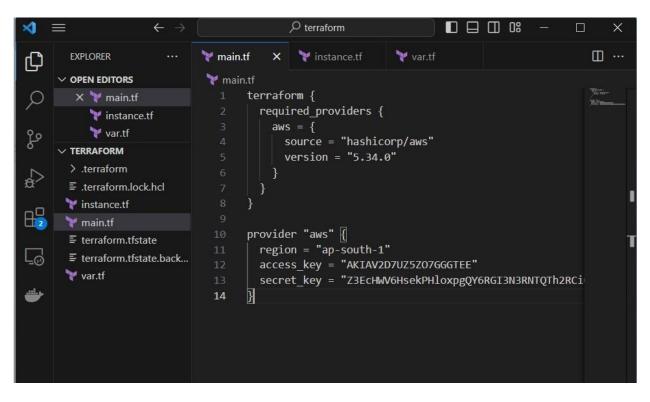
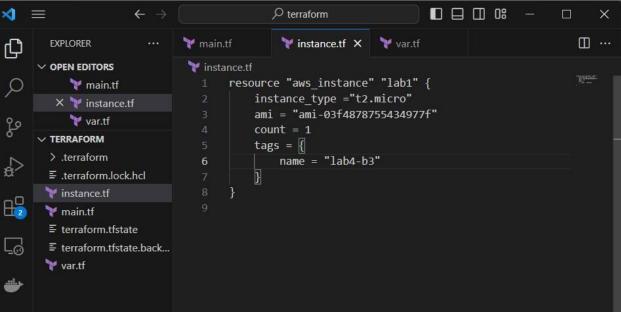
LAB-5

Terraform Variable with Command Line Argument

Step 1: Make changes in var.tf file





```
instance.tf
                                                                             II ...
 EXPLORER
                    main.tf
                                                yar.tf
                                                           ×
                     yar.tf

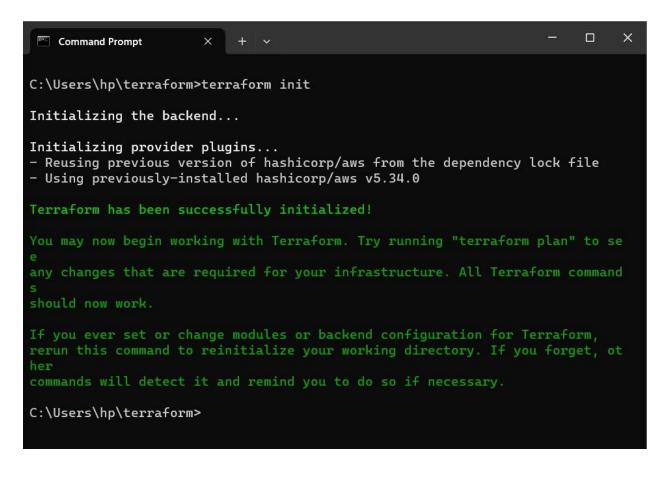
✓ OPEN EDITORS

                           variable "instance type" {
    main.tf
                              type = string
    instance.tf
  × Y var.tf
                           variable "ami_id" {
∨ TERRAFORM
                              type = string
 > .terraform
                              default = "ami-03f4878755434977f"
 instance.tf
 main.tf

    ■ terraform.tfstate

 yar.tf
```

Step 2: Now we need to run terraform cycle



Now we have to ways to declare variable in CLI

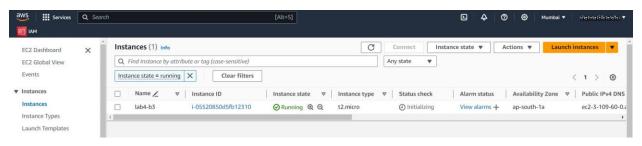
First: We can give value after running terraform plan

```
Command Prompt
C:\Users\hp\terraform>terraform plan
var.instance_type
 Enter a value: 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"
     + ami
                                             = (known after apply)
      + arn
                                             = (known after apply)
      + associate_public_ip_address
                                             = (known after apply)
      + availability_zone
                                             = (known after apply)
      + cpu_core_count
                                             = (known after apply)
      + cpu_threads_per_core
      + disable_api_stop
                                             = (known after apply)
     + disable_api_termination
                                             = (known after apply)
     + ebs_optimized
                                             = (known after apply)
                                             = false
      + get_password_data
                                             = (known after apply)
      + host_id
      + host_resource_group_arn
                                             = (known after apply)
      + iam_instance_profile
                                             = (known after apply)
                                             = (known after apply)
     + id
     + instance_initiated_shutdown_behavior = (known after apply)
     + instance_lifecycle
                                             = (known after apply)
     + instance state
                                             = (known after apply)
                                             = "t2.micro"
      + instance_type
      + ipv6_address_count
                                             = (known after apply)
                                             = (known after apply)
      + ipv6_addresses
      + key_name
                                             = (known after apply)
                                             = (known after apply)
      + monitoring
     + outpost_arn
                                             = (known after apply)
                                             = (known after apply)
      + password_data
      + placement_group
                                             = (known after apply)
```

