**Terraform Assignment – 4**

**Tasks to Be Performed:**

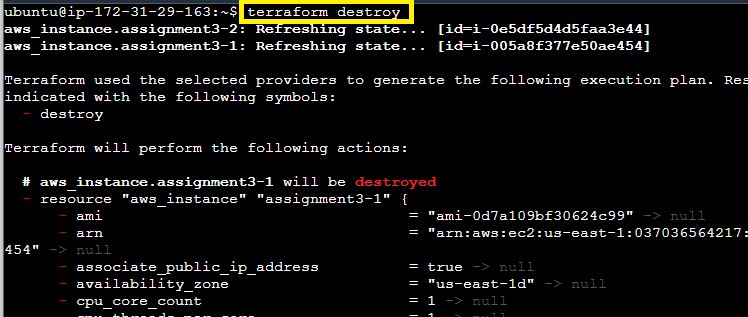
1. Destroy the previous deployments

2. Create a VPC with the required components using Terraform

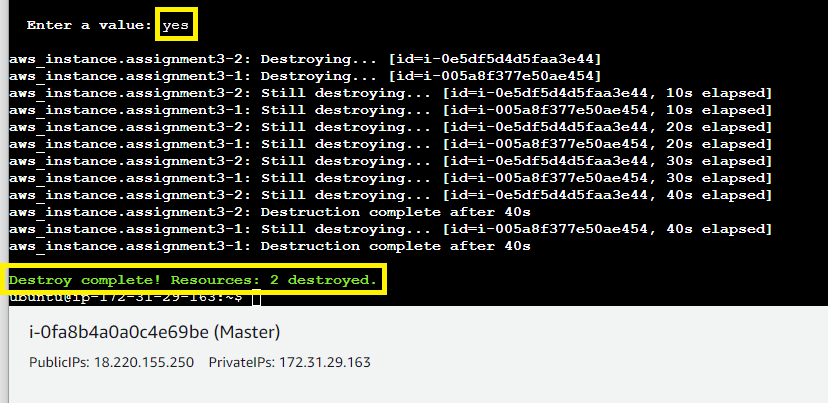
3. Deploy an EC2 instance inside the VPC

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

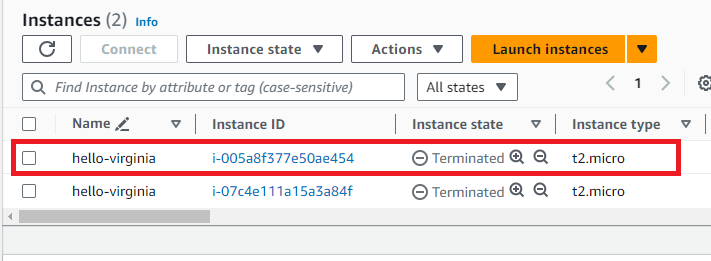
**Step 1: Go** tothe **“Master” & run** the **“terraform destroy” command** to **destroy** the **previous deployments.**

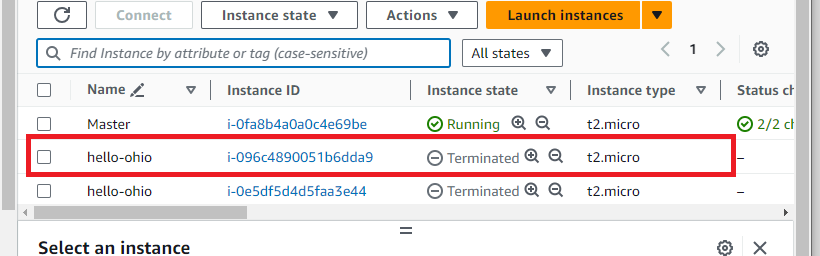
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**Step 2: Type “yes”** to **destroy** the **resources.**

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**Step 3: Both** the **“hello-vriginia” & “hello-ohio” instances** will be **terminated successfully.**

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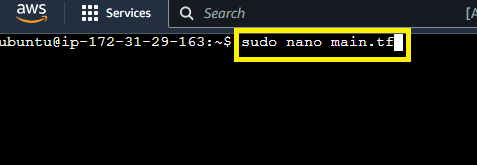
**Problem (2) & (3) Integrated Solution:**

