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Course: Executive Post Graduate Certification in Cloud Computing

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**Assignment 6: Terraform**

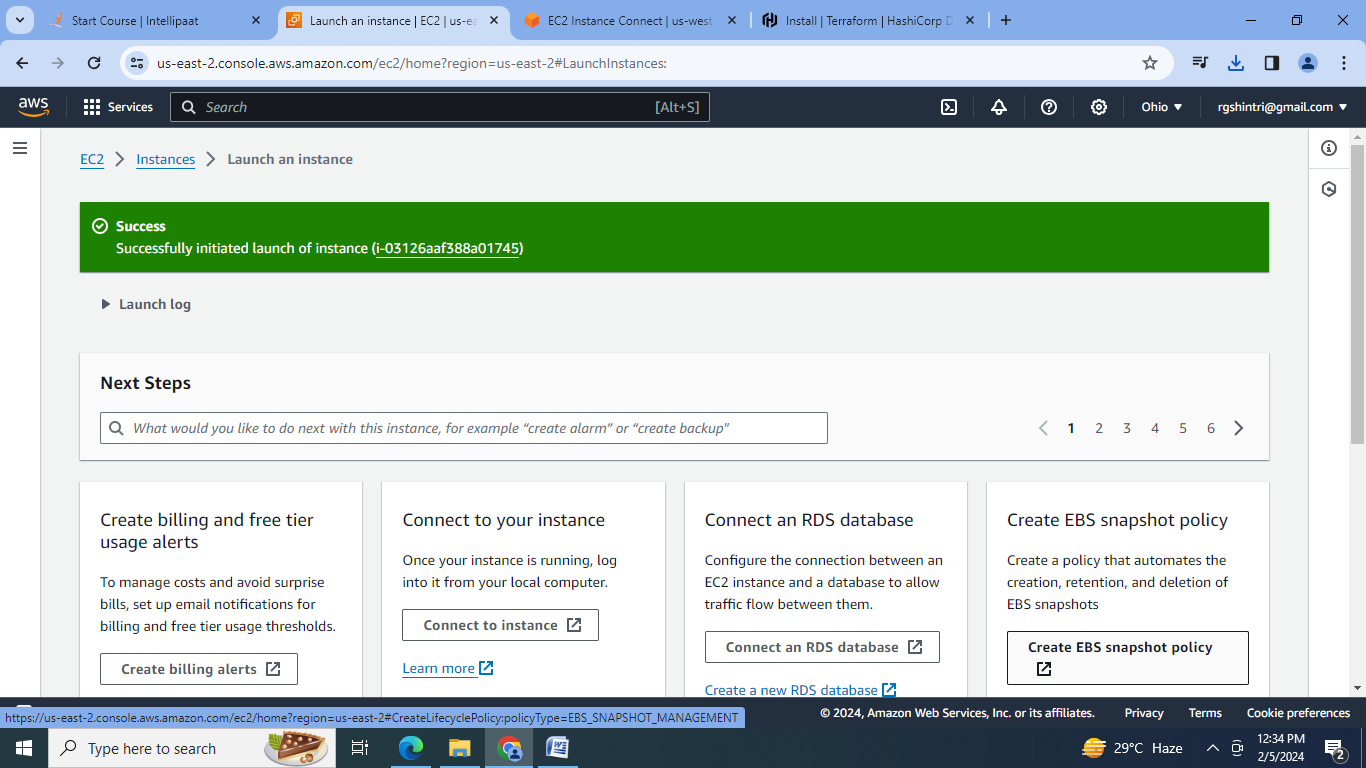
**Task To Be performed:**

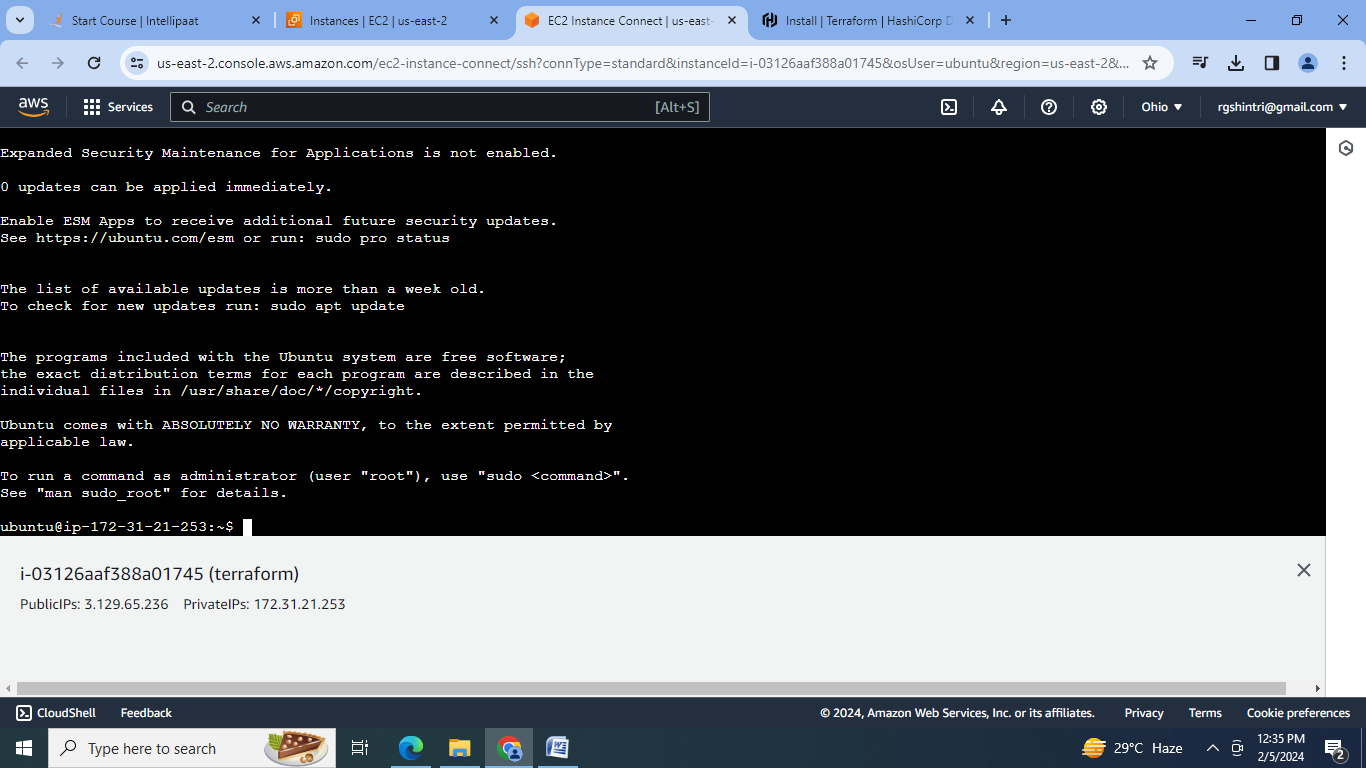
**A] Terraform Assignment 1:**

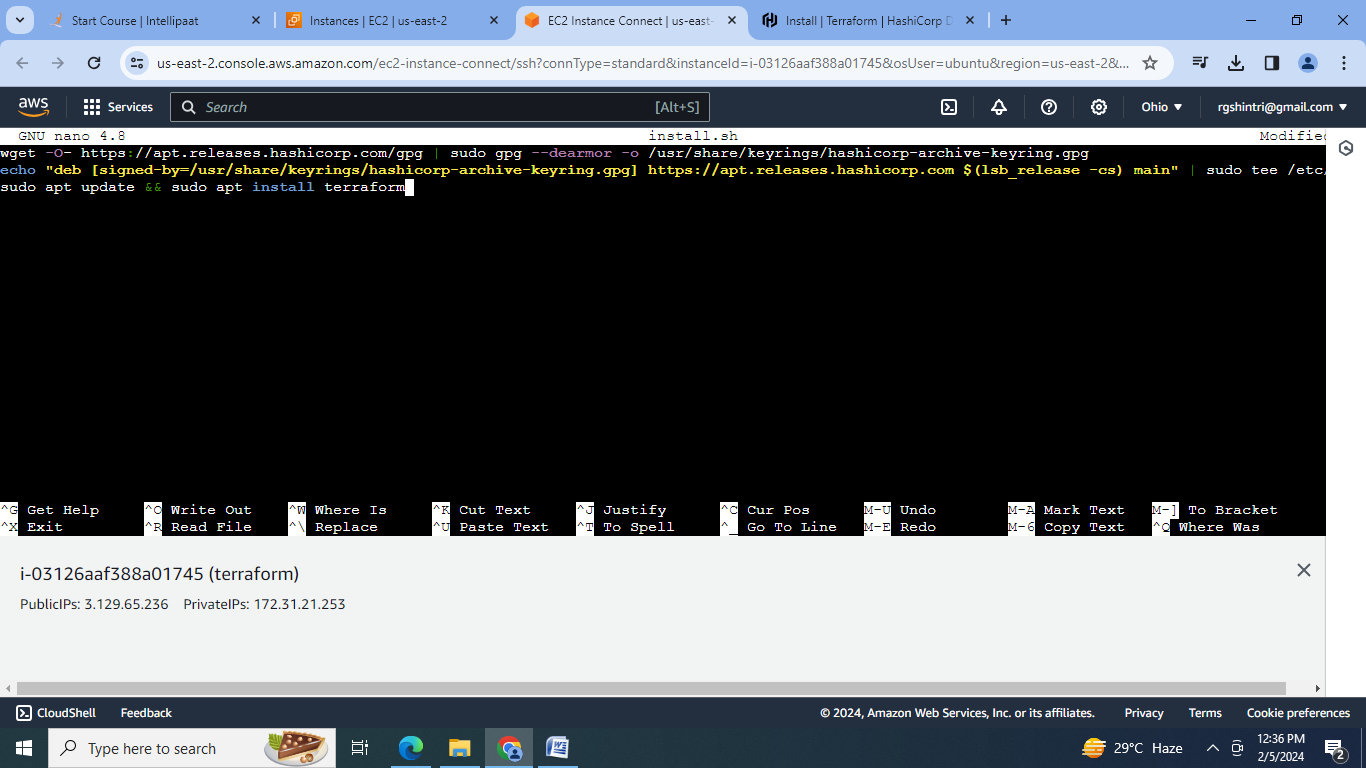
● Create an EC2 service in the default subnet in the ohio region.

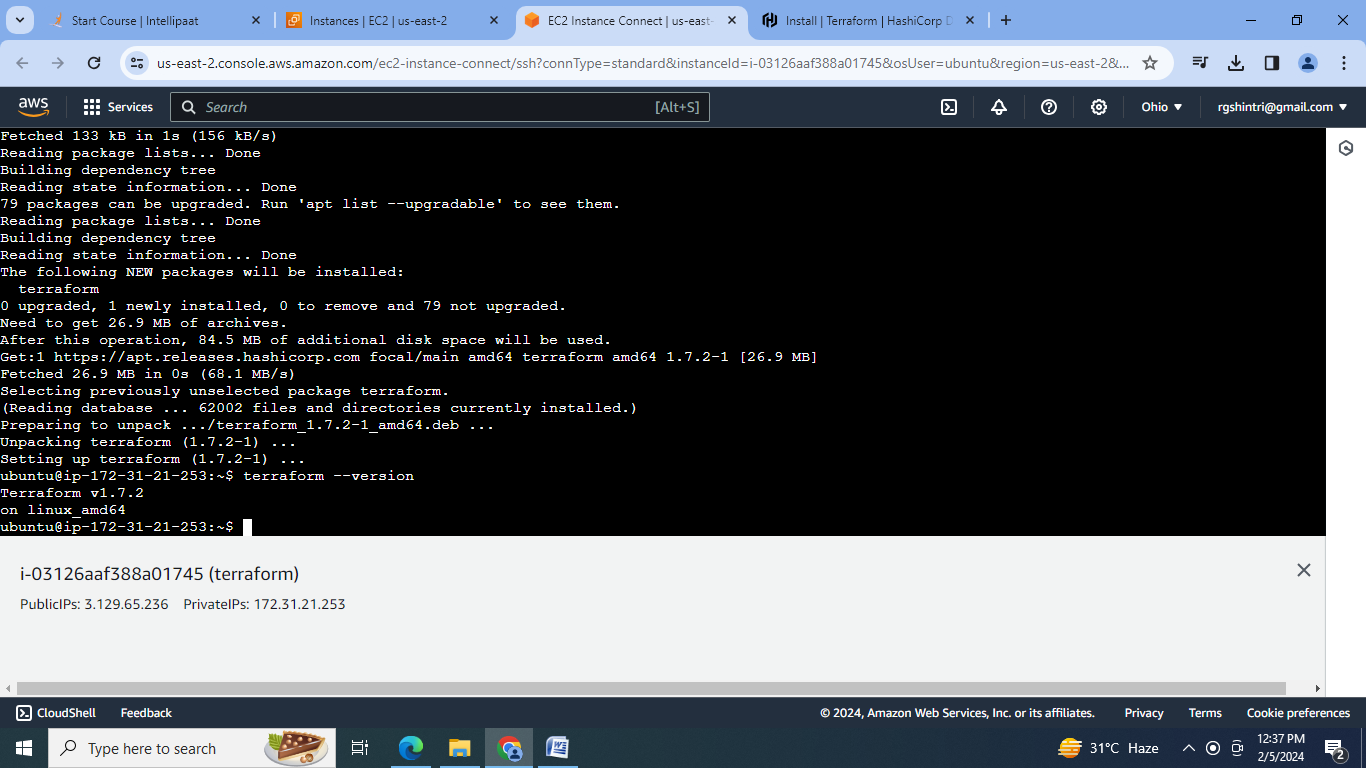
Steps:

1.Create an EC2 instance & install terraform:

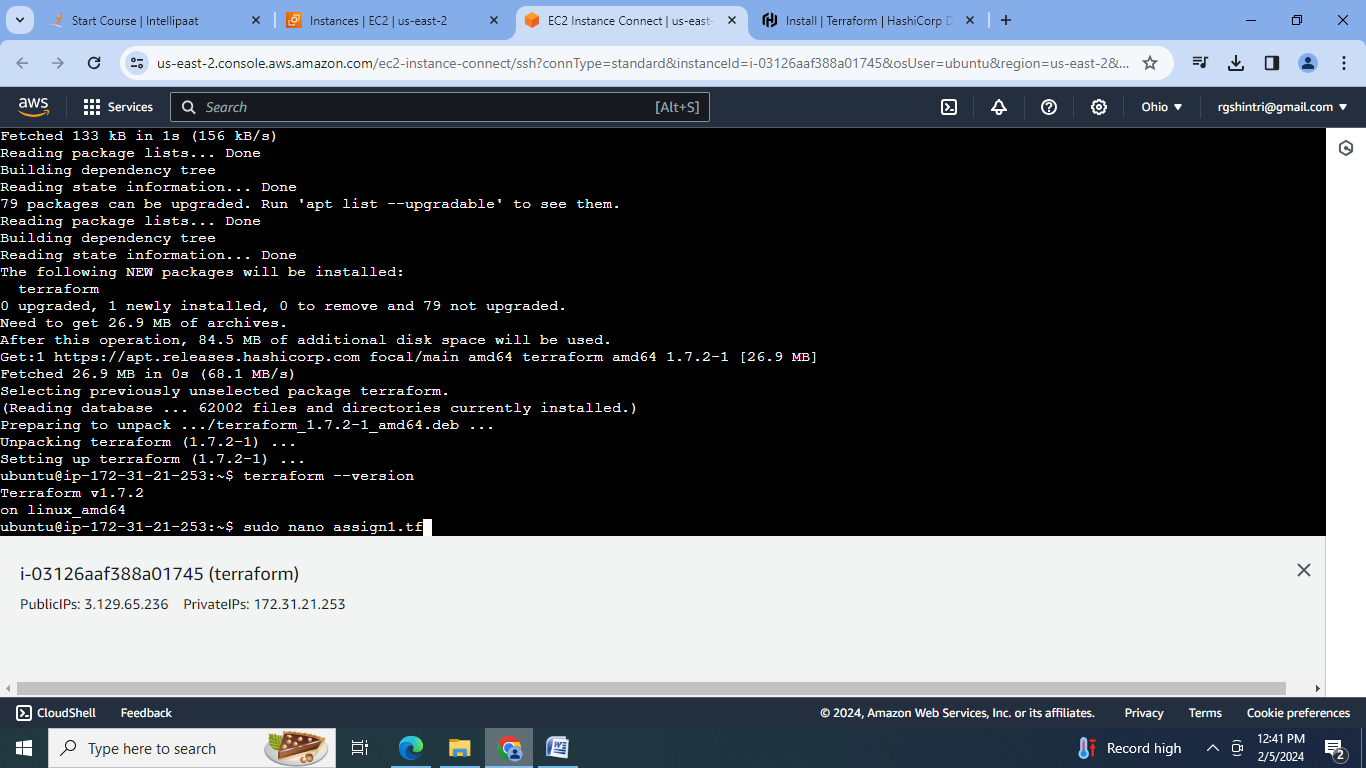


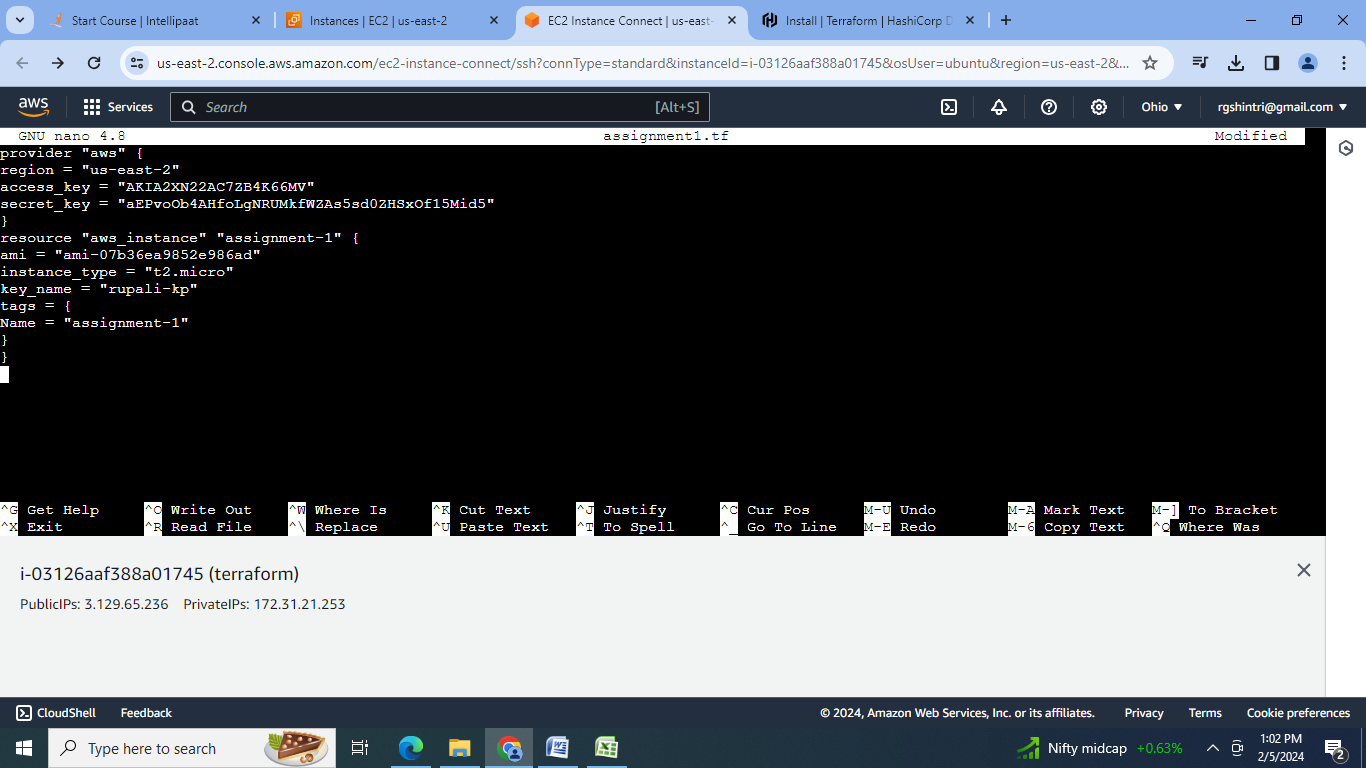




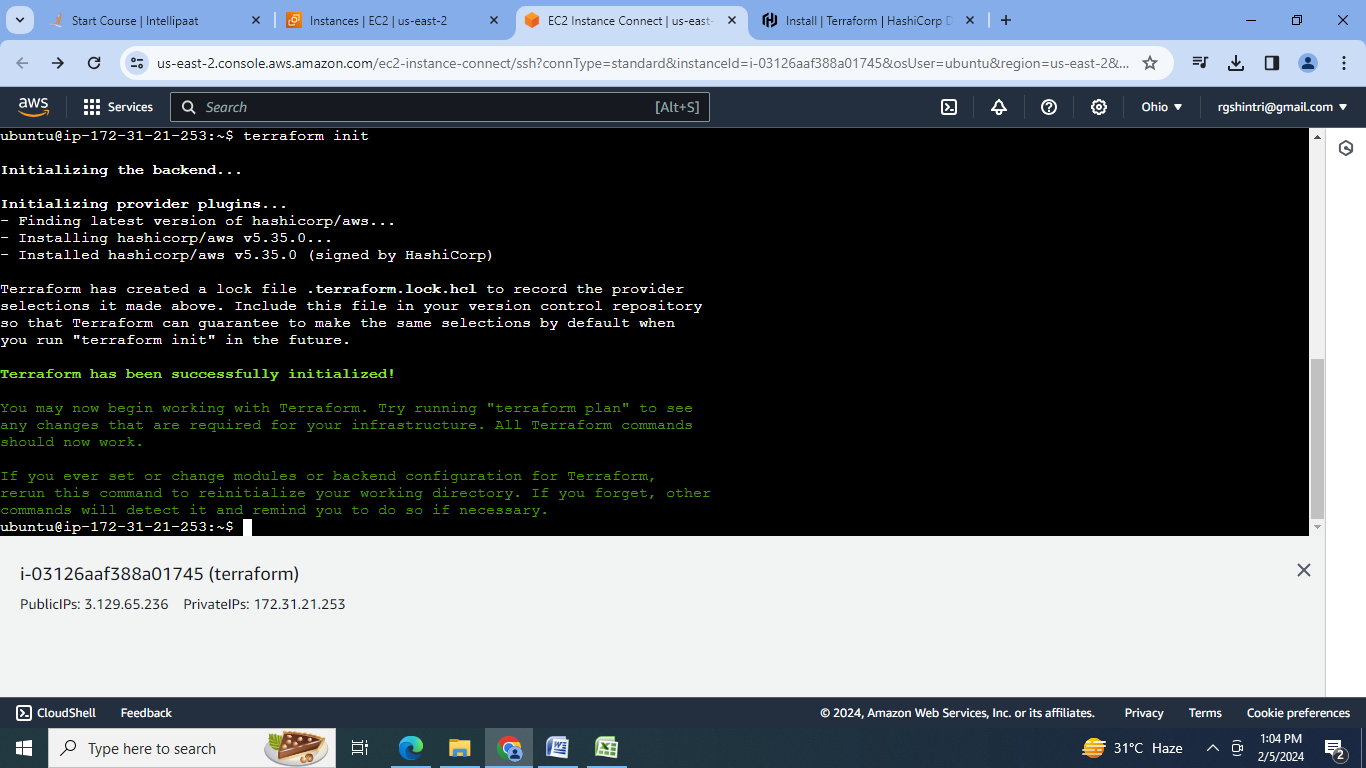


2.Create .tf configuration file:

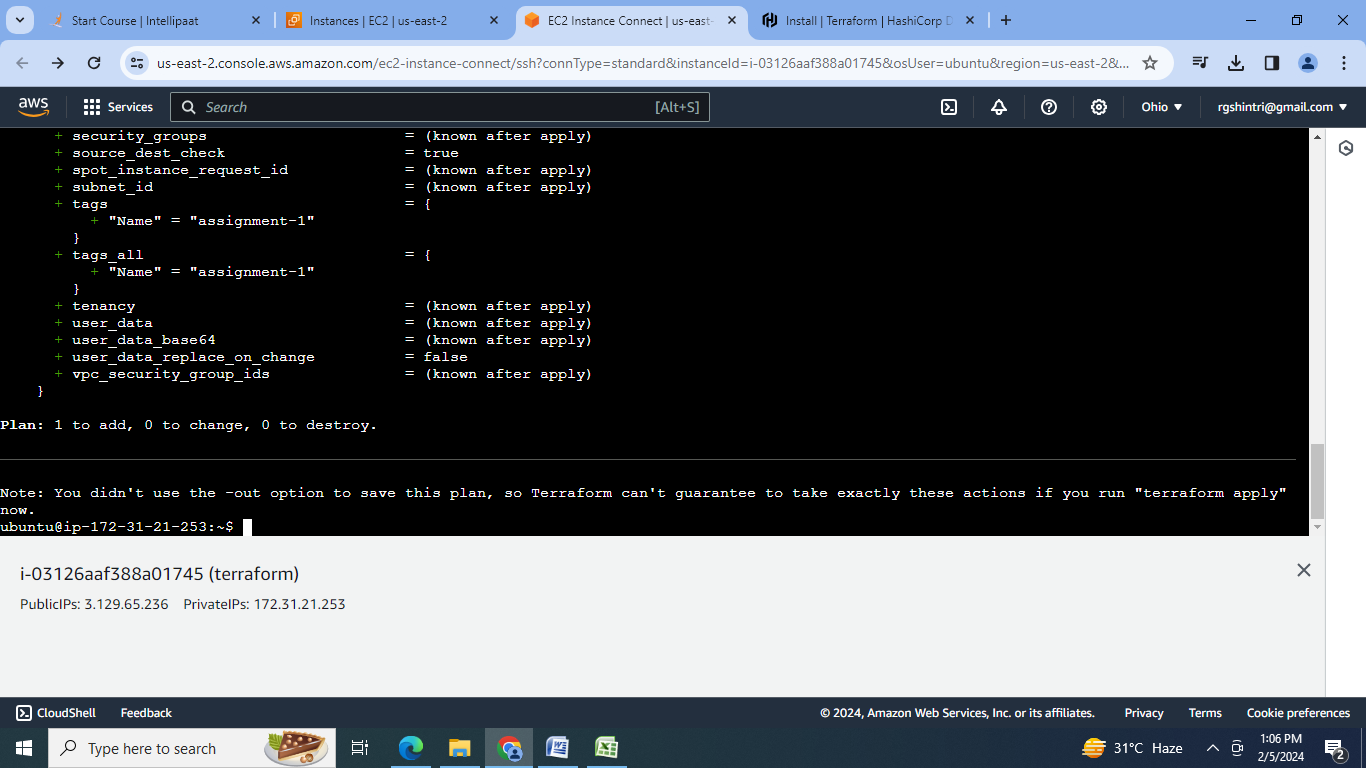




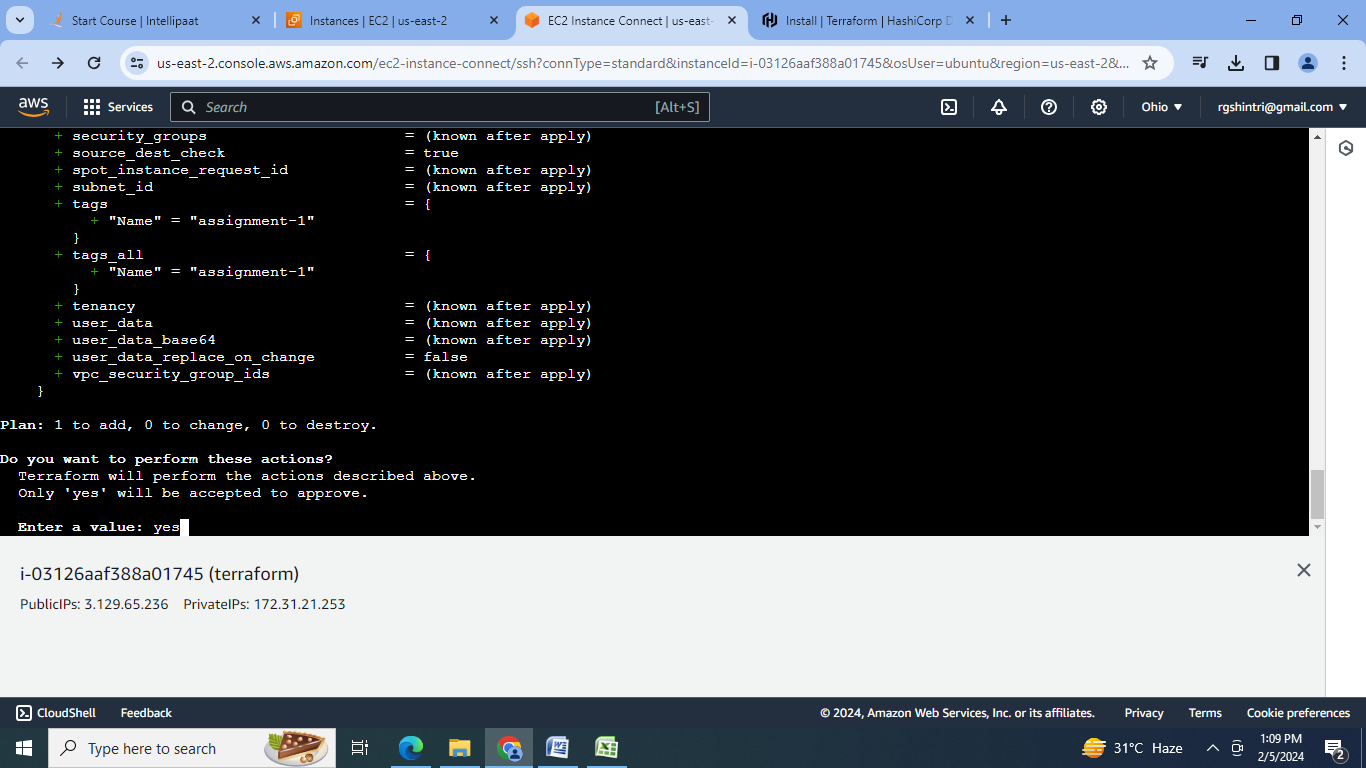
3. Initialize the terraform:

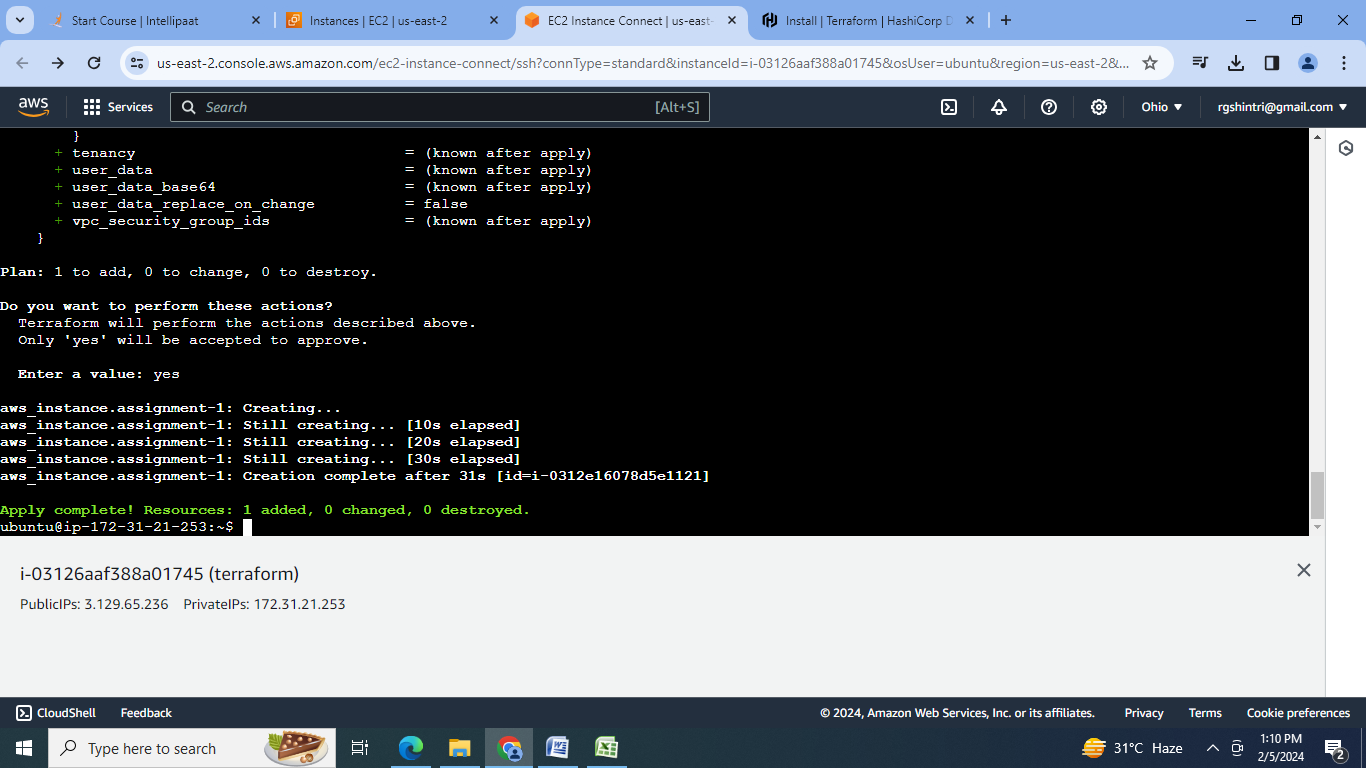


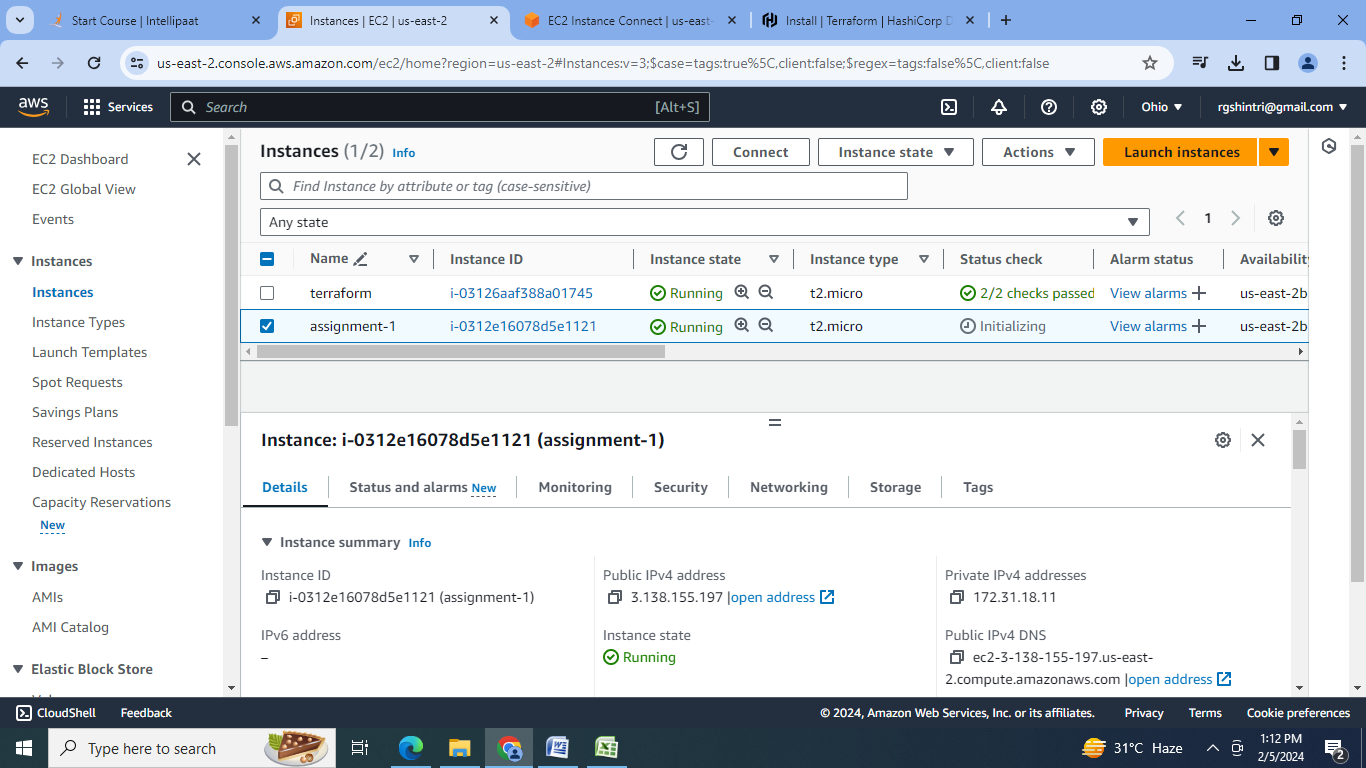
4.Create the configuration Plan :



5. Confirm the resource creation by terraform apply:







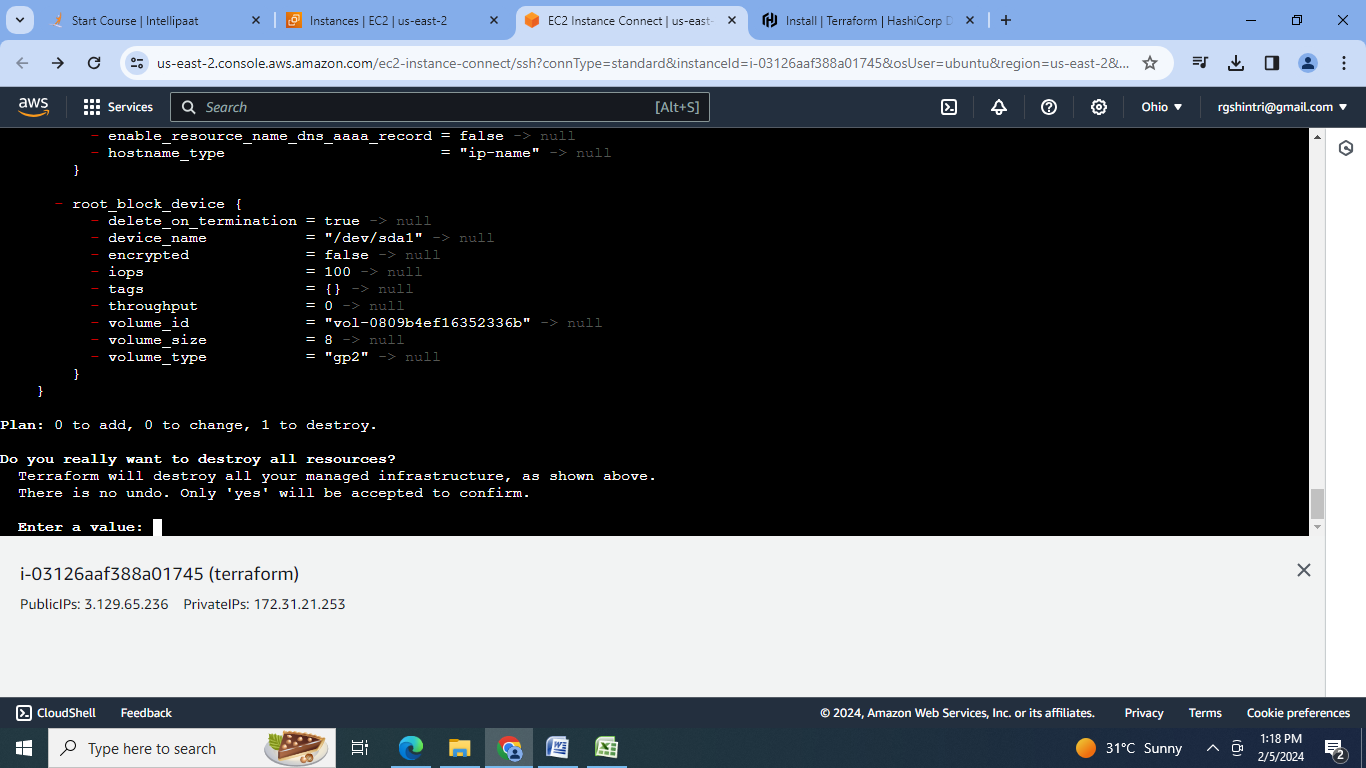
**B] Terraform Assignment 2:**

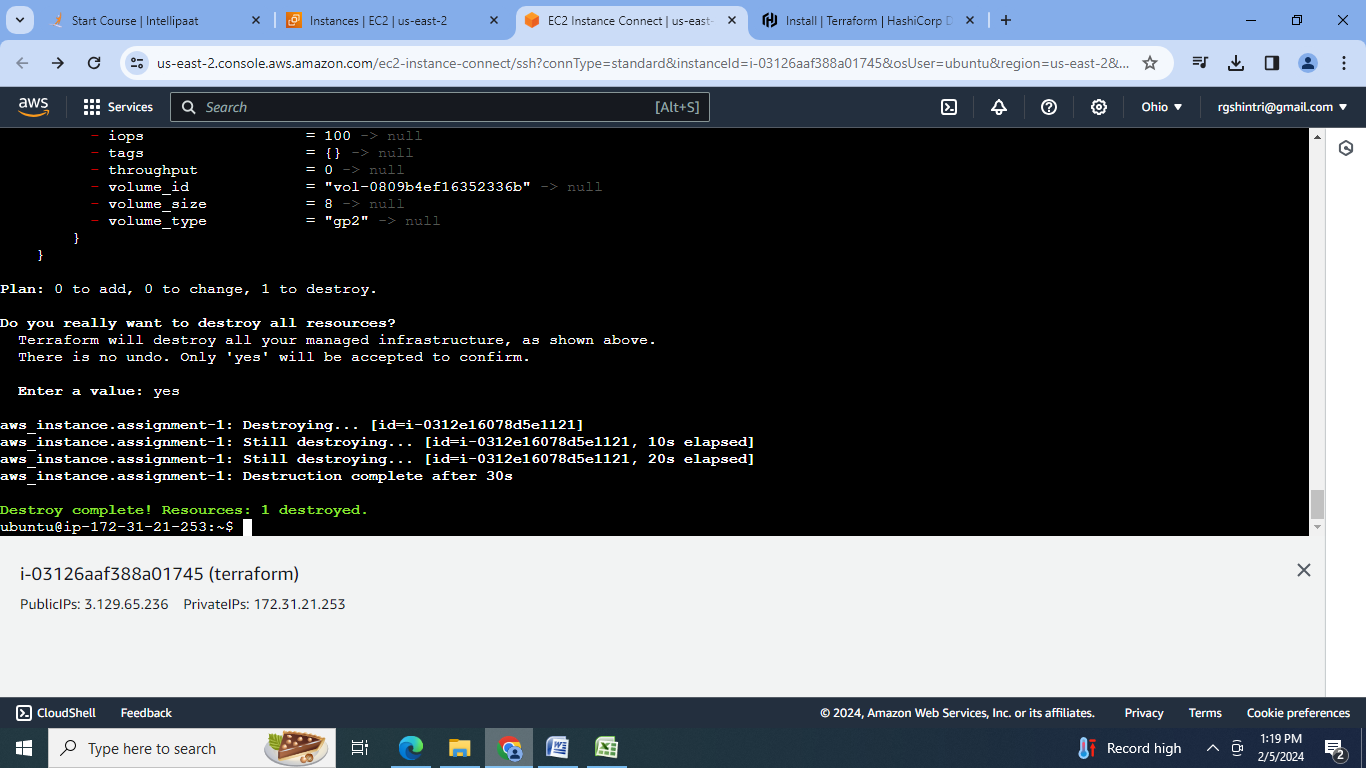
● Destroy the previous deployment

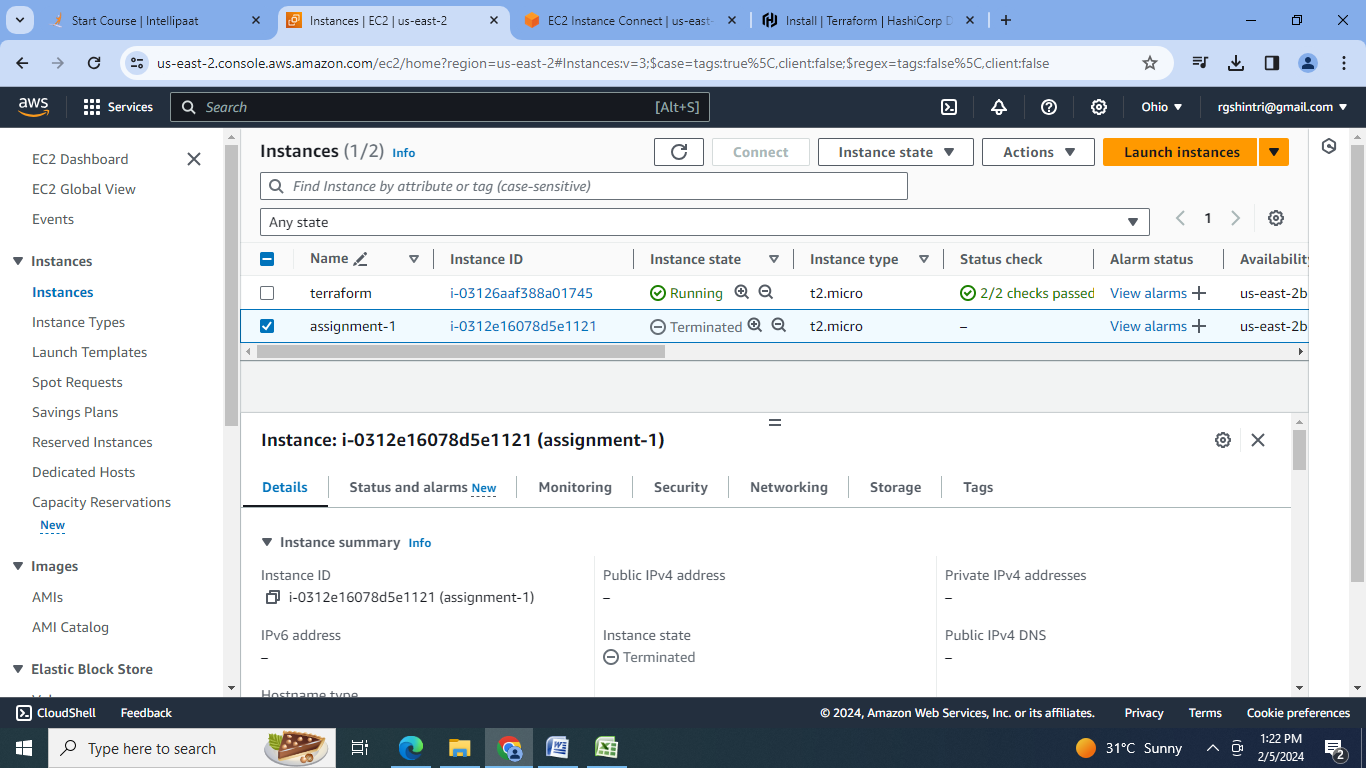
● Create a new EC2 instance with an Elastic IP

Steps

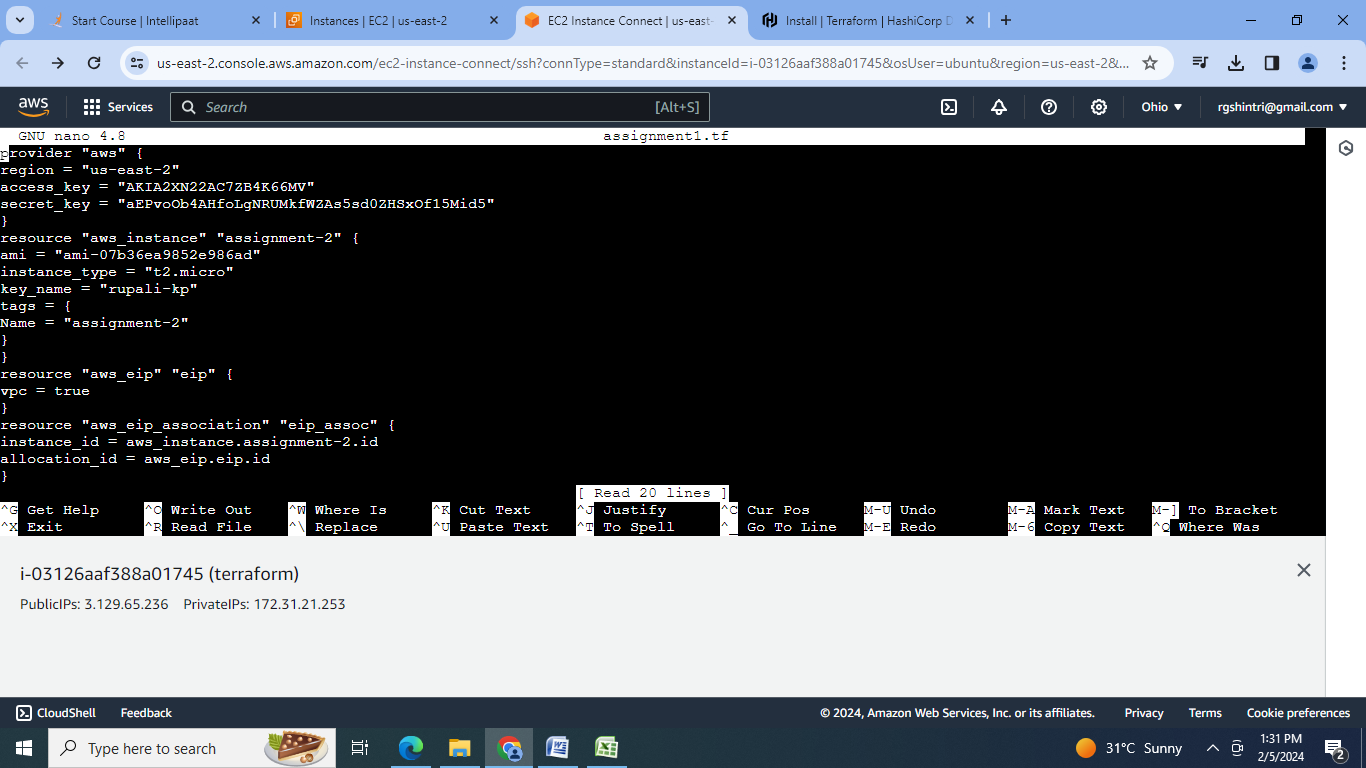
1. Destroy the previous deployment with terraform destroy:



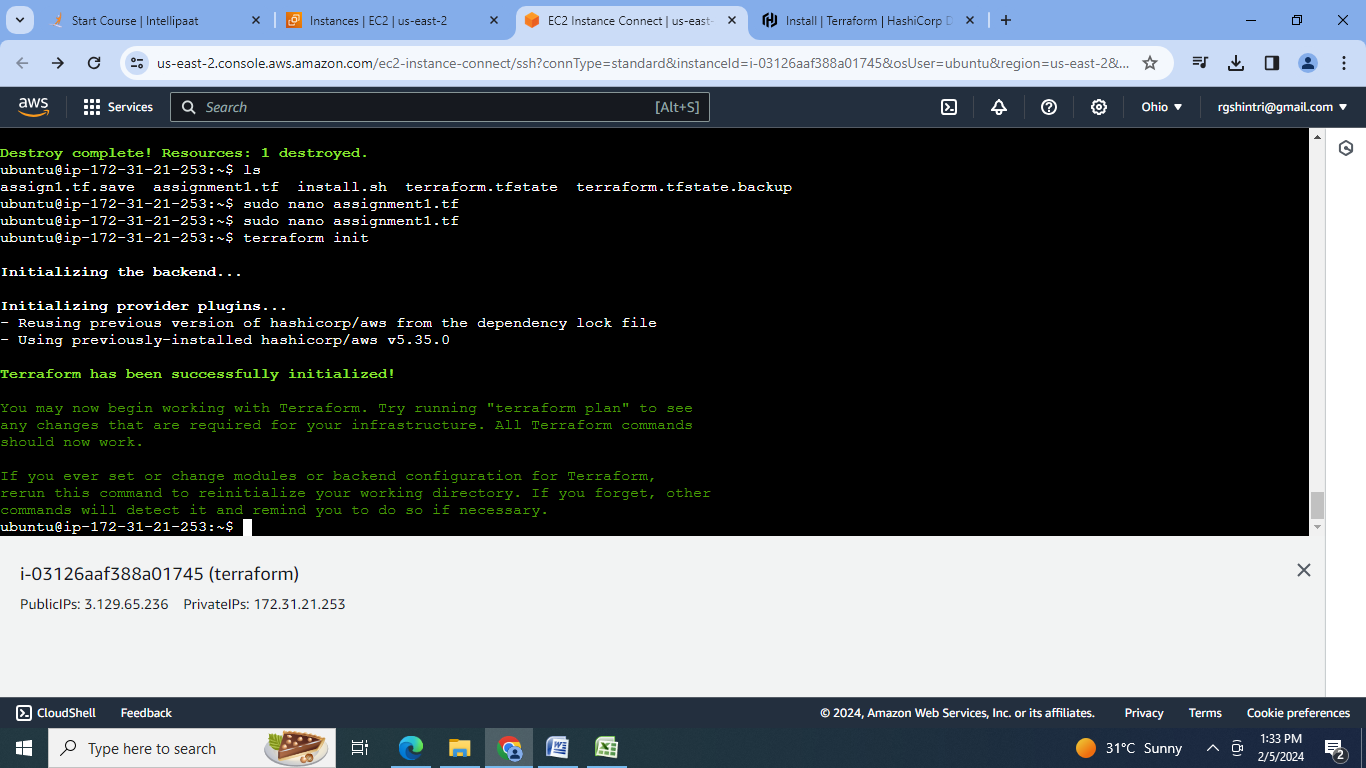




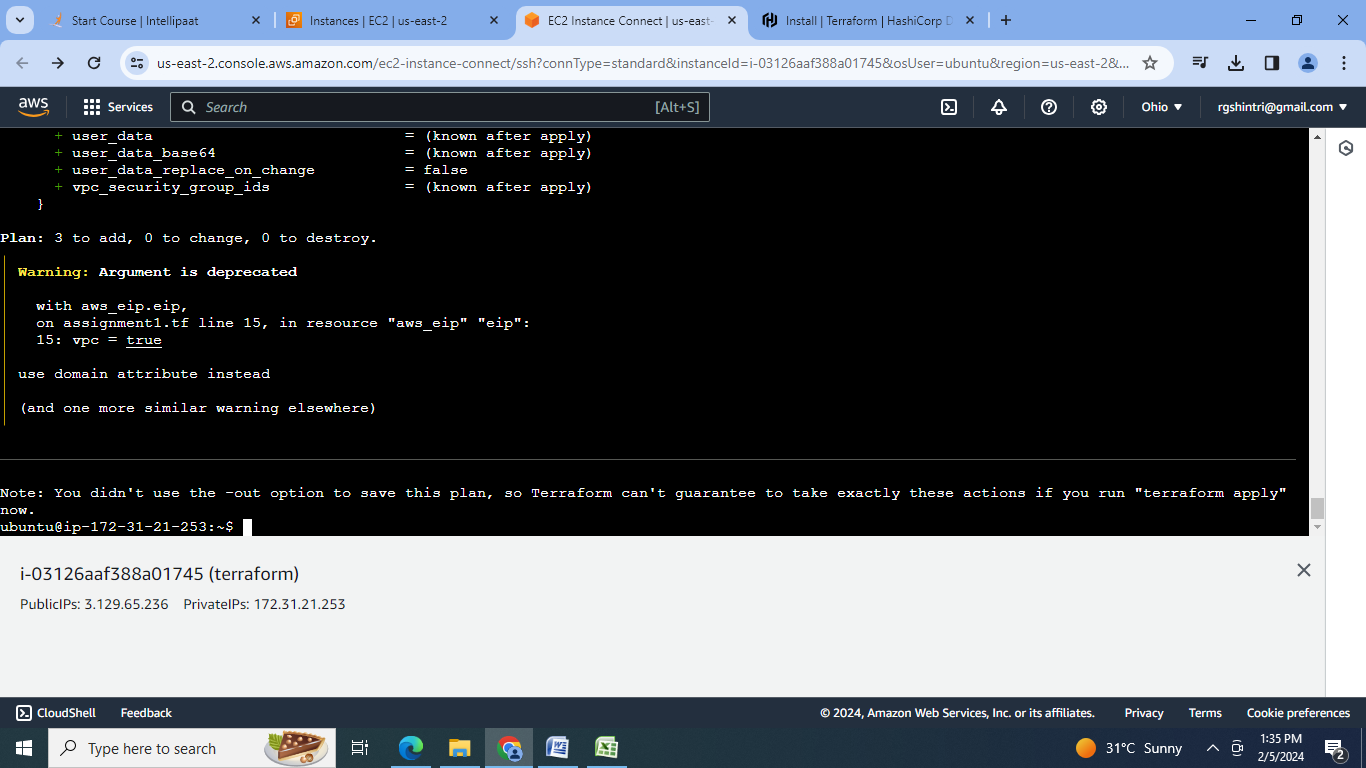
2.Create .tf configuration file for EC2 creation with elastic IP:



3.Initialise terraform:

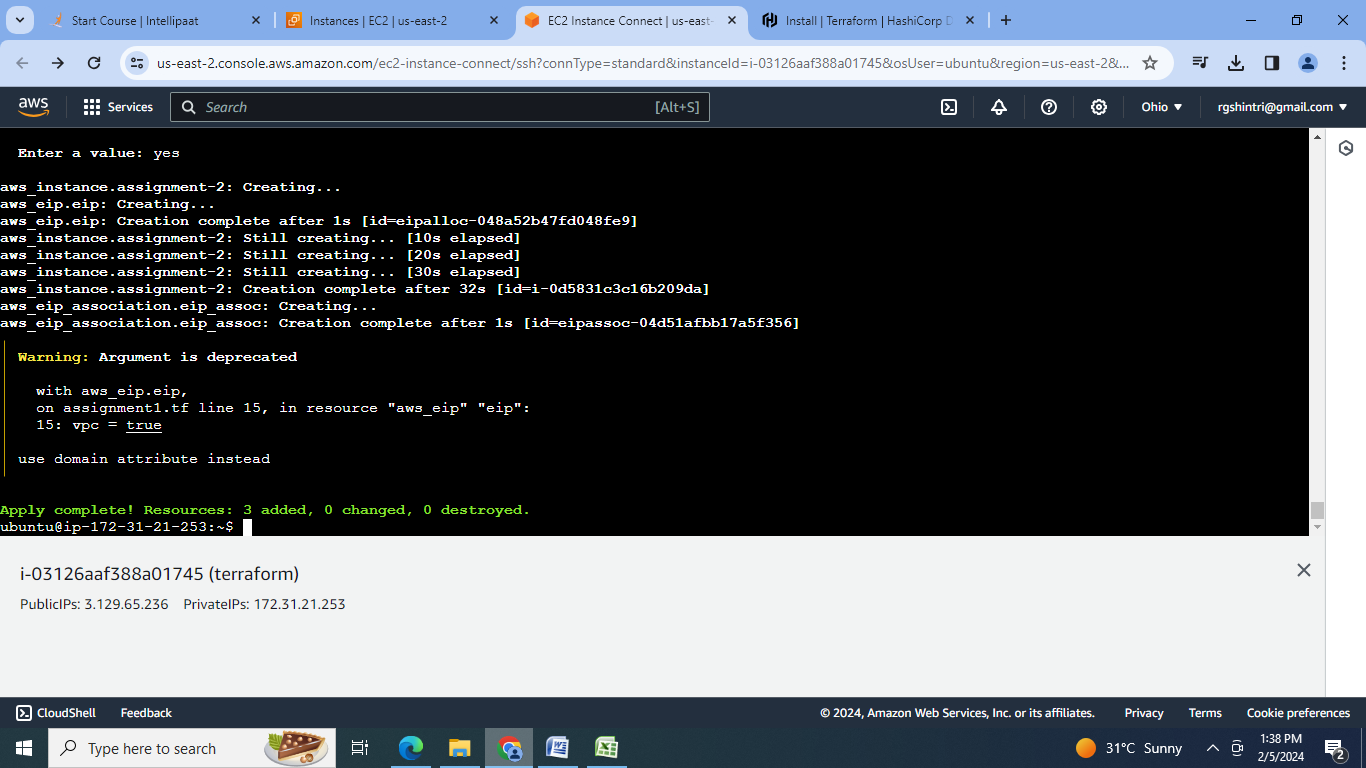


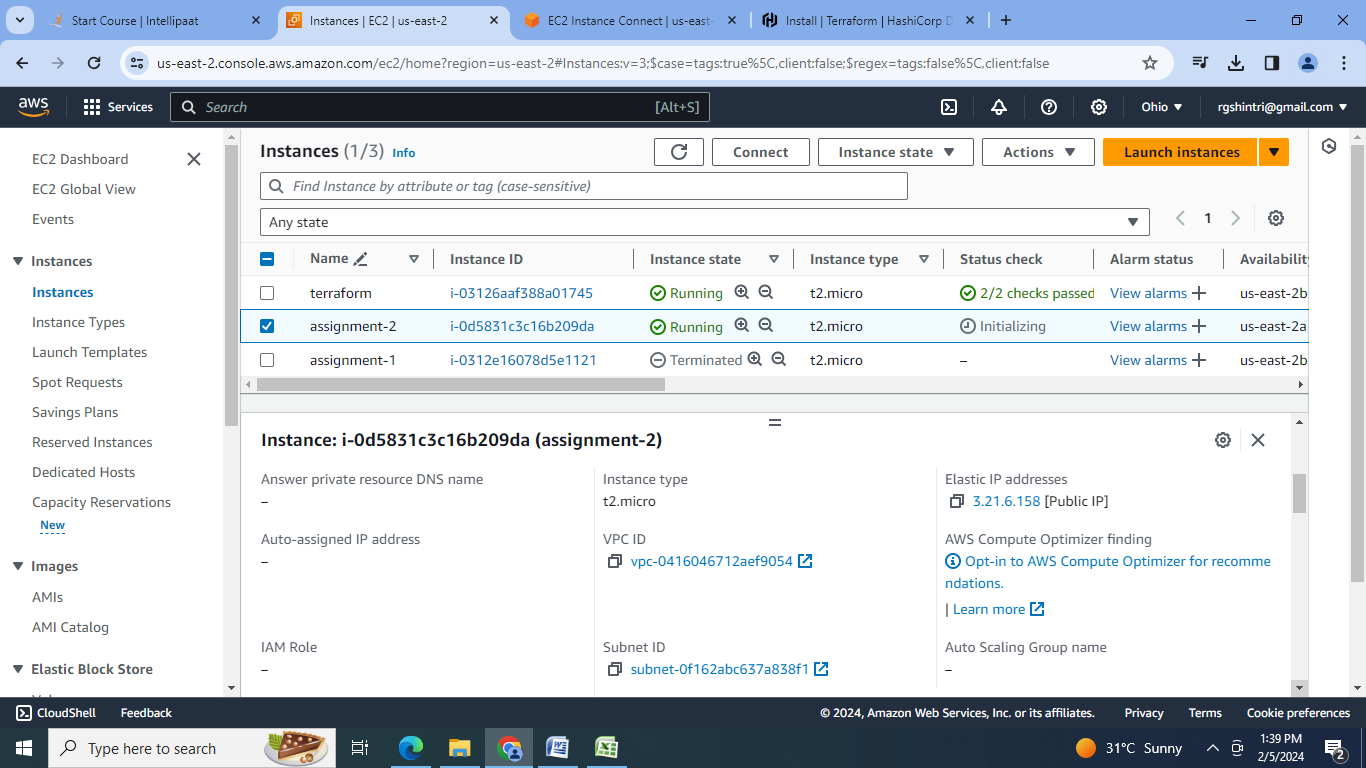
4.Create the configuration Plan :



