

Assignment

EC2:

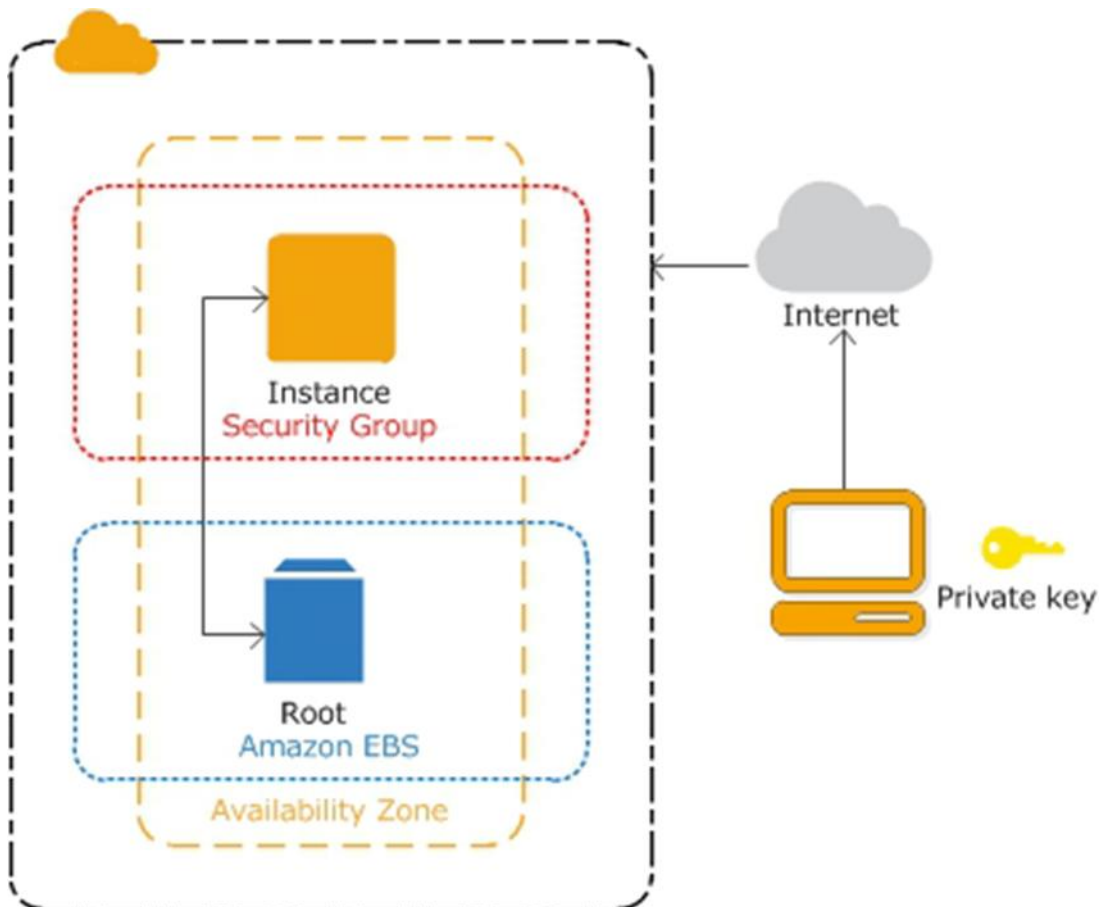
Question:

This assignment is deployed below Architecture AWS account to all learners which follow user connect to, and use a Linux instance. An instance is a virtual server/machine (VM) in the AWS Cloud running a specific operating system and can be used to host applications and databases.