2. Create a VPC with the required components using Terraform

3. Deploy an EC2 instance inside the VPC

**Step 1: Go** tothe **“Master” instance** & **create** a **“main.tf” file** for **VPC creation.**

**Use this command: sudo nano main.tf**

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**Step 2: Paste** this **script** to **create** the **Instance** with **VPC:**

**provider "aws" {**

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

**access\_key = "AKIAQRH4ND34WNGRNWOP"**

**secret\_key = "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"**

**}**

**resource "aws\_instance" "assignment-4" {**

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

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

**subnet\_id = aws\_subnet.assignment-4-subnet.id**

**key\_name = "Terraform"**

**tags = {**

**Name = "assignment-4"**

**}**

**}**

**resource "aws\_vpc" "assignment-4-vpc" {**

**cidr\_block="10.10.0.0/16"**

**tags= {**

**Name = "assignment-4-vpc"**

**}**

**}**

**resource "aws\_subnet" "assignment-4-subnet" {**

**vpc\_id=aws\_vpc.assignment-4-vpc.id**

**cidr\_block="10.10.0.0/18"**

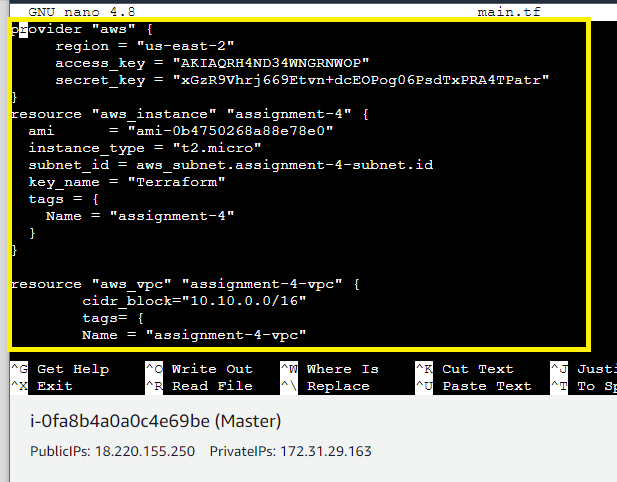
**availability\_zone="us-east-2a"**

**tags = {**

**Name = "assignment-4-subnet"**

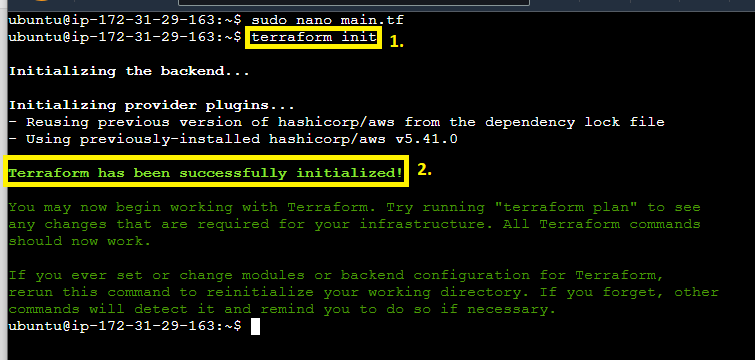
**}**

**}**

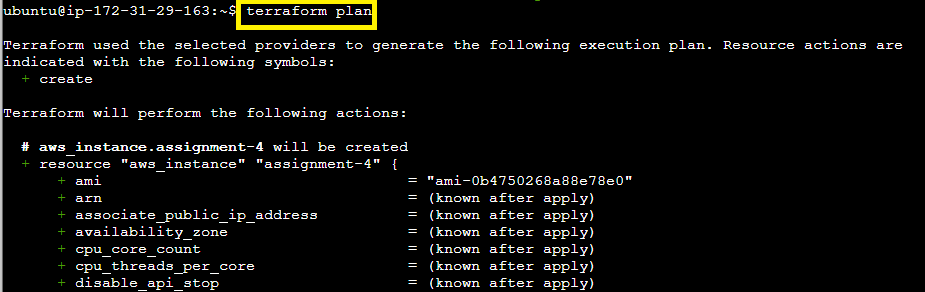
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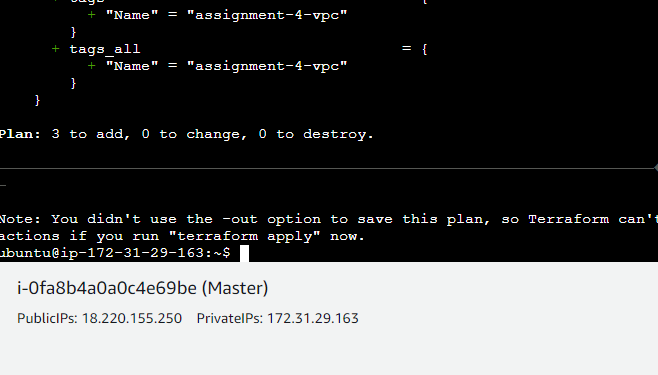
**Do “CTRL+X”** to **exit** & **press “Yes”** to **save the file. Press “enter”** fromthe **keyboard** to **completely exit from** the **file.**