Second: By declaring variable during running command

```
X
 Command Prompt - terraform X
C:\Users\hp\terraform>terraform apply
var.instance_type
  Enter a value: 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"
      + ami
                                             = (known after apply)
                                             = (known after apply)
      + associate_public_ip_address
      + availability_zone
                                             = (known after apply)
                                             = (known after apply)
      + cpu_core_count
      + cpu_threads_per_core
                                             = (known after apply)
                                             = (known after apply)
      + disable_api_stop
      + disable_api_termination
                                            = (known after apply)
      + ebs_optimized
                                             = (known after apply)
      + get_password_data
                                             = false
                                             = (known after apply)
      + host_id
     + host_resource_group_arn
                                             = (known after apply)
     + iam_instance_profile
                                             = (known after apply)
                                             = (known after apply)
      + instance_initiated_shutdown_behavior = (known after apply)
      + instance_lifecycle
                                             = (known after apply)
                                             = (known after apply)
      + instance_state
      + instance_type
                                             = "t2.micro"
      + ipv6_address_count
                                             = (known after apply)
      + ipv6_addresses
                                             = (known after apply)
      + key_name
                                             = (known after apply)
                                             = (known after apply)
      + monitoring
                                             = (known after apply)
      + outpost_arn
                                             = (known after apply)
      + password_data
                                             = (known after apply)
      + placement_group
```

```
Command Prompt
      + private_dns
                                              = (known after apply)
      + private_ip
                                              = (known after apply)
      + public_dns
                                              = (known after apply)
      + public_ip
                                              = (known after apply)
      + secondary_private_ips
                                              = (known after apply)
      + security_groups
                                              = (known after apply)
      + source_dest_check
                                              = true
      + spot_instance_request_id
                                              = (known after apply)
                                              = (known after apply)
      + subnet_id
                                              = {
      + tags
          + "name" = "lab4-b3"
      + tags_all
                                              = {
          + "name" = "lab4-b3"
      + tenancy
                                              = (known after apply)
      + user_data
                                              = (known after apply)
      + user_data_base64
                                              = (known after apply)
      + user_data_replace_on_change
                                              = false
      + vpc_security_group_ids
                                              = (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.lab1[0]: Creating...
aws_instance.lab1[0]: Still creating... [10s elapsed]
aws_instance.lab1[0]: Still creating... [20s elapsed]
aws_instance.lab1[0]: Still creating... [30s elapsed]
aws_instance.lab1[0]: Creation complete after 33s [id=i-05520850d5fb12310]
Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
C:\Users\hp\terraform>
```



```
X
 Command Prompt
C:\Users\hp\terraform>terraform destroy
var.instance_type
  Enter a value: t2.micro
aws_instance.lab1[0]: Refreshing state... [id=i-05520850d5fb12310]
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" -> nu
        ami
11
       arn
                                             = "arn:aws:ec2:ap-south-1:39969
9660658:instance/i-05520850d5fb12310" -> null
      - associate_public_ip_address
                                             = true -> null
      - availability_zone
                                             = "ap-south-1a" -> null
      - cpu_core_count
                                             = 1 -> null
      - cpu_threads_per_core
                                             = 1 -> null
                                             = false -> null
      disable_api_stop
      disable_api_termination
                                             = false -> null
      - ebs_optimized
                                             = false -> null
       get_password_data
                                             = false -> null

    hibernation

                                             = false -> null
                                             = "i-05520850d5fb12310" -> null
      - instance_initiated_shutdown_behavior = "stop" -> null
                                             = "running" -> null
      instance_state
      - instance_type
                                             = "t2.micro" -> null
      ipv6_address_count
                                             = 0 -> null
      ipv6_addresses
                                             = [] -> null
       monitoring
                                             = false -> null
       placement_partition_number
                                             = 0 -> null
      - primary_network_interface_id
                                             = "eni-0660e5364bfd78d52" -> nu
11
       private_dns
                                             = "ip-172-31-46-149.ap-south-1.
compute.internal" -> null
```

```
X
 Command Prompt
          - enable_resource_name_dns_aaaa_record = false -> null
                                                 = "ip-name" -> null
            hostname_type
        }
      - root_block_device {
            delete_on_termination = true -> null
          - device_name
                                 = "/dev/sda1" -> null
          encrypted
                                 = false -> null
                                 = 100 -> null
          - iops
                                 = {} -> null
           tags

    throughput

                                 = 0 -> null
          volume_id
                                 = "vol-0529c4704b8bb77d8" -> null
          volume_size
                                 = 8 -> null
                                 = "gp2" -> null
           volume_type
        3
    }
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.lab1[0]: Destroying... [id=i-05520850d5fb12310]
aws_instance.lab1[0]: Still destroying... [id=i-05520850d5fb12310, 10s elaps
ed
aws_instance.lab1[0]: Still destroying... [id=i-05520850d5fb12310, 20s elaps
aws_instance.lab1[0]: Still destroying... [id=i-05520850d5fb12310, 30s elaps
ed]
aws_instance.lab1[0]: Still destroying... [id=i-05520850d5fb12310, 40s elaps
ed]
aws_instance.lab1[0]: Destruction complete after 41s
Destroy complete! Resources: 1 destroyed.
C:\Users\hp\terraform>
```

