Lab Exercise 5

Terraform Variables with Command Line Arguments

1. Create a Terraform Directory:

2. Create a Terraform Configuration File:

```
variables.tf
                main.tf
                                instance.tf
main.tf
      terraform {
         required providers {
           aws = {
            source = "hashicorp/aws"
            version = "5.34.0"
        }
      provider "aws" {
        region = var.region
 11
        access key = "AKIAVRUVV37F66GBPTT4"
 12
        secret key = "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"
 14
```

```
instance.tf
resource "aws_instance" "My-Instance" {
   instance_type = var.instance_type
   ami = var.ami
   count = 1
   tags = {
      Name = "EC2-INSTANCE"
   }
}
```

```
variables.tf

variable "ami" {

description = "AWS ami"

default = ""

variable "region" {

description = "AWS region"

default = ""

}

variable "instance_type" {

description = "AWS instance Type"

default = ""

default = ""

2
}
```

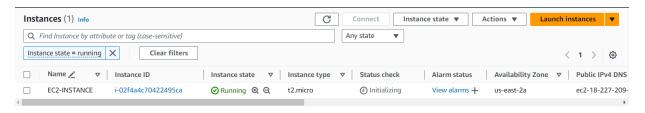
3. Use Command Line Arguments:

```
PS E:\terraform-cli-variables> terraform init
Initializing the backend...
Initializing provider plugins...
- Finding hashicorp/aws versions matching "5.34.0"...

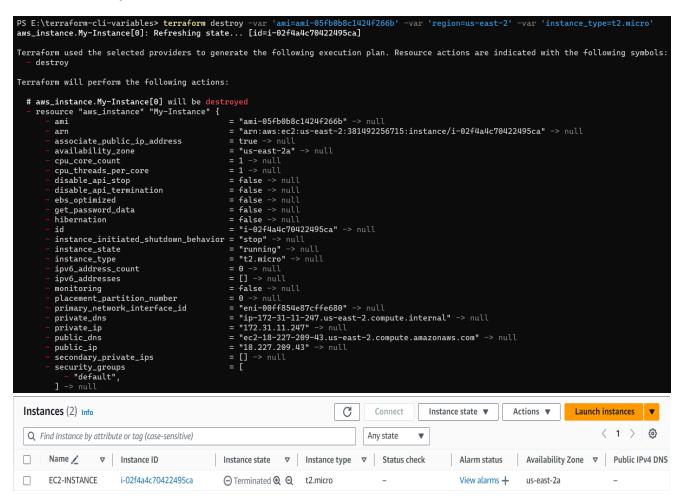
    Installing hashicorp/aws v5.34.0...

- Installed hashicorp/aws v5.34.0 (signed by HashiCorp)
Terraform has created a lock file .terraform.lock.hcl to record the provider
 selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.
 Terraform has been successfully initialized!
 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.
PS E:\terraform-cli-variables> terraform apply -var 'ami=ami-05fb0b8c1424f266b' -var 'region=us-east-2' -var 'instance_type=t2.micro'
Terraform 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.My-Instance[0] will be created
   resource "aws_instance" "My-Instance" {
                                      = "ami-05fb0b8c1424f266b"
     + ami
     + arn
                                     = (known after apply)
     + associate_public_ip_address
                                      = (known after apply)
                                     = (known after apply)
     + availability_zone
     + cpu_core_count
                                     = (known after apply)
     + cpu_threads_per_core
+ disable_api_stop
                                     = (known after apply)
                                     = (known after apply)
     + disable_api_termination
+ ebs_optimized
                                     = (known after apply)
                                     = (known after apply)
      get_password_data
                                     = false
      host_id
                                     = (known after apply)
                                     = (known after apply)
      host_resource_group_arn
      iam_instance_profile
                                     = (known after apply)
     + id
                                     = (known after apply)
     + instance_initiated_shutdown_behavior = (known after apply)
+ instance_lifecycle = (known after apply)
                                     = (known after apply)
      instance_state
      instance_type
                                       "t2.micro"
                                     = (known after apply)
      ipv6_address_count
       ipv6_addresses
                                     = (known after apply)
                                     = (known after apply)
      key_name
      monitoring
                                     = (known after apply)
      outpost_arn
                                     = (known after apply)
                                     = (known after apply)
      password data
                                     = (known after apply)
      placement_group
      placement_partition_number
                                     = (known after apply)
      primary_network_interface_id
                                       (known after apply)
       private_dns
```

4. Verify:



5. Clean Up:



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