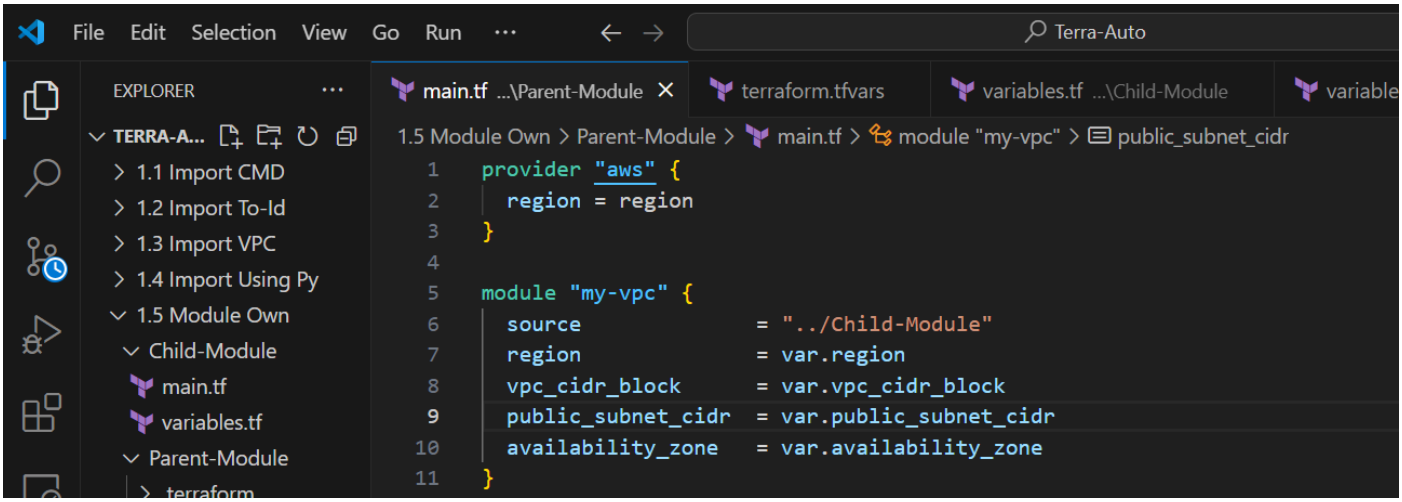
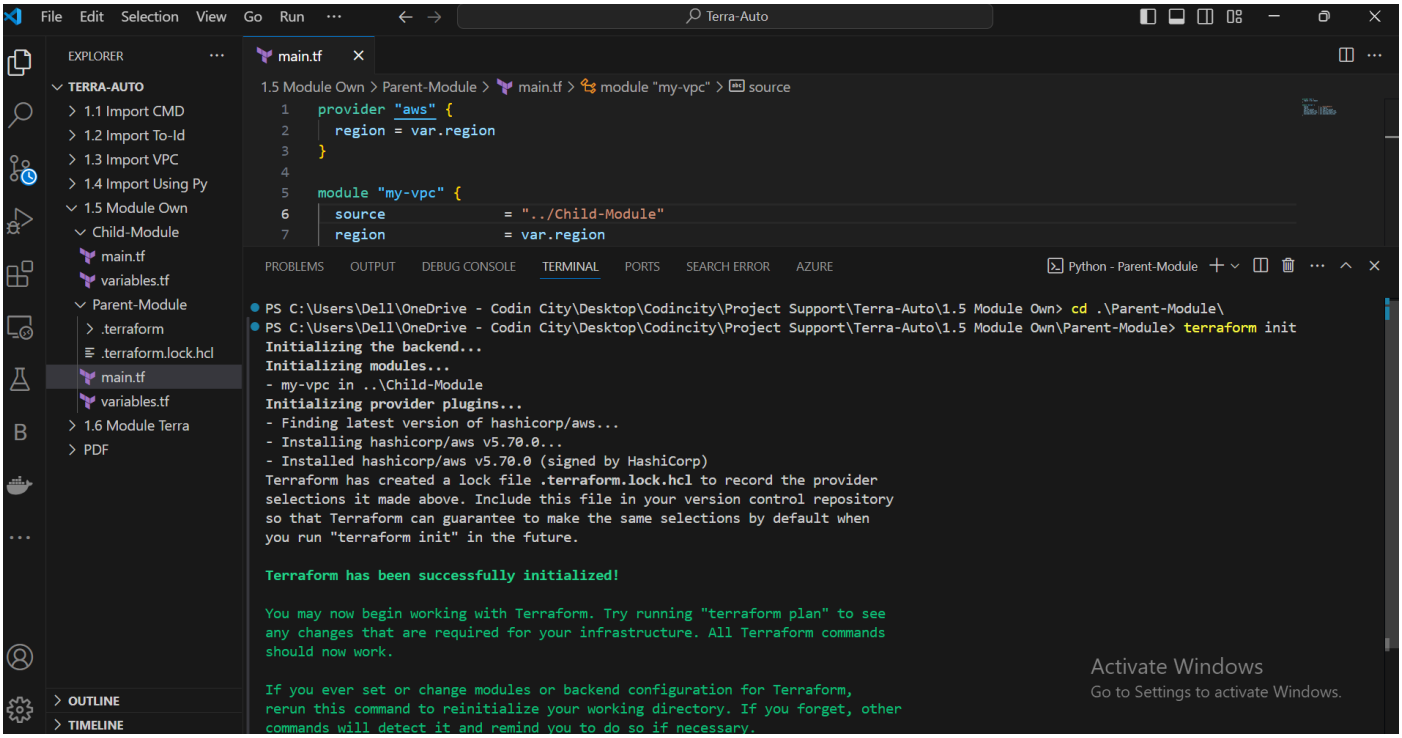
Terraform Own Module

