**Terraform Assignment – 5**

**Tasks to Be Performed:**

1. Destroy the previous deployments

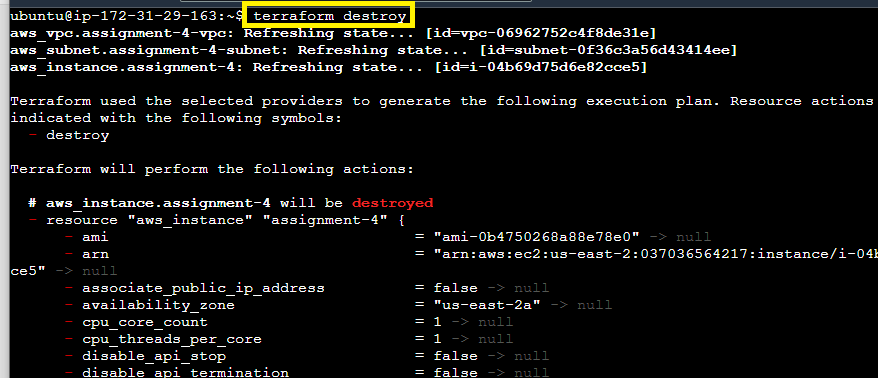
2. Create a script to install Apache2

3. Run this script on a newly created EC2 instance

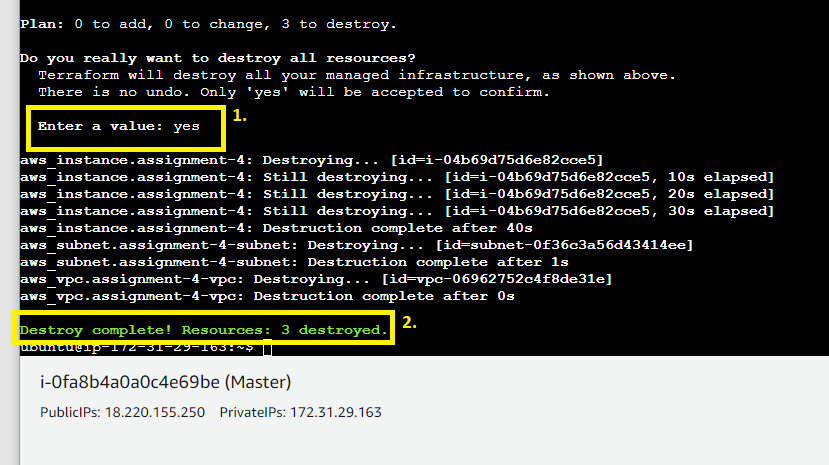
4. Print the IP address of the instance in a file on the local once deployed

**Problem (1) Solution: Destroy the previous deployments**

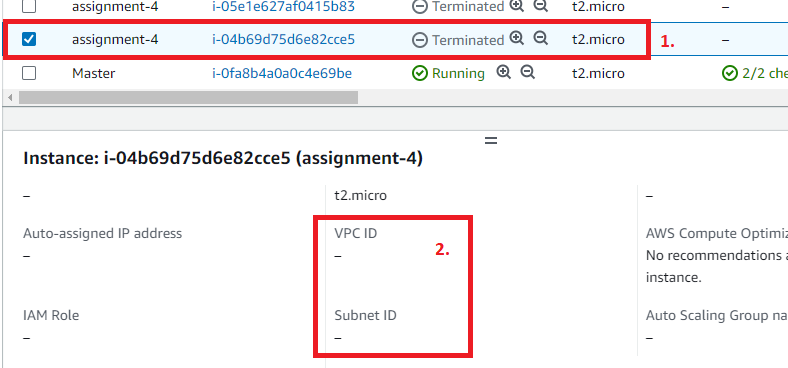
**Step 1: Go** tothe **“Master” & run** the **“terraform destroy” command** to **destroy** the **previous deployments.**

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**Step 2: Type “yes”** to **destroy** the **resources.**

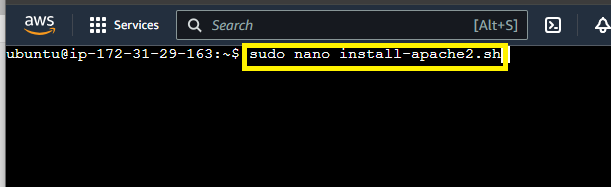
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**Step 3: The “assignment-4” instance** will be **terminated successfully.**

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**Problem (2) Solution: Create a script to install Apache2**

**Step 1: First, we** will **create** a **script file** to **install** the **apache2. Run** this **command: sudo nano install-apache2.sh**

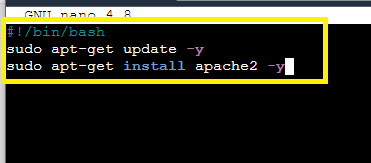
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**Step 2: Paste** this **script here:**

