# **Terraform Assignment - 1**

You have been asked to:

- Create an EC2 service in the default subnet in the ohio region
- ->Created the IAM user
  Gave the access of the EC2 full access
  Login to the IAM user
  Create the EC2 instance

```
root@ip-172-31-8-77:~# cat terra.tf
provider "aws" {
 access key = "AKIAVNPLXOGUOSZZY7UF"
 secret key = "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"
 region = "ap-south-1"
resource "aws instance" "NHI" {
 tags = {
   Name = "pointer"
   env = "NHI"
               = "ami-03bb6d83c60fc5f7c"
 instance type = "t2.micro"
 key_name = "Newword"
 security groups = ["default"]
coot@ip-172-31-8-77:~#
  i-02aa32bb2f6f3a724 (Terraform)
  PublicIPs: 65.1.148.212 PrivateIPs: 172.31.8.77
```

# Run the below command:

terraform init (command to download the required plugins to run the script/login/create) terraform plan (command called dry run to check wether the script is runnable or not ) terraform apply (Run the command to create whatever you written in the script ) terraform distroy (Whatever we created if we want to delete just run the command)

```
root@ip-172-31-8-77:~# terraform init
```

# Initializing the backend...

### Initializing provider plugins...

- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v5.40.0

### 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.

root@ip-172-31-8-77:~#

```
contains will except it and remind you to do so it incressary.
```

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:

Terraform will perform the following actions:

Wlen: 1 to add, 0 to change, 0 to destroy.

```
root@ir-172-31-8-77:-# terraform apply
 Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
        Terraform will perform the following actions:
   # aws_instance.NHI will be created 
+ resource "aws_instance" "NHI" {
               bublic_ir
secondary private_ips
security_groups
+ "default",
             source_dest_check
spot instance request id
                                                                           - true

- (known after apply)

- (known after apply)

- {
                 met_id
                    "Name" - "pointer"
"env" - "NHI"
               ags_all
- "Name" - "pointer"
- "env" - "NHI"
             }
tenzncy
uses_data
uses_data
uses_data_base64
uses_data_seplace_an_change
upc_security_gsoup_ids
                                                                          - (known after apply)
- (known after apply)
- (known after apply)
- false
- (known after apply)
Flem: 1 to add, 0 to change, 0 to destmoy.
Do you want to perform these actions?
Terraform will perform the actions described above.
Only 'yes' will be accepted to approve.
  Enter e velve: yes
ews instance.NHI: Creating...
ews_instance.NHI: Still creating... [10s elepsed]
ews_instance.NHI: Still creating... [20s elepsed]
ews_instance.NHI: Still creating... [30s elepsed]
ews_instance.NHI: Creation complete after 31s [id-i-09d7e6d9csede3dd9]
Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
mort@ip-172-31-8-77:-#
```

```
montEip-172-31-8-77:-# termaform destroy
ews_instance.NHI: Refreshing state... [id-1-09d7e6d9ceede3dd9]
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
- destroy
Terraform will perform the following actions:
 # aws_instance.NHI will be destroys - resource "aws_instance" "NHI" {
       security groups
"default",
         ] -> full
source_dest_check
subnet_id
                                                - true -> hell
- "submet-0437d5410f085e863" -> hell
- {
             "Name" - "pointer"
"env" - "NHI"
         } -> mull
tags_all
- "Name" - "pointer"
- "env" - "NHI"
                                               - "default" -> mull
- false -> mull
- [
        capacity_meservation_specification {
    capacity_meservation_preference = "open" -> null
        enclave_options {
    - enabled - false -> null
       maintenance_options {
    -- auto_mecovery - "default" -> mull
```

```
source_dest_check
subnet_id
                                                                                  - true -> null
- "subnet-0437d5410f085e863" -> null
- {
                  ags_all
- "Name" - "pointer"
- "env" - "NHI"
                                                                                - "default" -> mull
- false -> mull
- [
              capacity_reservation_specification {
    capacity_reservation_preference = "open" -> mull
             enclave_options {
- enabled - false -> null
            maintenance_options {
    -- auto_mecovery - "default" -> mull
            metadata_options {
- http_endpoint - "enabled" -> holl
- http_pschoool_ipv6 - "disabled" -> holl
- http_pst_esponse_hop_limit - 1 - holl
- http_tokens - "optional" -> holl
- instance_metadata_tags - "disabled" -> holl
            private_dns_name_options {
    enable_resource_name_dns_arecord - false -> hell
    enable_resource_name_dns_area_record - false -> hell
    hostname_type - "ip-name" -> hell
          Flam: 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 e velue: yes
ows instance.NHI: Destroying...[id-1-09d7e6d9ceede3dd9]
ows_instance.NHI: Still destroying...[id-1-09d7e6d9ceede3dd9, l0s elepsed]
ows_instance.NHI: Still destroying...[id-1-09d7e6d9ceede3dd9, 20s elepsed]
ows_instance.NHI: Still destroying...[id-1-09d7e6d9ceede3dd9, 20s elepsed]
ows_instance.NHI: Destruction_complete_after_40s
Destroy complete! Resources: 1 destroyed.
most@ip-172-31-8-77:-#
```