5. Confirm the resource creation by terraform apply:







**C] Terraform Assignment 3:**

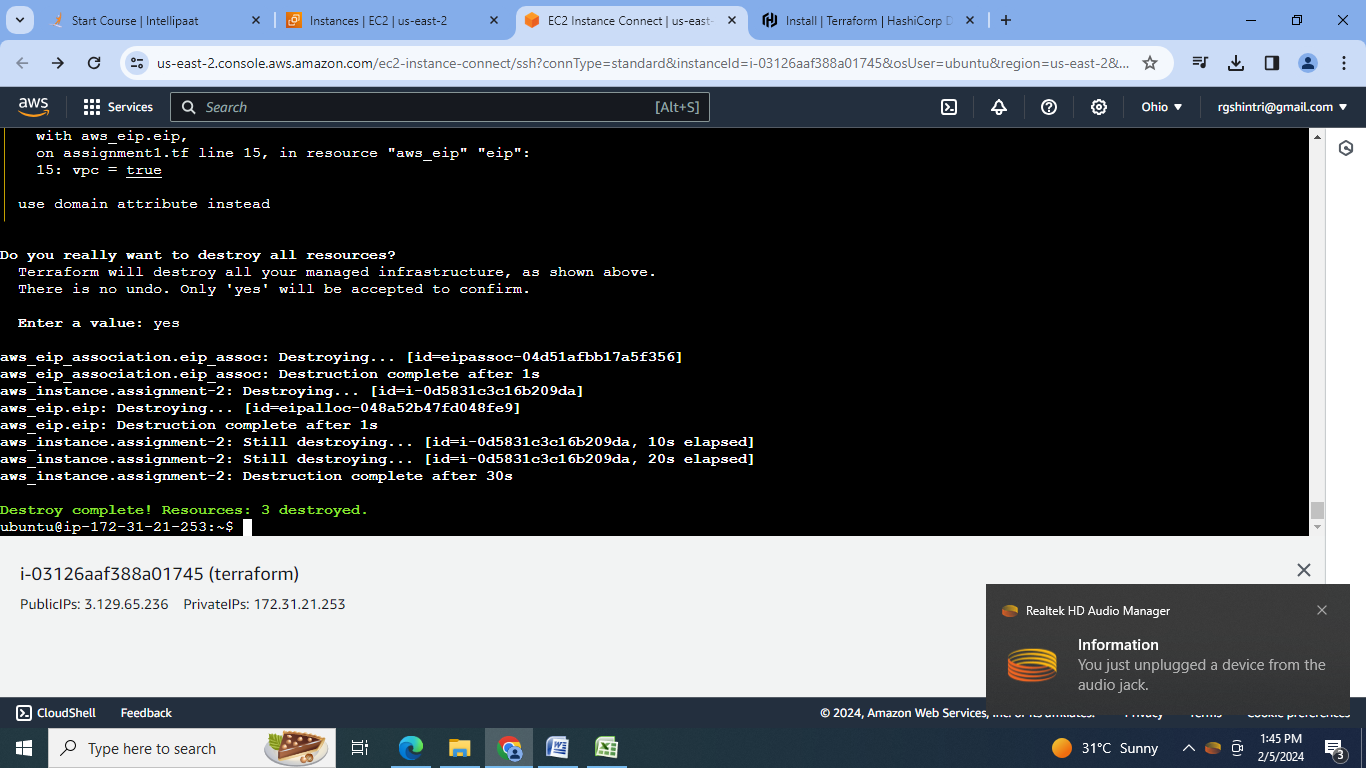
● Destroy the previous deployment

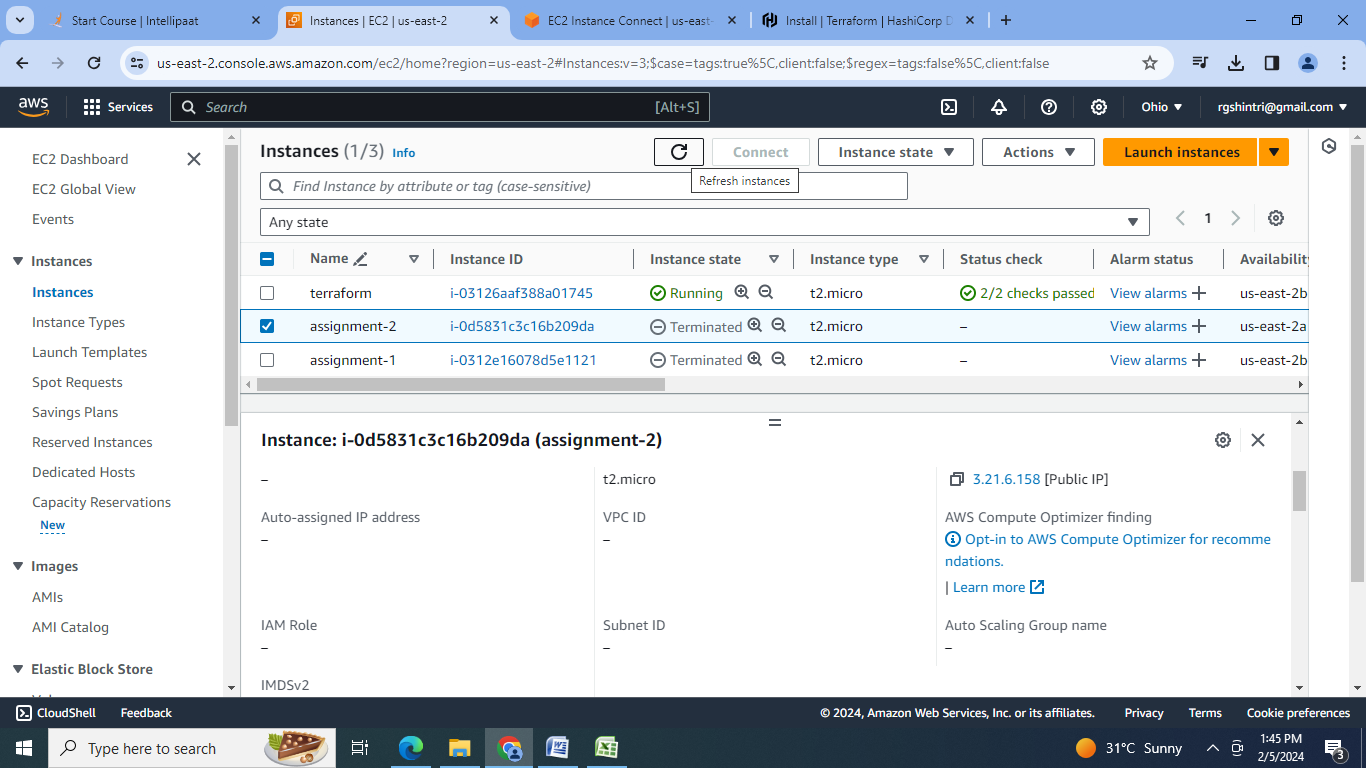
● Create 2 EC2 instances in Ohio and N.Virginia respectively

● Rename Ohio’s instance to ‘hello-ohio’ and Virginia’s instance to ‘hello-virginia’

Steps:

1.Destroy the previous deployment with terraform destroy:

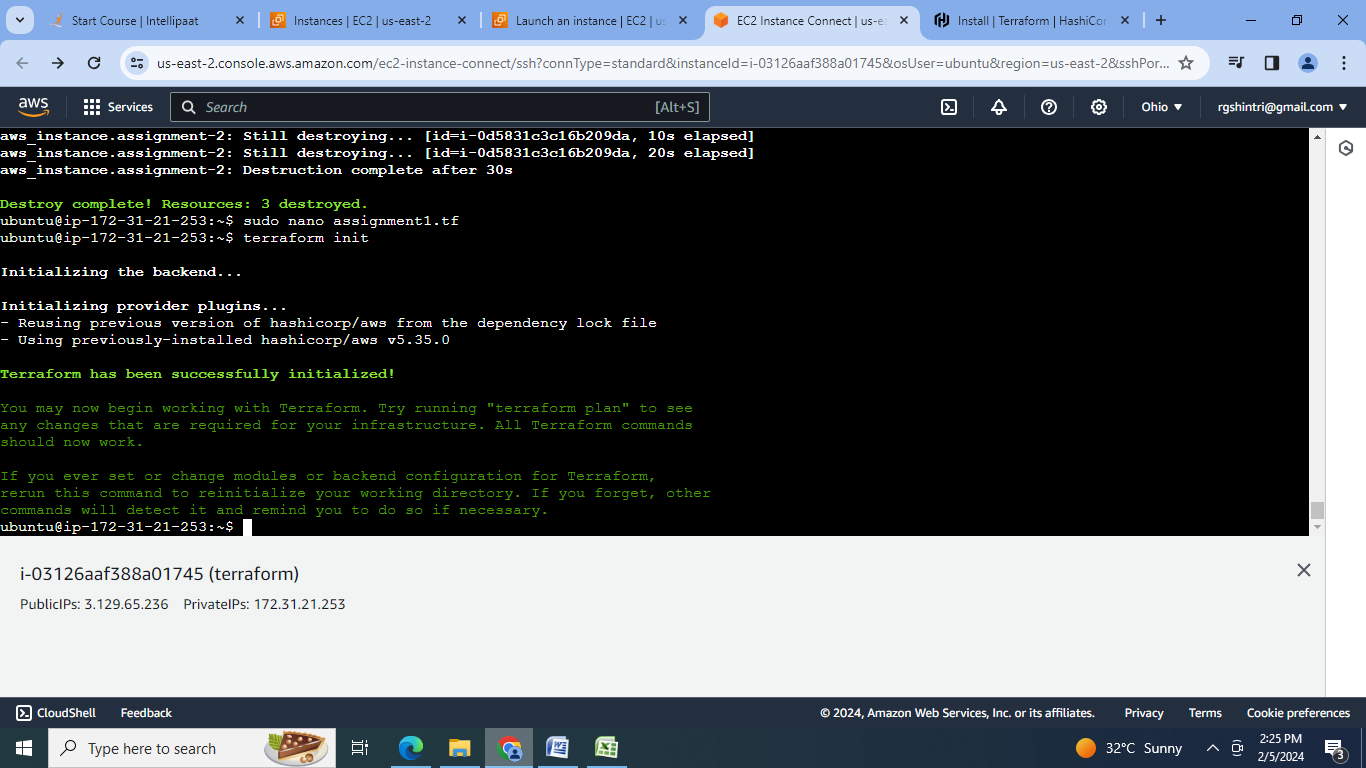




2.Create the configuration file:



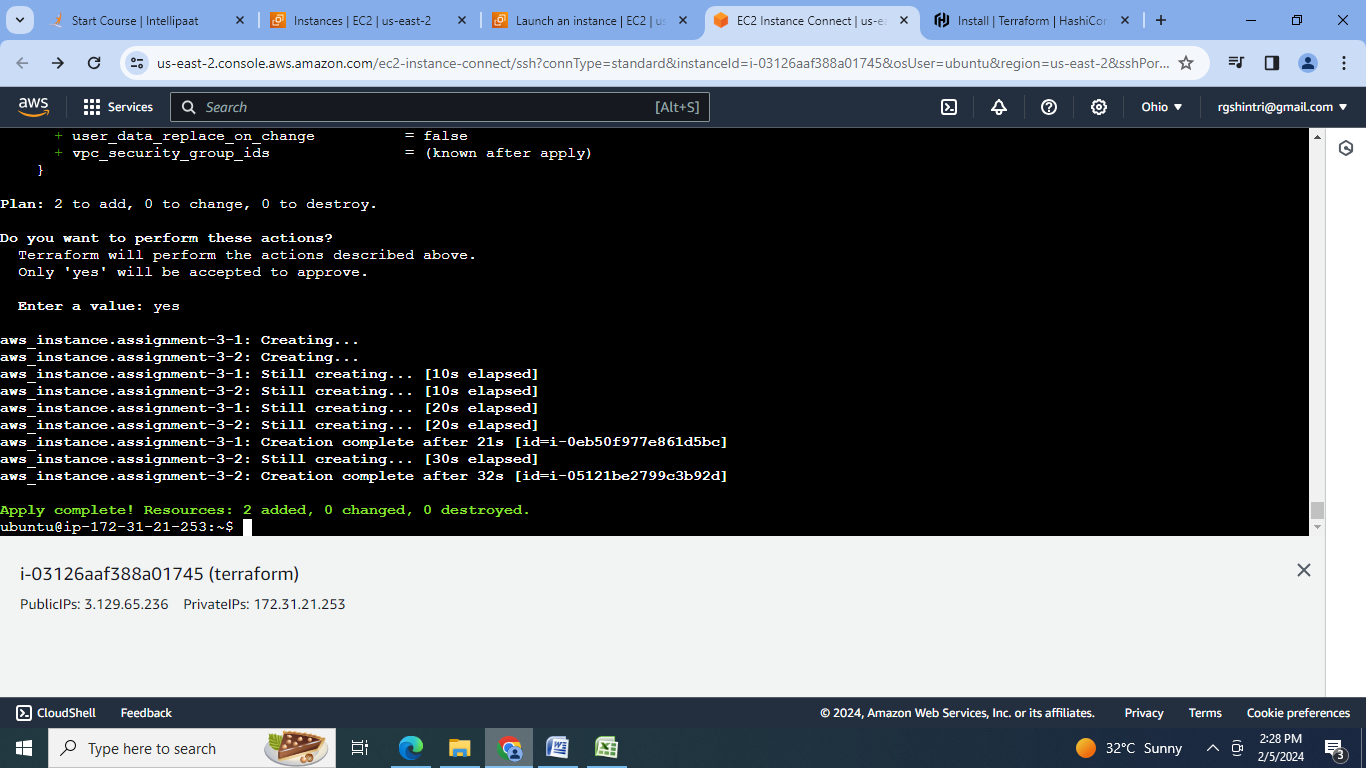
3.Initialise terraform:

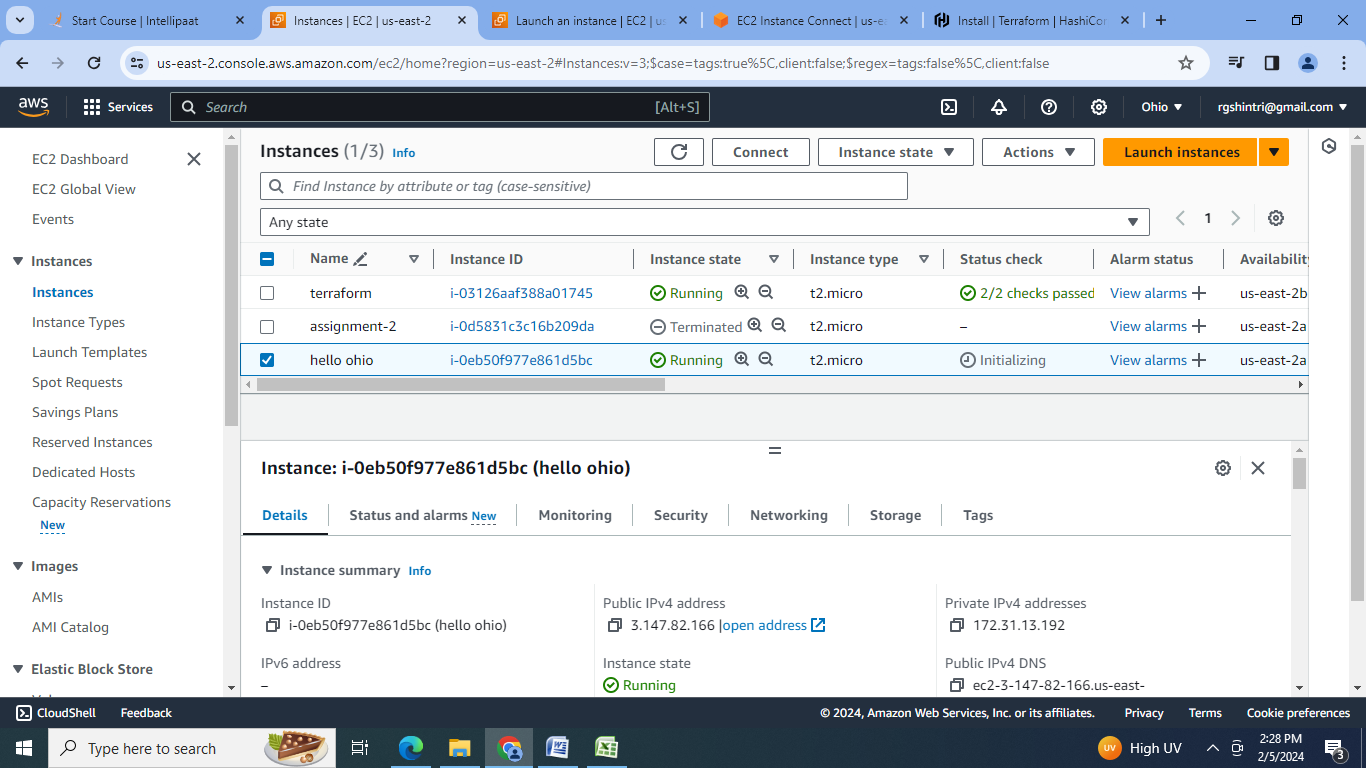


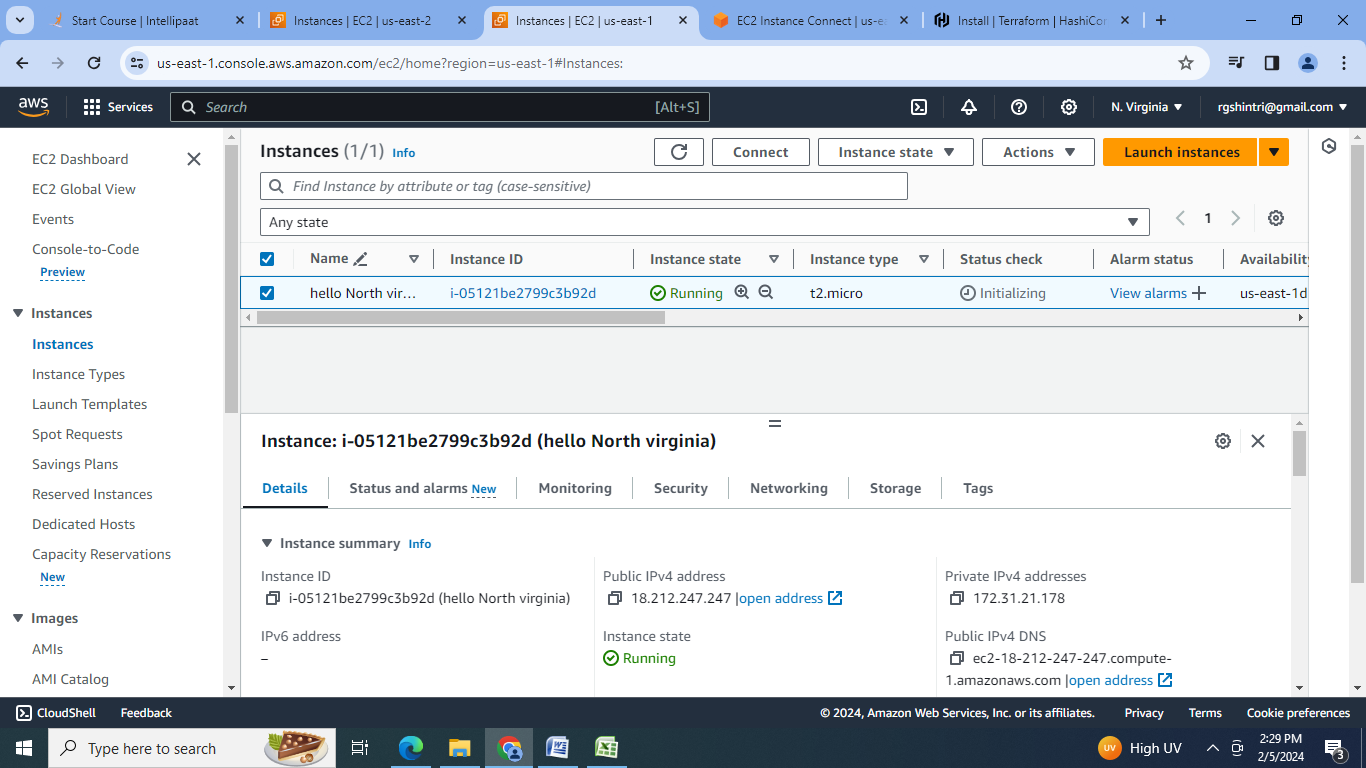
4.Create the configuration Plan :



