Module 2: EC2 Assignment

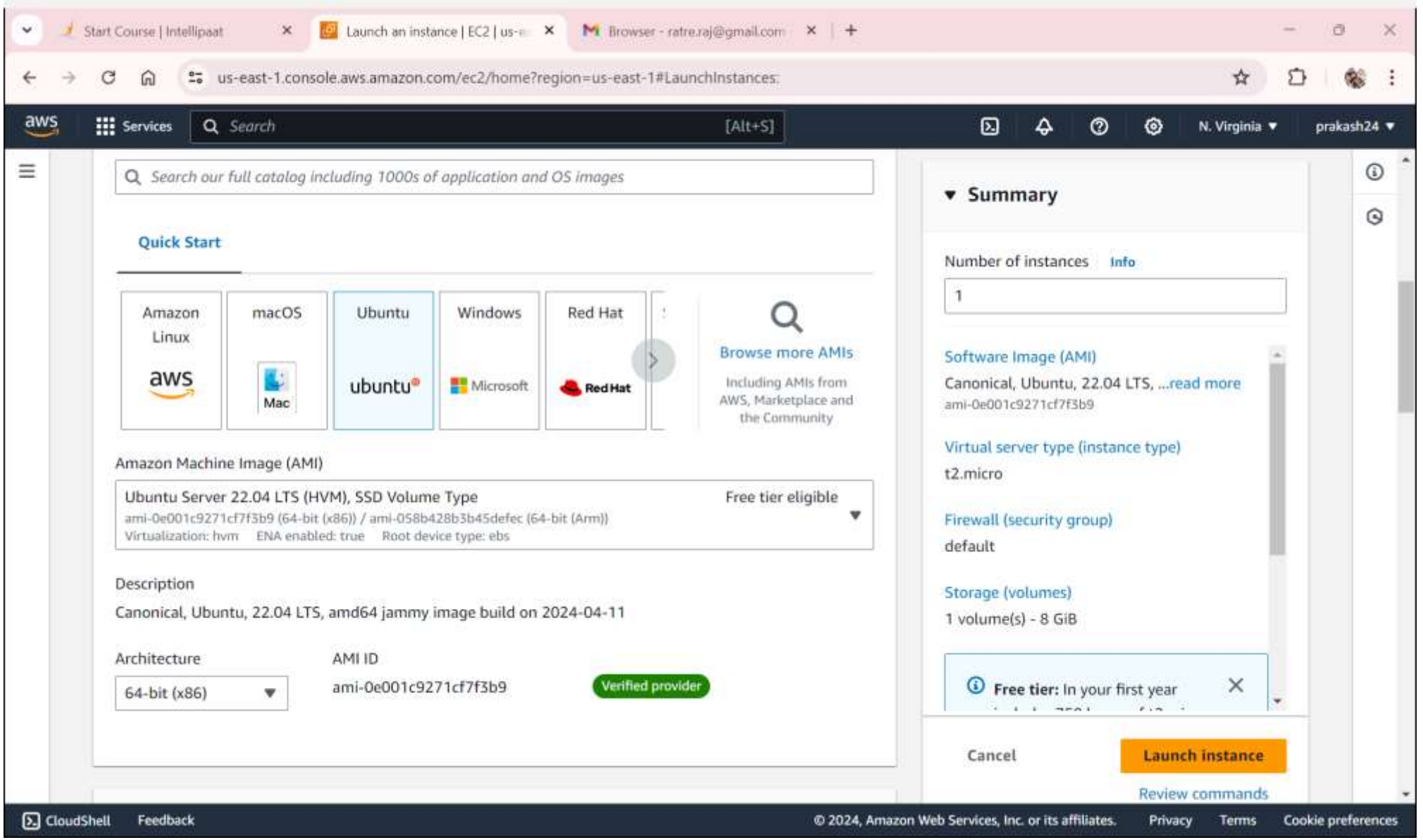
Problem Statement:

You work for XYZ Corporation. Your corporation wants to launch a new web-based application using AWS Virtual Machines. Configure the resources accordingly for the tasks.

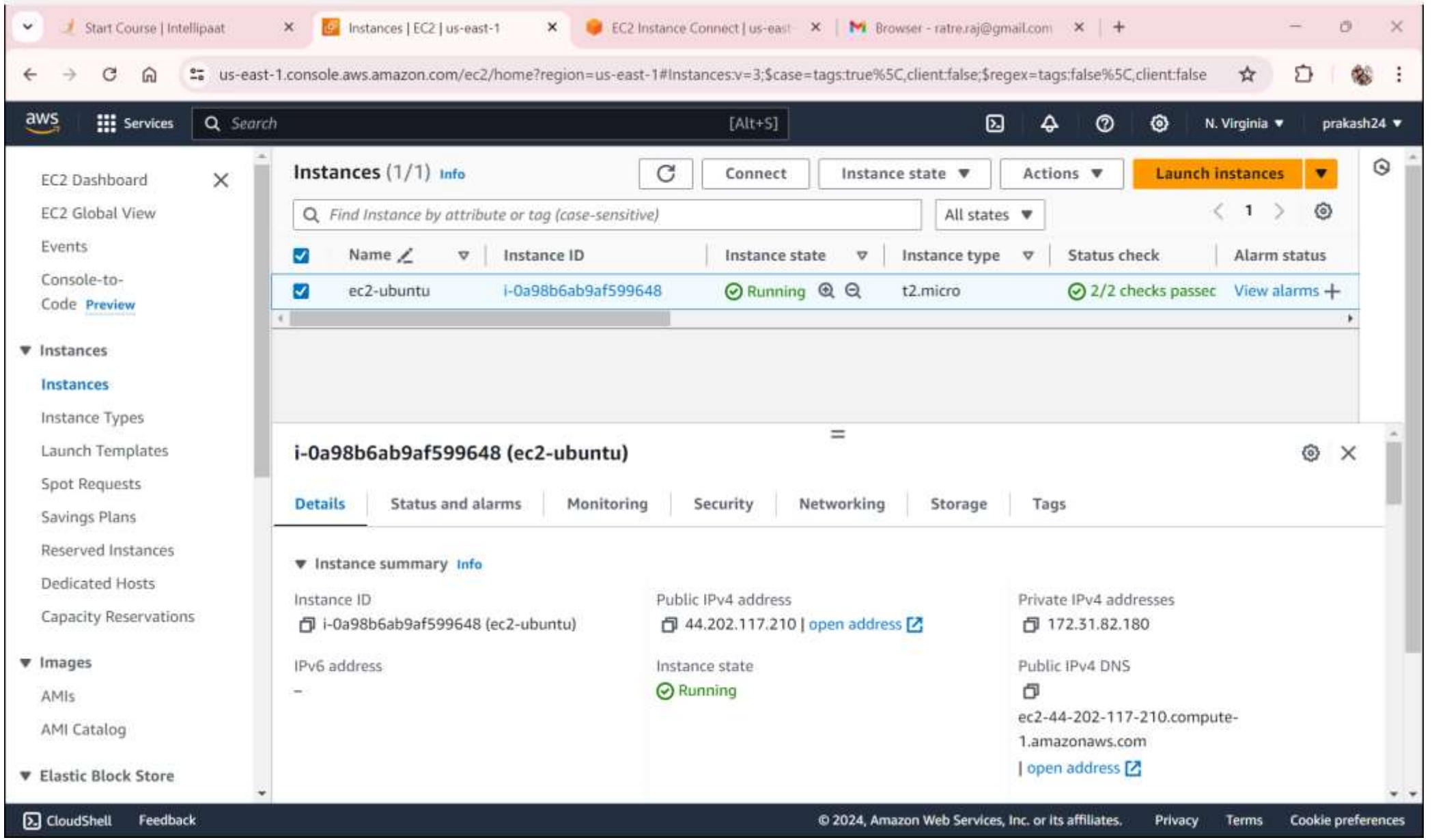
Tasks To Be Performed:

1. Create an instance in the US-East-1 (N. Virginia) region with an Ubuntu OS and install Nginx for making them web servers.
2. Change the default website with a page displaying the message: “Hello World”

Launching ec2 instance in US-East-1 (N. Virginia) with Ubuntu

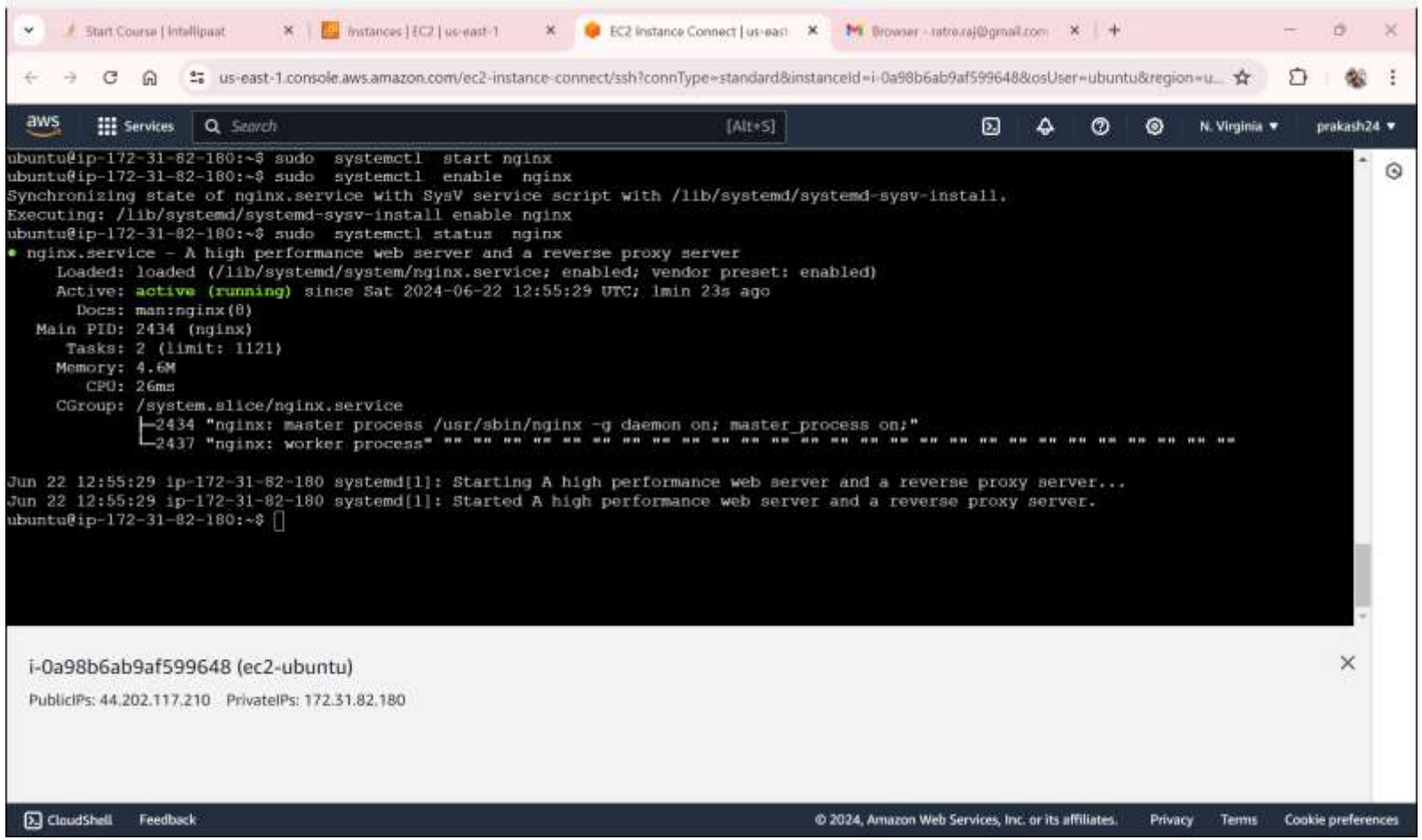


ec2 instance is in running status

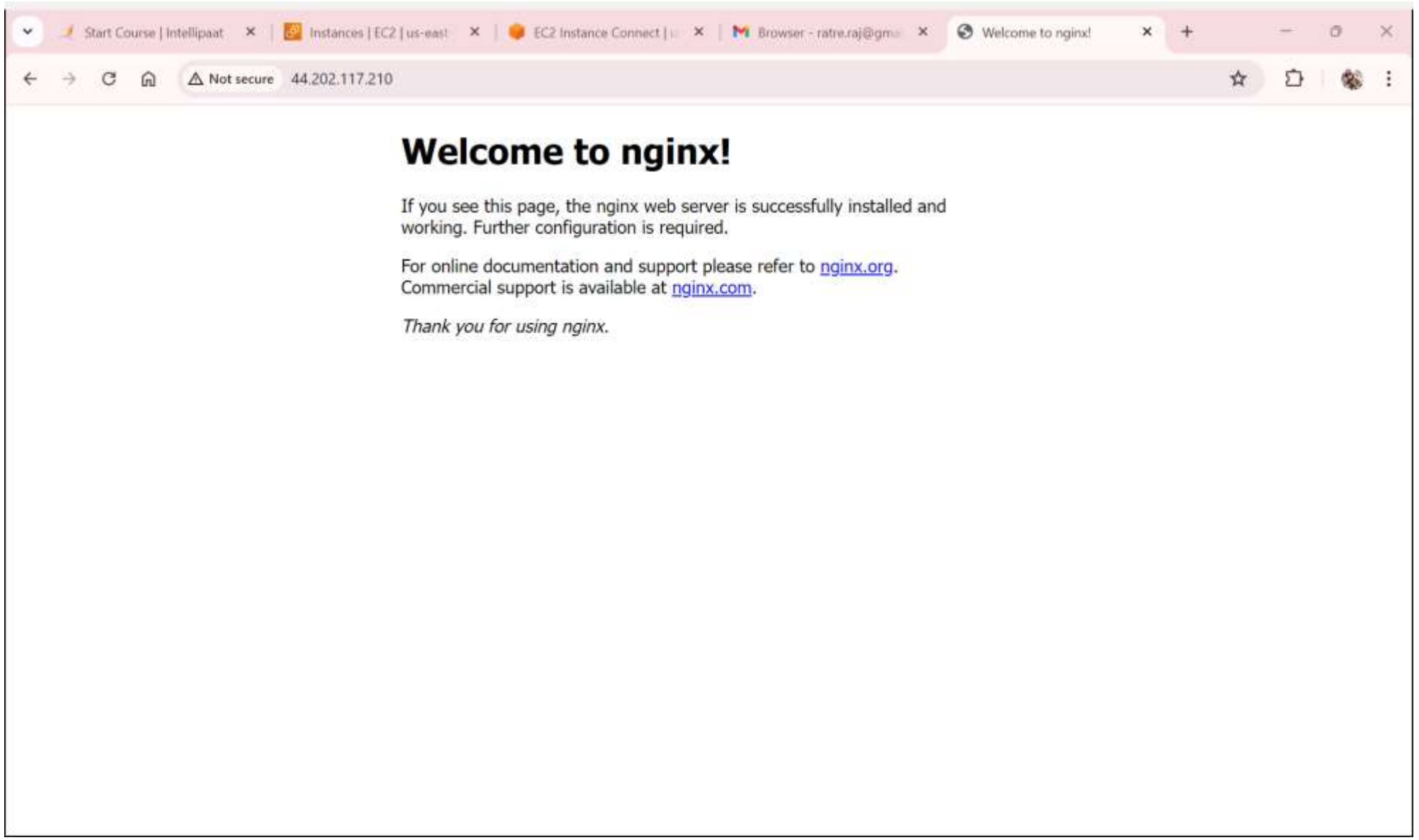


Nginx server is install in ubuntu

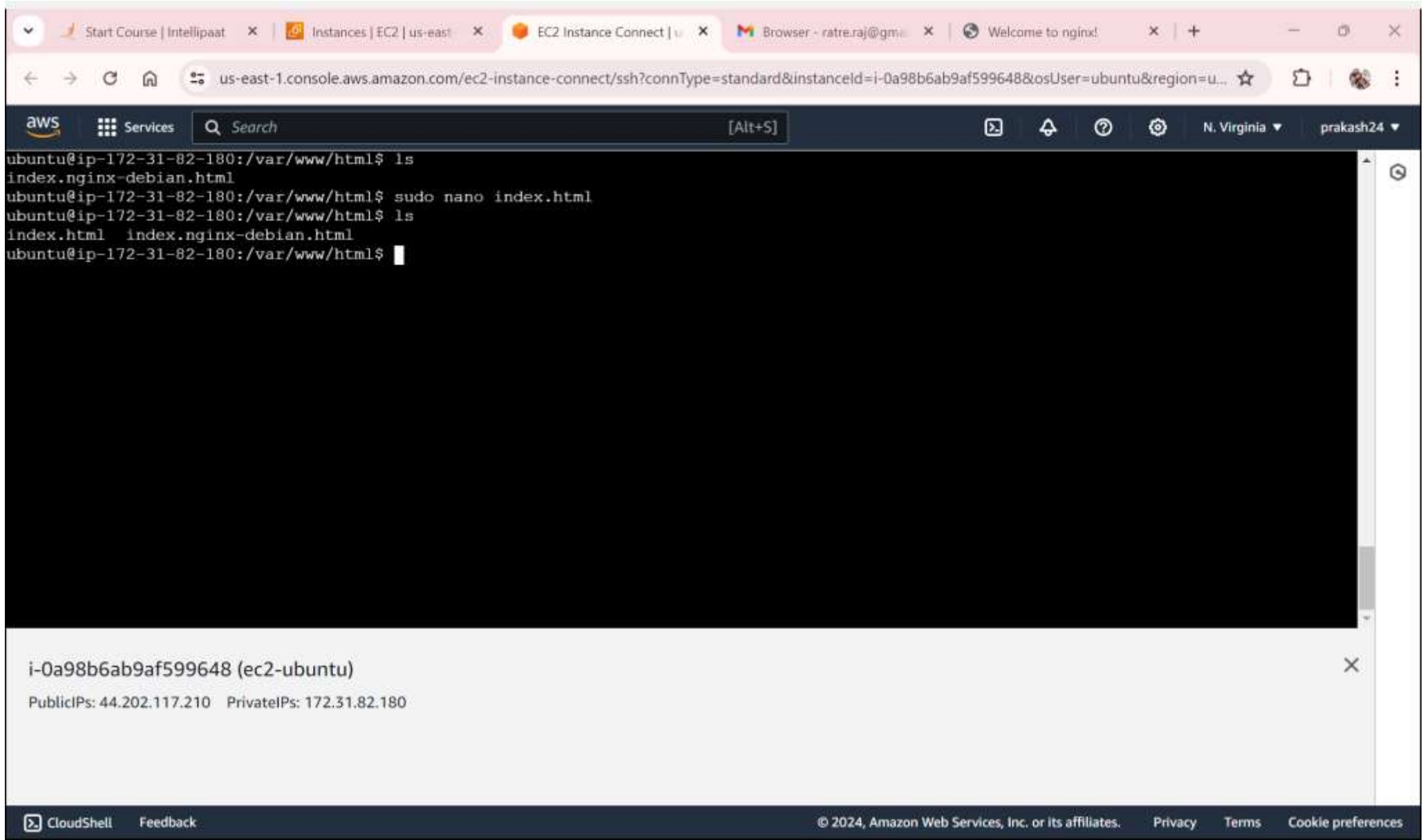
sudo apt update
sudo apt install nginx
sudo systemctl start nginx
sudo systemctl enable nginx



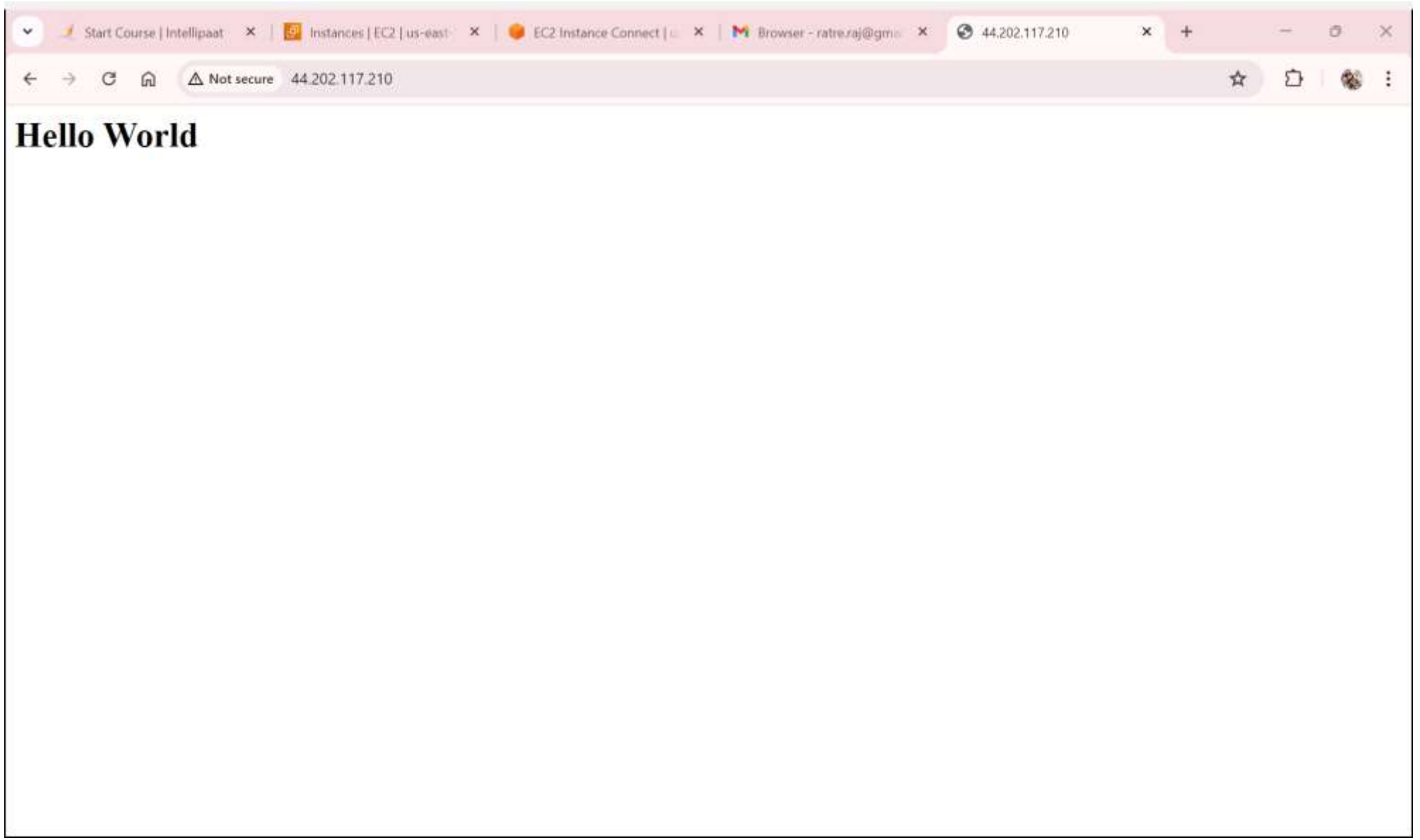
Test page of nginx server



Added a index.html page



page displaying the message: “Hello World”

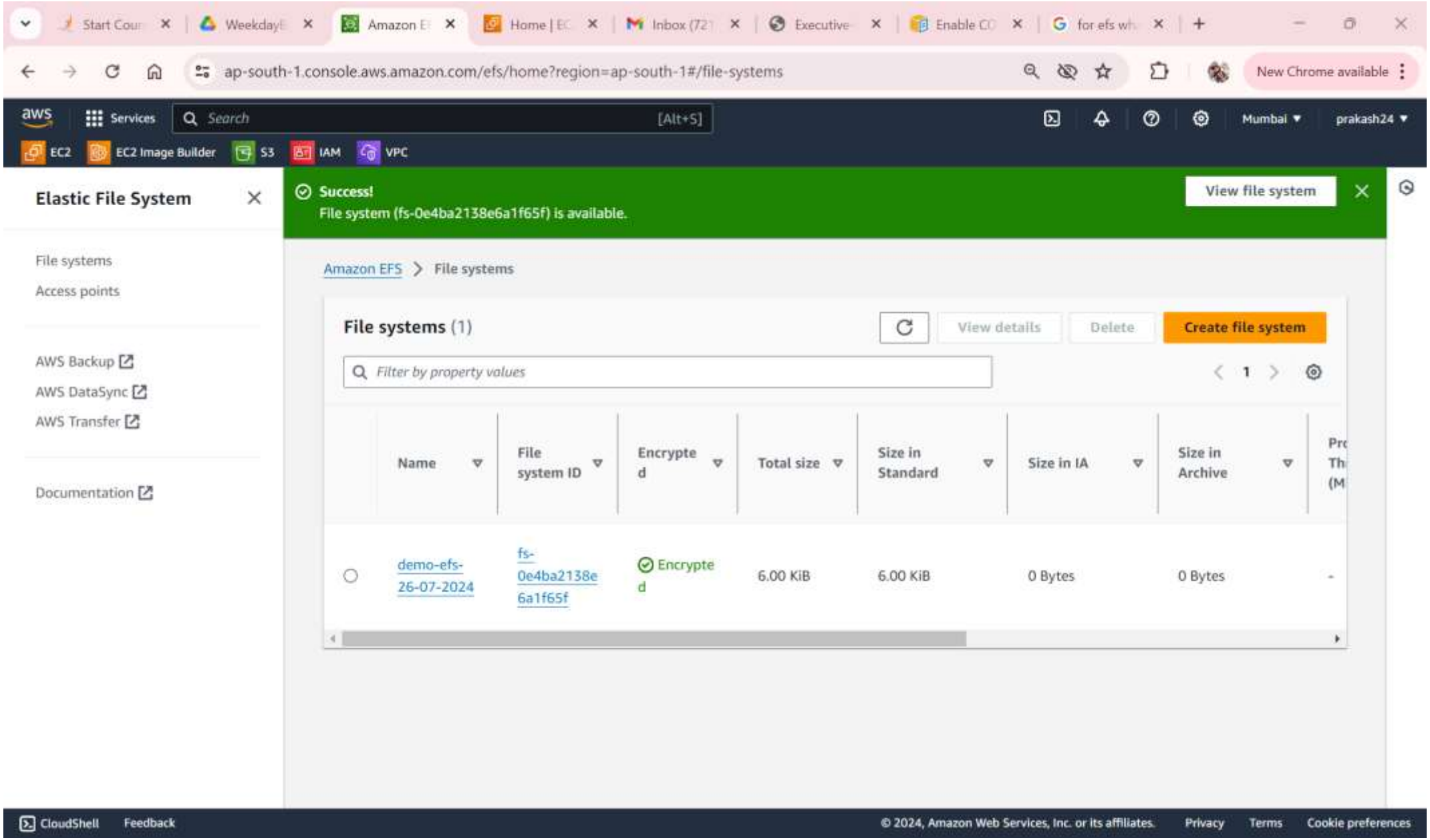


Module 2: EC2 and EFS Assignment

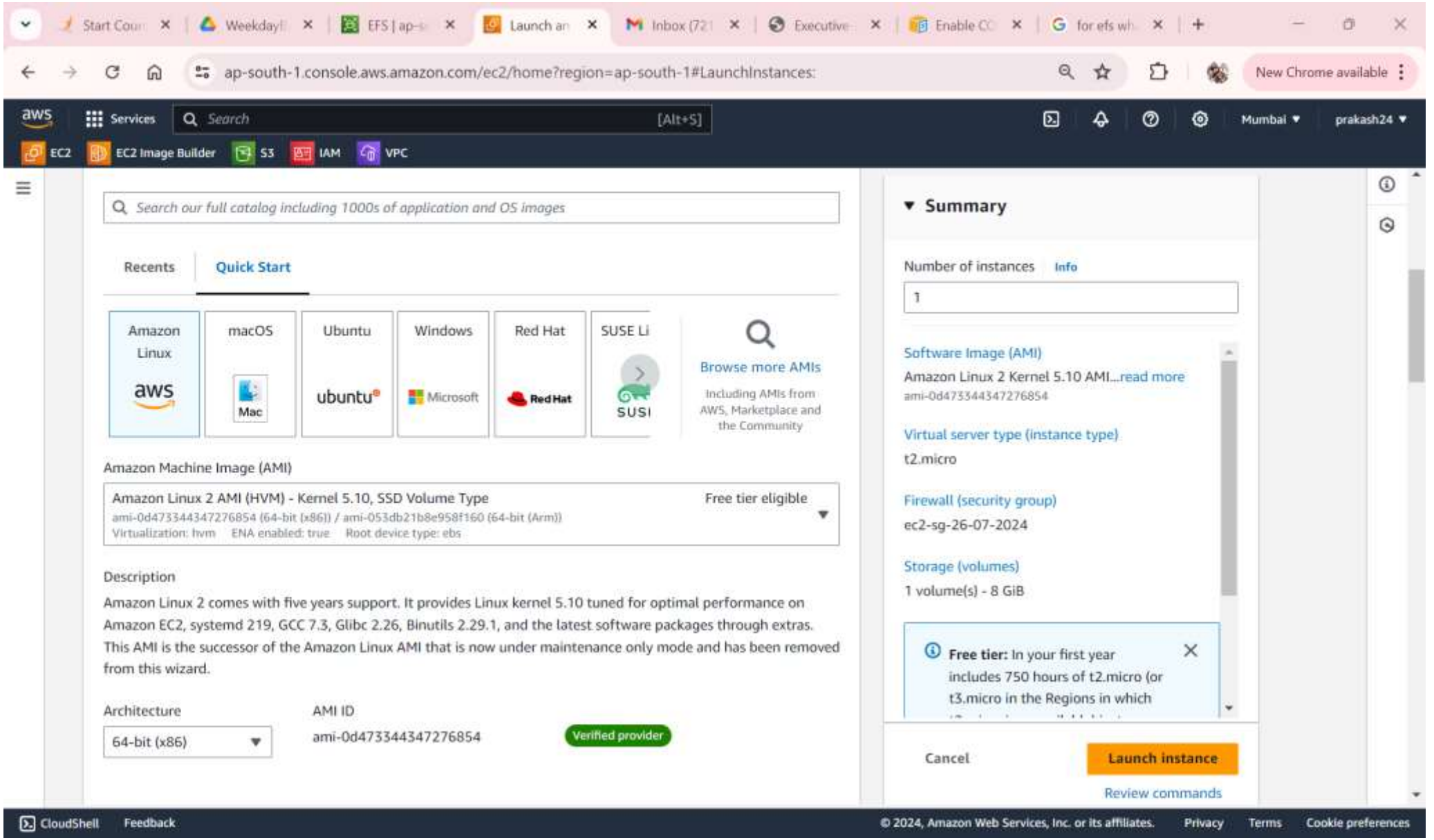
Tasks To Be Performed:

1. Create an EFS and connect it to 3 different EC2 instances. Make sure that all instances have different operating systems. For instance, Ubuntu, Red Hat Linux and Amazon Linux 2.

