Module 8: Terraform Assignment - 2

- 1. Destroy the previous deployment
- 2. Create a new EC2 instance with an Elastic IP Solution:-

\$ sudo terraform destroy

```
ubuntu@terraform-server:~/tcode/assiqnment1$ sudo terraform destroy
aws_instance.assignment-1: Refreshing state... [id=i-07f047b84779d654c]
Terraform used the selected providers to generate the following execution plan. Reso
urce actions are indicated with the following symbols:
   destroy
Terraform will perform the following actions:
  # aws instance.assignment-1 will be dest:
    resource "aws instance" "assignment-1" {
                                             = "ami-024e6efaf93d85776" -> null
       ami
                                             = "arn:aws:ec2:us-east-2:806224870762:i
nstance/i-07f047b84779d654c" -> null
      associate_public_ip_address
                                             = true -> null
                                             = "us-east-2a" -> null
       availability_zone
       cpu_core_count
      - cpu threads per core
      disable_api_stop
                                            = false -> null
       disable_api_termination
                                            = false -> null
       ebs_optimized
                                             = false -> null
                                            = false -> null
= false -> null
        get password data
       hibernation
                                             = "i-07f047b84779d654c" -> null
        instance initiated shutdown behavior = "stop"
```

```
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.assignment-1: Destroying... [id=i-07f047b84779d654c]

aws_instance.assignment-1: Still destroying... [id=i-07f047b84779d654c, 10s elapsed]

aws_instance.assignment-1: Still destroying... [id=i-07f047b84779d654c, 20s elapsed]

aws_instance.assignment-1: Destruction complete after 30s

Destroy complete! Resources: 1 destroyed.
```

```
$ cd ..
$ cd assignment2
```

```
ubuntu@terraform-server:~/tcode/assignment1$ cd ..
ubuntu@terraform-server:~/tcode$ cd assignment2
ubuntu@terraform-server:~/tcode/assignment2$
```

\$ vi provider.tf

```
provider "aws" {
    region = "us-east-2"
    access_key = "AKIA3XNV7HVVOZH64X44"
    secret_key =
"ISTXt0XOPP9sJfxlrmM6RpZvvVDdQIw4eMmtd
tWE"
}
```

\$ vi main.tf

```
resource "aws_instance" "assignment-2" {
    ami = "ami-024e6efaf93d85776"
    instance_type = "t2.micro"
    key_name = "terraform_key"
    tags = {
     Name = "assignment-2"
     }
}
resource "aws_eip" "eip" {
    vpc = true
}
resource "aws_eip_association" "eip_assoc" {
```

```
instance_id = aws_instance.assignment-2.id
allocation_id = aws_eip.eip.id
}
```

```
ubuntu@terraform-server:~/tcode/assignment2$ cat provider.tf
provider "aws" {
       region = "us-east-2"
        access key = "AKIA3XNV7HVVOZH64X44"
        secret key = "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"
ubuntu@terraform-server:~/tcode/assignment2$ cat main.tf
resource "aws instance" "assignment-2" {
        ami = "ami-024e6efaf93d85776"
        instance_type = "t2.micro"
        key name = "terraform key"
        tags = {
       Name = "assignment-2"
resource "aws eip" "eip" {
 vpc = true
resource "aws eip association" "eip assoc" {
 instance id = aws instance.assignment-2.id
 allocation id = aws eip.eip.id
```

\$ sudo terraform init

```
ubuntu@terraform-server:~/tcode/assignment2$ 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

```
# aws eip association.eip assoc will be created
+ resource "aws_eip_association" "eip_assoc" {
    + allocation id = (known after apply)
                           = (known after apply)
    + id
    + instance id
                           = (known after apply)
    + network_interface_id = (known after apply)
    + private_ip_address = (known after apply)
+ public_ip = (known after apply)
# aws instance.assignment-2 will be created
+ resource "aws_instance" "assignment-2" {
    + ami
                                            = "ami-053b0d53c279acc90"
    + 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)
                                           = false
    + get password data
                                           = (known after apply)
    + host id
    + host resource group arn
                                           = (known after apply)
                                       = (known after apply)
    + iam instance profile
```

\$ sudo terraform apply

```
Enter a value: yes
aws instance.assignment-2: Creating...
aws_eip.eip: Creating...
aws_eip.eip: Creation complete after 0s [id=eipalloc-06180f6ec27311cc4]
aws_instance.assignment-2: Still creating... [10s elapsed]
aws instance.assignment-2: Still creating... [20s elapsed]
aws_instance.assignment-2: Still creating... [30s elapsed]
aws_instance.assignment-2: Creation complete after 31s [id=i-0a40a8e13ab43fb31]
aws_eip_association.eip_assoc: Creating...
aws_eip_association.eip_assoc: Creation complete after 1s [id=eipassoc-0cf037c5186e6
 Warning: Argument is deprecated
   with aws_eip.eip,
   on main.tf line 10, in resource "aws eip" "eip":
   10: vpc = true
 use domain attribute instead
Apply complete! Resources: 3 added, 0 changed, 0 destroyed.
ubuntu@terraform-server:~/tcode/assignment2$
```

* Instance created present in AWS console with their Elastic IP:-

