

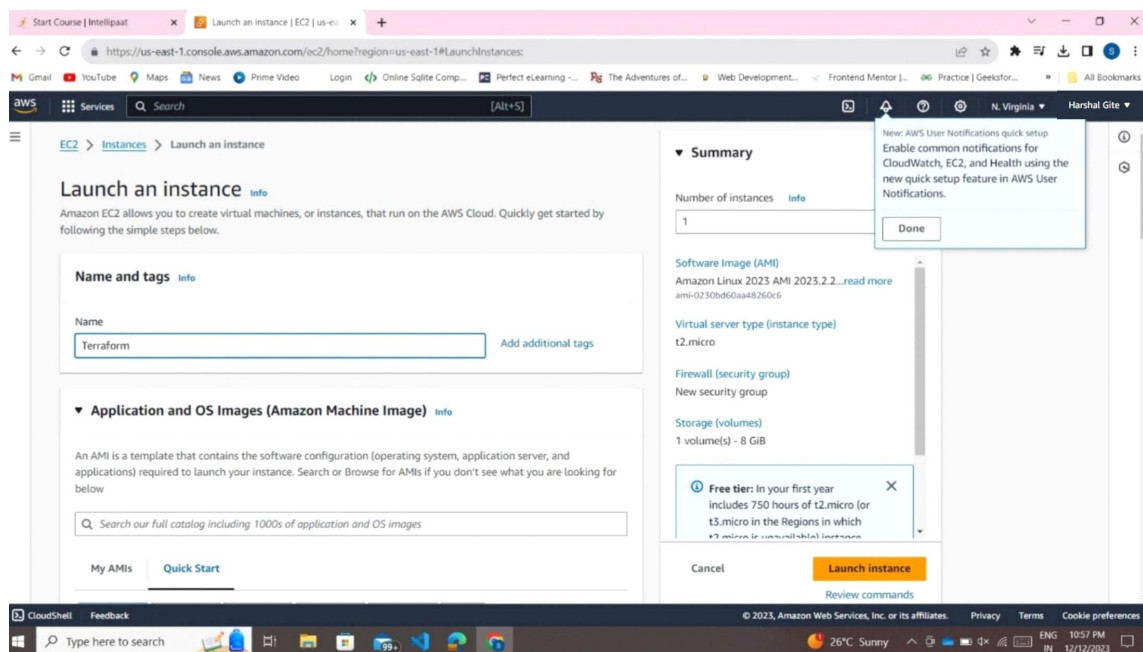
Terraform Assignment -1

Tasks To Be Performed:

Create an EC2 service in the default subnet in the Ohio region.

Solution:

Steps:



The screenshot shows the AWS CloudShell interface with a terminal window. The terminal displays system information for an Ubuntu instance on Dec 13, 2023, at 08:05:30 UTC. It shows system load, processes, memory usage, and swap usage. A notification indicates that 9 updates can be applied immediately, with 7 being standard security updates. The terminal also shows the last login time and the user's current shell session.

```
System information as of Wed Dec 13 08:05:30 UTC 2023

System load: 0.0          Processes: 87
Usage of /: 23.5% of 7.57GB   Users logged in: 0
Memory usage: 23%          IPv4 address for eth0: 172.31.22.15
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

9 updates can be applied immediately.
7 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

New release '22.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

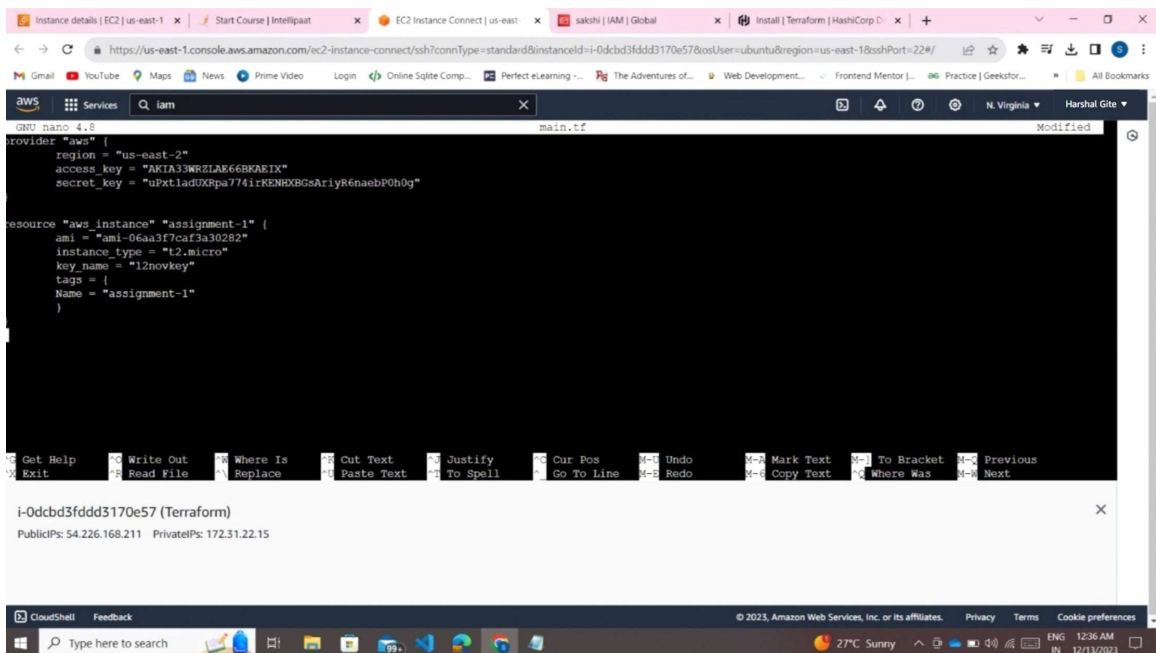
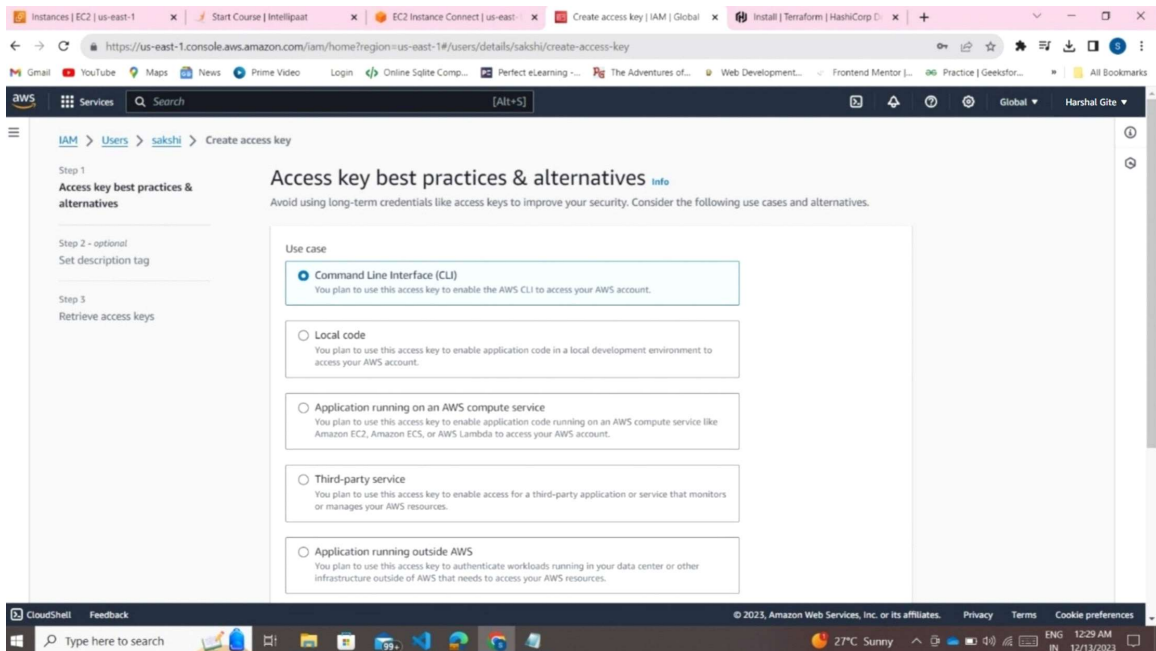
Last login: Wed Dec 13 07:07:11 2023 from 18.206.107.29
buntu@ip-172-31-22-15:~$ echo "deb [signed-by=/usr/share/keyrings/hashicorp-archive-keyring.gpg] https://apt.releases.hashicorp.com $(lsb_release -cs) main" | sudo
tee /etc/apt/sources.list.d/hashicorp.list
deb [signed-by=/usr/share/keyrings/hashicorp-archive-keyring.gpg] https://apt.releases.hashicorp.com focal main
buntu@ip-172-31-22-15:~$ sudo apt update && sudo apt install terraform
```