5. Confirm the resource creation by terraform apply:







**D] Terraform Assignment 4:**

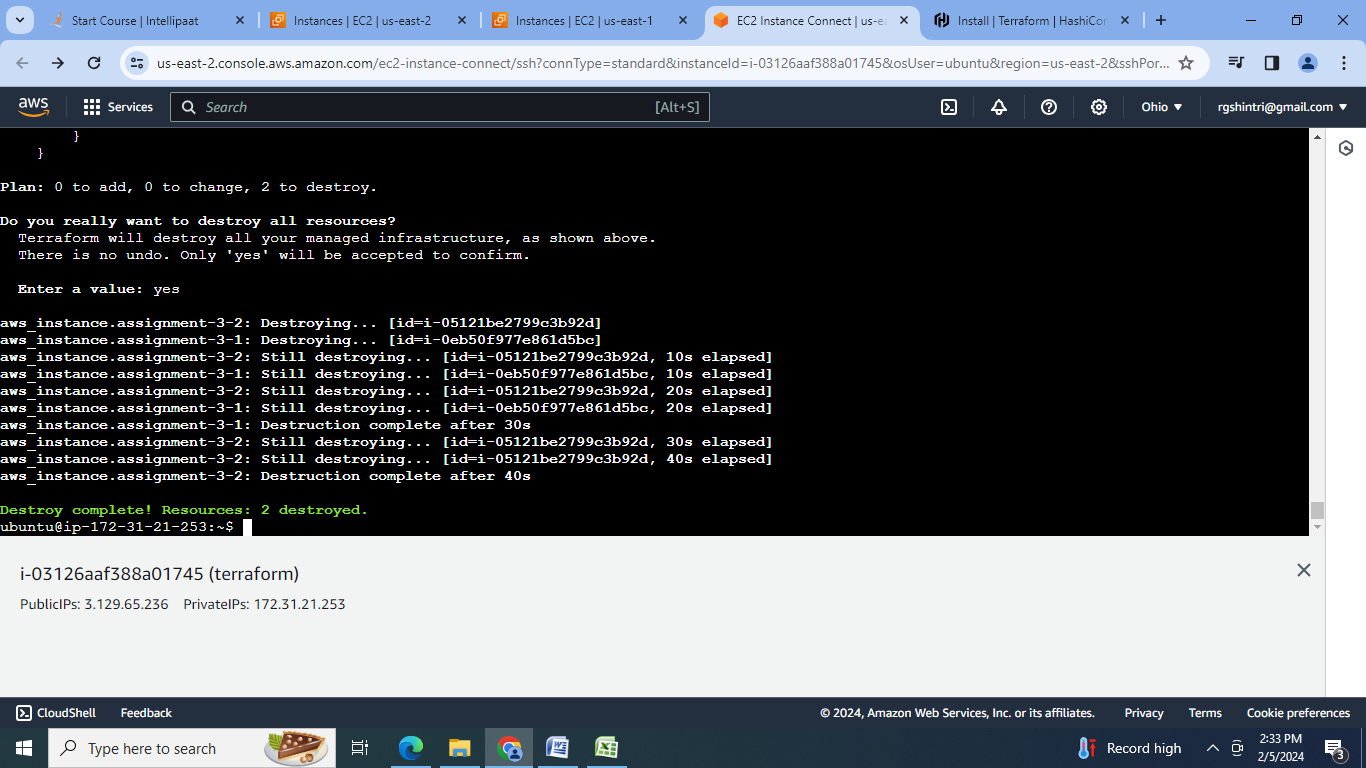
● Destroy the previous deployments

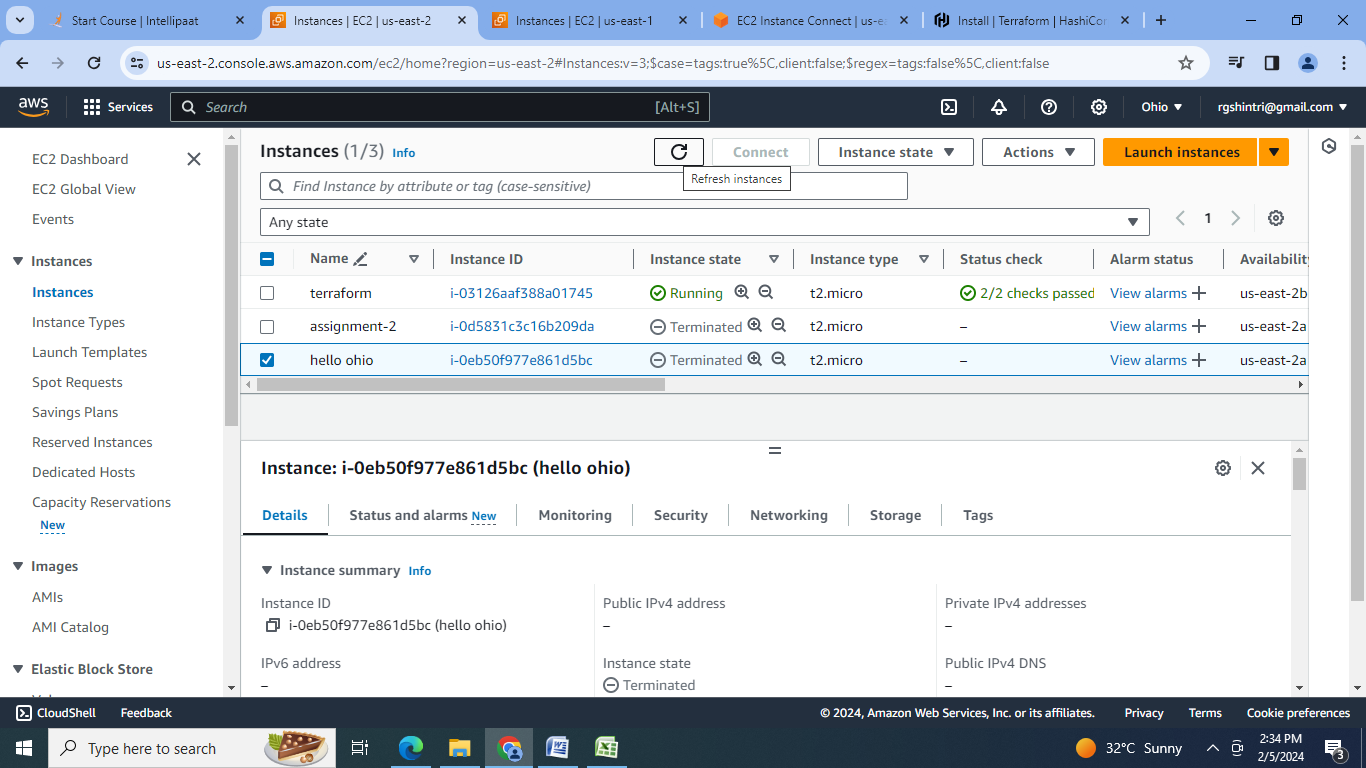
● Create a VPC with the required components using Terraform

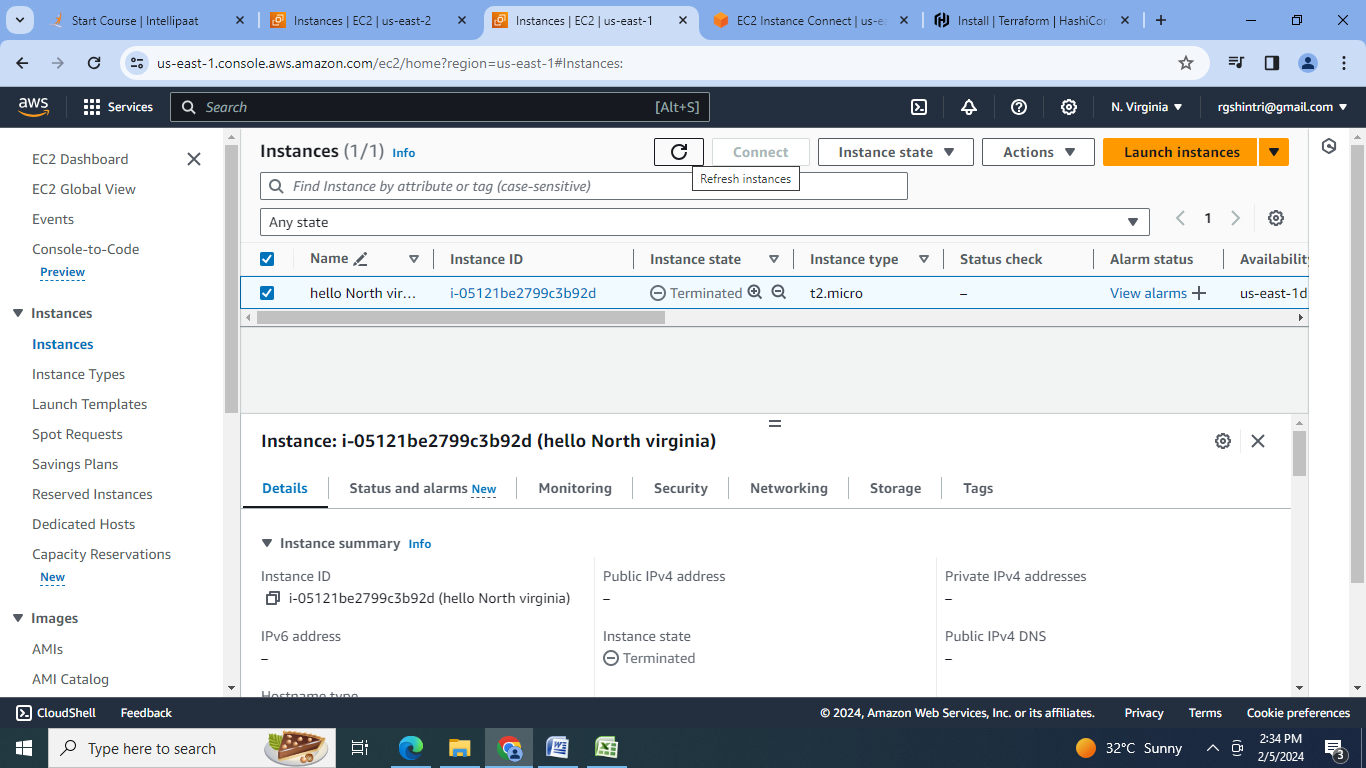
● Deploy an EC2 instance inside the VPC

Steps:

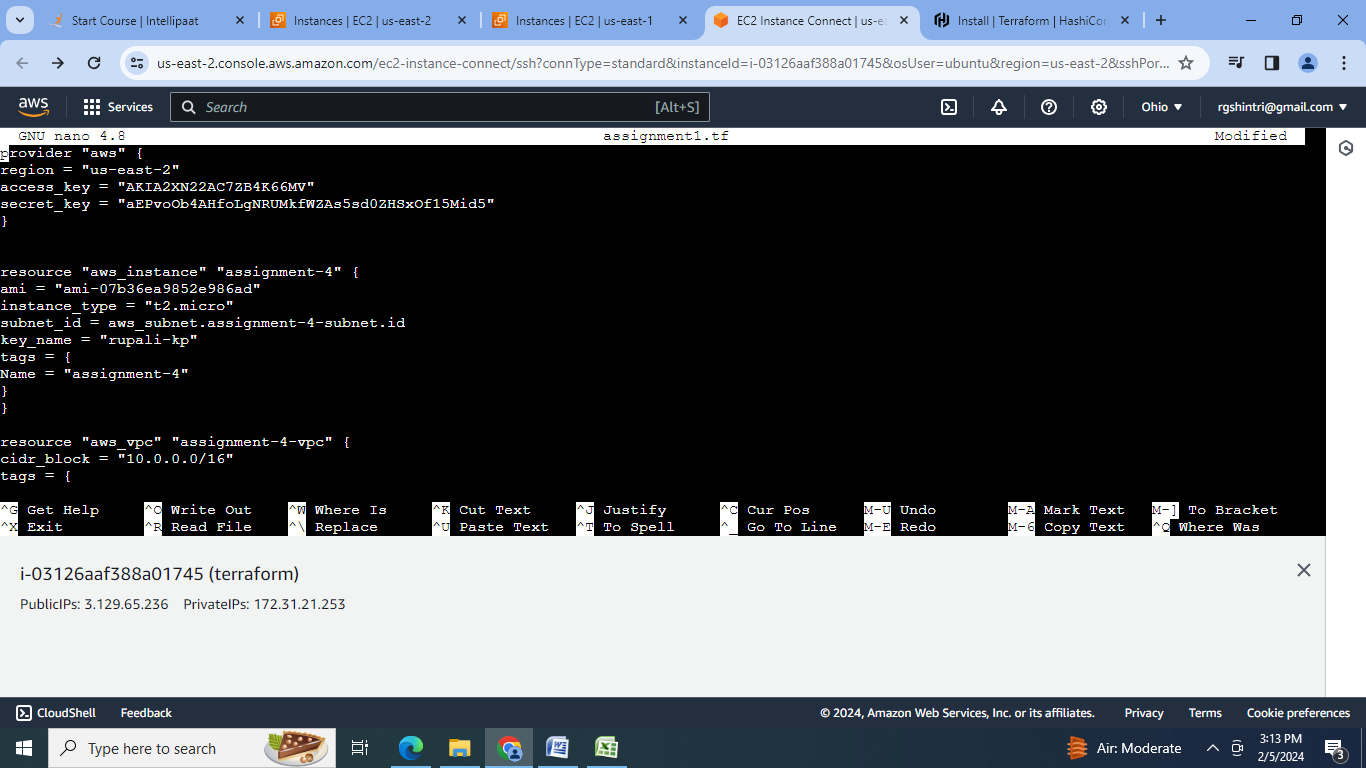
1.Destroy the previous deployment with terraform destroy:



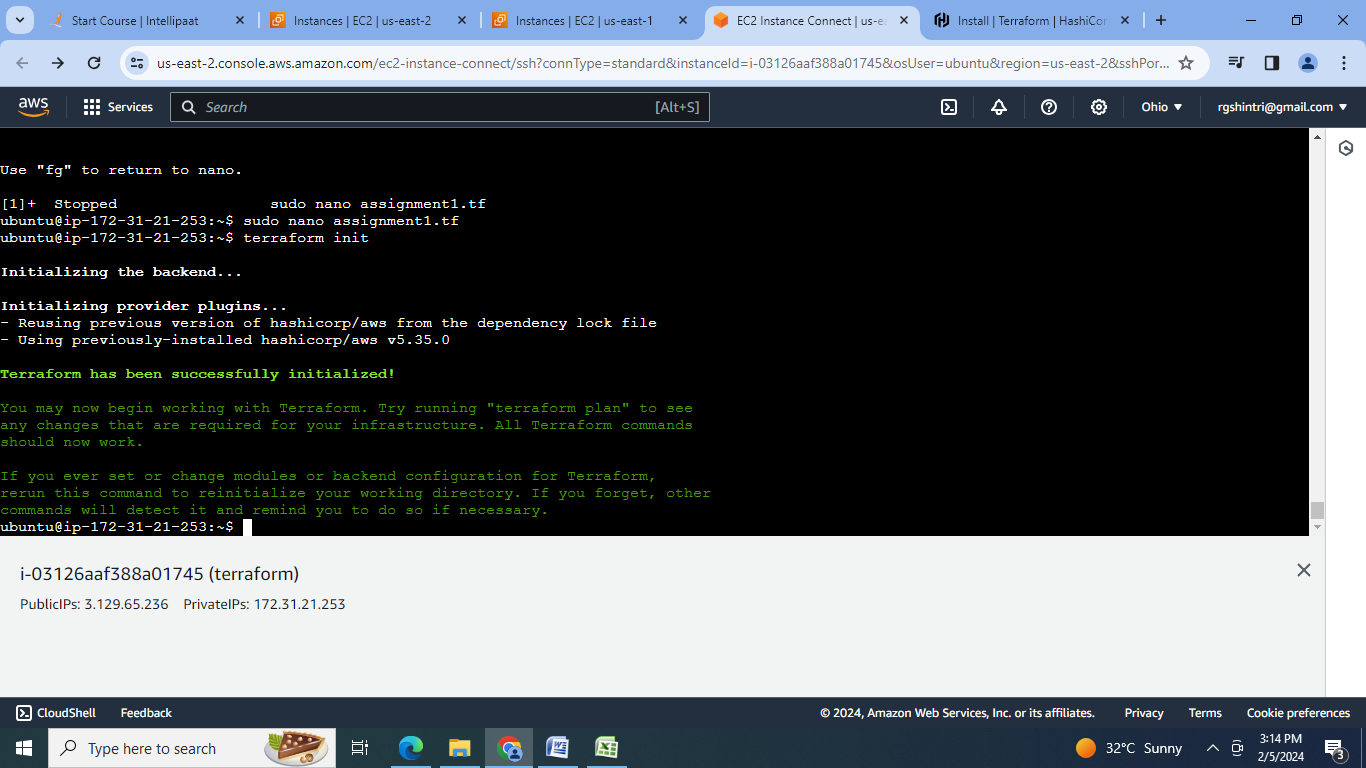




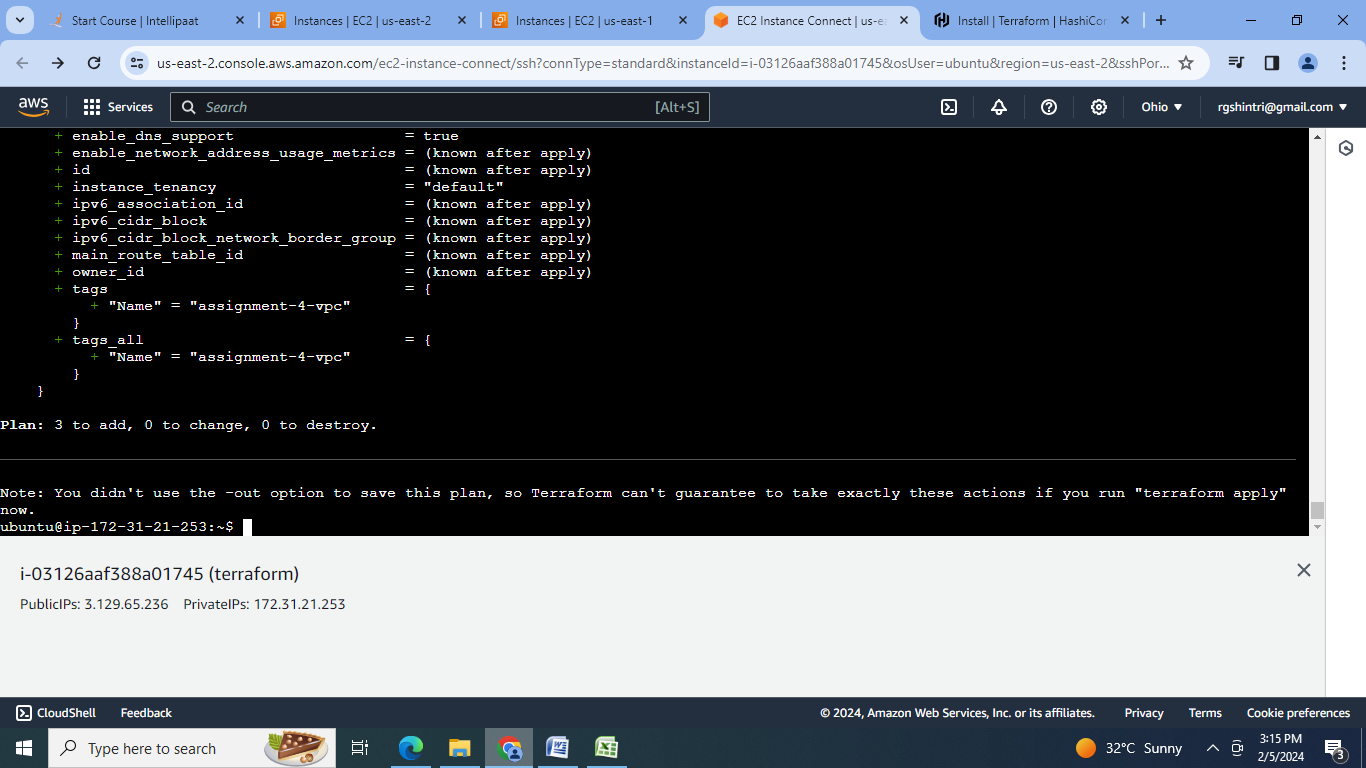
2.Create the configuration file:



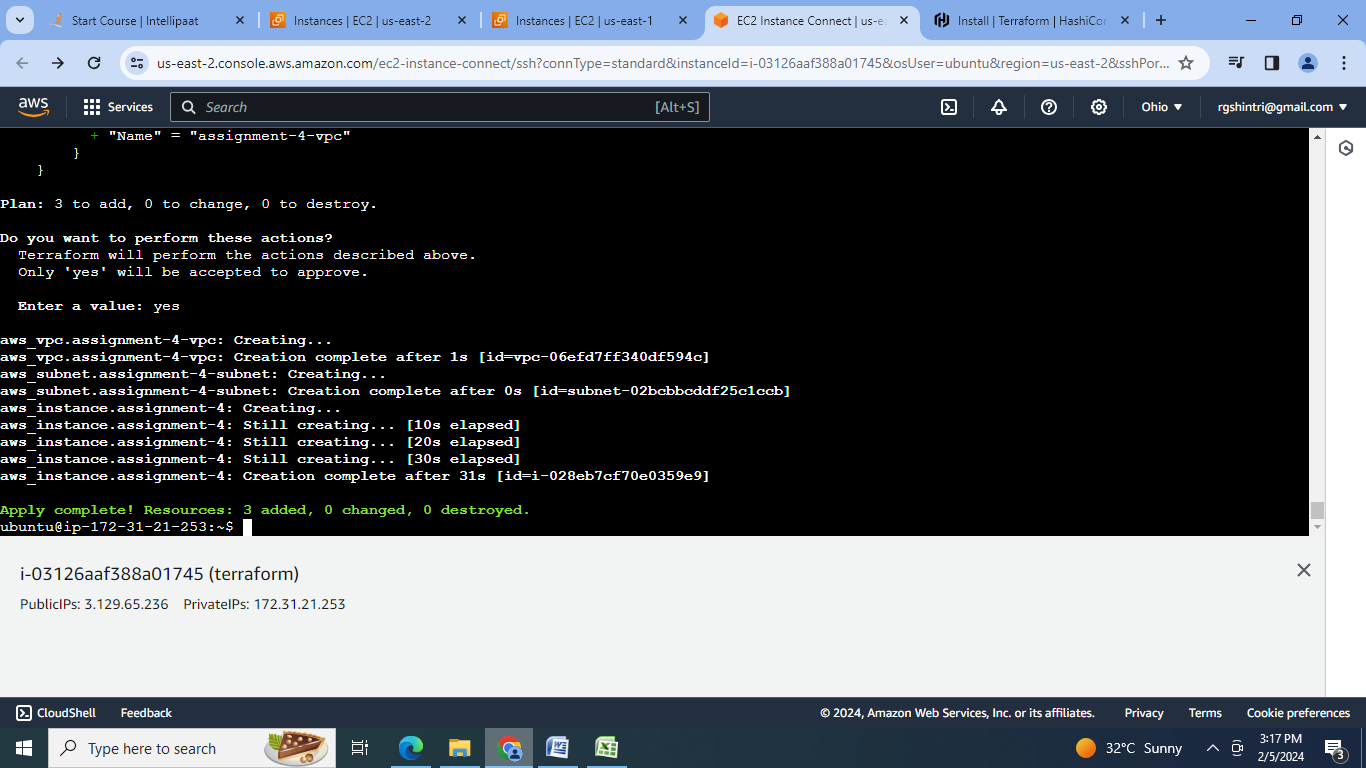
3.Initialise terraform:

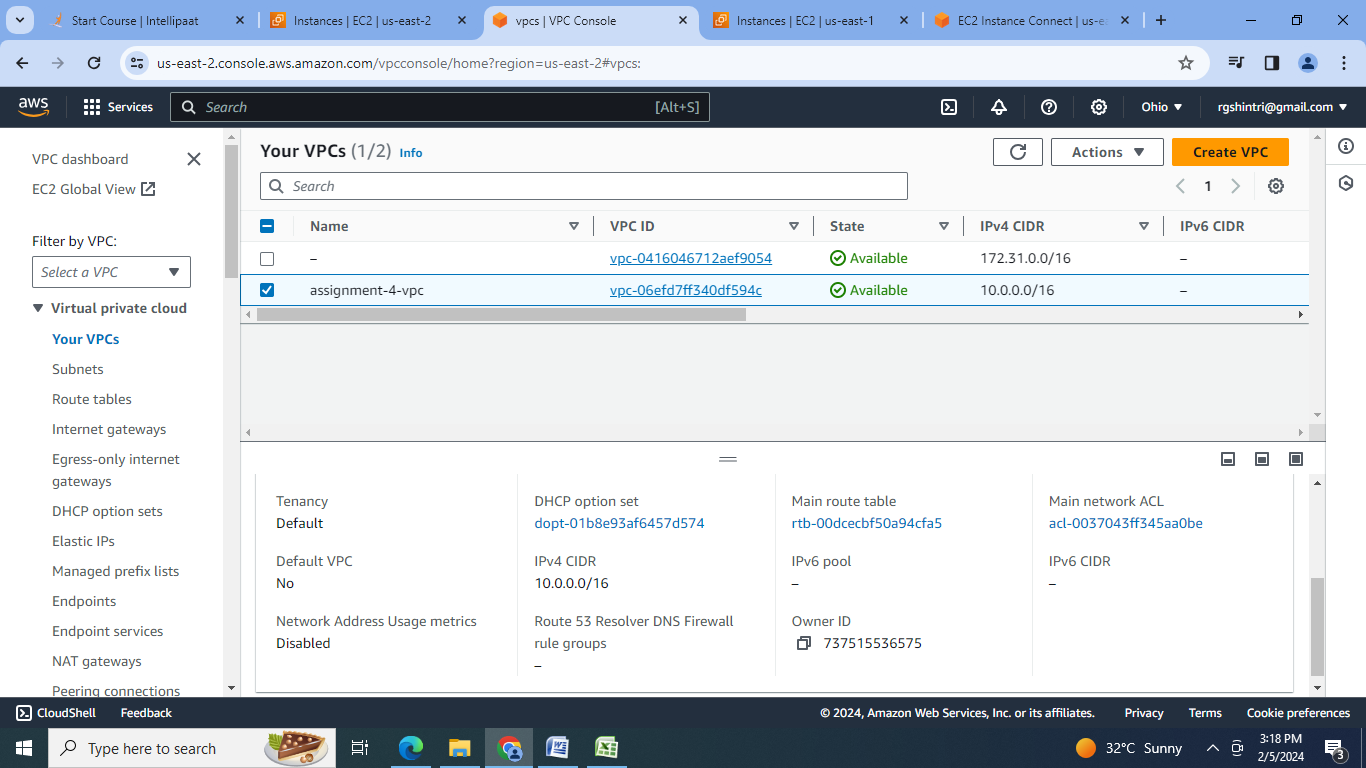


4.Create the configuration Plan :



5. Confirm the resource creation by terraform apply:





**E] Terraform Assignment 5:**

● Destroy the previous deployments

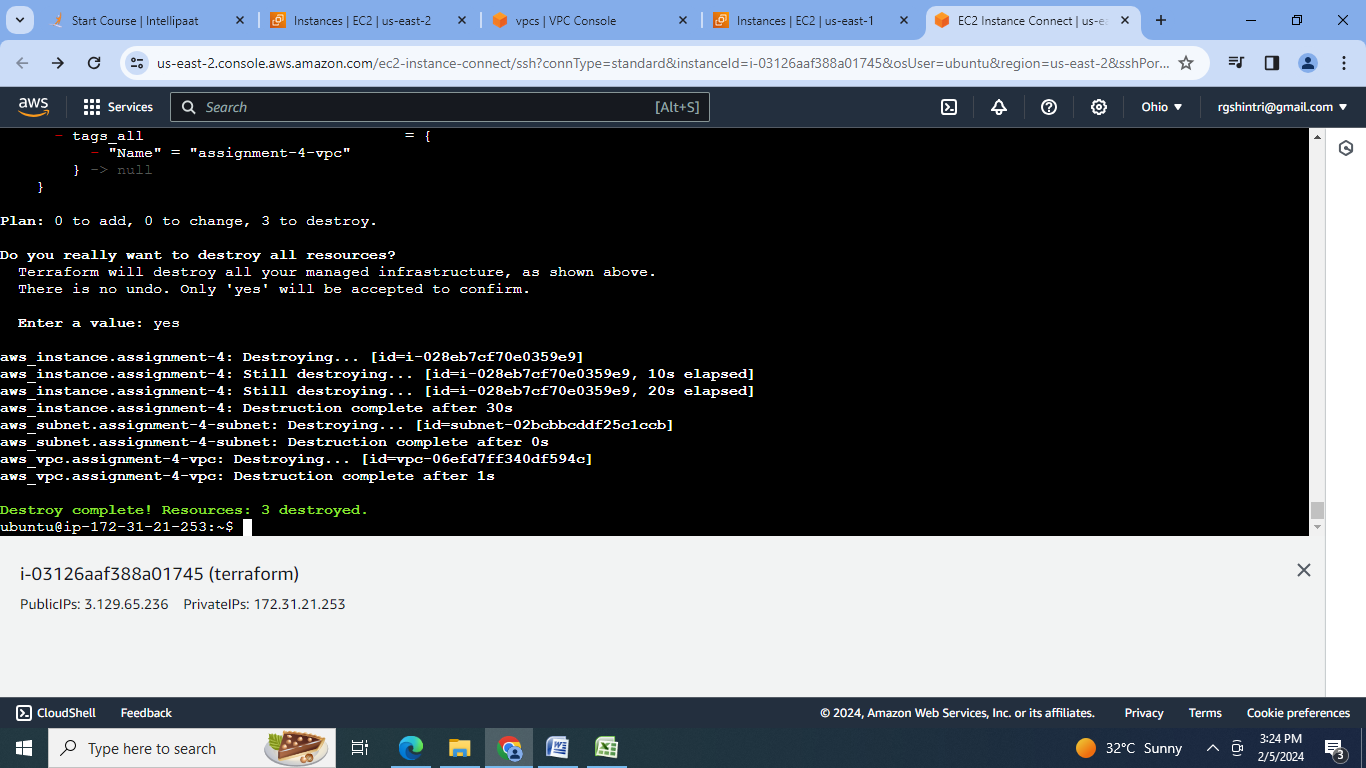
● Create a script to install apache2

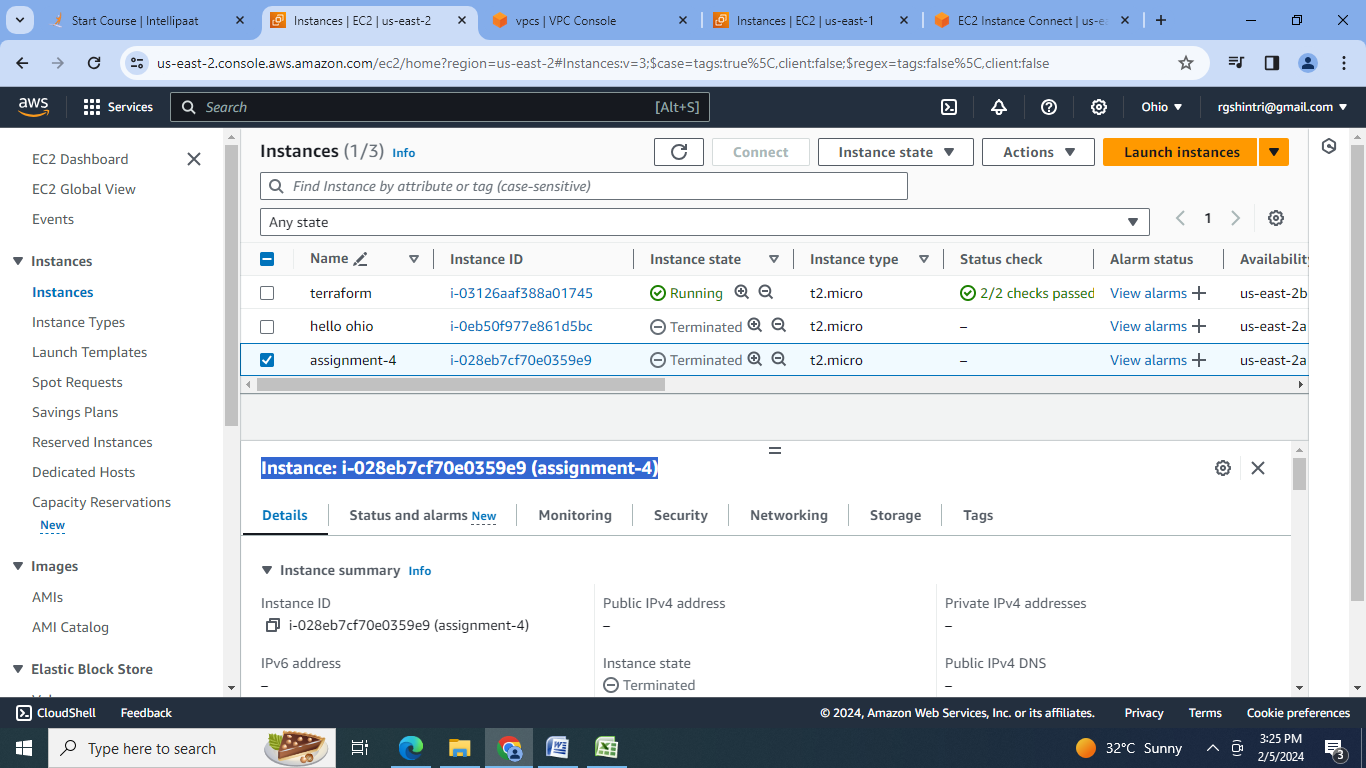
● Run this script on a newly created EC2 instance

● Print the IP address of the instance in a file on the local, once deployed

Steps:

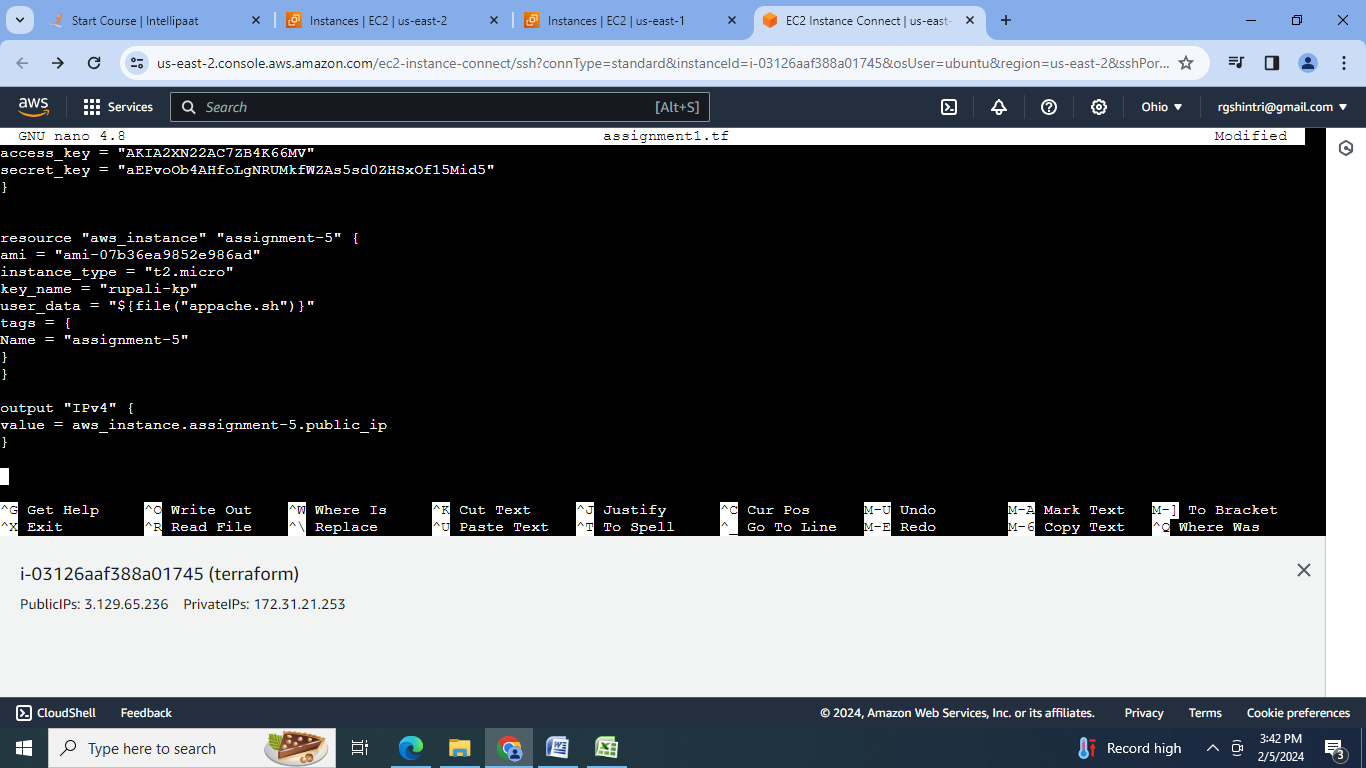
1.Destroy the previous deployment with terraform destroy:



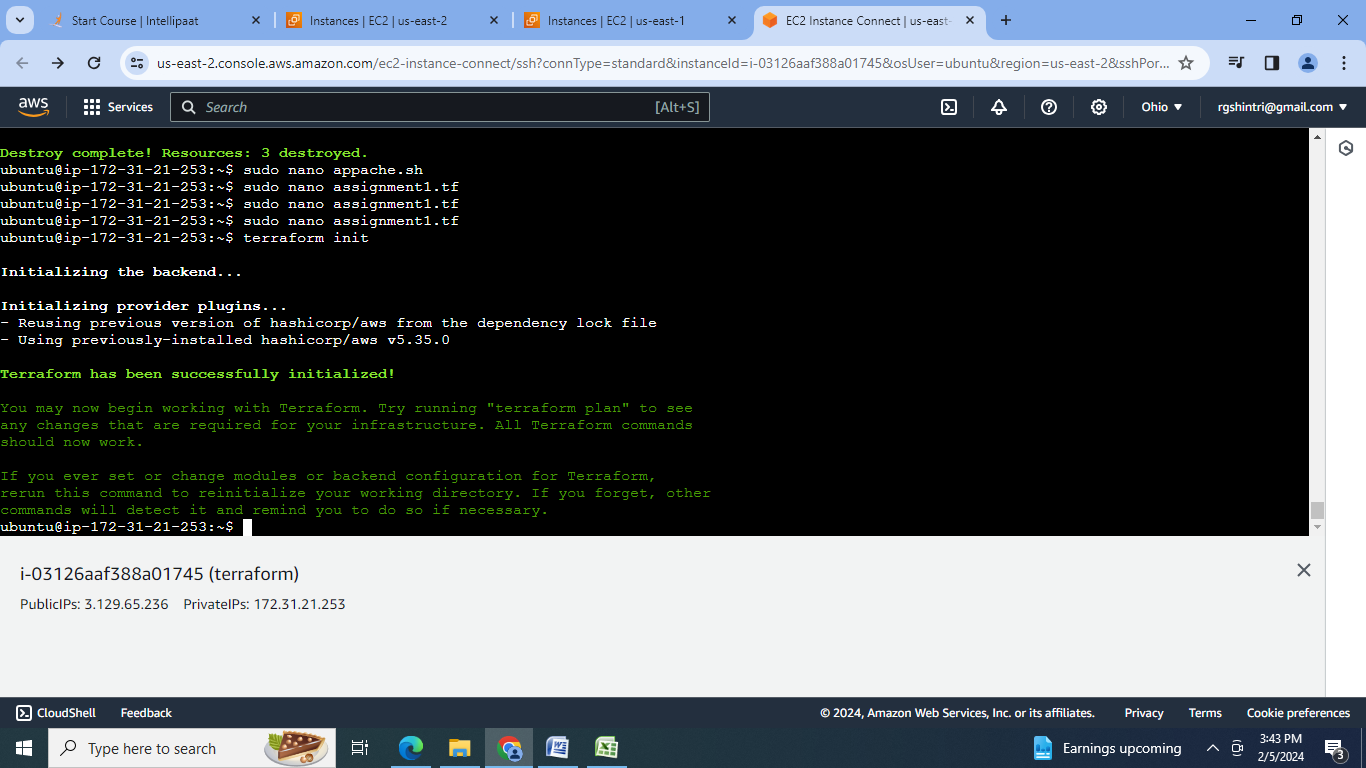




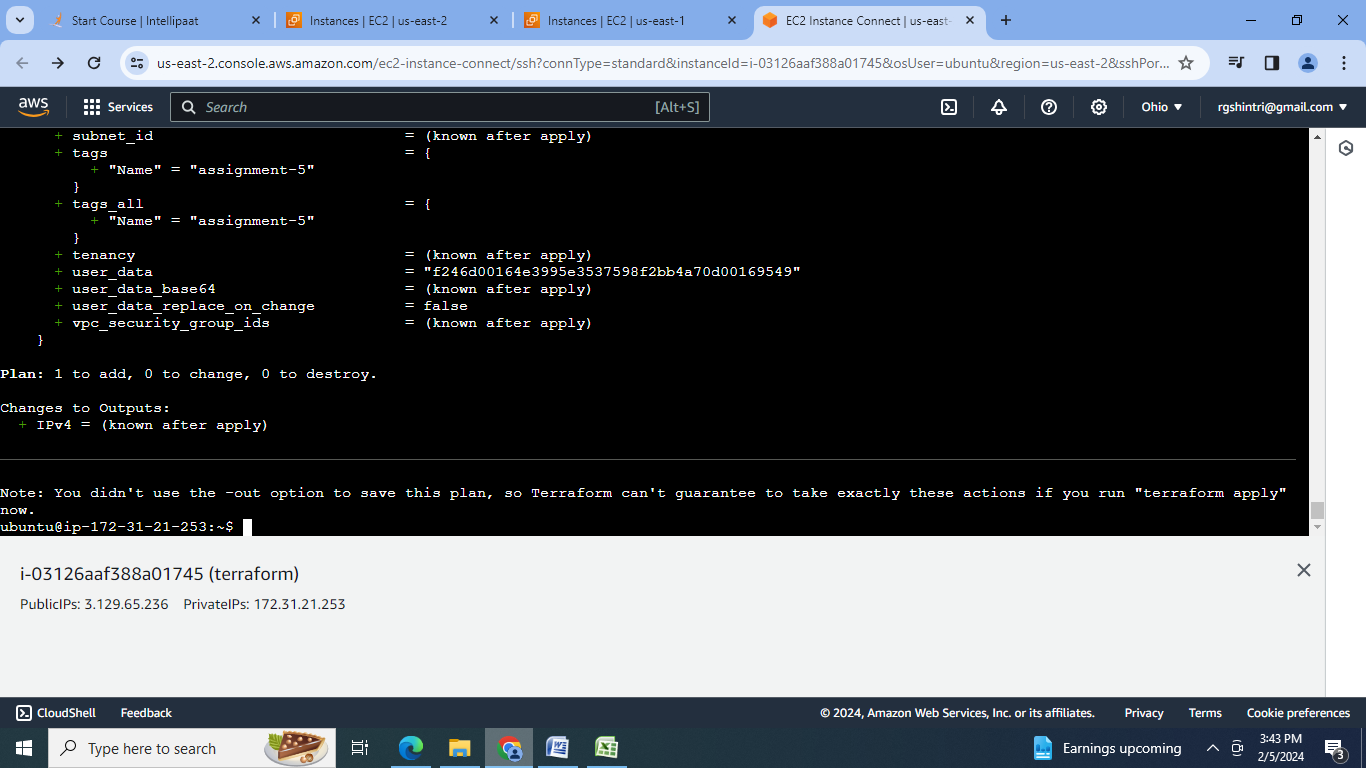
2.Create the configuration file:



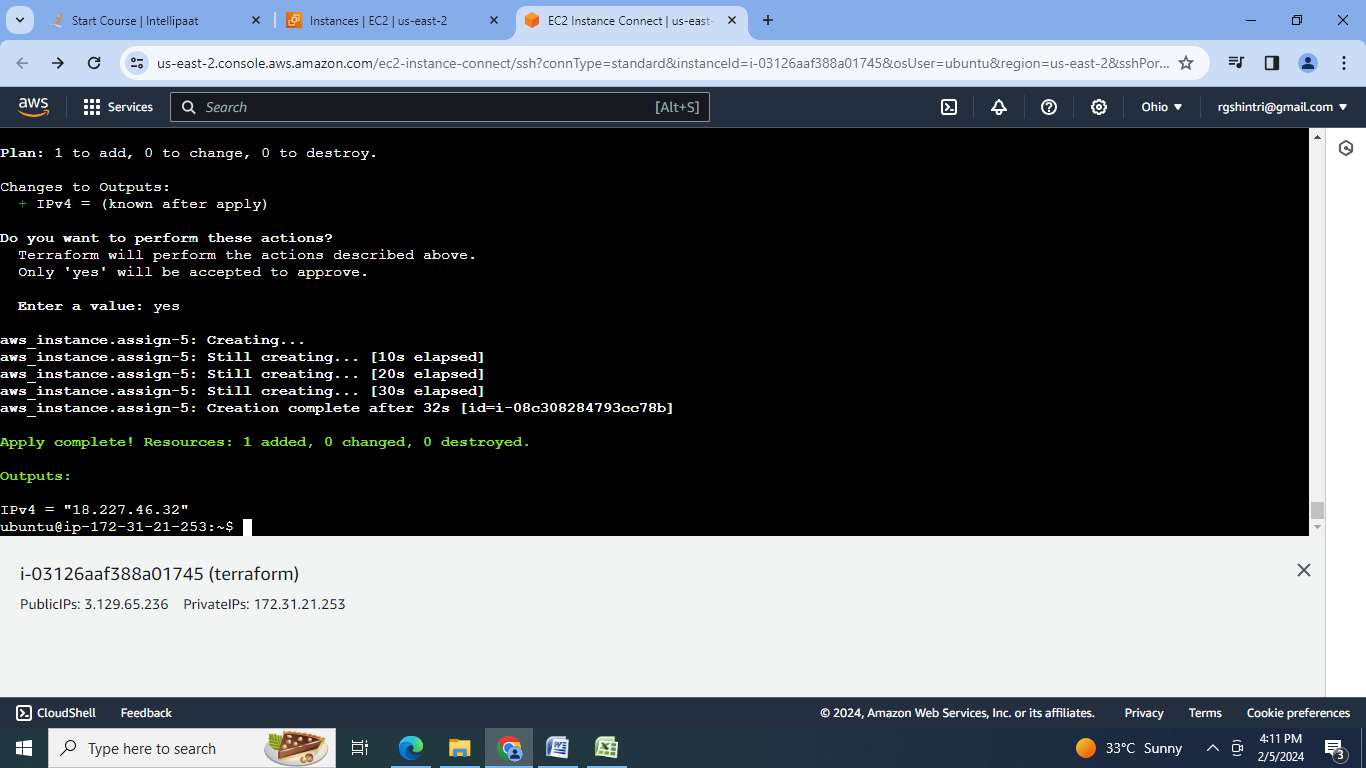
3.Initialise terraform:

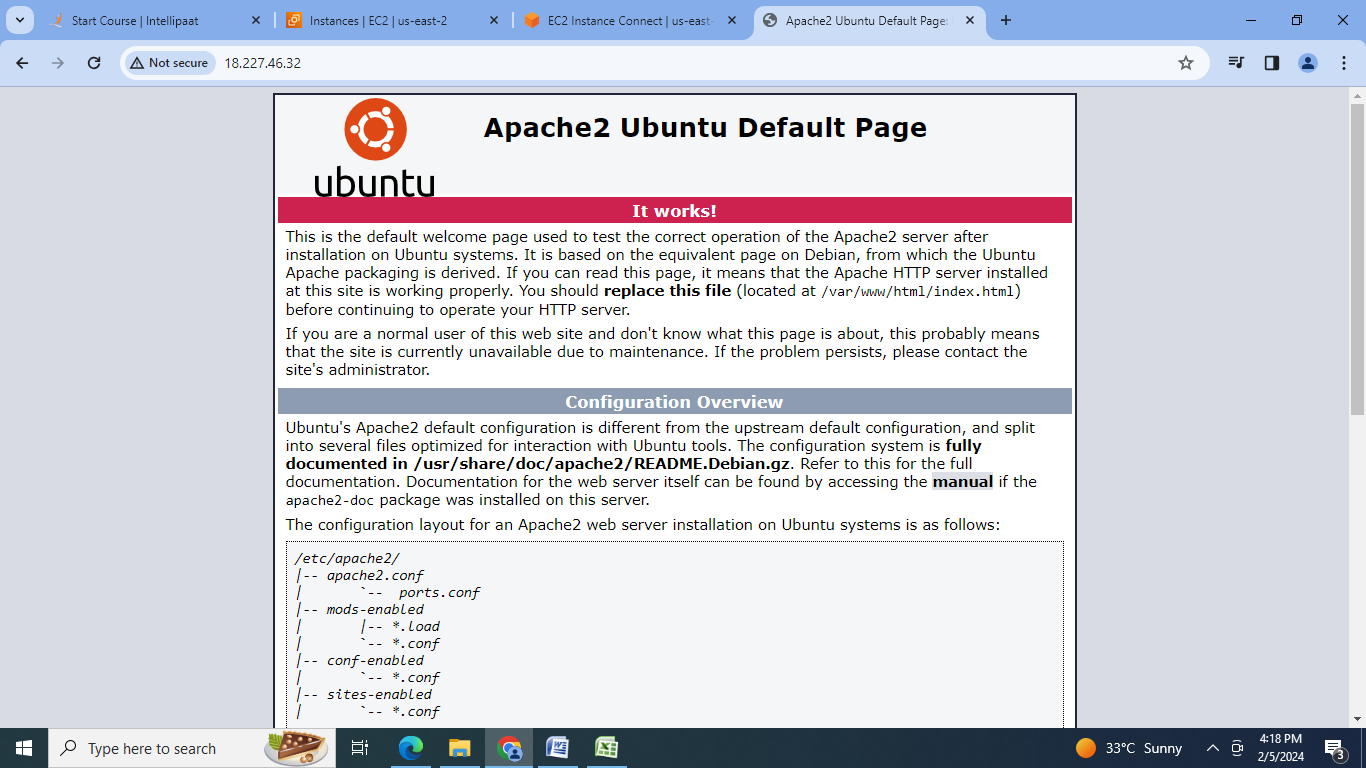


4.Create the configuration Plan :



5. Confirm the resource creation by terraform apply:





**Conclusion:** So terraform is a open source IaaC tool that allow us to define and the provision of the resources in the declarative configurative scripts like networks, servers etc.