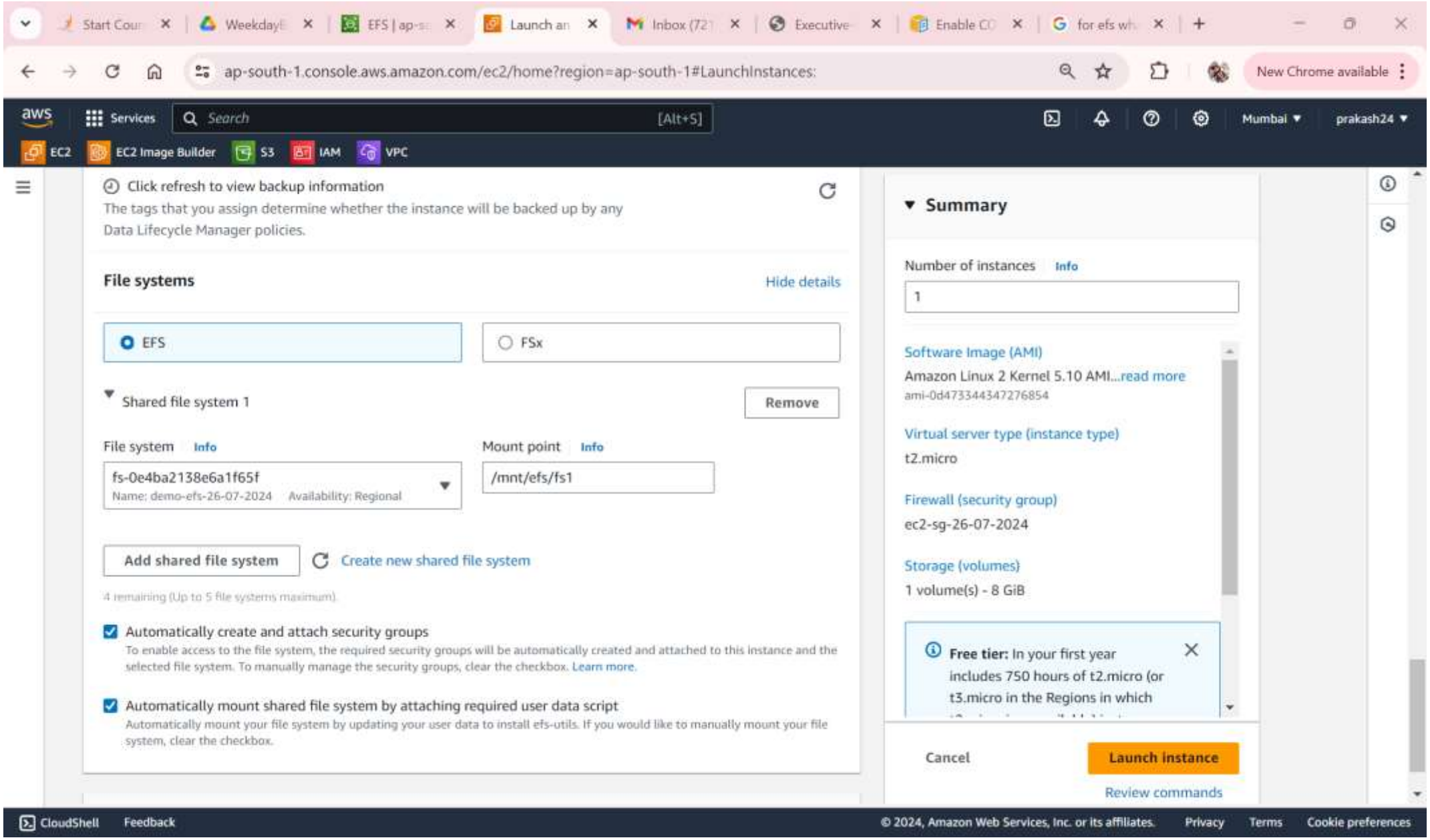
EFS Created in default VPC



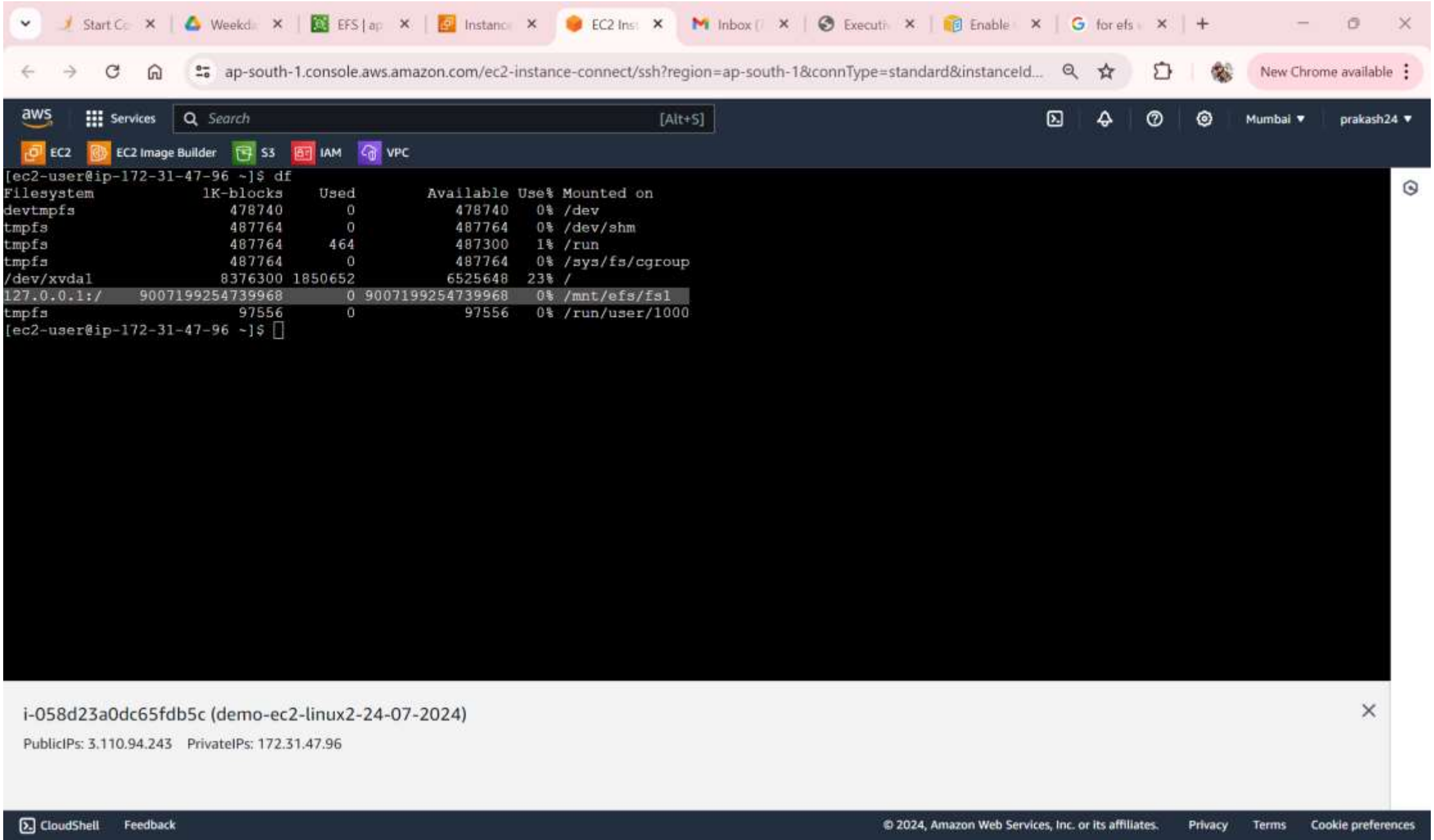
Select AMI for EC2



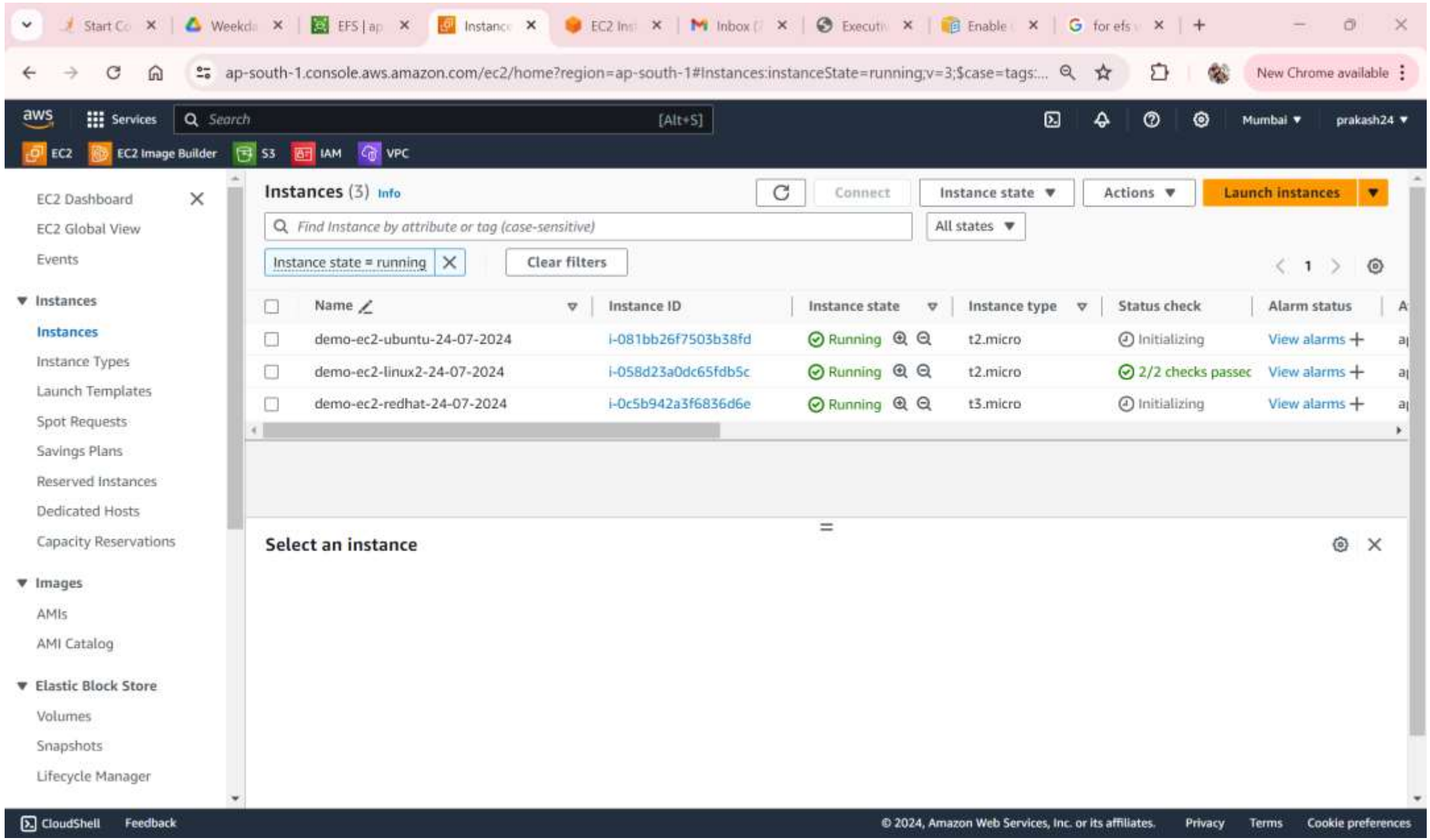
Attaching EFS to ec2 while creating



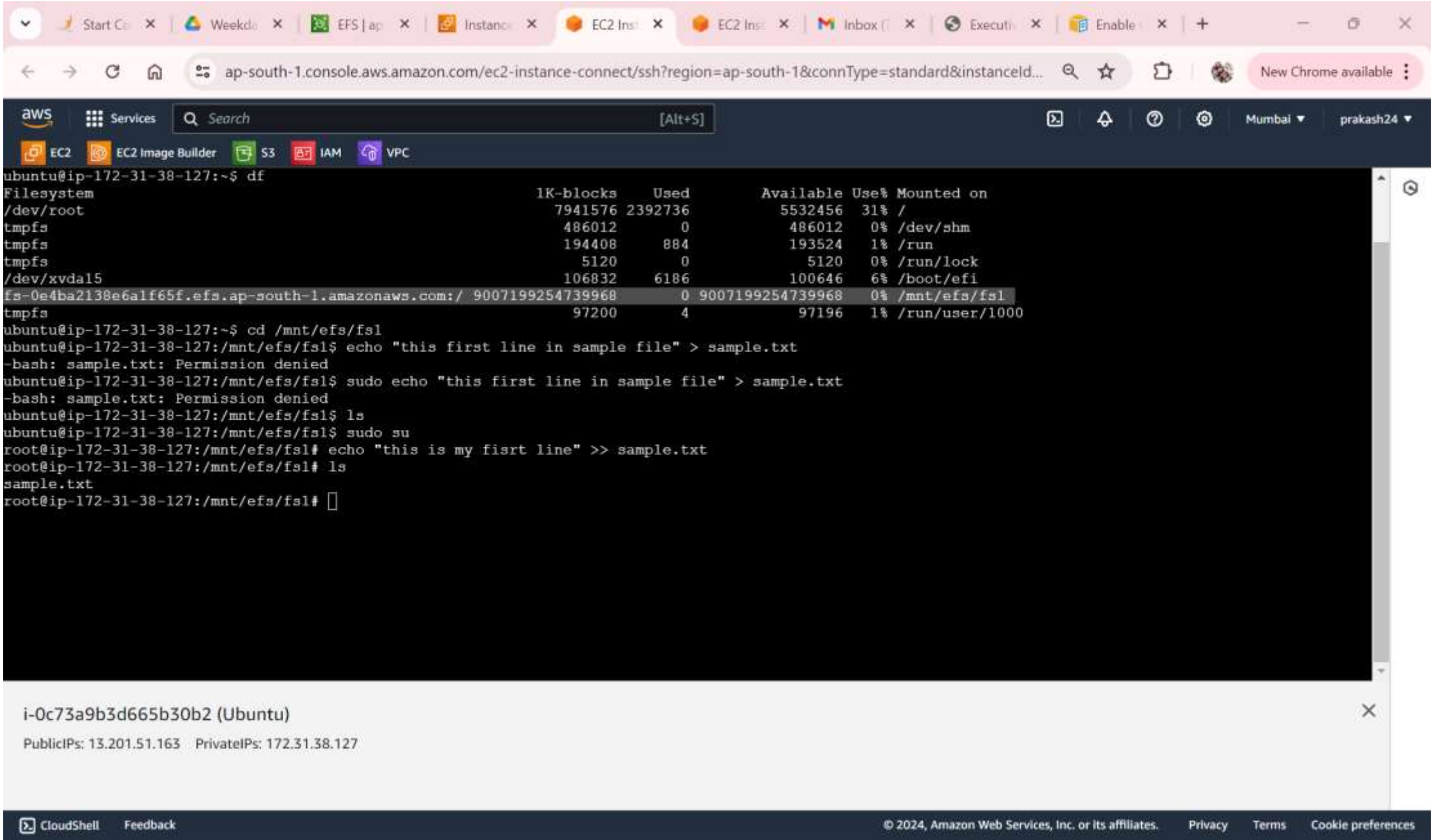
EFS is mounted in ec2 linux2



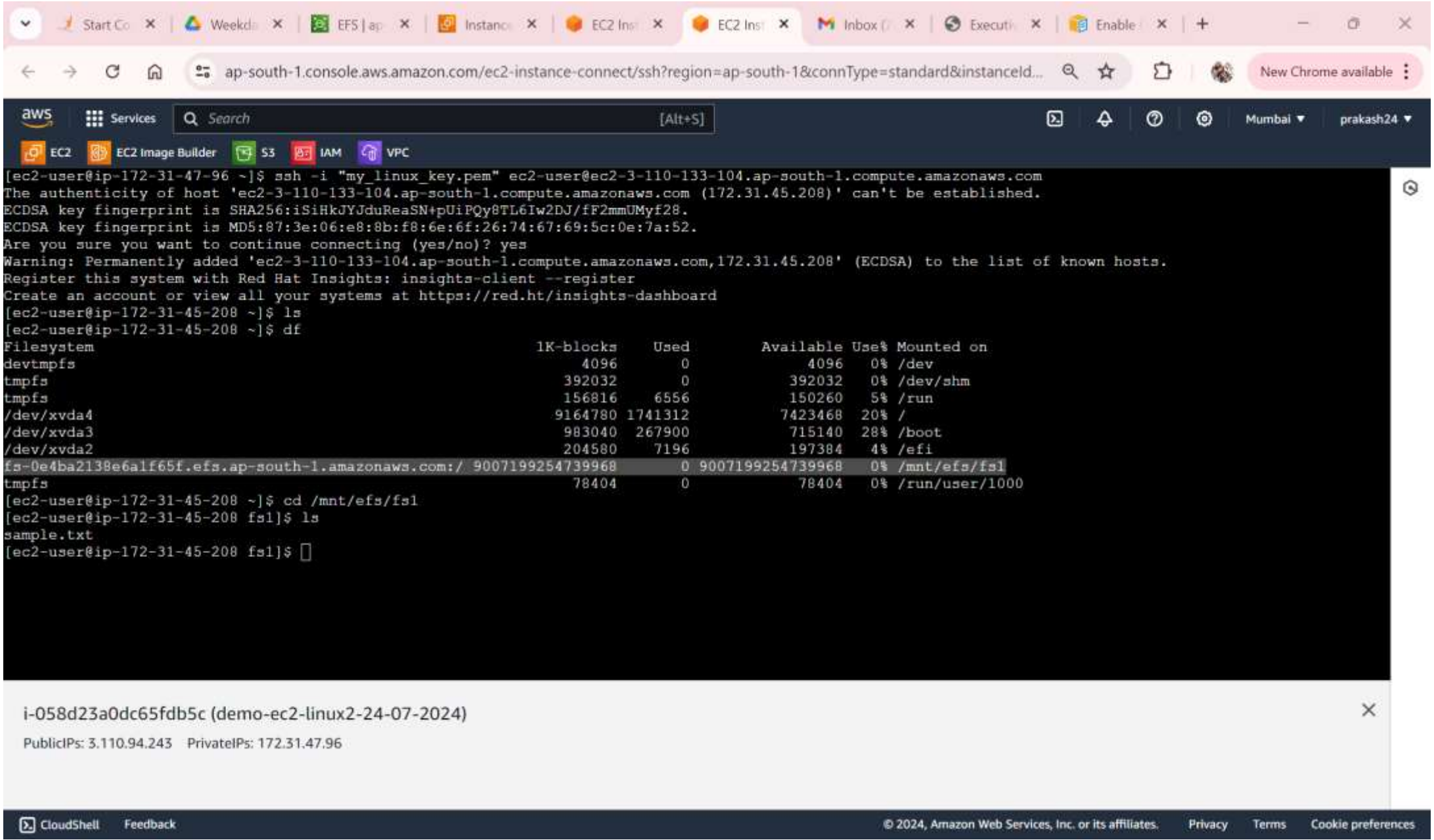
3 different ec2 linux2,Redhat, Ubuntu



This is Ubuntu ec2 we can see EFS mounted



Connected RedHat machine via Linux 2 able to see EFS mount



Module 2: Case Study - 1

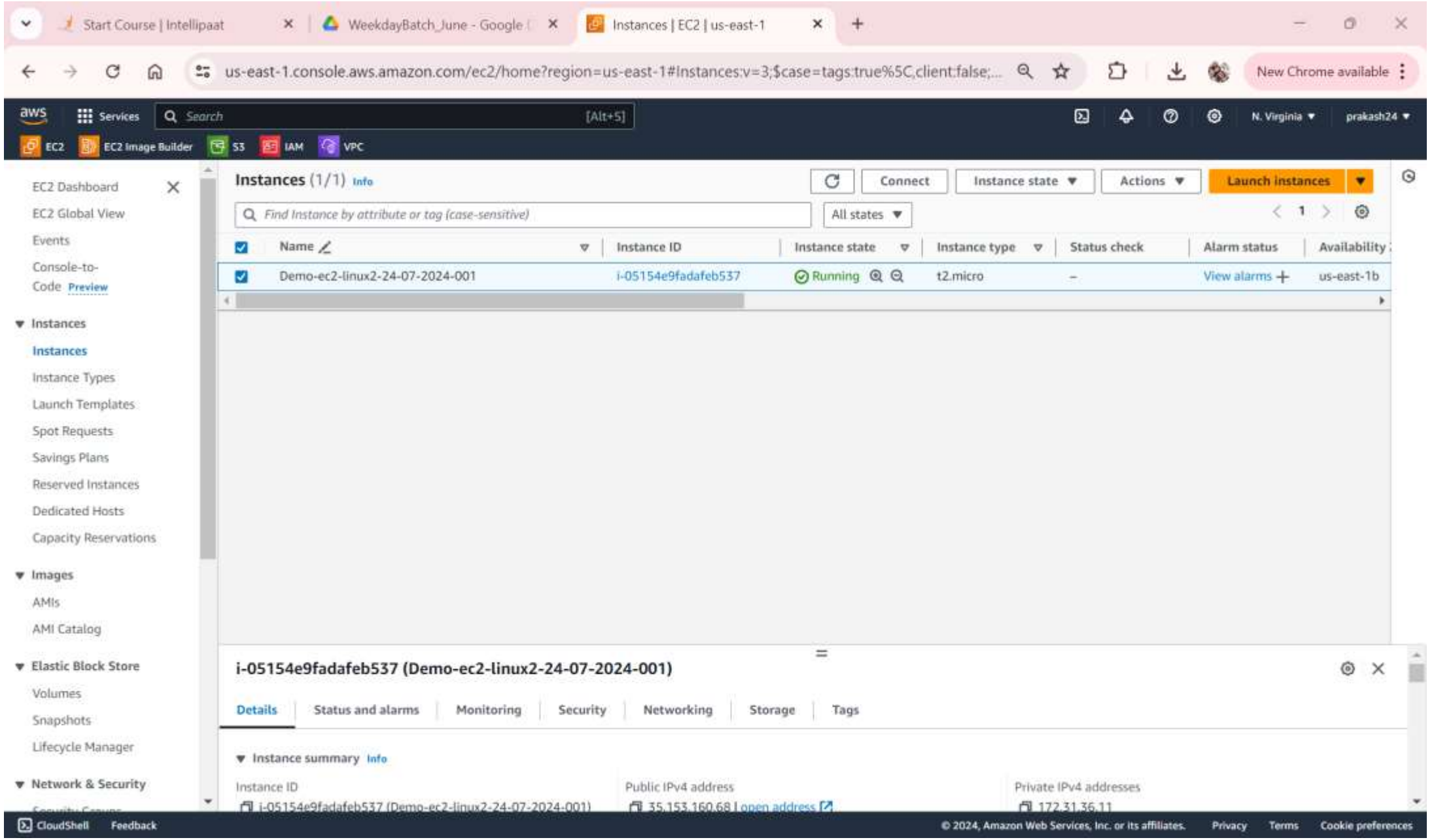
Problem Statement:

You work for XYZ Corporation. Your corporation is working on an application and they require secured web servers on Linux to launch the application.

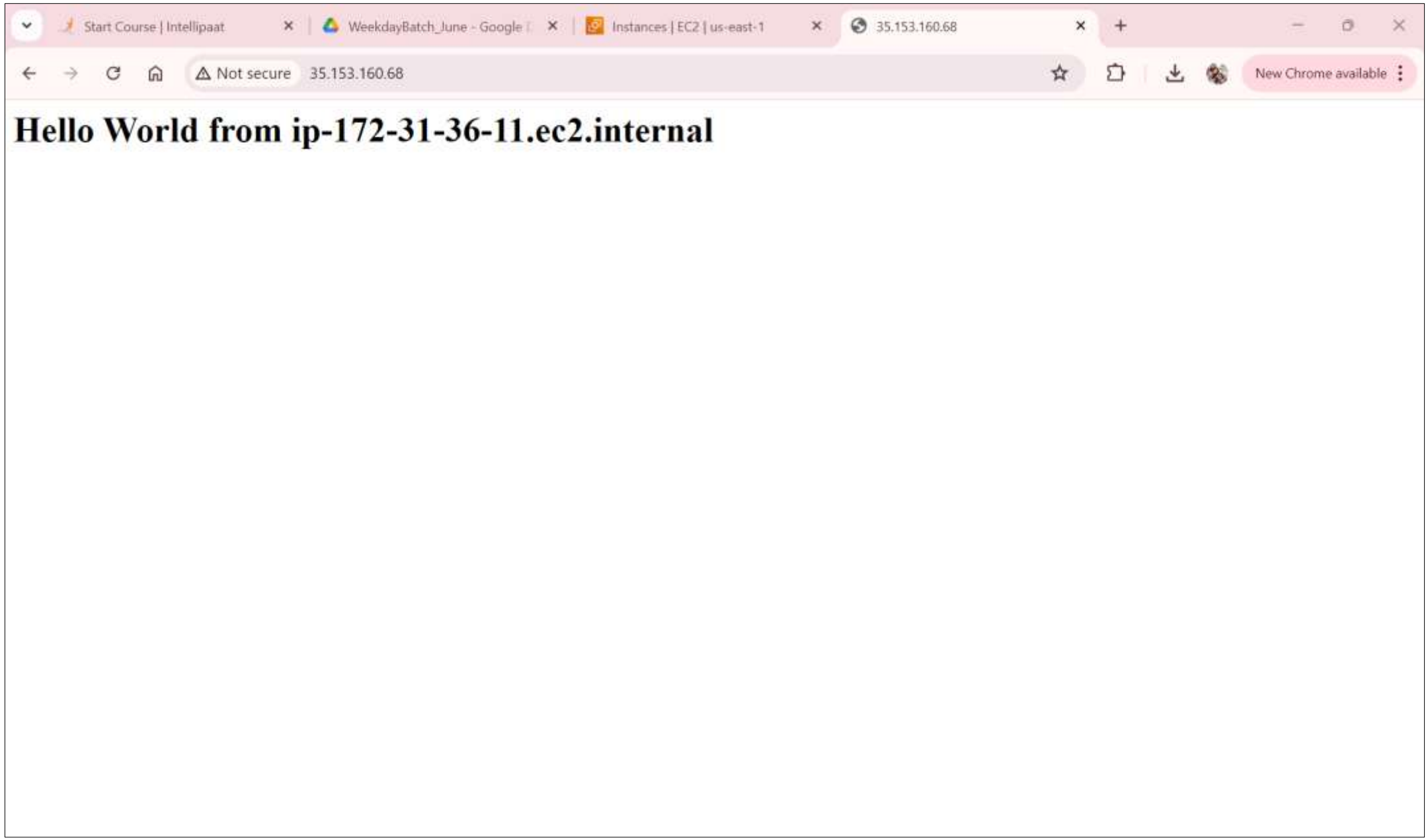
Tasks To Be Performed:

1. Create an instance in the US-East-1 (N. Virginia) region with Linux OS and manage the requirement of web servers of your company using AMI.
2. Replicate the instance in the US-West-2 (Oregon) region.
3. Build two EBS volumes and attach them to the instance in the US-East-1 (N. Virginia) region.
4. Delete one volume after detaching it and extend the size of the other volume.
5. Take backup of this EBS volume.