**Step 3: Run** the **“terraform init” command** for **initialization.**

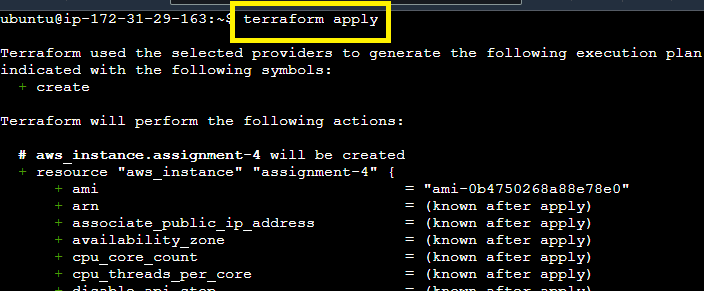
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**Step 4: Run** the **“terraform plan” command** to **plan the infrastructure.**

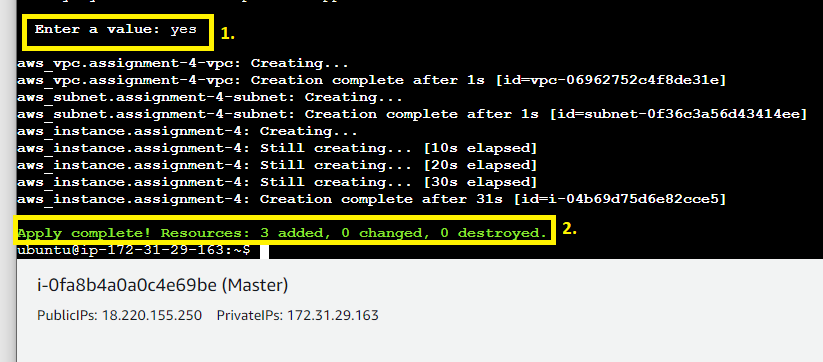
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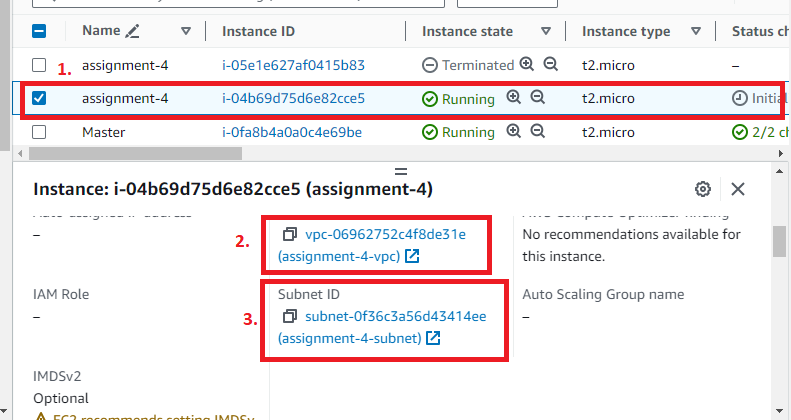
**Step 5: Run** the **“terraform apply” command** to **create** the **instance** with **new “VPC” & “subnet”.**

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**Step 5: Type “yes”** to **create** the **instance** with **new “VPC” & “Subnet”.**

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**Step 6: Go** tothe **“Instance” section** &the **“assignment-4” instance** will be **successfully created** with **the new “VPC”** & **subnet.**

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**🡨-------------------------Assignment-4 Completed----------------🡪**