Task 1.5 → Creating terraform own module

Step:1 I created two folders for two modules **Child-Module, Parent-Module,** Inside the module I created **main.tf & variables.tf**



Step:2 After creating module I will initializing the terraform file → **terraform init**



Step:3 → terraform plan

```
1.5 Module Own > Parent-Module > main.tf > module "my-vpc" > public_subnet_cidr
provider "aws" {
  region = region
}

module "my-vpc" {
  source              = "../Child-Module"
```

```
PS C:\Users\Dell\OneDrive - Codin City\Desktop\Codincity\Project Support\Terra-Auto\1.5 Module Own\Parent-Module> terraform plan

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

Terraform will perform the following actions:

  # module.my-vpc.aws_internet_gateway.igw will be created
  + resource "aws_internet_gateway" "igw" {
      + arn      = (known after apply)
      + id       = (known after apply)
      + owner_id = (known after apply)
      + tags_all = (known after apply)
      + vpc_id   = (known after apply)
    }

  # module.my-vpc.aws_route_table.public_rt will be created
  + resource "aws_route_table" "public_rt" {
      + arn             = (known after apply)
      + id              = (known after apply)
      + owner_id        = (known after apply)
      + propagating_vgws = (known after apply)
      + route           = [
```

Step:4 → terraform apply –auto-approve

```
1.5 Module Own > Parent-Module > main.tf > module "my-vpc" > public_subnet_cidr
module "my-vpc" {
  source              = "../Child-Module"
  region              = var.region
```

```
PS C:\Users\Dell\OneDrive - Codin City\Desktop\Codincity\Project Support\Terra-Auto\1.5 Module Own\Parent-Module> terraform apply --auto-a
pprove

