SPCM Lab-4

Objective: Define and Use Variables in Terraform configuration

1. Create Terraform directory.

```
vidhant@psyches-safehouse:~$ mkdir terraform-variables
vidhant@psyches-safehouse:~$ cd terraform-variables/
vidhant@psyches-safehouse:~/terraform-variables$
Objective: Define and Use
```

2. Create terraform configuration file (main.tf):

```
Terminal Help

** main.tf ×

Lab-4 > ** main.tf > ** resource "aws_instance" "vidhant-ec2"

1  provider <u>"aws"</u> {
2  region = "us-east-1"
3  }
4
5  resource "aws_instance" "vidhant-ec2" {
6  ami = "ami-0277155c3f0ab2930"
7  instance_type = "t2.micro"
8 }
```

3. Define Variables : create a new file variables.tf and define variables for region, ami and instance type.

```
main.tf
              yariables.tf ×
Lab-4 > 🗽 variables.tf > 😭 variable "instance_type"
      variable "region" {
        description = "AWS region"
       default = "us-east-1"
      variable "ami" {
           description = "AMI ID"
           default = "ami-0277155c3f0ab2930"
 11
      variable "instance type" {
       description = "EC2 instance type"
 12
       default = "t2.micro"
 13
 14
```

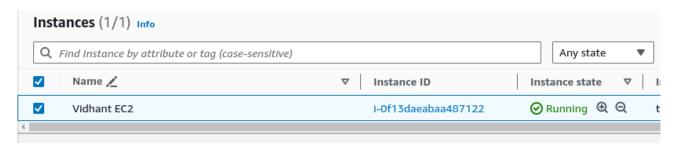
4. Use variables in main.tf:

5. Initialize and Apply configuration: (terraform init, terraform validate and terraform apply)

```
vidhant@psyches-safehouse:~/Documents/Terraform/Lab-4$ terraform init
Initializing the backend...
Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v5.35.0...
```

• vidhant@psyches-safehouse:~/Documents/Terraform/Lab-4\$ terraform validate
Success! The configuration is valid.

6. Checking aws console:



7. Cleaning up resources (terraform destroy)

```
vidhant@psyches-safehouse:~/Documents/Terraform/Lab-4$ terraform destroy
aws_instance.vidhant-ec2: Refreshing state... [id=i-0f13daeabaa487122]

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.vidhant-ec2 will be destroyed
    - resource "aws_instance" "vidhant-ec2" {
```