Lab Exercise 5 – Terraform Variables with Command Line Arguments Objective:

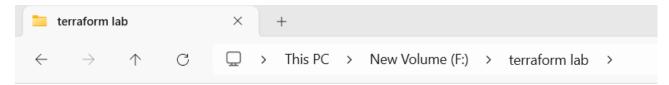
Learn how to pass values to Terraform variables using command line arguments.

Prerequisites:

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

Steps:

1. Create a Terraform Directory:



2. Create Terraform Configuration Files:

• Create a file named main.tf:

main.tf Create a file named variables.tf:

variables.tf

```
🚩 variable.tf 🛛 🗙
🦖 variable.tf > ધ variable "region_ec2" > 🖭 description
      variable "ami" {
       description = "AMI ID"
       default = "ami-03f4878755434977f"
      variable "instance_ty" {
         description = "ec2-instance"
        default = "t2.micro"
  8
 10
      variable "region_ec2" {
 11
         description = "ec2-region"
 12
         default = "ap-south-1"
 13
 14
```

3. Use Command Line Arguments:

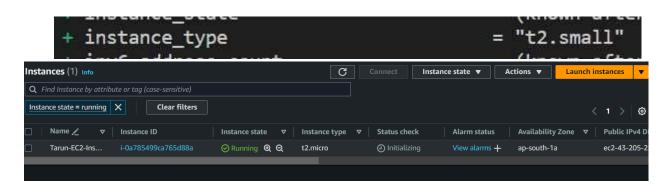
PS F:\terraform lab\lab5> terraform apply -var "instance-ty-t2.small" -var "region_ec2-ap-south-1"

```
Terraform will perform the following actions:
  # aws_instance.example will be created
+ resource "aws_instance" "example" {
+ ami
                                                               = "ami-83f487B755434977f"
        arn
associate_public_ip_address
                                                               - (known after apply)
- (known after apply)
          availability_zone
cpu_core_count
                                                               = (known after apply)
= (known after apply)
          cpu threads per core
disable api stop
disable api termination
ebs optimized
                                                               (known after apply)
= false
          ger_password_data = faise
host id (known after apply)
host_resource_group_ern = (known after apply)
iam_instance_profile = (known after apply)
id = (known after apply)
instance_initisted_shutdown_behavior = (known after apply)
instance_lifecyele = (known after apply)
instance_state = (known after apply)
instance_type = "t2.small"
          instance_type
ipv6_address_count
          ipv6_addresses
key_name
monitoring

    (known after apply)
    (known after apply)
    (known after apply)
    (known after apply)

          outpost_arm
password_date
                                                                  (known after apply)
(known after apply)
          placement_group
placement_partition_nu
                                                               (known after apply(known after apply
          primary network interface id
                                                               = (known after apply
                 Plan: 1 to add, 0 to change, 0 to destroy.
                 Do you want to perform these actions?
                     Terraform will perform the actions described above.
                     Only 'yes' will be accepted to approve.
                     Enter a value: yes
                 aws_instance.example: Creating...
                 aws_instance.example: Still creating... [10s elapsed]
                 aws_instance.example: Still creating... [20s elapsed]
                 aws_instance.example: Creation complete after 24s [id=i-0815a18f08a60d7e8]
                 Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
```

4. Test and Verify:



5. Clean Up:

```
ferraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
Terraform will perform the following actions:
 # aws_instance.example will be dest
   resource "aws_instance"
- ami
                               "example" (
                                                 arn
       associate_public_ip_address
                                                 = "ap-south-la" -> null
        availability_rons
        cpu_core_count
       cpu_threads_per_core
disable_epi_stop
disable_api_termination
ebs_optimized
                                                = 1 -> null
= false -> null
= false -> null
= false -> null
        get_password_data
hibernation
                                                  - false
                                                  = "i-0815a18f08a60d7e8" -> null
        instance_initiated_shutdown_behavior = "stop" > mull
instance_state = "running" -> mull
instance_type = "t2.small" -> mull
        ipv6 addresses
                                                = 8 → mull
        placement partition number
```

Plan: 0 to add, 0 to change, 1 to destroy.

Do you really want to destroy all resources?

Terraform will destroy all your managed infrastructure, as shown above.

There is no undo. Only 'yes' will be accepted to confirm.

Enter a value: yes

aws_instance.example: Destroying... [id=i-0815a18f08a60d7e8]
aws_instance.example: Still destroying... [id=i-0815a18f08a60d7e8, 10s elapsed]
aws_instance.example: Still destroying... [id=i-0815a18f08a60d7e8, 20s elapsed]
aws_instance.example: Still destroying... [id=i-0815a18f08a60d7e8, 30s elapsed]
aws_instance.example: Still destroying... [id=i-0815a18f08a60d7e8, 40s elapsed]
aws_instance.example: Destruction complete after 40s

Destroy complete! Resources: 1 destroyed.