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

Terraform will perform the following actions:

  # module.my-vpc.aws_internet_gateway.igw will be created
  + resource "aws_internet_gateway" "igw" {
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      + id       = (known after apply)
      + owner_id = (known after apply)
      + tags_all = (known after apply)
      + vpc_id   = (known after apply)
    }

  # module.my-vpc.aws_route_table.public_rt will be created
  + resource "aws_route_table" "public_rt" {
      + arn             = (known after apply)
      + id              = (known after apply)
      + owner_id        = (known after apply)
      + propagating_vgws = (known after apply)
      + route           = [
```
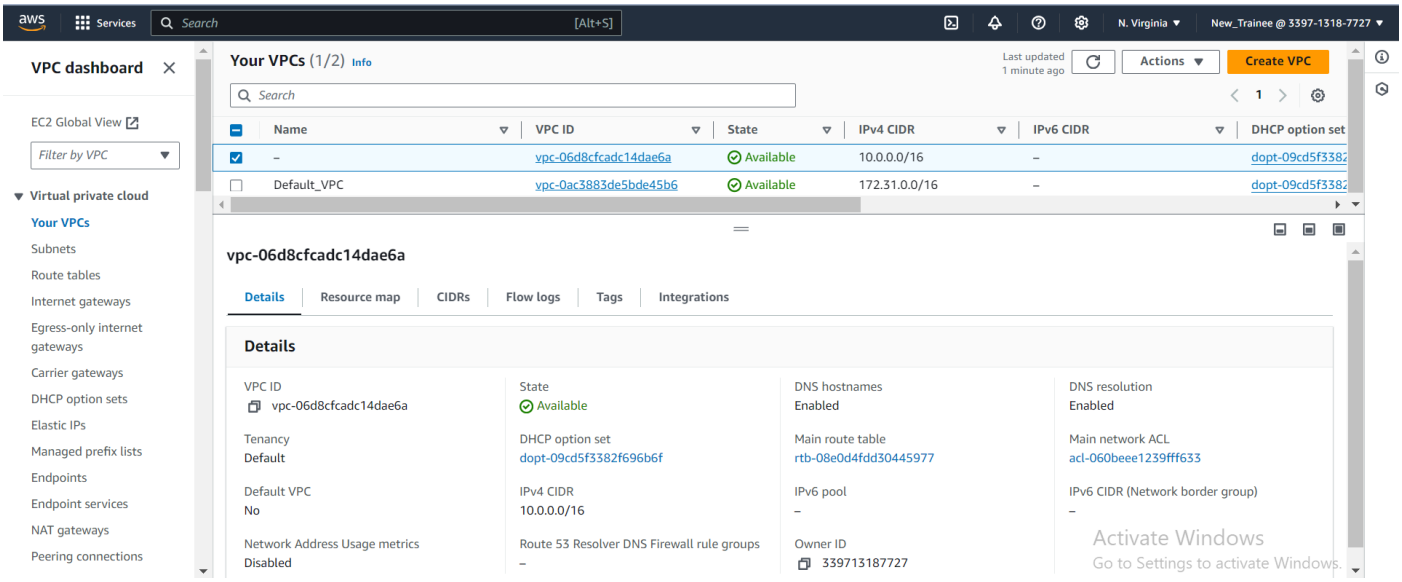
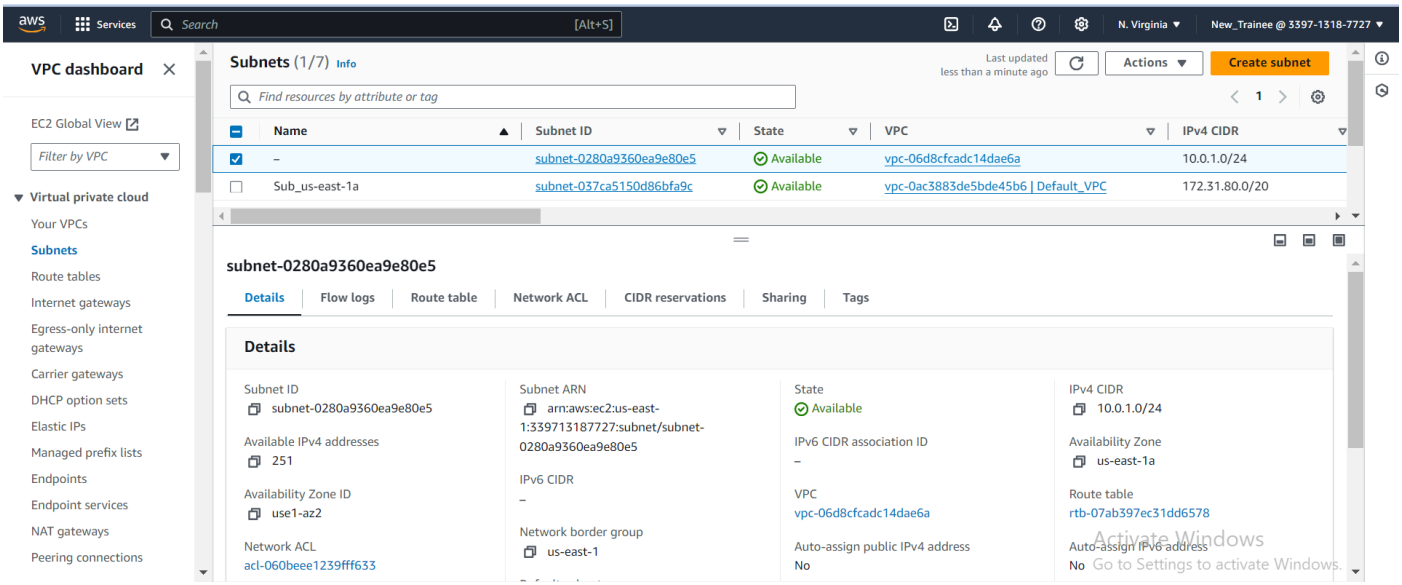
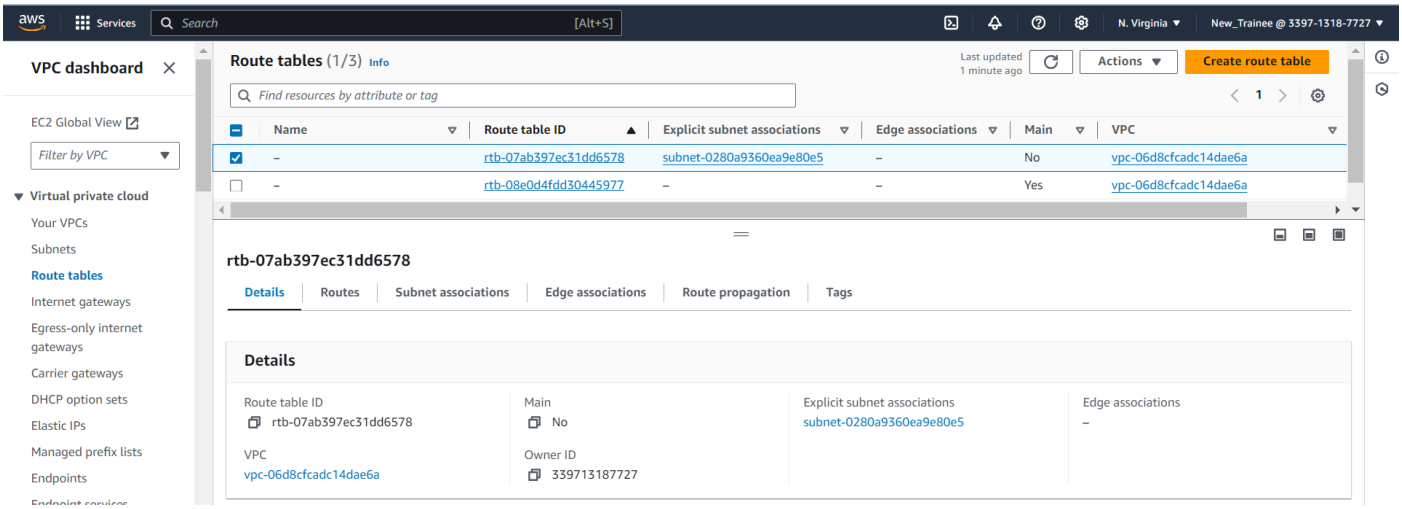