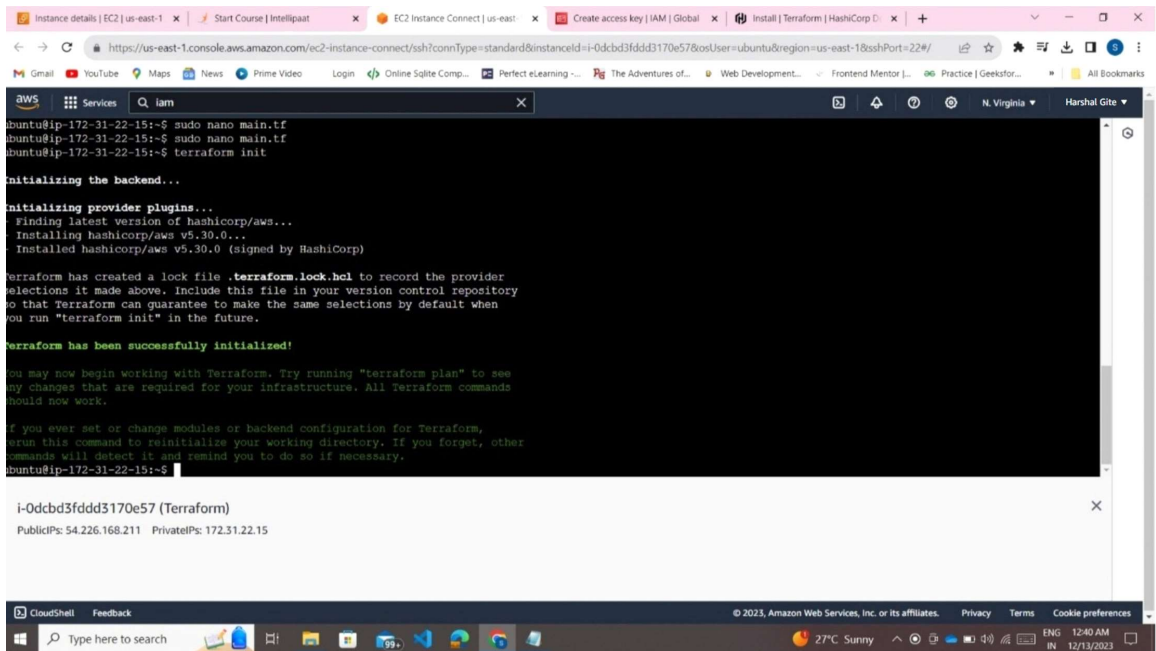
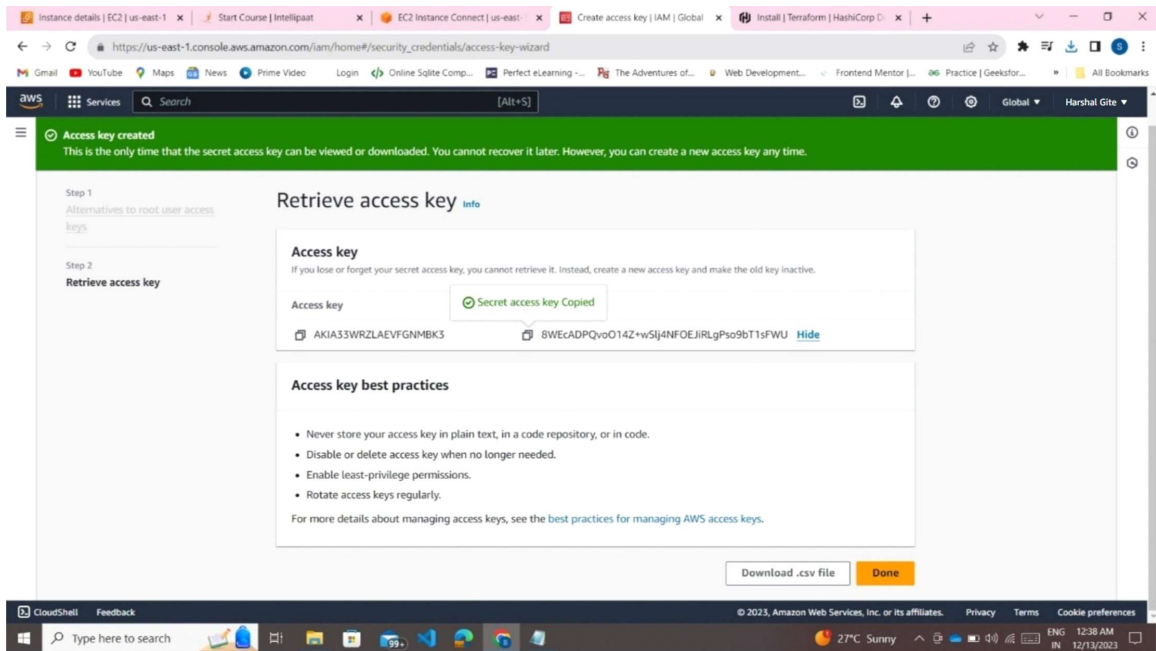
i-Odcdb3fddd3170e57 (Terraform)
PublicIPs: 54.226.168.211 PrivateIPs: 172.31.22.15