**#!/bin/bash**

**sudo apt-get update -y**

**sudo apt-get install apache2 –y**

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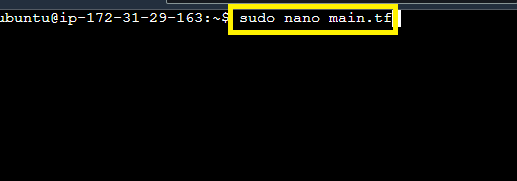
**Do “CTRL+X”** to **exit & press “yes”** to **save the file. Press “enter”** from the **keyboard** to **exit from** the **file completely.**

**Problem (3) & (4) Integrated Solution:**

**3. Run this script on a newly created EC2 instance**

**4. Print the IP address of the instance in a file on the local once deployed**

**Step 1: Create** a **“.tf” file using** the **command: sudo nano main.tf**

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**Step 2: Paste** this **script here** to **create** a **new instance** & **print** the **IP Address.**

**provider "aws" {**

**region = "us-east-2"**

**access\_key = "AKIAQRH4ND34WNGRNWOP"**

**secret\_key = "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"**

**}**

**resource "aws\_instance" "assignment-5" {**

**ami = "ami-0b4750268a88e78e0"**

**instance\_type = "t2.micro"**

**key\_name = "Terraform"**

**user\_data = "${file("install-apache2.sh")}"**

**tags = {**

**Name = "assignment-5"**

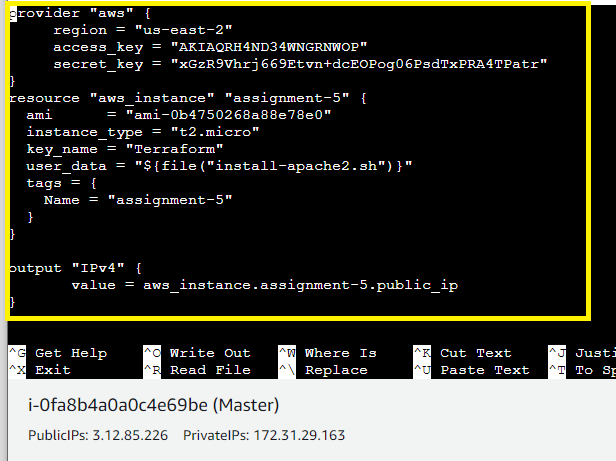
**}**

**}**

**output "IPv4" {**

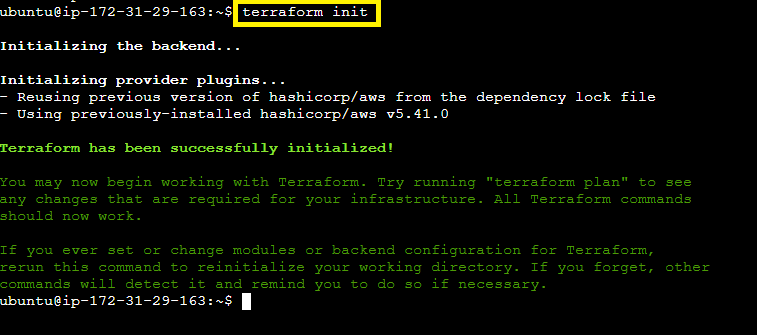
**value = aws\_instance.assignment-5.public\_ip**

**}**

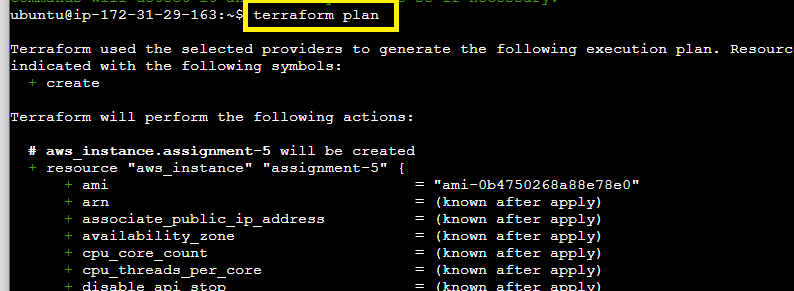
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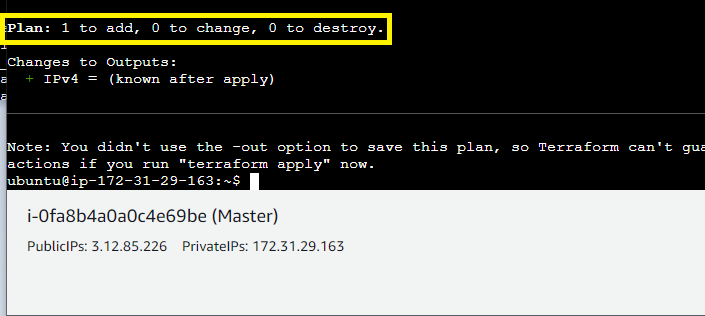
**Do “CTRL+X”** to **exit & press “yes”** to **save the file. Press “enter”** from the **keyboard** to **exit from** the **file completely.**

