Terraform Module

Task 1.6 → Using terraform module

Step:1 I created main.tf, Inside it I defined provider & module for creating VPC

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∠ Terra-Auto

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                                 main.tf
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✓ TERRA-AUTO

                                 1.6 Module Terra > 🍟 main.tf
                                    1 provider "aws" {
        > 1.1 Import CMD
                                          region = "us-east-1"
        > 1.2 Import To-Id
        > 1.3 Import VPC
60
        > 1.4 Import Using Py
        > 1.5 Module Own
                                          source = "terraform-aws-modules/vpc/aws"

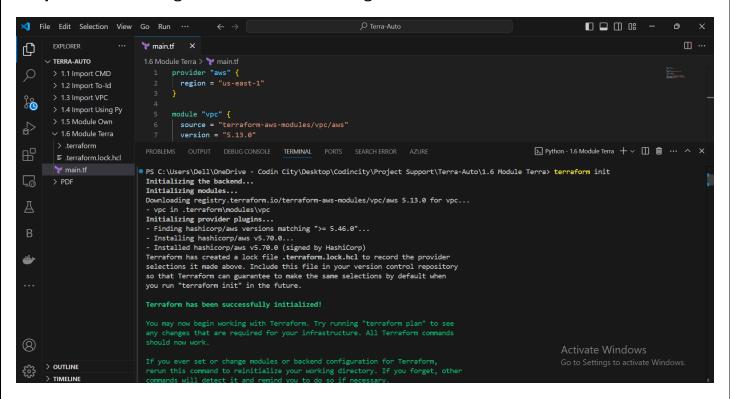
√ 1.6 Module Terra

                                           version = "5.13.0"
         > .terraform
R
                                           name = "my-vpc-terra"
         cidr = "10.0.0.0/16"

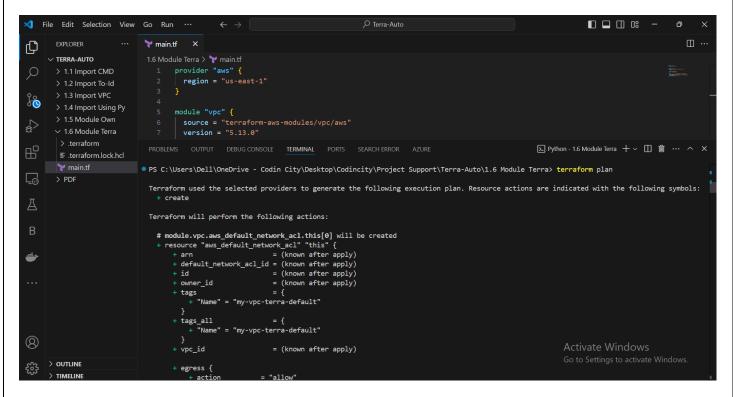
    ■ .terraform.tfstate.lock....

                                   11
        main.tf
                                          azs = ["us-east-1a", "us-east-1b"]
public_subnets = ["10.0.1.0/24", "10.0.2.0/24"]
        {} terraform.tfstate
        > PDF
                                           private_subnets = ["10.0.101.0/24", "10.0.102.0/24"]
                                           enable_nat_gateway = true
```

Step:2 After creating module I will initializing the terraform file -> terraform init



Step:3 → terraform plan



Step:4 → terraform apply –auto-approve

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∠ Terra-Auto

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                                        region = "us-east-1"
        > 1.2 Import To-Id
8
       > 1.4 Import Using Py
        > 1.5 Module Own
                                                                                                                                     ∑ Python - 1.6 Module Terra + ∨ □ ★ ··· ∧ ×
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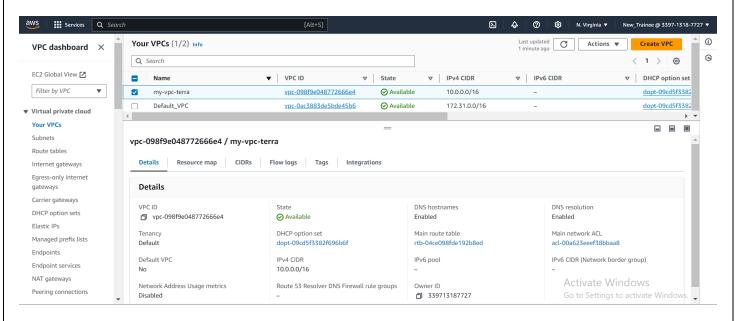
√ 1.6 Module Terra

                             O PS C:\Users\Dell\OneDrive - Codin City\Desktop\Codincity\Project Support\Terra-Auto\1.6 Module Terra> terraform apply --auto-approve
        > .terraform
        Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:

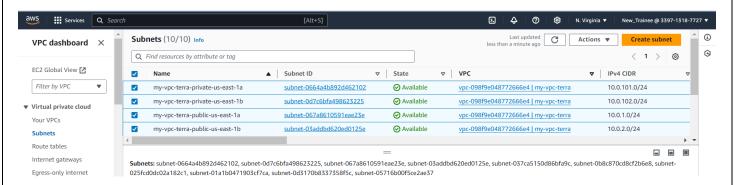
    ■ .terraform.tfstate.loc...

                                  + create
        main.tf
                                Terraform will perform the following actions:
        {} terraform.tfstate
Д
        > PDF
                                  # module.vpc.aws_default_network_acl.this[0] will be created
                                              "aws_default_network_acl"
                                                                = (known after apply)
                                       + default_network_acl_id = (known after apply)
                                                                = (known after apply)
= (known after apply)
                                      + id
                                        owner_id
#
                                             "Name" = "my-vpc-terra-default"
                                      + tags_all
                                             "Name" = "my-vpc-terra-default"
                                                                = (known after apply)
(8)
                                      + egress {
                                                             = "allow"
                                                                                                                                            Activate Windows
                                          + action
+ from_port
                                          + from_port = 0
+ ipv6_cidr_block = "::/0"
+ protocol = "-1"
     > OUTLINE
£653
     > TIMELINE
```