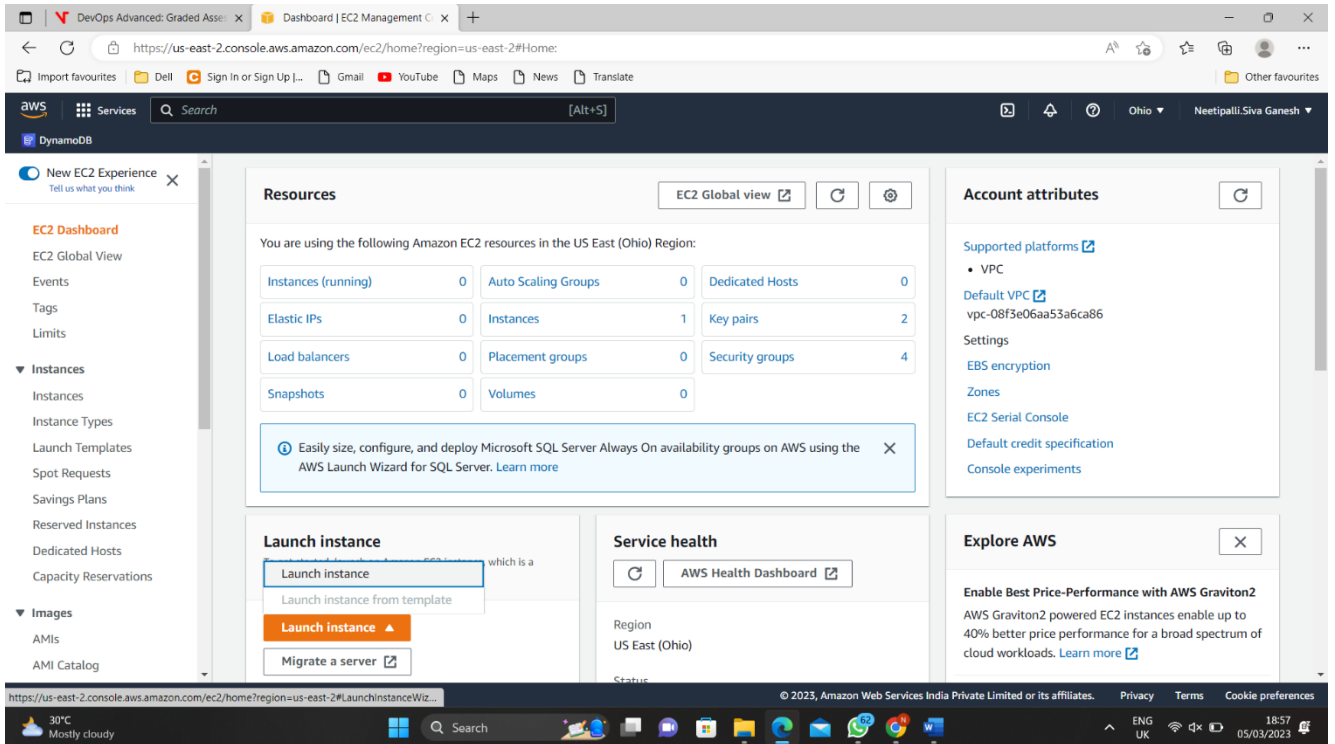
The goal

The following are the goals of this hands-on:

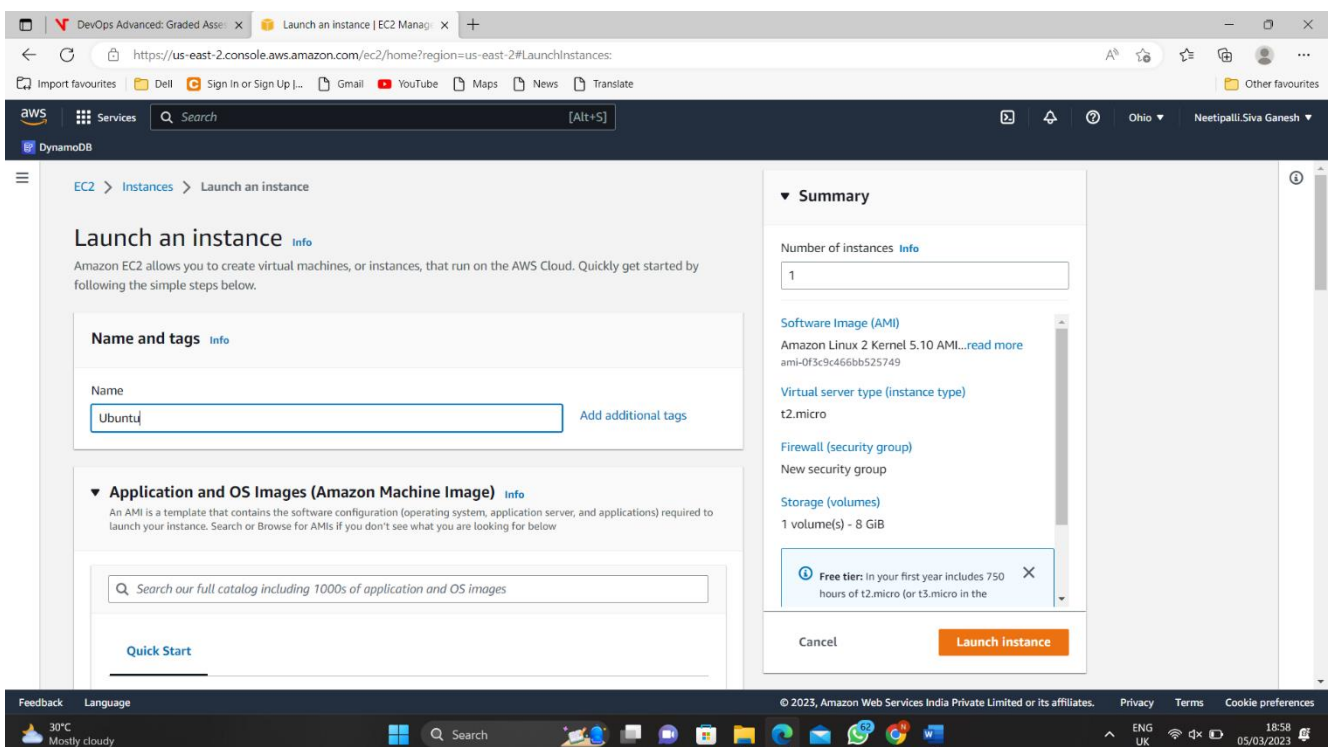
1. Understand the process of launching an instance
2. Install a simple http webserver
3. Access the site from a browser
4. Connect to the instance via SSH (optional for non technical learners)
5. Terminate an instance



