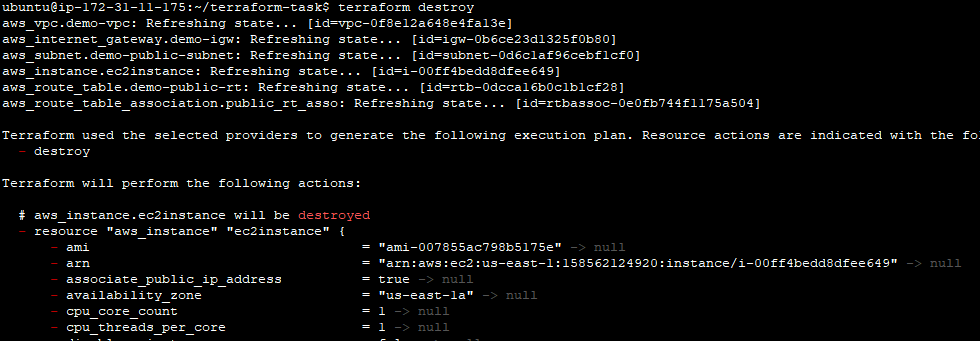
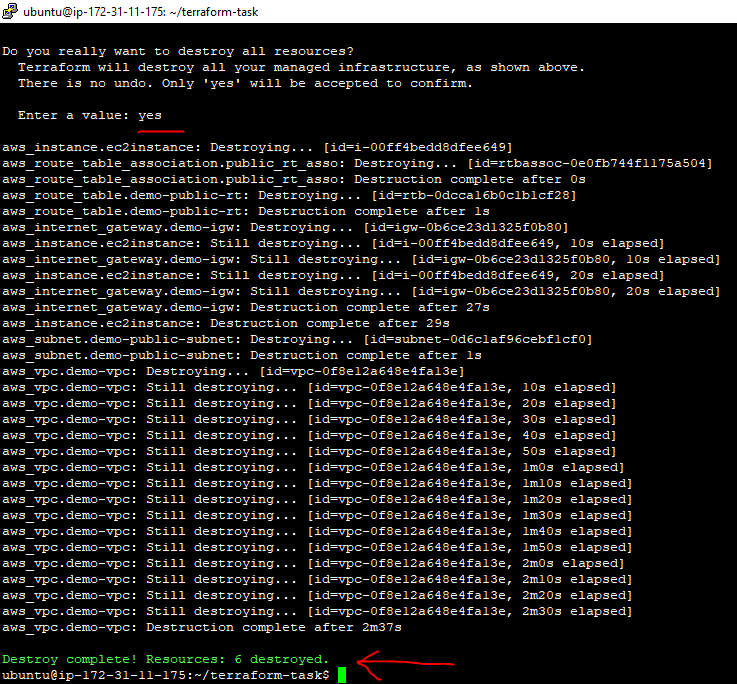
To destroy previous deployment run the below command.

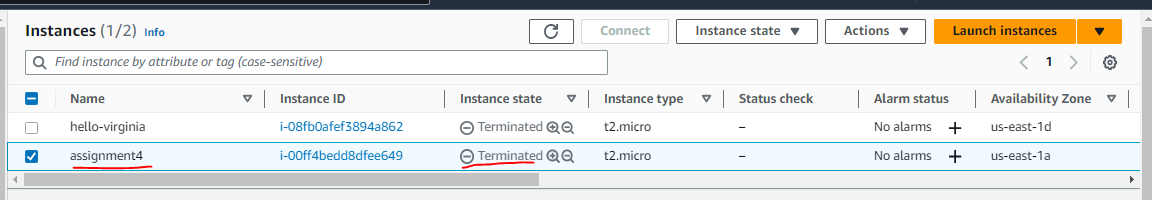
**terraform destroy**



Enter yes to confirm.



And our resources and EC2 instance has been destroyed.



