Module 8: Terraform Assignment - 3

- 1. Destroy the previous deployment
- **2**. Create 2 EC2 instances in Ohio and N.Virginia respectively
- **3**. Rename Ohio's instance to 'hello-ohio' and Virginia's instance to

'hello-virginia'

Solution:-

\$ sudo terraform 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_eip_association.eip_assoc: Destroying... [id=eipassoc-0cf037c5186e6ff92]
aws_eip_association.eip_assoc: Destruction complete after 1s
aws_instance.assignment-2: Destroying... [id=i-0a40a8e13ab43fb31]
aws_eip.eip: Destroying... [id=eipalloc-06180f6ec27311cc4]
aws_eip.eip: Destruction complete after 2s
aws_instance.assignment-2: Still destroying... [id=i-0a40a8e13ab43fb31, 10s elapsed]
aws_instance.assignment-2: Still destroying... [id=i-0a40a8e13ab43fb31, 20s elapsed]
aws_instance.assignment-2: Destruction complete after 30s

Destroy complete! Resources: 3 destroyed.
ubuntu@terraform-server:~/tcode/assignment2$
```

\$ cd .. && sudo mkdir assignment3 && cd assignment3

\$ sudo vi provider.tf

```
provider "aws" {
    region = "us-east-1"
    access_key = "AKIA3XNV7HVVOZH64X44"
    secret_key =
"ISTXTOXOPP9sJfxlrmM6RpZvvVDdQlw4eMmtd
tWE"
}
provider "aws" {
    region = "us-east-2"
    access_key = "AKIA3XNV7HVVOZH64X44"
    secret_key =
"ISTXTOXOPP9sJfxlrmM6RpZvvVDdQlw4eMmtd
tWE"
}
```

```
ubuntu@terraform-server:~/tcode/assignment3$ cat provider.tf
provider "aws" {
        alias = "NV"
        region = "us-east-1"
        access_key = "AKIA3XNV7HVVOZH64X44"
        secret_key = "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"
}
provider "aws" {
        alias = "ohio"
        region = "us-east-2"
        access_key = "AKIA3XNV7HVVOZH64X44"
        secret_key = "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"
}
```

\$ sudo vi main.tf

```
resource "aws_instance" "assignment-3-NV" {
    provider = aws.NV
    ami = "ami-053b0d53c279acc90"
    instance_type = "t2.micro"
         key_name = "Common-25-08-2023-
09-47"
    tags = {
    Name = "hello-virginia"
resource "aws_instance" "assignment-3-OHIO"
    provider = aws.ohio
    ami = "ami-024e6efaf93d85776"
    instance_type = "t2.micro"
    key_name = "terraform_key"
    tags = {
    Name = "hello-ohio"
```

```
ubuntu@terraform-server:~/tcode/assignment3$ cat main.tf
resource "aws_instance" "assignment-3-NV" {
    provider = aws.NV
    ami = "ami-053b0d53c279acc90"
    instance_type = "t2.micro"
    key_name = "Common-25-08-2023-09-47"
    tags = {
    Name = "hello-virginia"
    }
}

resource "aws_instance" "assignment-3-OHIO" {
    provider = aws.ohio
    ami = "ami-024e6efaf93d85776"
    instance_type = "t2.micro"
    key_name = "terraform_key"
    tags = {
    Name = "hello-ohio"
    }
}
```

\$ sudo terraform init

```
ubuntu@terraform-server:~/tcode/assignment3$ sudo terraform init

Initializing the backend...

Initializing provider plugins...

- Reusing previous version of hashicorp/aws from the dependency lock file

- Using previously-installed hashicorp/aws v5.14.0

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see any changes that are required for your infrastructure. All Terraform commands should now work.

If you ever set or change modules or backend configuration for Terraform, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.
```

\$ sudo terraform plan

```
ubuntu@terraform-server:~/tcode/assignment3$ sudo terraform plan
Terraform used the selected providers to generate the following execution plan. Reso
urce actions are indicated with the following symbols:
  + create
Terraform will perform the following actions:
  # aws_instance.assignment-3-NV will be created
  + resource "aws_instance" "assignment-3-NV" {
                                            = "ami-053b0d53c279acc90"
     + ami
     + arn
                                            = (known after apply)
     + associate public ip address
                                            = (known after apply)
     + availability zone
                                            = (known after apply)
      + cpu_core_count
                                             = (known after apply)
      + cpu_threads_per_core
                                            = (known after apply)
```

```
# aws instance.assignment-3-OHIO will be created
+ resource "aws_instance" "assignment-3-OHIO" {
   + ami
                                         = "ami-024e6efaf93d85776"
   + arn
                                         = (known after apply)
   + associate public ip address
                                        = (known after apply)
   + availability zone
                                         = (known after apply)
   + cpu core count
                                        = (known after apply)
   + cpu threads per core
                                        = (known after apply)
   + disable_api_stop
                                        = (known after apply)
   + disable api termination
                                         = (known after apply)
   + ebs optimized
                                         = (known after apply)
   + get_password_data
                                         = false
   + host_id
                                         = (known after apply)
   + host_resource_group_arn
                                         = (known after apply)
                                     = (known after apply)
   + iam instance profile
```

```
Plan: 2 to add, 0 to change, 0 to destroy.

Note: You didn't use the -out option to save this plan, so Terraform can't guarante to take exactly these actions if you run "terraform apply" now.
```

\$ sudo terraform apply

* Instances created present in AWS console with their tags:-