Step:5 The VPC has been created



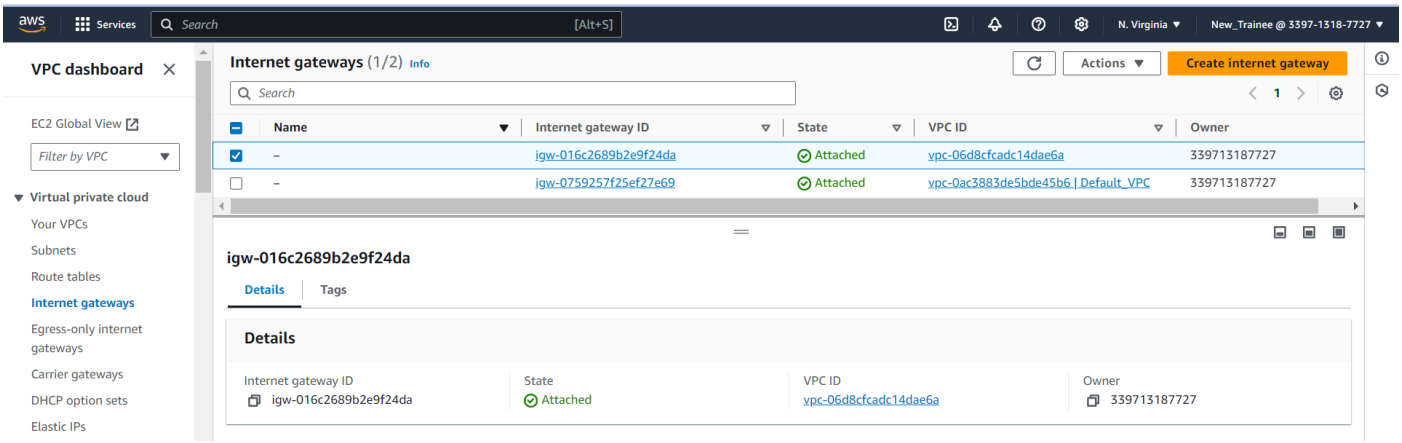
Step:6 Created one public subnet



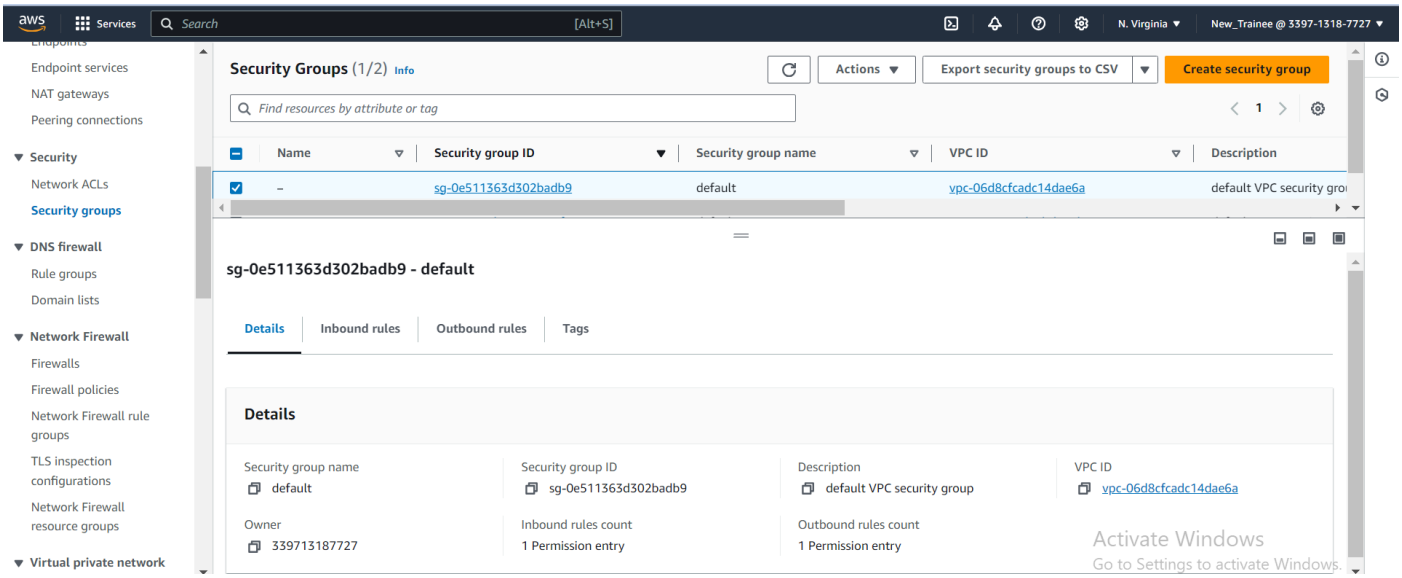
Step:7 Route table has been created & associated with corresponding subnet



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



Step:9 Default Security Group has been created



Step:10 This is the flow of using modules