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'
 - Destoyed the previous deployment with terraform destroy command

 Then created a new direcoty named assignment3 and written a main.tf with a hcl script to create instances in ohio and N.Virginia regions and renamed them to "hello-ohio" and "hello-Virginia respectively

```
ubuntu@ip-172-31-35-160:~/assignment2$ cd
ubuntu@ip-172-31-35-160:~$ mkdir assignment3
ubuntu@ip-172-31-35-160:~$ cd assignment3
-bash: cd: assignmmet3: No such file or directory
ubuntu@ip-172-31-35-160:~$ cd assignment3
ubuntu@ip-172-31-35-160:~/assignment3$ ls
ubuntu@ip-172-31-35-160:~/assignment3$ vi main.tf
```

```
provider "aws" [
          secret key = "Pr7tQthXHgkb3dgT+S1010wfwkQPaDrusDdD8Rf8"
          secret_key = "Pr/tgtnxHgkb3ag1+S101"
access_key = "AKIAYJ5MROACCA2BOW5E"
region = "us-east-2"
alias = "ohio"
provider "aws" {
          secret_key = "Pr7tQthXHgkb3dgT+S1010wfwkQPaDrusDdD8Rf8"
access_key = "AKIAYJ5MROACCA2BOW5E"
region = "us-east-1"
alias = "NV"
resource "aws_instance" "this" {
          ami = "ami-05fb0b8c1424f266b"
          instance_type = "t2.micro"
key_name = "venkatohio"
          provider = aws.ohio
          tags = {
                    Name = "hello-ohio"
resource "aws instance" "this1" [
           ami = "ami-0c7217cdde317cfec"
           instance_type = "t2.micro"
           provider = aws.NV
           tags = {
                       Name = "hello-virginia"
```

Initialised terraform

```
ubuntu@ip-172-31-35-160:~/assignment3$ terraform init

Initializing the backend...

Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v5.31.0...
- Installed hashicorp/aws v5.31.0 (signed by HashiCorp)

Terraform has created a lock file .terraform.lock.hol 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.
```

Performed terraform plan

```
ntu@ip-172-31-35-160:~/assignment3$ terraform plan
  erraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
 erraform will perform the following actions:
  # aws_instance.this will be created
+ resource "aws_instance" "this" {
           ami
                                                                  = "ami-05fb0b8c1424f266b"
                                                                 = "ami-USIBUDBC142412
= (known after apply)
= (known after apply)
= (known after apply)
= (known after apply)
           associate_public_ip_address
           associate public_ip_addre
availability_zone
cpu_core_count
cpu_threads_per_core
disable_api_stop
disable_api_termination
                                                                 - (known after apply)
= (known after apply)
= (known after apply)
= (known after apply)
           ebs_optimized
get_password_data
host_id
                                                                  = false
= (known after apply)
                                                                     (known after apply)
           subnet_id
            tags
+ "Name" = "hello-virginia"
           tags_all + "Name" = "hello-virginia"
           tenancy
user_data
user_data_base64
                                                                  = (known after apply)
                                                                  = (known after apply)
= (known after apply)
           user_data_replace_on_change
vpc_security_group_ids
                                                                  = false
                                                                  = (known after apply)
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 guarantee to take exactly these actions if you run "terraform apply" now.
```

Applied changes with terraform aplly command

```
ubuntu@ip-172-31-35-160:~/assignment3$ terraform apply
  erraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
 erraform will perform the following actions:
  # aws_instance.this will be created
+ resource "aws_instance" "this" {
         ami
arn
                                                           = "ami-05fb0b8c1424f266b"
                                                           = "ami-OSIDUB8C142412
= (known after apply)
= (known after apply)
= (known after apply)
= (known after apply)
         arn
associate public ip_address
availability_zone
cpu_core_count
cpu_threads_per_core
disable api stop
                                                           = (known after apply)
Plan: 2 to add, 0 to change, 0 to destroy.
 Oo 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.this: Creating...
aws_instance.this1: Creating...
aws_instance.this: Still creating... [10s elapsed]
 aws_instance.this1: Still creating... [10s elapsed]
 aws_instance.this: Still creating... [20s elapsed]
aws_instance.this1: Still creating... [20s elapsed]
aws_instance.this1: Still creating... [30s elapsed]
aws_instance.this1: Still creating... [30s elapsed]
aws_instance.this1: Still creating... [30s elapsed]
aws_instance.this: Creation complete after 32s [id=i-043ebc1518de9950a]
aws_instance.this1: Creation complete after 32s [id=i-0331f0f3d56b74f8a]
 Apply complete! Resources: 2 added, 0 changed, 0 destroyed.
ubuntu@ip-172-31-35-160:~/assignment3$
```