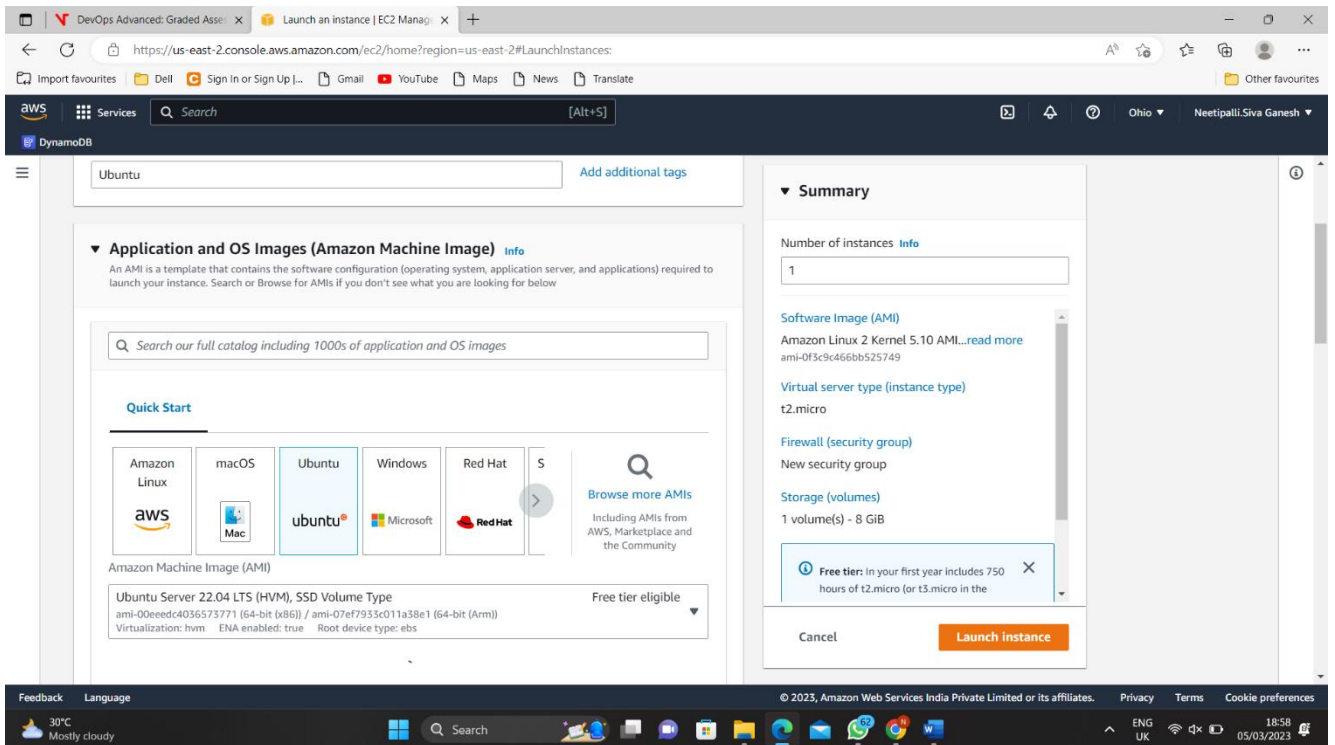
1. EC2 Instance Launch Page'



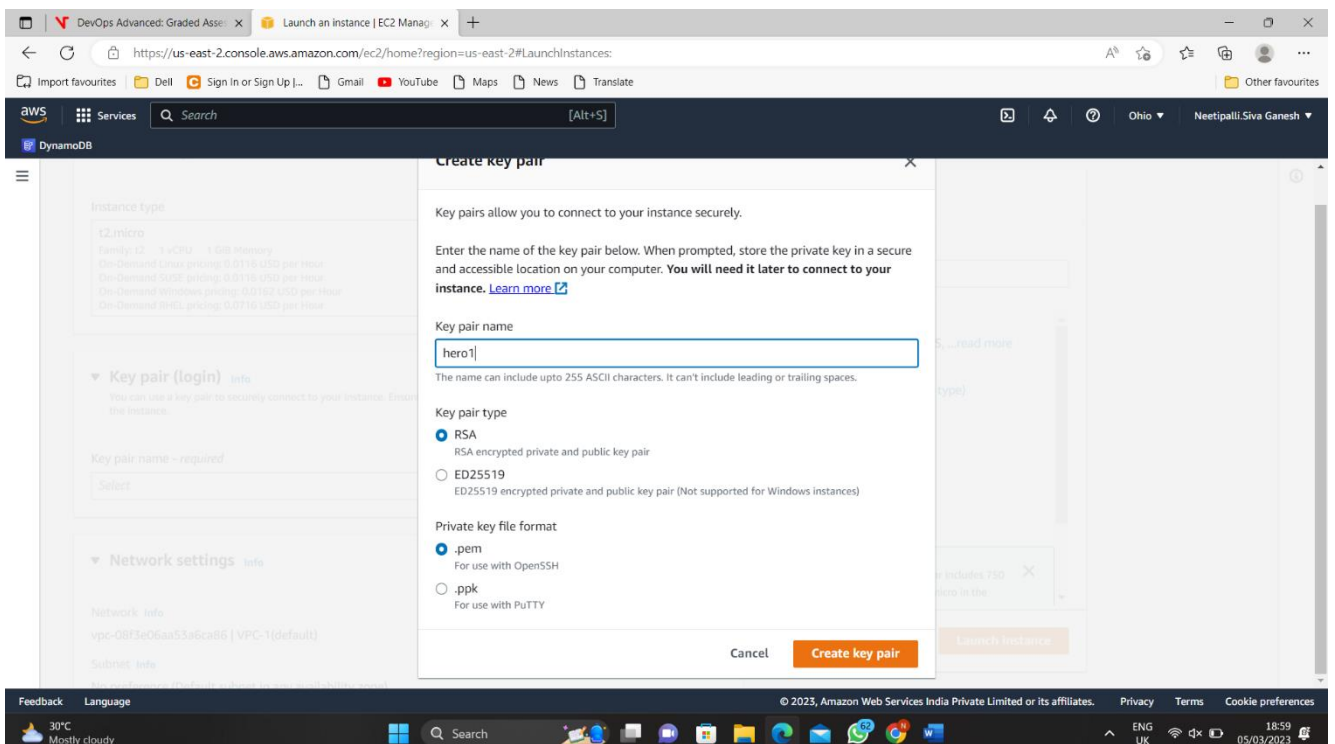
2. EC2 Name and Tag Creation:



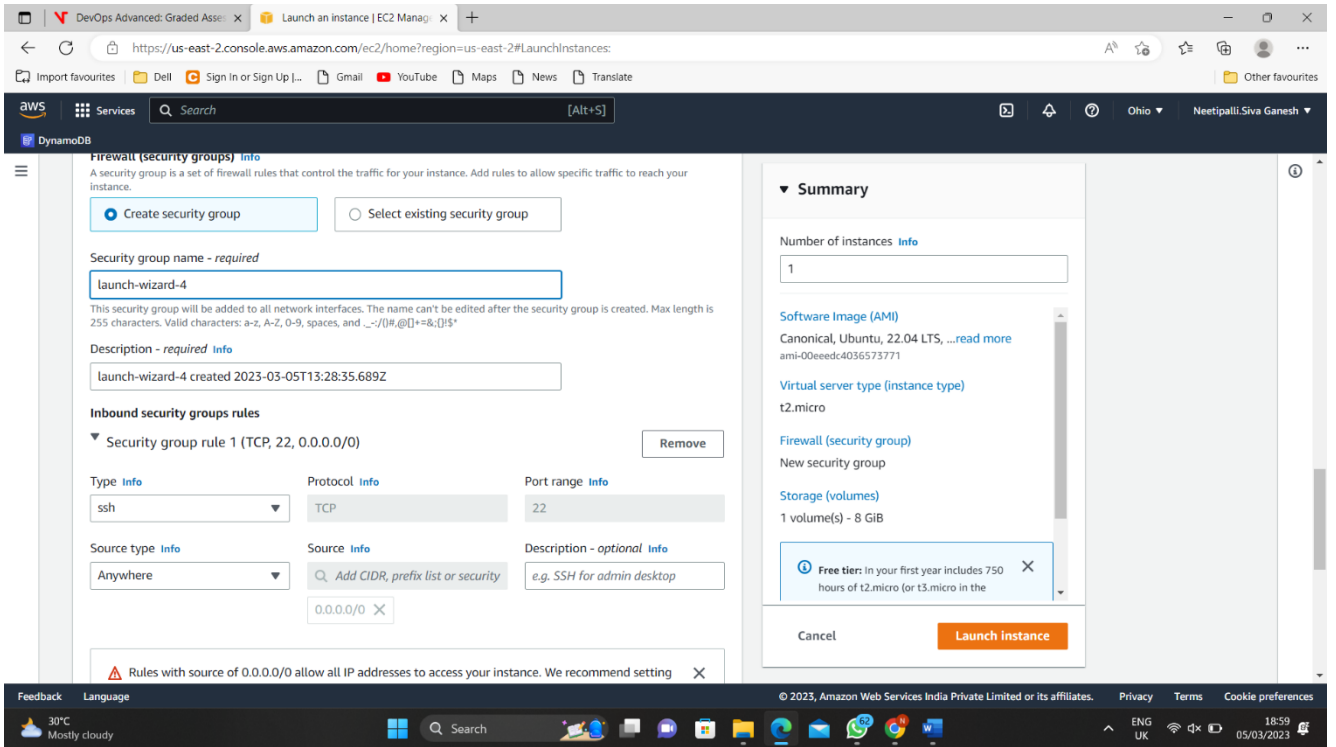
3. EC2 AMI Selection:



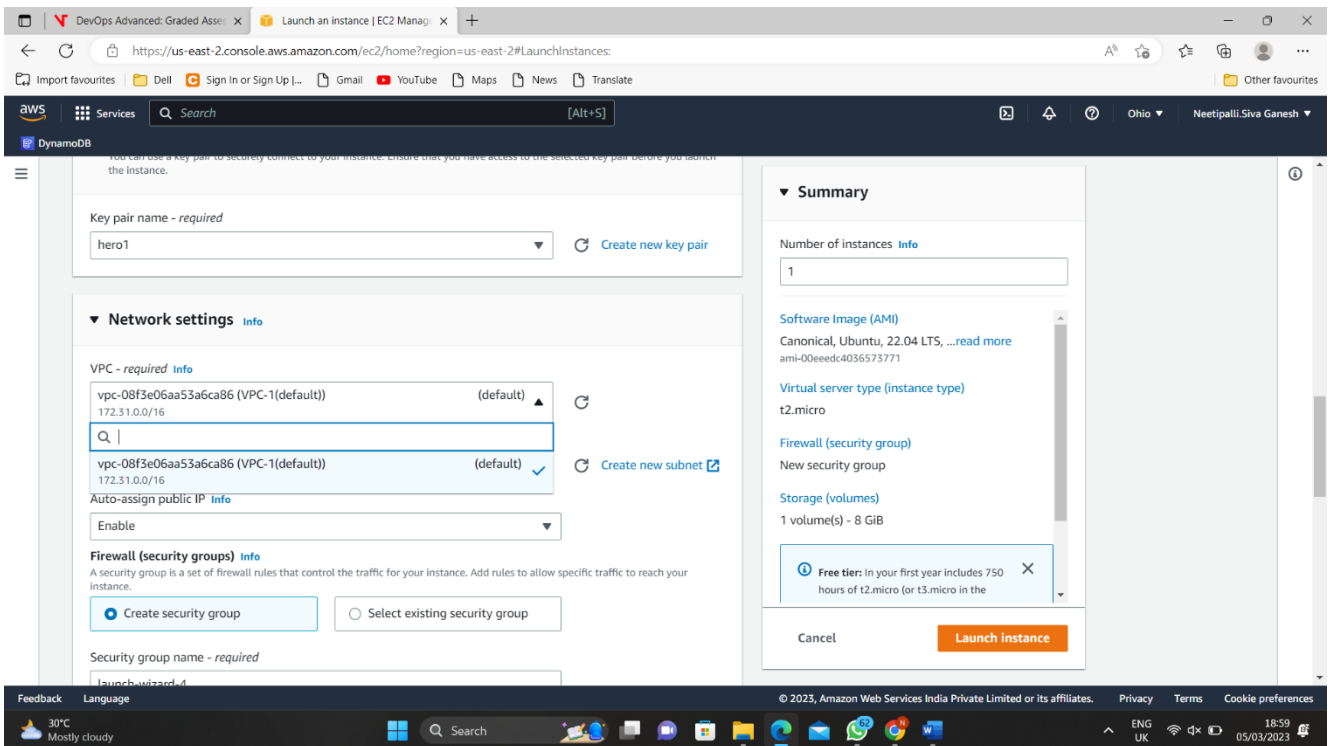
4. EC2 Key Pair Creation:



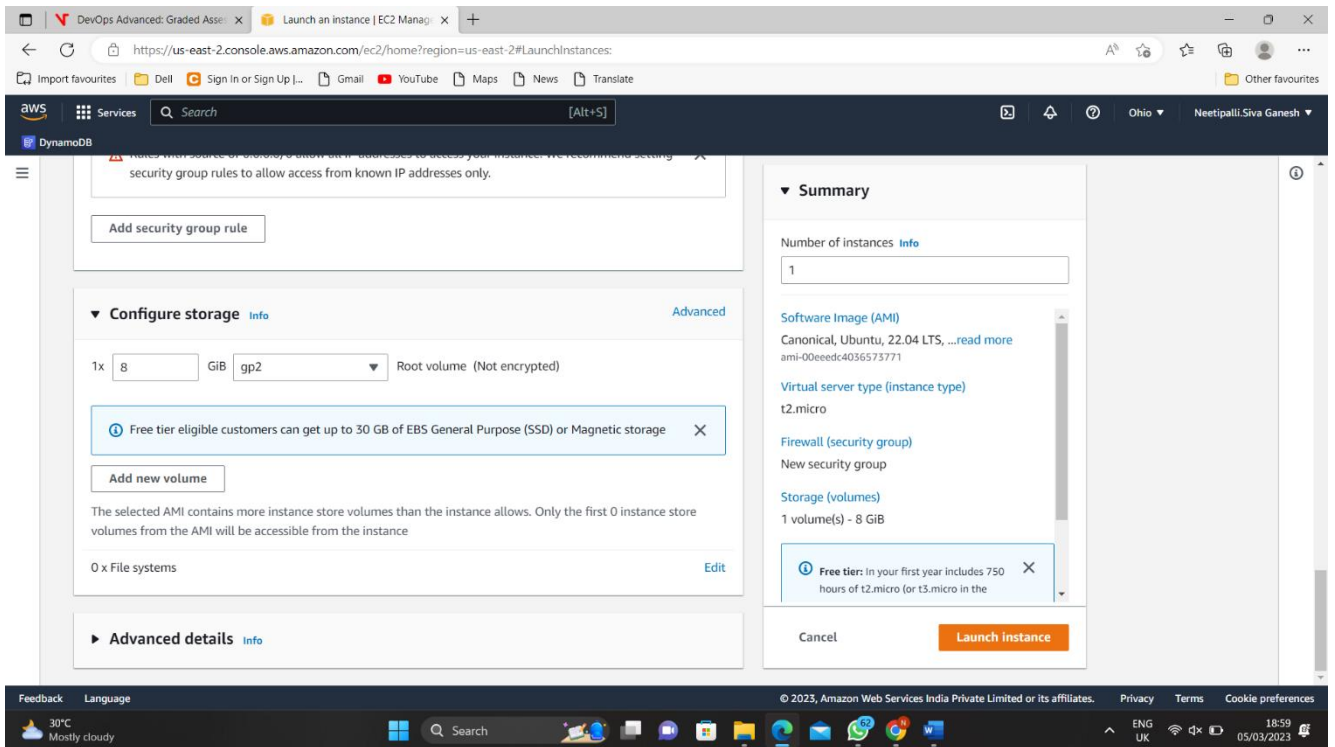
5. EC2 Security Group Creation (SSH,HTTP,HTTPS):