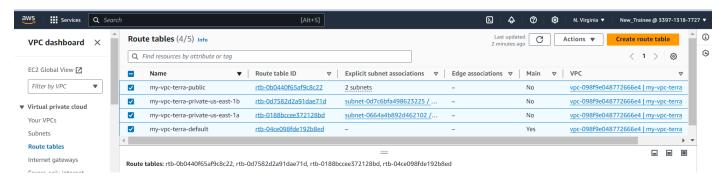
Step:5 The VPC has been created named as my-vpc-terra



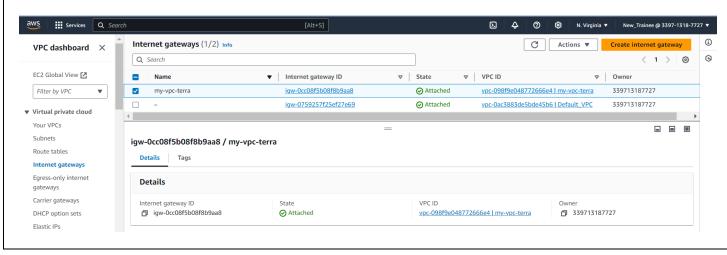
Step:6 Created two public subnets & two private subnets



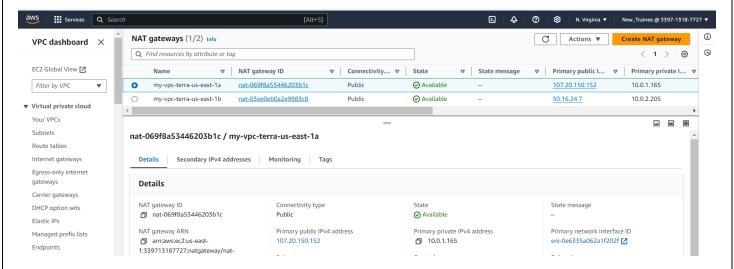
Step:7 Route table has been created & associated with corresponding subnets



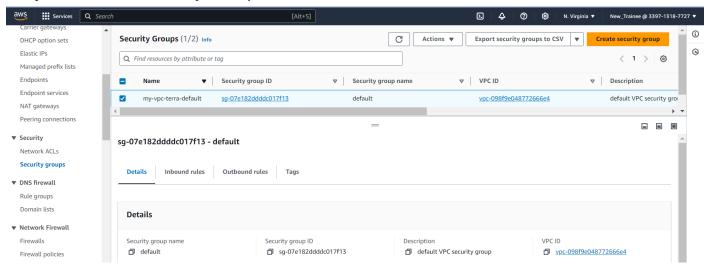
Step:8 Internet Gateway has been created & associated with public subnets



Step:9 NAT Gateway has been created in public subnets & Associated with Private subnets



Step:10 Default Security Group has been created



Step:11 This is the flow of using modules

