SPCM LAB

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Lab Exercise 4- Terraform Variables

 Create a Terraform Directory: mkdir terraform-variables cd terraform-variables

2. Create a Terraform Configuration File:

```
terraform-variables > \ main.tf

1  provider "aws" {
2  region = "us-west-2"
3  }
4  resource "aws_instance" "example" {
5  ami
6  = "ami-052c9ea013e6e3567"
7  instance_type = "t2.micro"
8  }
```

3. Define Variables:

```
terraform-variables > variables.tf

1  variable "region" {
2   description = "AWS region"
3   default = "us-west-2"
4  }
5
6  variable "ami" {
7   description = "AMI ID"
8   default = "ami-052c9ea013e6e3567"
9  }
10  variable "instance_type" {
11  description = "EC2 Instance Type"
12  default = "t2.micro"
13  }
14
```

4. Use Variables in main.tf:

```
terraform-variables > ▼ main.tf

1    provider "aws" {
2        region = var.region
3        access_key = "AKIAYS2NV47DL6IMWZUT"
4        secret_key = "/QPd3G4RWG+EBH0V0kYojkAI75GSDhZtlZS88ugS"
5        }
6        resource "aws_instance" "example" {
7        ami = var.ami
8        instance_type = var.instance_type
9     }
```

Initialize and Apply: terraform init terraform apply

```
PS D:\6 th sem\SPCM\SPCM LAB\teraform lab files\terraform-variables> terraform init
 Initializing the backend...
 Initializing provider plugins...
 - Finding latest version of hashicorp/aws...

    Installing hashicorp/aws v5.38.0...

 - Installed hashicorp/aws v5.38.0 (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!
      + 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.example: Creating...
aws instance.example: Still creating... [10s elapsed]
aws_instance.example: Still creating... [20s elapsed]
aws_instance.example: Creation complete after 27s [id=i-0643d8f2408766d9e]
Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
```

6. Clean Up: terraform destroy

```
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.example: Destroying... [id=i-0643d8f2408766d9e]

aws_instance.example: Still destroying... [id=i-0643d8f2408766d9e, 10s elapsed]

aws_instance.example: Still destroying... [id=i-0643d8f2408766d9e, 20s elapsed]

aws_instance.example: Still destroying... [id=i-0643d8f2408766d9e, 30s elapsed]

aws_instance.example: Destruction complete after 33s

Destroy complete! Resources: 1 destroyed.
```

