SPCM Lab-9

Objective: Creating Multiple EC2 instances with for_each in terraform.

1. Create Terraform directory.

```
→ ~ mkdir terraform-ec2-for-each

→ ~ cd <u>terraform-ec2-for-each</u>

→ terraform-ec2-for-each
```

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

```
iaiii.tr 🗦 📆 resource "aws_iiistaiice" "ecz_iiistaiices
  provider "aws" {
    region = "us-east-1"
    access key = "AKIA232UVZYDK5TANG62"
    secret key = "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"
  variable "instances" {
    description = "Map of EC2 instances with settings"
    default = {
       "instance1"={
        ami = "ami-0440d3b780d96b29d"
        instance type = "t2.micro"
       "instance2"={
        ami= "ami-0c7217cdde317cfec"
        instance type="t2.micro"
       "instance3" = {
        ami = "ami-0fe630eb857a6ec83"
        instance type = "t2.micro"
  resource "aws instance" "ec2 instances" {
    for each = var.instances
    ami = var.instances[each.key].ami
    instance type = var.instances[each.key].instance type
    tags = {
     Name = "EC2-${each.key}"
```

3. Initialize, validate and Apply:

terraform init:

```
■ Lab-9 terraform init

Initializing the backend...

Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v5.37.0...
- Installed hashicorp/aws v5.37.0 (signed by HashiCorp)

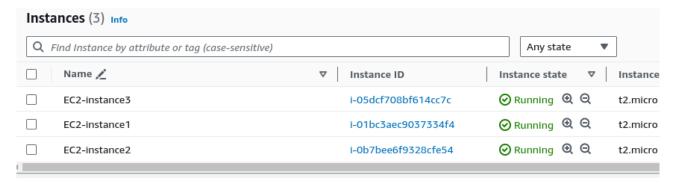
Terraform has created a lock file .terraform.lock.hcl to record the provider selections it made above. Include this file in your version control repository so that Terraform can guarantee to make the same selections by default when
```

terraform validate:

```
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```

terraform apply:

4. Verify Users in AWS console:



5. Clean up Resources (terraform destroy):