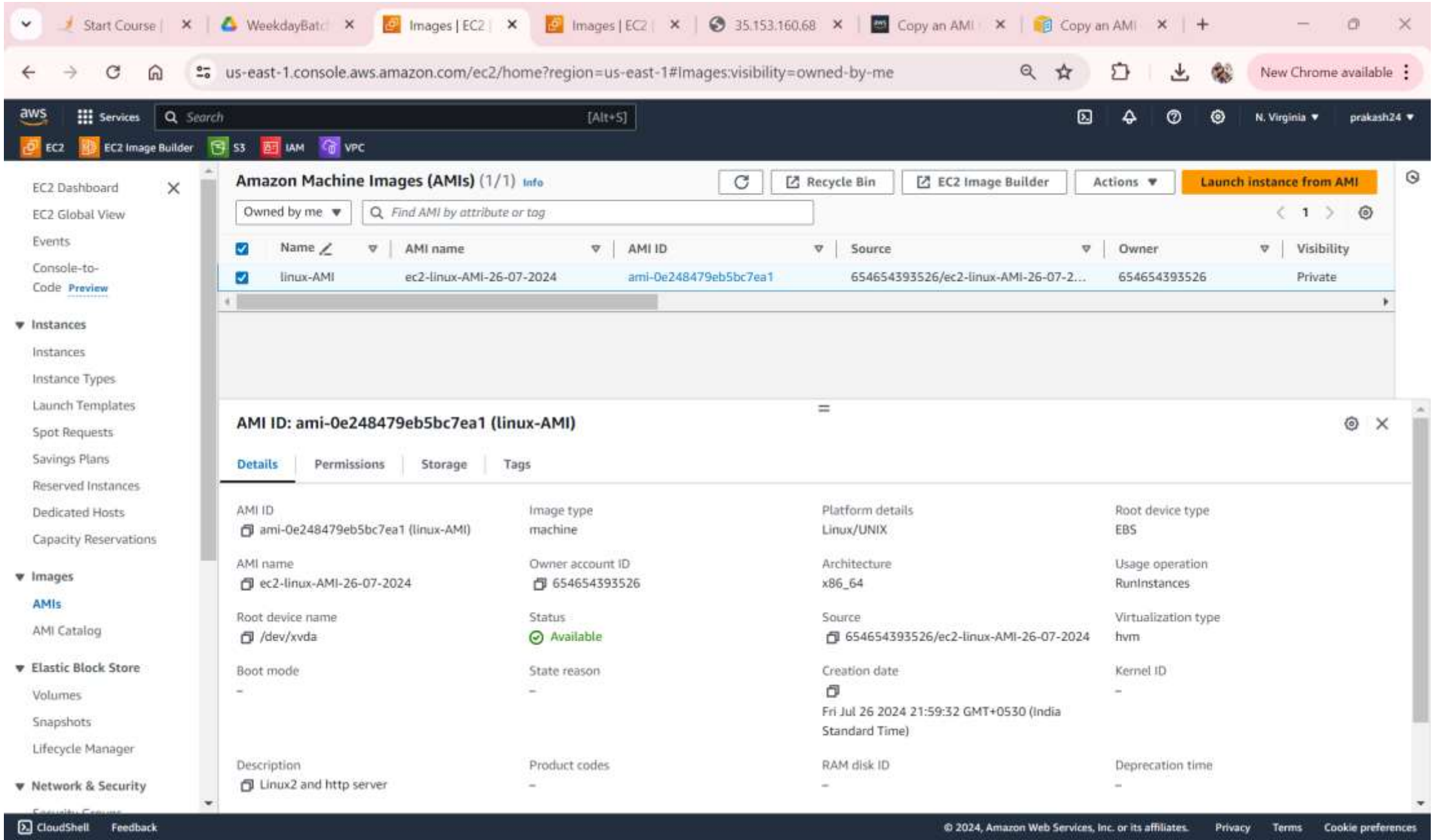
Instance Created in US-East-1



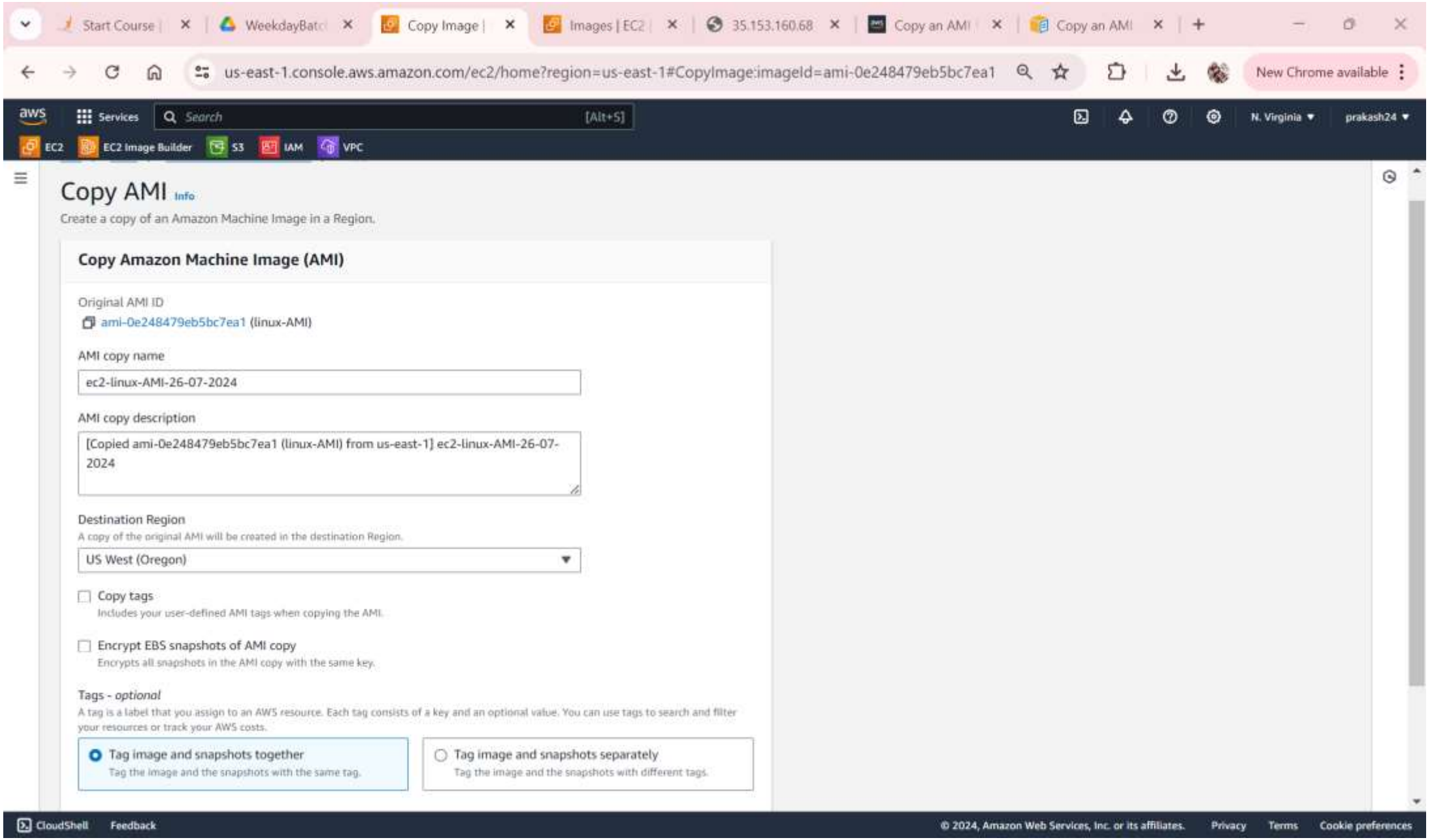
In Instance we have installed apace server to create AMI



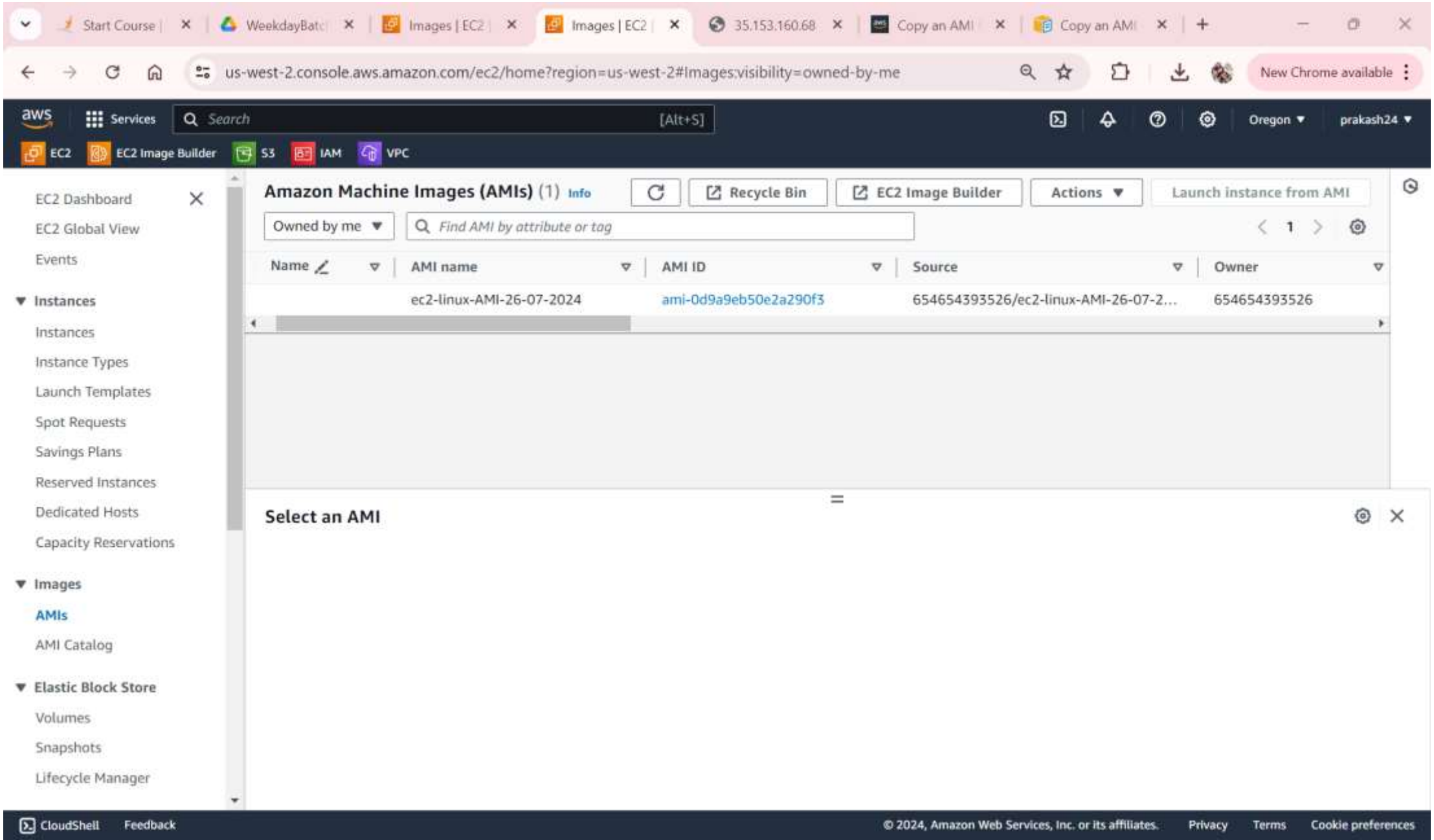
AMI Created from instance



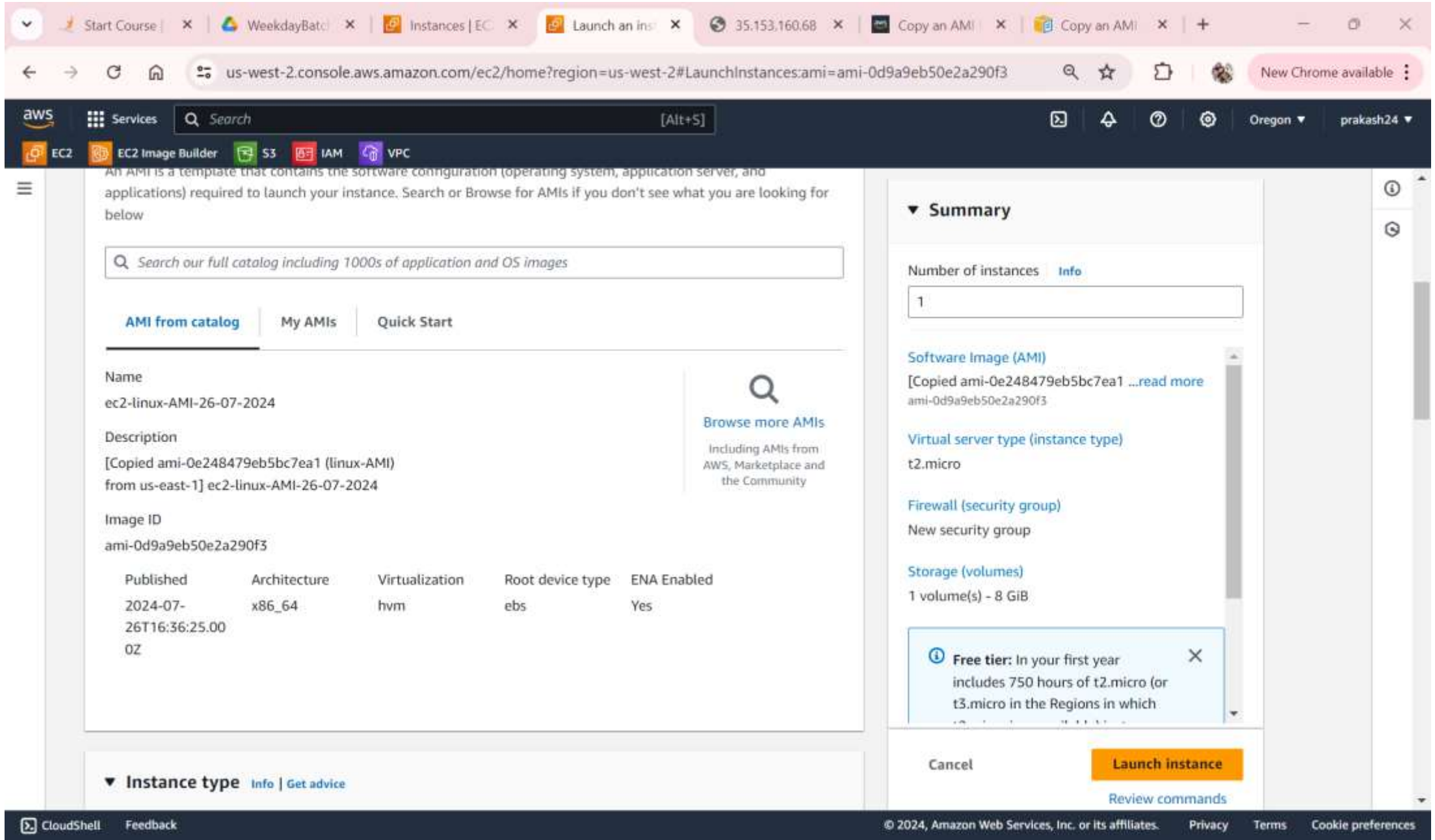
Copy AMI to US-East-1 to US-West-2



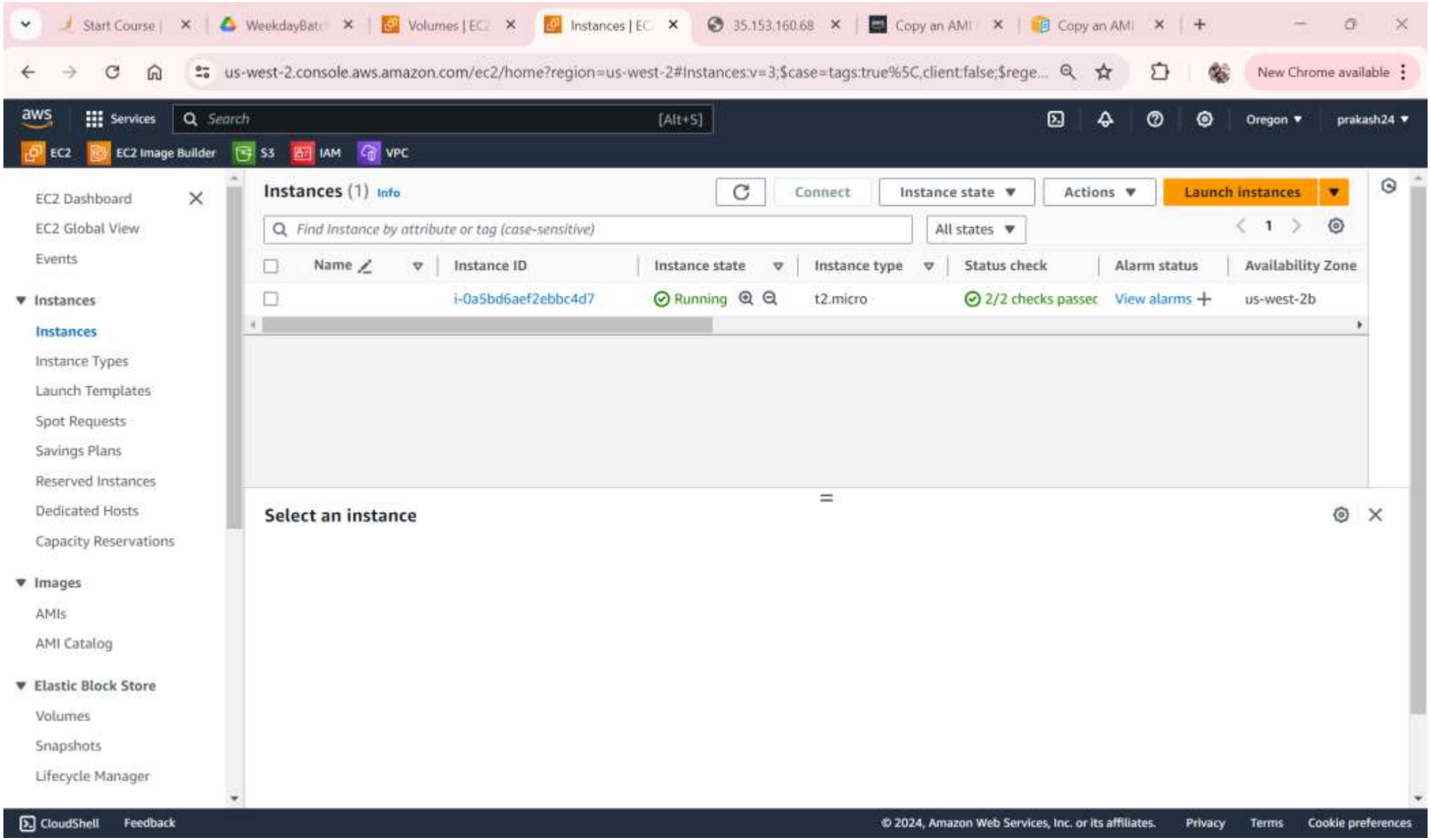
AMI is available US-West-2



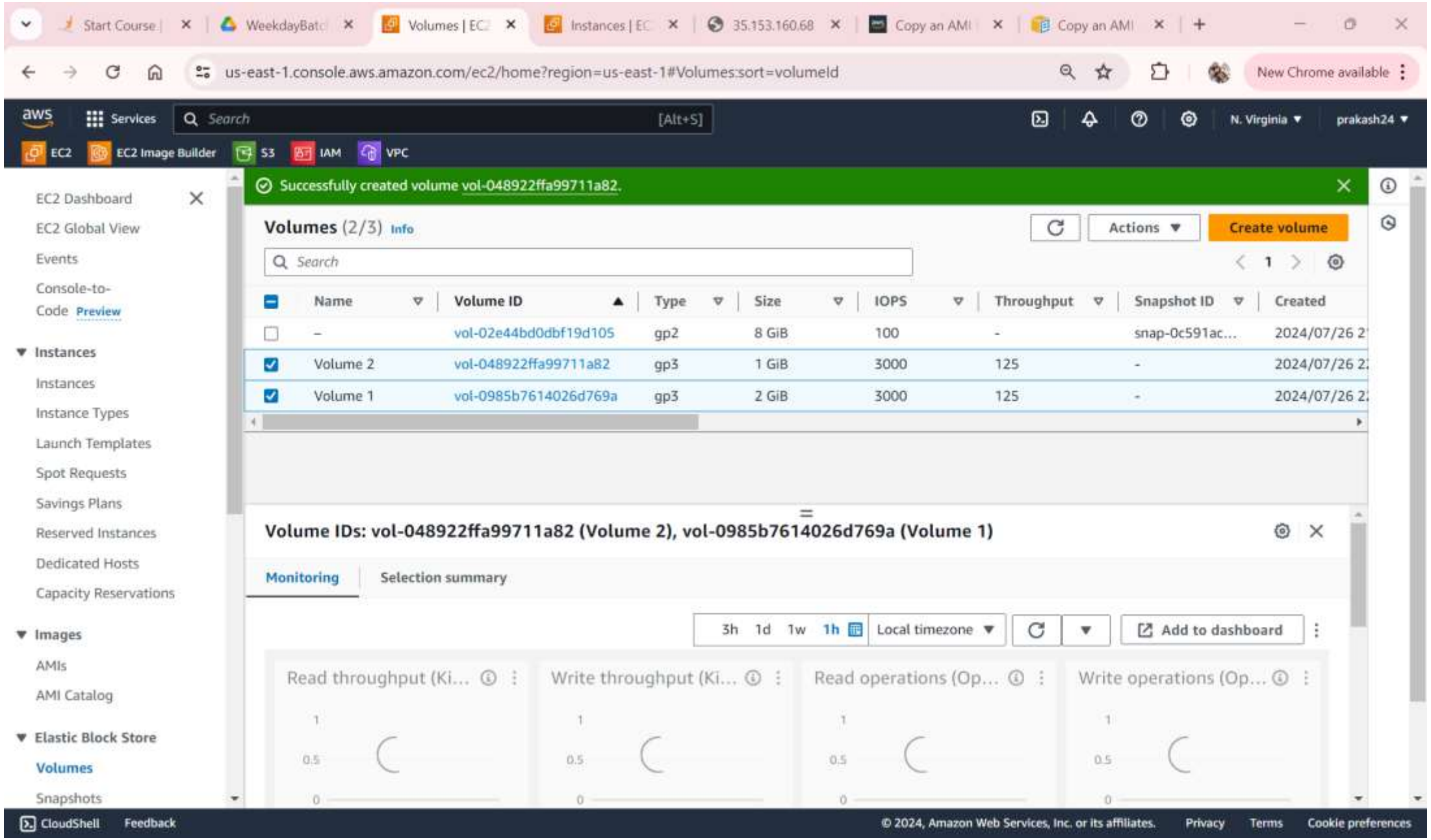
Launching Ec2 Instance using Linux AMI in US-West-2