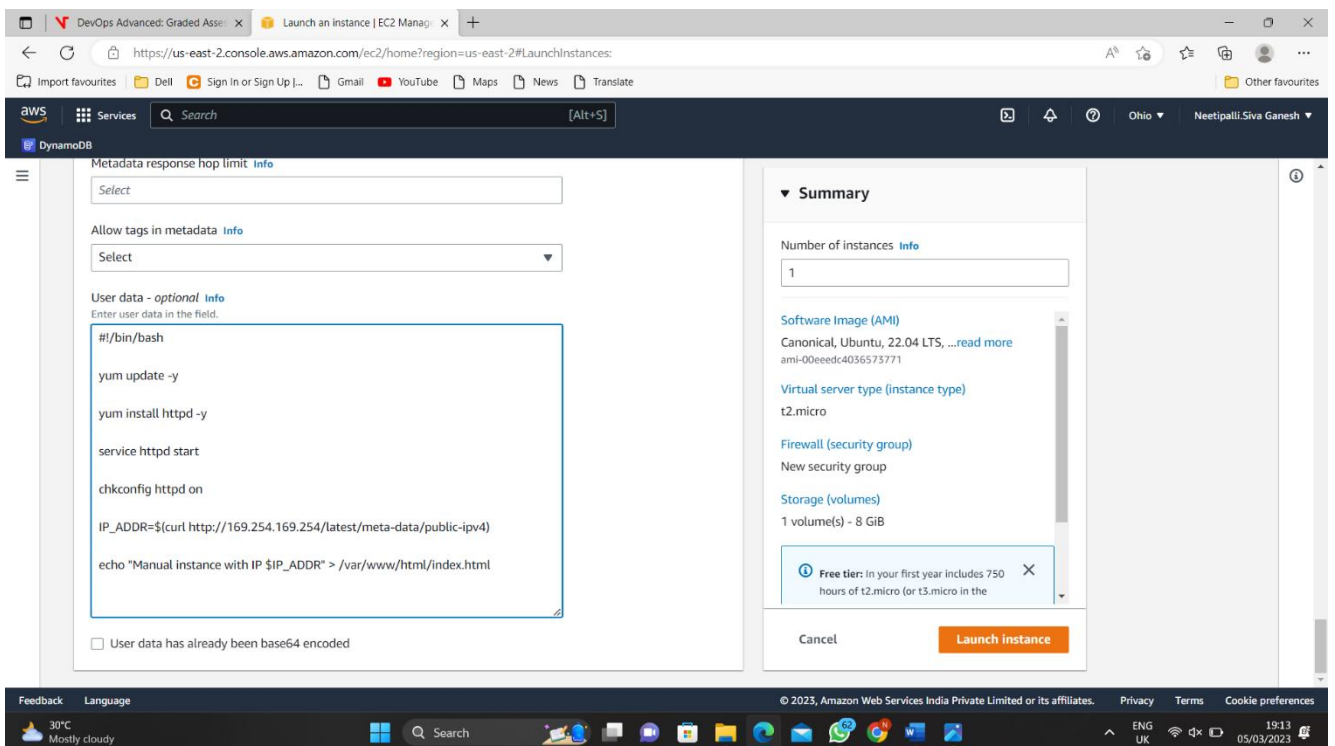
6. EC2 VPC and Subnet Selection:



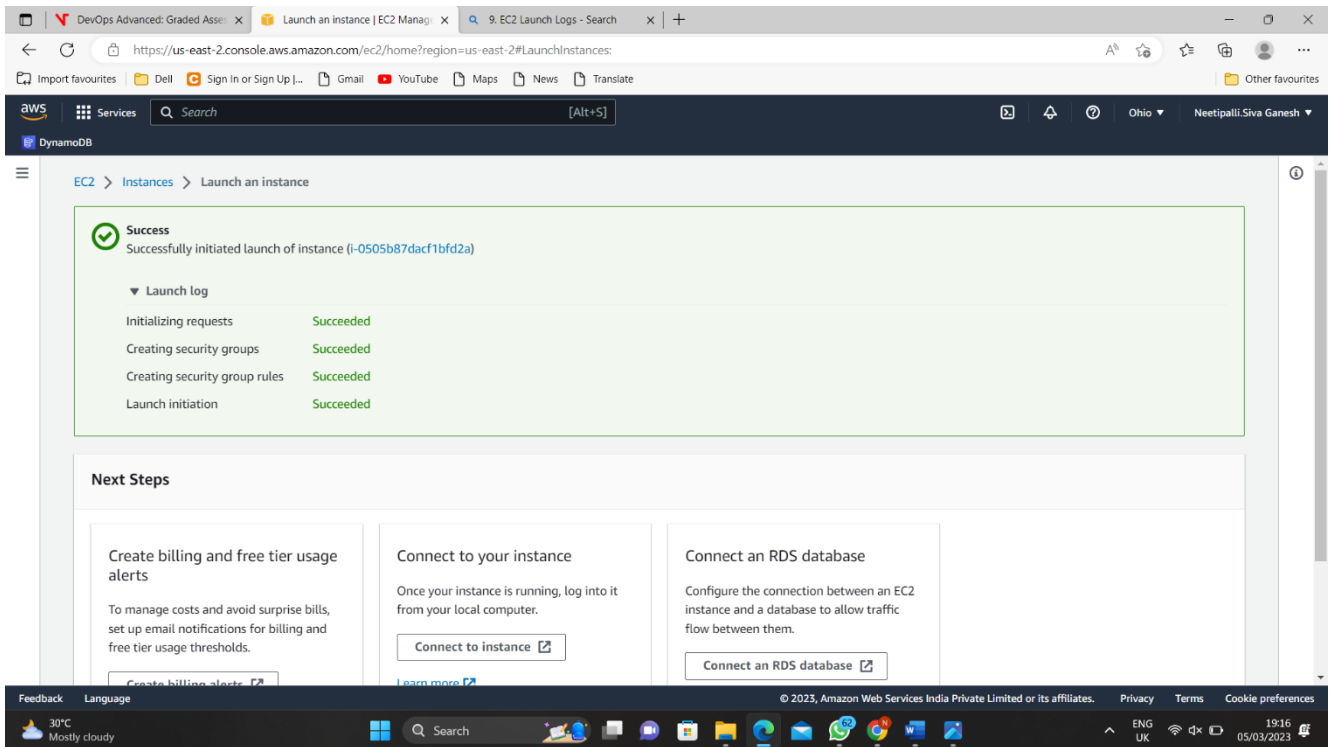
7. EC2 EBS Volume Selection:



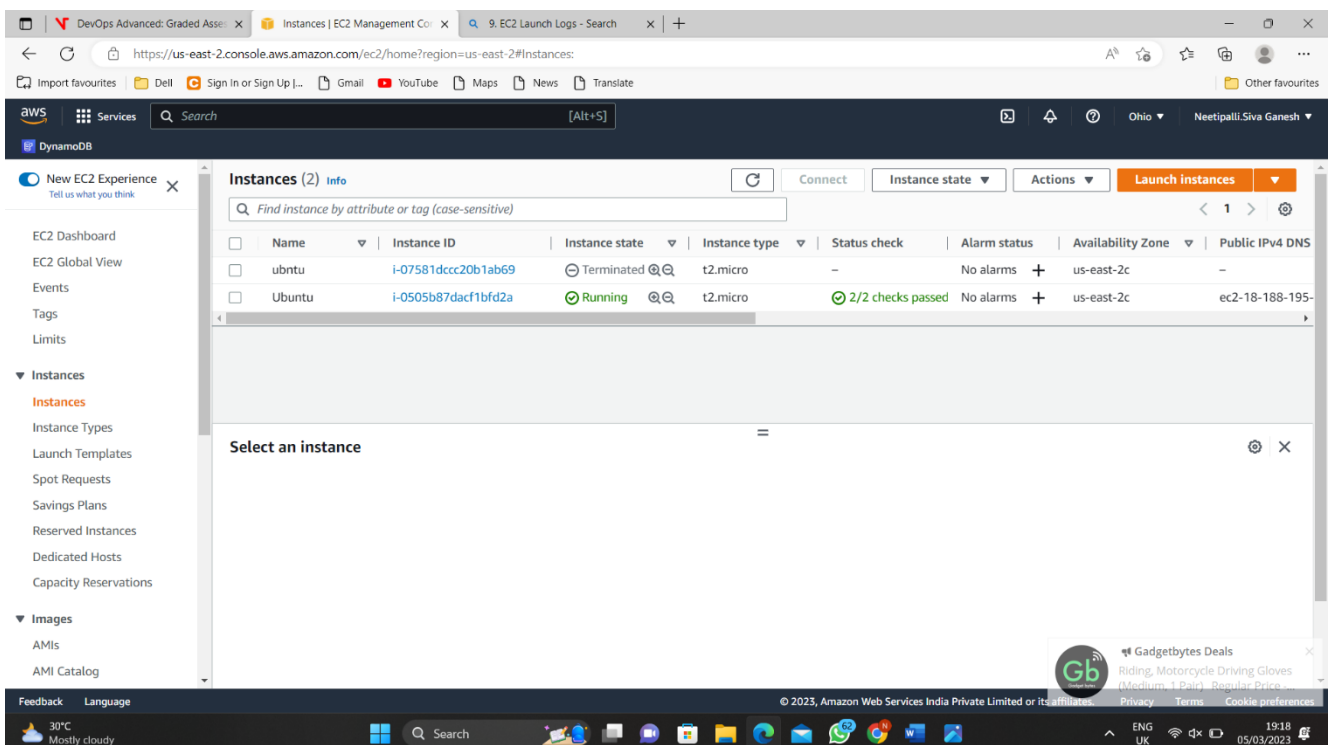
8. User Data Insertion Page with below command:



8. EC2 Launch Logs:



10. EC2 Instance Running State:



11. EC2 Summary Page with Public and Private IP:

The screenshot displays the AWS Management Console for the EC2 instance **i-0505b87dac1bfd2a (Ubuntu)**. The instance is in a **Running** state. Key details include:

- Instance ID:** i-0505b87dac1bfd2a (Ubuntu)
- Public IPv4 address:** 18.188.195.49
- Private IPv4 addresses:** 172.31.45.229
- Instance state:** Running
- Hostname type:** IP name: ip-172-31-45-229.us-east-2.compute.internal
- Private IP DNS name (IPv4 only):** ip-172-31-45-229.us-east-2.compute.internal
- Instance type:** t2.micro
- VPC ID:** vpc-08f3e06aa53a6ca86 (VPC-1(default))
- Subnet ID:** subnet-037e3df812505ad14 (subnet-3(def))
- IAM Role:** -

The left sidebar shows navigation options like **EC2 Dashboard**, **Events**, **Tags**, **Limits**, and **Instances**. The bottom of the page shows a Windows taskbar with the date 05/03/2023.

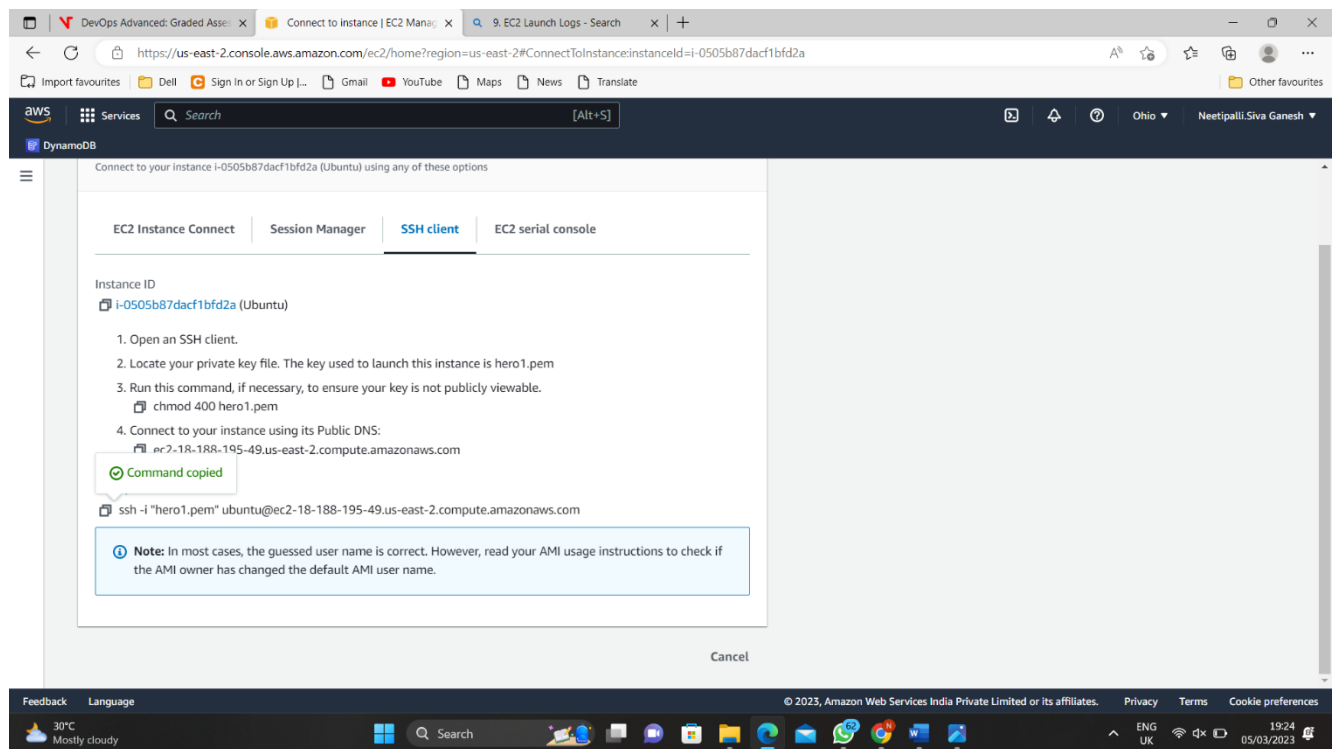
12. EC2 Instance Monitoring Page:

The screenshot displays the AWS Management Console for the EC2 instance **i-0505b87dac1bfd2a (Ubuntu)**, specifically the **Monitoring** tab. The page shows various performance metrics over a 1-hour period:

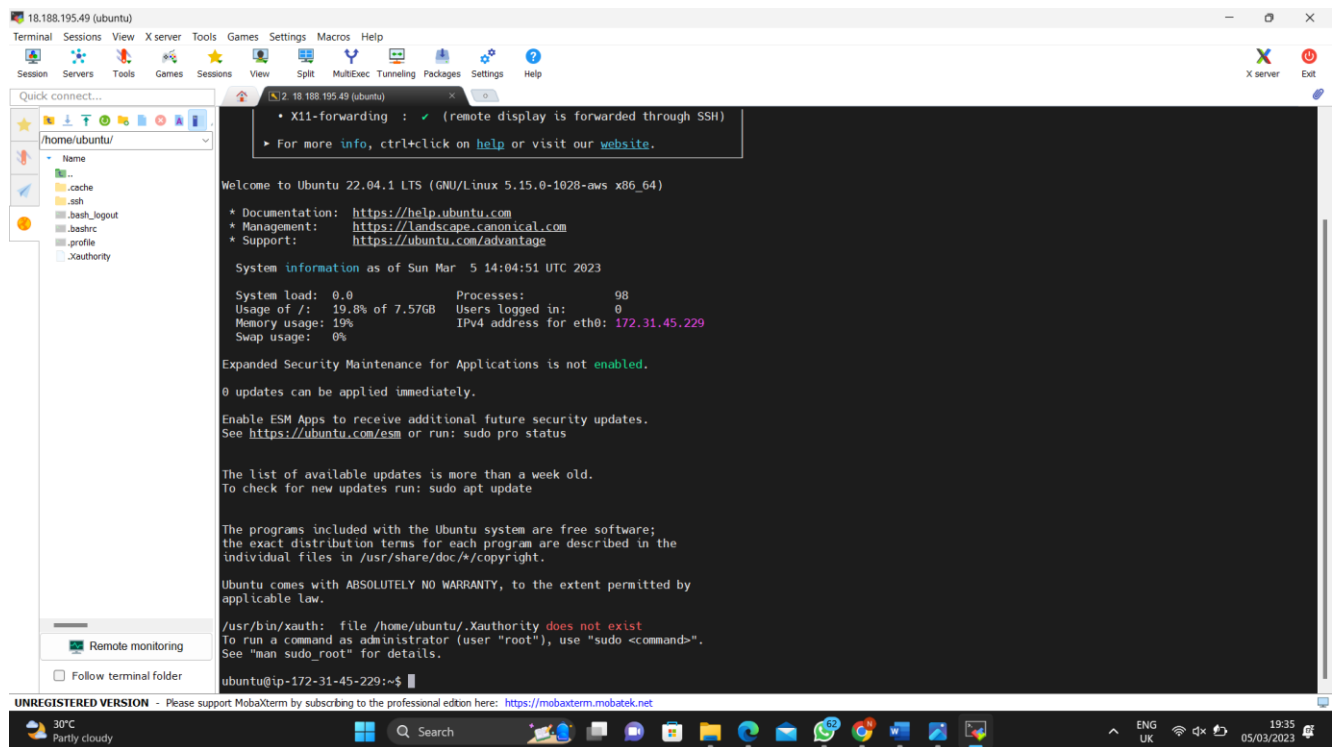
- CPU utilization (%):** 16.5%
- Network in (bytes):** 51.1k
- Network out (bytes):** 57.2k
- Network packets in (count):** 266
- Network packets out (count):** 343
- Disk reads (bytes):** -
- Disk read operations (operations):** -
- Disk writes (bytes):** -
- Disk write operations (operations):** -

The left sidebar shows navigation options like **EC2 Dashboard**, **Events**, **Tags**, **Limits**, and **Instances**. The bottom of the page shows a Windows taskbar with the date 05/03/2023.

13. SSH Access of EC2 instance in Local Machine:



14. Browsing EC2 instance in the Browser Local Machine.



15. Terminating the Resource .:

