### LAB-5

# **Terraform Variable with Command Line Argument**

## **Step1:** Make changes in var.tf file

```
main.tf
instance.tf

resource "aws_instance" "lab4"{
   instance_type= var.instance_typ
   ami = var.ami_id
   count =1
   tags= {
   Name = "lab4-b3"
   }
}
```

```
main.tf

instance.tf

var.tf

variable "instance_typ"{

type = string

variable "ami_id" {

type = string

default= "ami-03f4878755434977f"

}
```

#### **Step 2:** Now we need to run terraform cycle

```
~/Documents/SPCM/Terraform 🎒 v1.7.1default as 💻
→ terraform init
Initializing the backend...
Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
 Using previously-installed hashicorp/aws v5.35.0
Terraform has been successfully initialized!
You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.
If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
~/Documents/SPCM/Terraform 🧩 v1.7.1default as 💻 took 4s
→ terraform validate
Success! The configuration is valid.
```

# Now we have to ways to declare variable in CLI **First:** We can give value after running terraform plan

```
/Documents/SPCM/Terraform 🌦 v1.7.1default as 💻 took 4s
 terraform plan
/ar.instance_typ
   Enter a value: t2.micro
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.lab1[0] will be created
+ resource "aws_instance" "lab1" {
     resource
         + ami
                                                                             = "ami-03f4878755434977f"
                                                                          = (known after apply)
= (known after apply)
= (known after apply)
         + associate_public_ip_address
+ availability_zone
                                                                            = (known after apply)
= (alse
         + cpu_core_count

+ cpu_threads_per_core

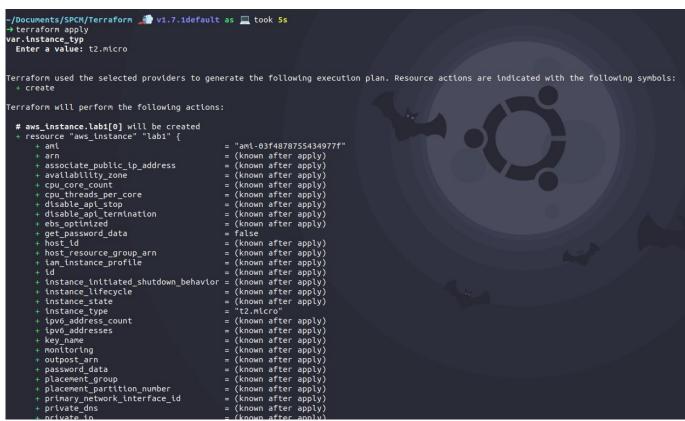
+ disable_api_stop

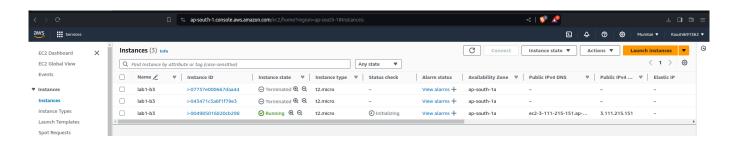
+ disable_api_termination

+ ebs_optimized
            get_password_data
host_id
                                                                             = (known after apply)
            host_resource_group_arn
iam_instance_profile
                                                                           = (known after apply)
= (known after apply)
            instance_norte = (known after apply)
instance_initiated_shutdown_behavior = (known after apply)
instance_lifecycle = (known after apply)
instance_state = (known after apply)
instance_type = "t2.micro"
            ipv6_address_count
ipv6_addresses
                                                                             = (known after apply)
= (known after apply)
                                                                             = (known after apply)
                                                                             = (known after apply)
= (known after apply)
= (known after apply)
= (known after apply)
            monitorina
            outpost_arn
password_data
             placement_group
```

#### **Second:** By declaring variable during running command

```
~/Documents/SPCM/Terraform 🏰 v1.7.1default as 💻 took 30s
→ terraform plan -var 'instance_typ=t2.micro'
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
  + create
Terraform will perform the following actions:
  # aws_instance.lab1[0] will be created
+ resource "aws_instance" "lab1" {
                                                                            = "ami-03f4878755434977f"
                                                                            = (known after apply)
= (known after apply)
            arn
            associate_public_ip_address
availability_zone
                                                                               (known after apply)
(known after apply)
            cpu_core_count
cpu_threads_per_core
disable_api_stop
disable_api_termination
ebs_optimized
get_password_data
                                                                                (known after apply)
                                                                               (known after apply)
(known after apply)
                                                                               (known after apply) false
             get_password_data
            host_id
host_resource_group_arn
iam_instance_profile
                                                                               (known after apply)
(known after apply)
                                                                                (known after apply)
                                                                               (known after apply)
(known after apply)
            instance_initiated_shutdown_behavior
instance_lifecycle
instance_state
instance_type
ipv6_address_count
ipv6_addresses
                                                                               (known after apply)
(known after apply)
"t2.micro"
                                                                               (known after apply)
(known after apply)
                                                                               (known after apply)
(known after apply)
            key_name
monitoring
            outpost_arn
password data
                                                                               (known after apply)
(known after apply)
             placement_group
                                                                                (known after
                                                                                                     apply)
            placement_partition_number primary_network_interface_id
                                                                               (known after apply)
(known after apply)
             private_dns
                                                                               (known after apply)
```





```
/Documents/SPCM/Terraform 🌉 v1.7.1default as 💻
terraform destroy
var.instance_typ
   Enter a value: t2.micro
aws_instance.lab1[0]: Refreshing state... [id=i-004985016820cb298]
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
    destroy
Terraform will perform the following actions:
 # aws_instance.lab1[0] will be destroyed
- resource "aws_instance" "lab1" {
                                                                     = "ami-03f4878755434977f" -> null
         - ami
                                                                     = "arn:aws:ec2:ap-south-1:698194348131:instance/i-004985016820cb298" -> null
                                                                    = true -> null
= "ap-south-1a" -> null
           associate_public_ip_address availability_zone
           cpu_core_count
cpu_threads_per_core
           disable_api_stop
disable_api_termination
ebs_optimized
                                                                     = false -> null
= false -> null
                                                                       false -> null
false -> null
           get_password_data
hibernation
                                                                        false -> null
"i-004985016820cb298" -> null
            id
                                                                        "stop" -> null
"running" -> null
"t2.micro" -> null
            instance_initiated_shutdown_behavior
           instance_thttaceo_
instance_state
instance_type
ipv6_address_count
ipv6_addresses
                                                                    = 0 -> null
= [] -> null
= false -> null
= 0 -> null
= "eni-0acdfa7b2
           ipv6_addresses
monitoring
placement_partition_number
primary_network_interface_id
private_dns
private_ip
public_dns
public_ip
secondary_private_ips
                                                                        "eni-0acdfa7b21b482333" -> null
"ip-172-31-43-111.ap-south-1.compute.internal" -> null
"172.31.43.111" -> null
                                                                        "ec2-3-111-215-151.ap-south-1.compute.amazonaws.com" -> null
                                                                        "3.111.215.151"
           secondary_private_ips
security_groups
```