**Step 3: Initialize** the **“Terraform” using** the **command: terraform init**

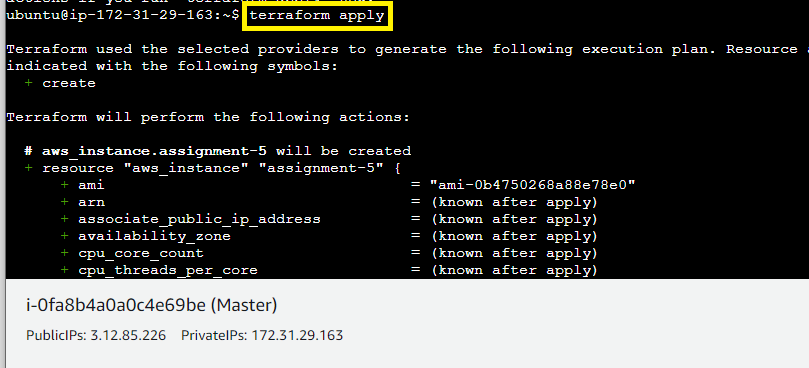
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**Step 4: Add** the **plan using** this **command: terraform plan**

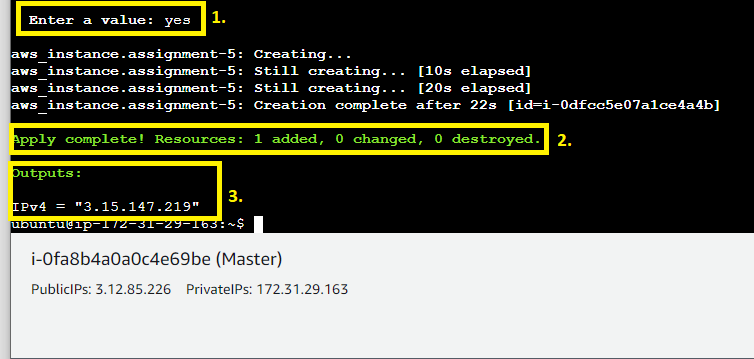
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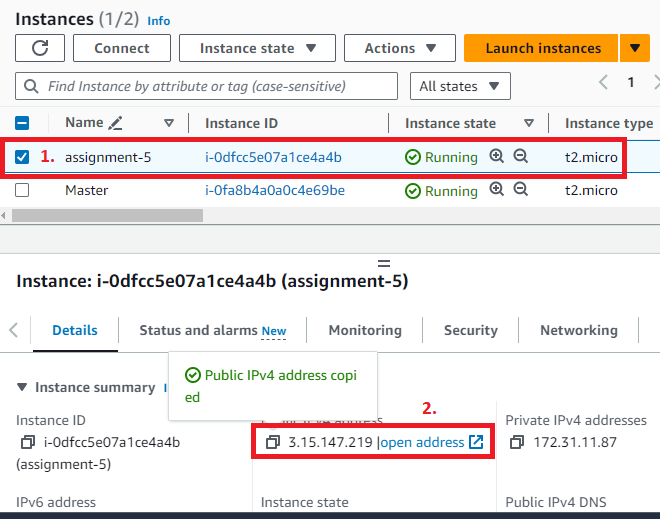
**Step 5: Create** the **infrastructure using** the **command: terraform apply.**

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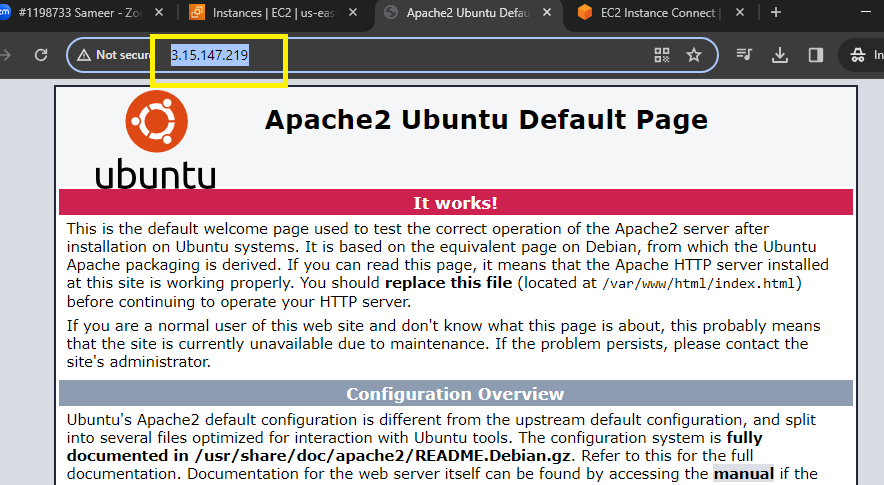
**Step 5: Type “yes”** to **create the infrastructure.**

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**Step 6: Go** to the **“Instances” & an instance** named **“assignment-5”** has been **successfully created** withthe **public IP address (3.15.147.219).**

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**Step 7: When we click** onthe **“Open Address”** in the **“Public IP Address”. An apache2 page** will be **successfully opened.**

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**🡨-----------------------------Assignment 5 Completed----------------------------🡪**