The screenshot shows the AWS CloudShell interface with a terminal window. The terminal displays the output of the 'apt update' and 'apt install terraform' commands. It shows the progress of downloading and installing the Terraform package, including the size of the package and the disk space requirements.

```
Hit:5 https://apt.releases.hashicorp.com focal/main amd64 Packages [110 kB]
Hit:6 http://security.ubuntu.com/ubuntu focal-security InRelease
Get:1 https://apt.releases.hashicorp.com focal/main amd64 terraform amd64 1.6.5-1 [25.8 MB]
Fetched 25.8 MB in 15s (15.6 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
5 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  terraform
0 upgraded, 1 newly installed, 0 to remove and 46 not upgraded.
Need to get 25.8 MB of archives.
After this operation, 81.0 MB of additional disk space will be used.
Get:1 https://apt.releases.hashicorp.com focal/main amd64 terraform amd64 1.6.5-1 [25.8 MB]
Fetched 25.8 MB in 0s (72.4 MB/s)
Selecting previously unselected package terraform.
Reading database ... 62002 files and directories currently installed.)
Preparing to unpack .../terraform_1.6.5-1_amd64.deb ...
Unpacking terraform (1.6.5-1) ...
Setting up terraform (1.6.5-1) ...
buntu@ip-172-31-22-15:~$ terraform --version
terraform v1.6.5
buntu@ip-172-31-22-15:~$
```

i-Odcdb3fddd3170e57 (Terraform)
PublicIPs: 54.226.168.211 PrivateIPs: 172.31.22.15





The screenshot shows the AWS CloudShell interface with a terminal window. The terminal displays the following Terraform configuration:

```
provider "aws" {
  region = "us-east-2"
  access_key = "AKIA33WRRJAEVFNMBK3"
  secret_key = "SWEcADPQvoo14z+WSlj4NFOE3jRLgPso9bTlsFWU"
}

resource "aws_instance" "assignment-1" {
  ami = "ami-07b36ea9852e986ad"
  instance_type = "t2.micro"
  key_name = "ohio-key"
  tags = {
    Name = "assignment-1"
  }
}
```

Below the terminal, a notification box shows the instance ID: `i-0dcbd3fddd3170e57 (Terraform)` with PublicIPs: 54.226.168.211 and PrivateIPs: 172.31.22.15.

The screenshot shows the AWS CloudShell interface with a terminal window displaying the output of a Terraform apply command:

```
+ tags.all = {
+   "Name" = "assignment-1"
+ }
+ tenancy = (known after apply)
+ user_data = (known after apply)
+ user_data_base64 = (known after apply)
+ user_data_replace_on_change = false
+ vpc_security_group_ids = (known after apply)

Plan: 1 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes

aws_instance.assignment-1: Creating...
aws_instance.assignment-1: Still creating... [10s elapsed]
aws_instance.assignment-1: Still creating... [20s elapsed]
aws_instance.assignment-1: Still creating... [30s elapsed]
aws_instance.assignment-1: Creation complete after 32s [id=i-095a9ac374798ac55]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
ubuntu@ip-172-31-22-15:~$
```

Below the terminal, a notification box shows the instance ID: `i-0dcbd3fddd3170e57 (Terraform)` with PublicIPs: 54.226.168.211 and PrivateIPs: 172.31.22.15.

Instances | EC2 | us-east-2

Start Course | Intelligaat

EC2 Instance Connect | us-east-2

Create access key | IAM | Global

Install | Terraform | HashiCorp

https://us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#instances:

Services Search [Alt+S]

EC2 Dashboard

EC2 Global View

Events

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

New

▼ Images

AMIs

AMI Catalog

▼ Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Instances (1) Info

Find Instance by attribute or tag (case-sensitive)

Connect

Instance state

Actions

Launch Instances

1

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	assignment-1	i-095a9ac374798ac55	Running	t2.micro	Initializing	No alarms	us-east-2a	ec2-3-137-189-1

Select an instance

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