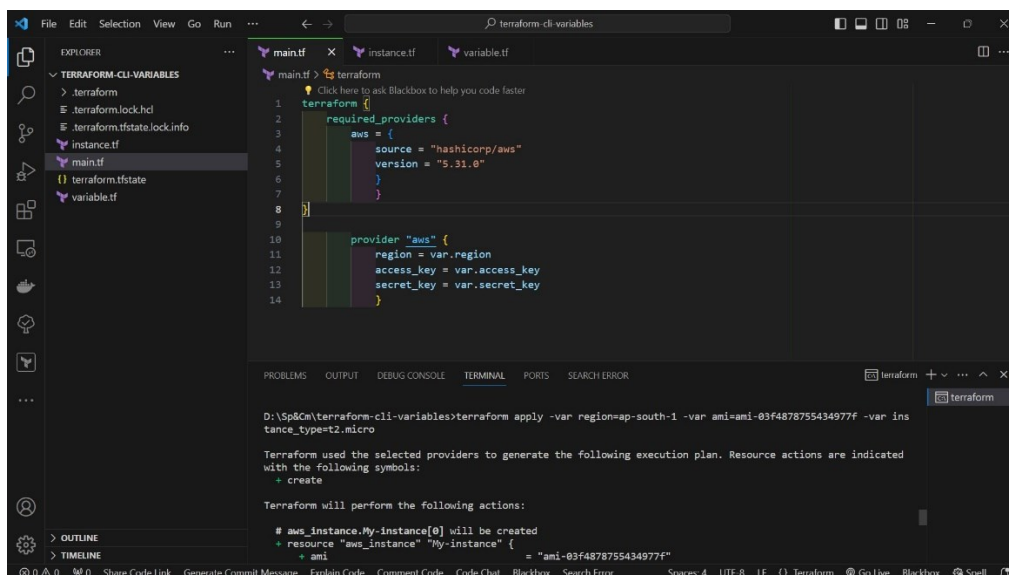
4. Use Command Line Arguments:

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

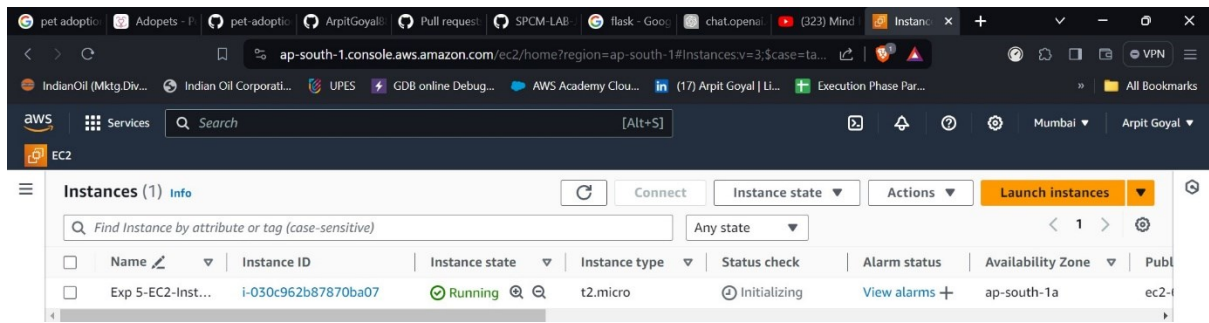




- Run the terraform apply command with command line arguments to set variable values:



5. Test and Verify:



6. Clean Up:

