Lab Exercise 6- Terraform V

Objective:

Learn how to define and use variables in Terrafori

Prerequisites:

Install Terraform on your machine.

Steps:

1. Create a Terraform Directory:

Create a new directory for your Terraform I

2. Create a Terraform Configuration

Create a file named main.tf within your project of

main.tf

```
resource "aws_instance" "myinstance-1" {
```

```
[ujjwal@ujjwalmacbook Terraform-variables % vim variables.tf
ujjwal@ujjwalmacbook Terraform-variables %
```

3. Define Variables:

Open a new file named variables.tf. Define instance_type.

variables.tf

```
variable "myami" {
  type = string
  default = "ami-o8718895af4dfao33"
}
variable "mycount" {
```

4. Initialize and Apply:

 Run the following Terraform commands to configuration.

terraform init

terraform plan

terraform apply -auto-approve

\$ terraform init

Initializing the backend...

- Finding latest version of haskend...
- Installing hashicorp/aws v5.31.0...
- Installed hashicorp/aws v5.85.0(signed by HashiCorp)
 Terraform has created a lockf file .terraform.lock.hcl to
 record the provider selections it made above.Inis file in
 your version control repository so that Terraform can mak
 the same selections by default when you run turr

Terraform has been successsfully initialized!

You may now begin working with Terraform. Try running ter rarform plan' to see anyhages that are required for your infrastructure. All Terraform commands should now work.

```
terraform plan
     + 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
+ private_ip
                                             = (known after apply)
                                             = (known after apply)
     + public_dns
                                             = (known after apply)
     + public_ip
+ secondary_private_ips
                                             = (known after apply)
                                             = (known after apply)
                                             = (known after apply)
     + security_groups
     + source_dest_check
                                             = true
     + spot_instance_request_id
                                             = (known after apply)
     + subnet_id
                                             = (known after apply)
     + tags
                                             = {
         + "Name" = "My Instance"
     + tags_all
+ "Name" = "My Instance"
                                             = {
     + tenancy
                                             = (known after apply)
                                             = (known after apply)
     + user_data
                                             = (known after apply)
     + user_data_base64
     + user_data_replace_on_change
                                             = false
     + vpc_security_group_ids
                                              = (known after apply)
     + capacity_reservation_specification (known after apply)
     + cpu_options (known after apply)
     + ebs_block_device (known after apply)
     + enclave_options (known after apply)
     + ephemeral_block_device (known after apply)
     + instance_market_options (known after apply)
     + maintenance_options (known after apply)
     + metadata_options (known after apply)
     + network_interface (known after apply)
     + private_dns_name_options (known after apply)
      + root_block_device (known after apply)
Plan: 5 to add, 0 to change, 0 to destroy.
```

Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these actions

```
terraform apply -auto-approve
                                          = (known after apply)
   + spot_instance_request_id
   + subnet_id
                                         = (known after apply)
   + tags
                                         = {
       + "Name" = "My Instance"
   = {
                                         = (known after apply)
   + tenancy
   + user_data
                                         = (known after apply)
   + user_data_base64
                                         = (known after apply)
   + user_data_replace_on_change
                                         = false
                                         = (known after apply)
   + vpc_security_group_ids
   + capacity_reservation_specification (known after apply)
   + cpu_options (known after apply)
   + ebs_block_device (known after apply)
   + enclave_options (known after apply)
   + ephemeral_block_device (known after apply)
   + instance_market_options (known after apply)
   + maintenance_options (known after apply)
   + metadata_options (known after apply)
   + network_interface (known after apply)
   + private_dns_name_options (known after apply)
   + root_block_device (known after apply)
```