Now create main.tf file with below lines of code. This code include script in user\_data section to install apache2 and export IP address to a file ip.txt

**provider "aws" {**

**access\_key = "AKIASJ2YKAR4DL3NNPHW"**

**secret\_key = "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"**

**region = "us-east-1"**

**}**

**resource "aws\_instance" "assign5\_ec2instance" {**

**ami = "${var.ami\_id}"**

**instance\_type = "${var.instance\_type}"**

**key\_name = "${var.ami\_key\_pair\_name}"**

**security\_groups = ["launch-wizard-1"]**

**tags = {**

**Name ="${var.instance\_name}"**

**}**

**user\_data = <<-EOF**

**#!/bin/bash**

**echo "\*\*\* Installing apache2"**

**sudo apt update -y**

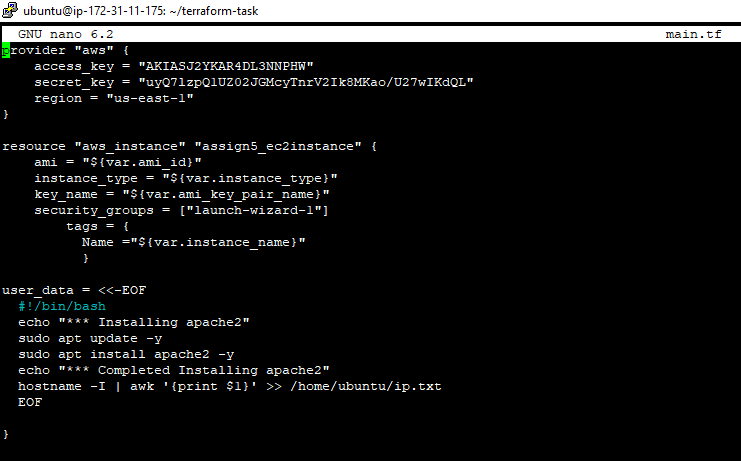
**sudo apt install apache2 -y**

**echo "\*\*\* Completed Installing apache2"**

**hostname -I | awk '{print $1}' >> /home/ubuntu/ip.txt**

**EOF**

**}**



Create a file variables.tf with below lines of code.

**variable "instance\_name" {**

**description = "Name of the instance to be created"**

**default = "assignment05"**

**}**

**variable "instance\_type" {**

**default = "t2.micro"**

**}**

**variable "ami\_id" {**

**description = "The AMI to use"**

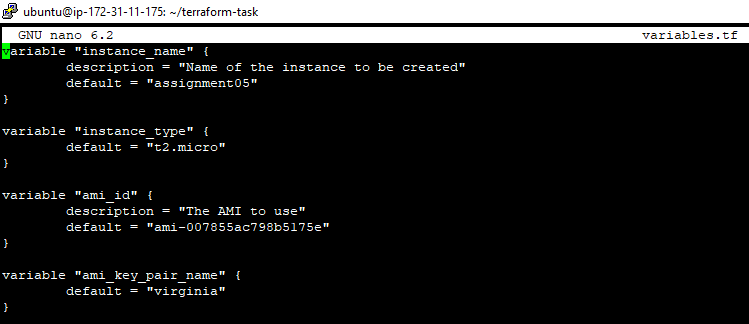
**default = "ami-007855ac798b5175e"**

**}**

**variable "ami\_key\_pair\_name" {**

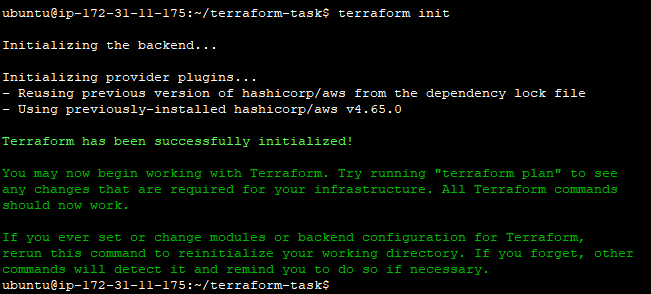
**default = "virginia"**

**}**



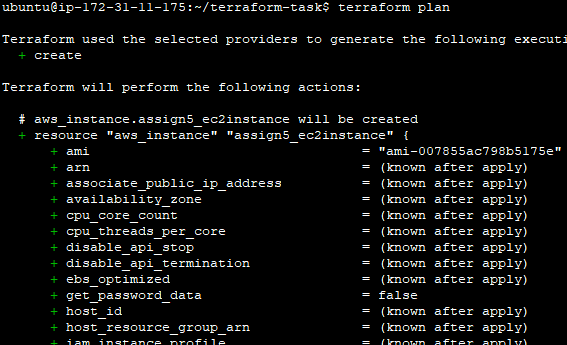
Now initialize terraform.

