Lab-9: Creating Multiple EC2 instances with for each in terraform.

1. Create Terraform directory.

```
→ ~ mkdir terraform-ec2-for-each
→ ~ cd terraform-ec2-for-each
→ terraform-ec2-for-each
```

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

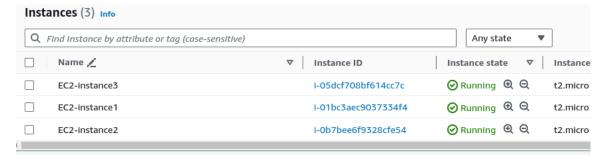
```
region = "us-east-1"
 access_key = "AKIA232UVZYDK5TANG62"
 secret key = "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"
 description = "Map of EC2 instances with settings"
 default = {
   "instance1"={
     ami = "ami-0440d3b780d96b29d"
     instance type = "t2.micro"
     ami= "ami-0c7217cdde317cfec"
    ami = "ami-0fe630eb857a6ec83"
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:

→ Lab-9

```
■ 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
● + Lab-9 terraform validate
Success! The configuration is valid.
```

4. Verify Users in AWS console:



5. Clean up Resources (terraform destroy):

```
Lab-9 terraform destroy
aws_instance.ec2_instances["instance1"]: Refreshing state... [id=i-01bc3aec9037334f4]
aws_instance.ec2_instances["instance3"]: Refreshing state... [id=i-05dcf708bf614cc7c]
aws_instance.ec2_instances["instance2"]: Refreshing state... [id=i-05dcf708bf614cc7c]
aws_instance.ec2_instance2"]: Refreshing state... [id=i-05dcf708bf614cc7c]
aws_instance.ec2_instance2"]: Refreshing state... [id=i-05dcf708bf614cc7c]
aws_instance.ec2_instance2"]: Refreshing state... [id=i-05dcf
```