

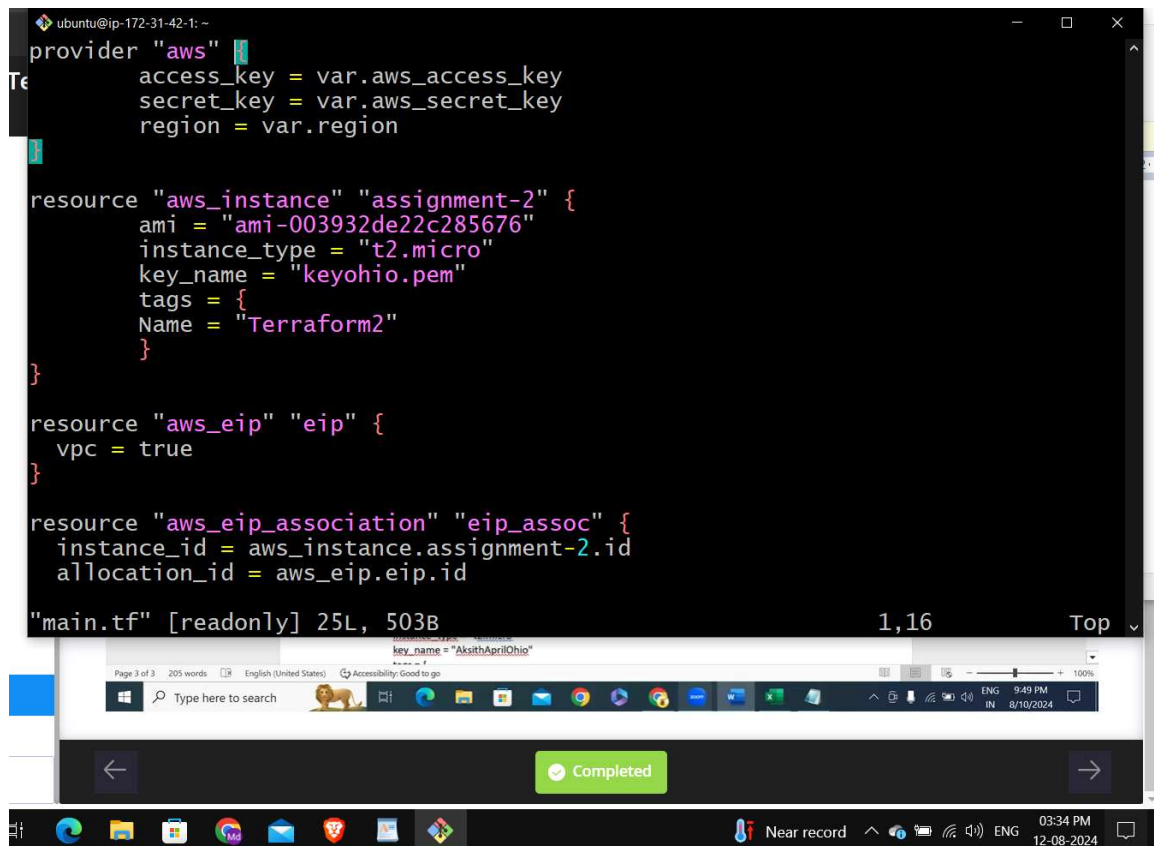
Assignment2

Terraform 2

Tasks To Be Performed:

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

Step1: Terraform logic creation with elastic IP



```
ubuntu@ip-172-31-42-1: ~  
provider "aws" {  
  access_key = var.aws_access_key  
  secret_key = var.aws_secret_key  
  region = var.region  
}  
  
resource "aws_instance" "assignment-2" {  
  ami = "ami-003932de22c285676"  
  instance_type = "t2.micro"  
  key_name = "keyohio.pem"  
  tags = {  
    Name = "Terraform2"  
  }  
}  
  
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  
}  
  
"main.tf" [readonly] 25L, 503B 1,16 Top
```

The screenshot shows a terminal window with the Terraform configuration for an AWS EC2 instance. The configuration includes the AWS provider, an EC2 instance resource named "assignment-2", an Elastic IP resource named "eip", and an Elastic IP association resource named "eip_assoc". The EC2 instance is configured with the ami "ami-003932de22c285676", instance type "t2.micro", and key name "keyohio.pem". The Elastic IP is configured with vpc = true. The Elastic IP association is configured with instance_id = aws_instance.assignment-2.id and allocation_id = aws_eip.eip.id. The terminal window also shows the file "main.tf" with 25 lines and 503 bytes, and a "Completed" status bar at the bottom.

Step2: To secure the access and secret key we are creating variable file which defines the value.

```

ubuntu@ip-172-31-42-1: ~
variable "aws_access_key" {
  description = "This refers to my access key"
  type = string
  sensitive = true
}

variable "aws_secret_key" {
  description = "This refers to my secret key"
  type = string
  sensitive = true
}

variable "region" {
  description = "This is ohio region"
  type = string
  default = "us-east-2"
}
~
~
~
~
"variable.tf" 17L, 326B 1,1 All

```

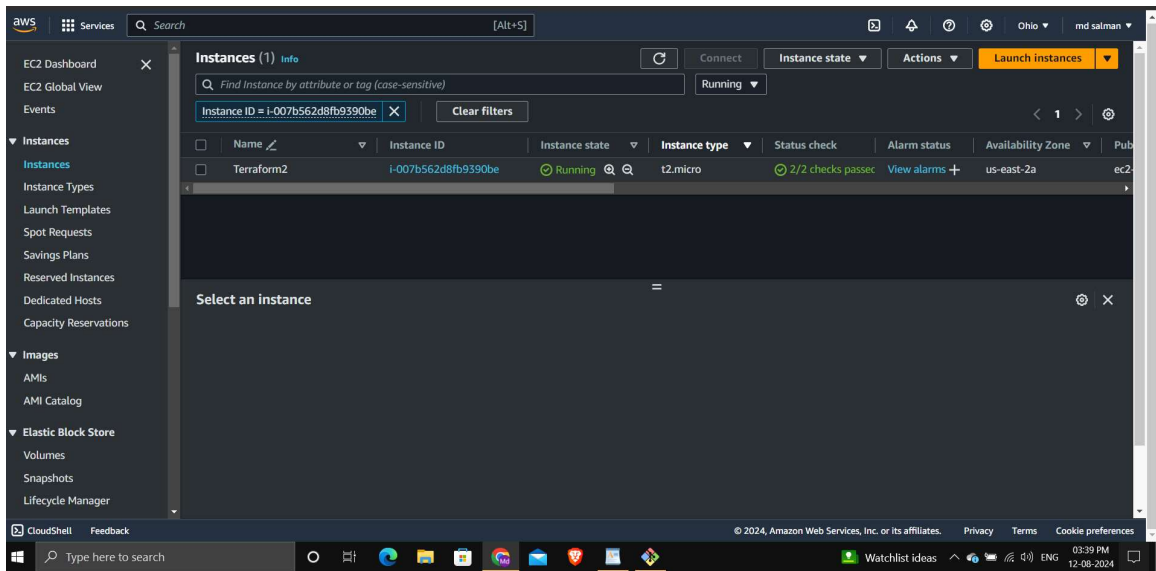
Step3: In terraform variable file we are securing access and secret key.

```

ubuntu@ip-172-31-42-1: ~
aws_access_key = "AKIAYS2NWS4MCJHZL5AG"
aws_secret_key = "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"
~
~
~
~
~

```

Step4: Type In Server Terraform plan, and terraform apply to create resources in aws console.



And you can see our Terraform Instance is ready.