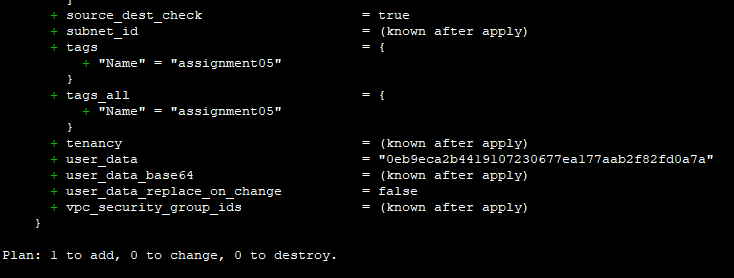
**terraform init**



Now run terraform plan.

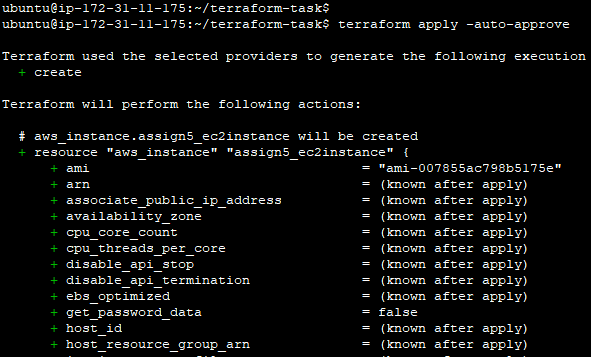
**terraform plan**



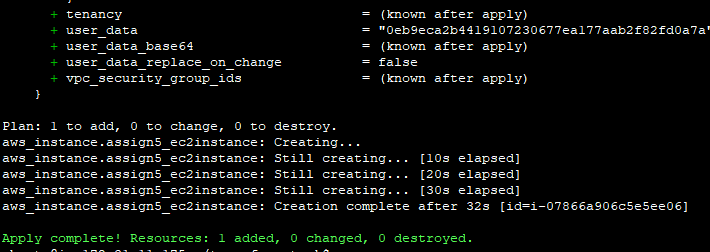


And now execute the terraform code.

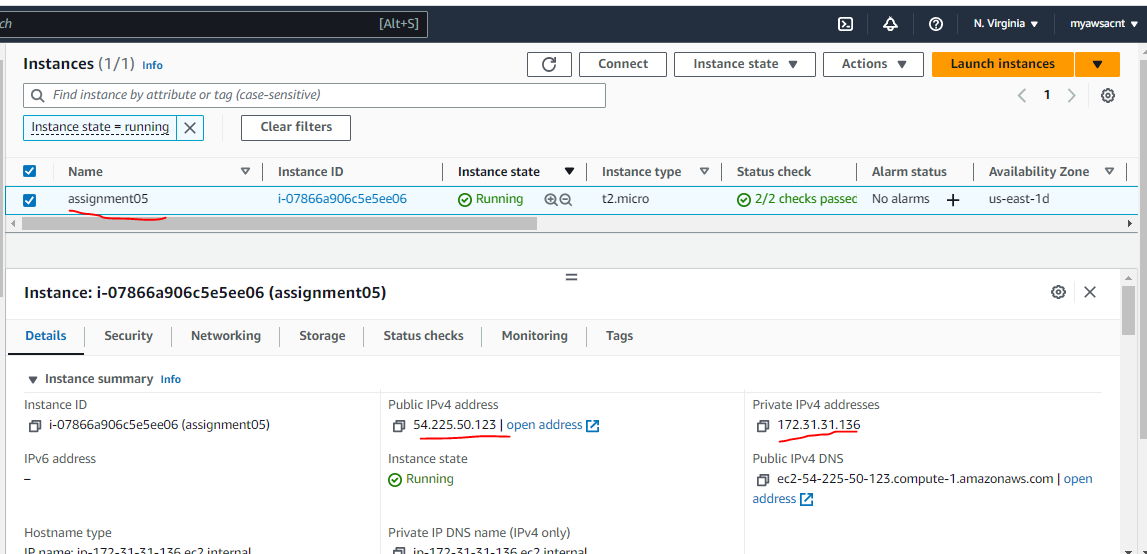
**terraform apply -auto-approve**



And our EC2 instance has been created.



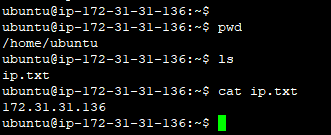
Let’s validate this in AWS management console.



And now let’s check if apache web page is opening with public ip address of this instance.



And let’s login into this instance and check if IP address has been printed to a file locally.



So all the requirements have been successfully fulfilled.