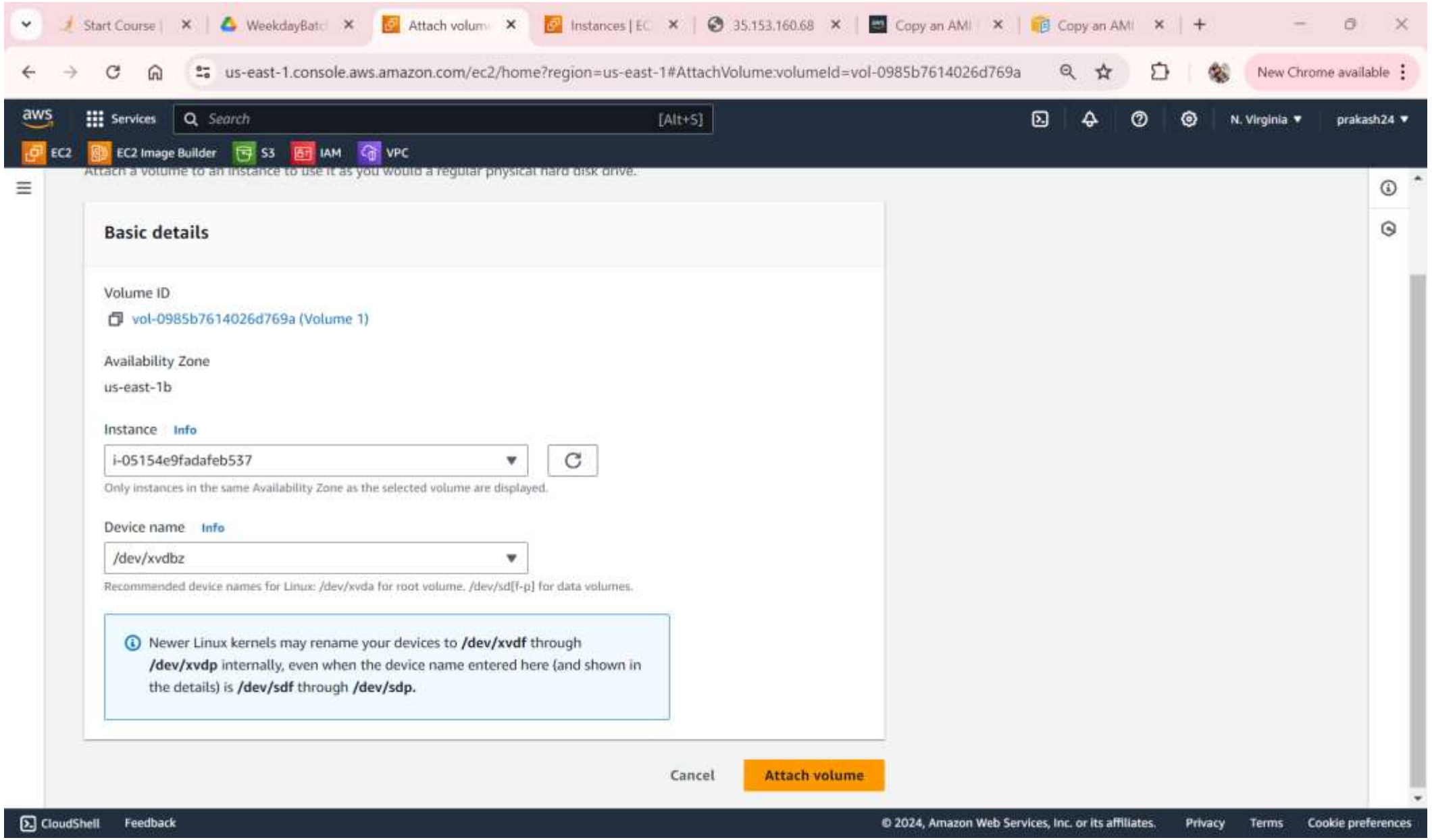
Ec2 Instance is Ready



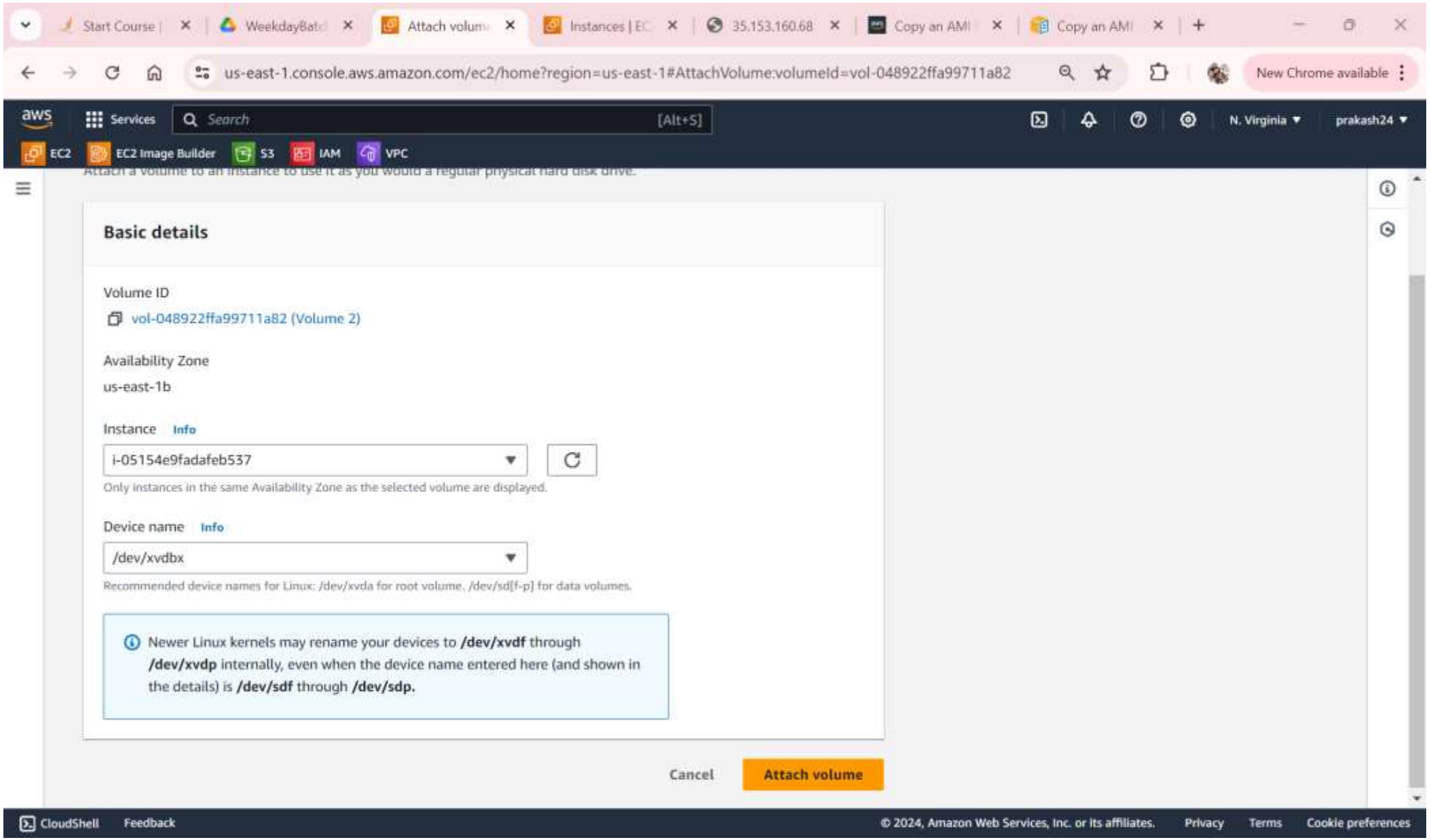
Created 2 EBS Volume



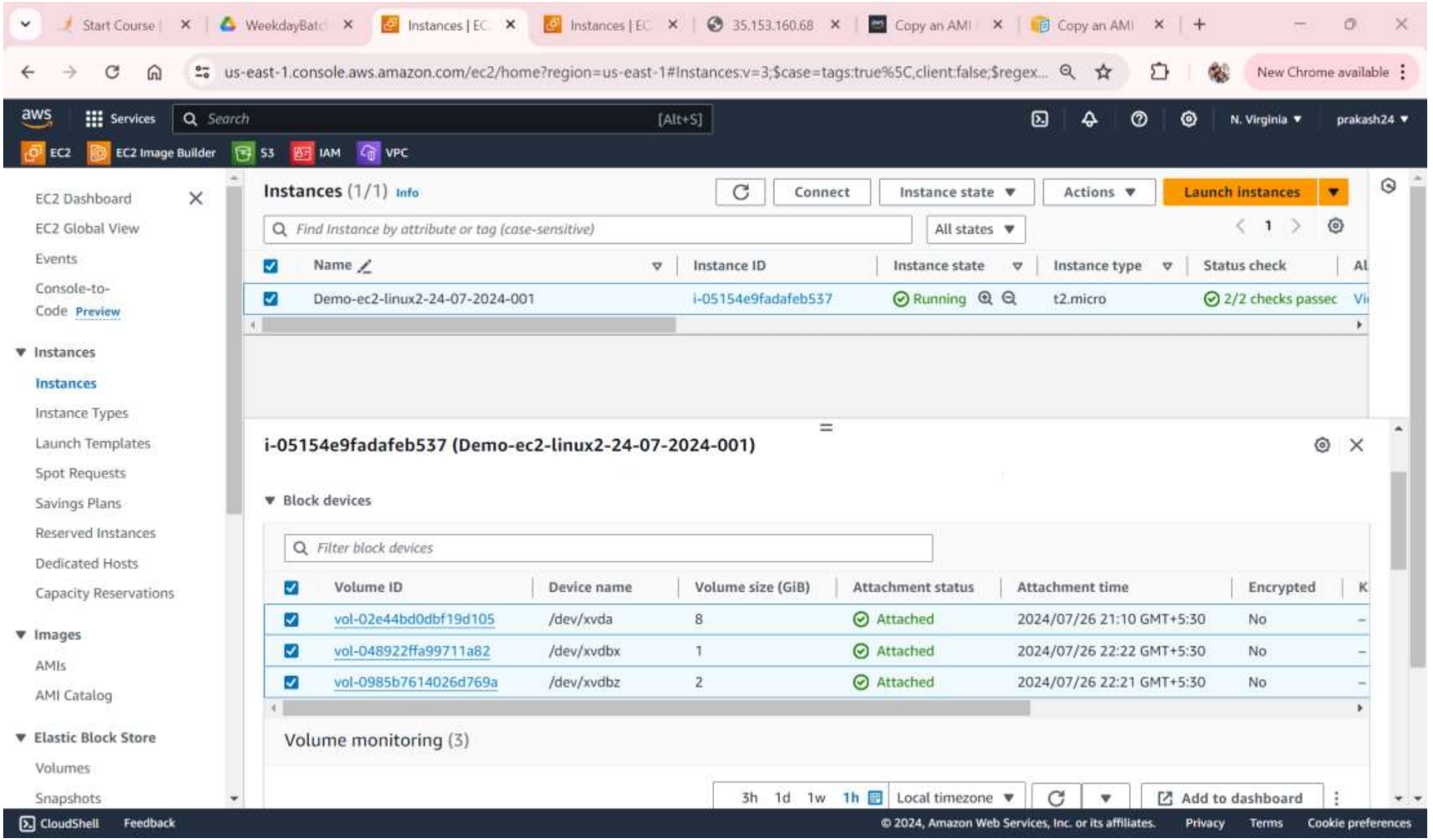
Attaching a volume 1



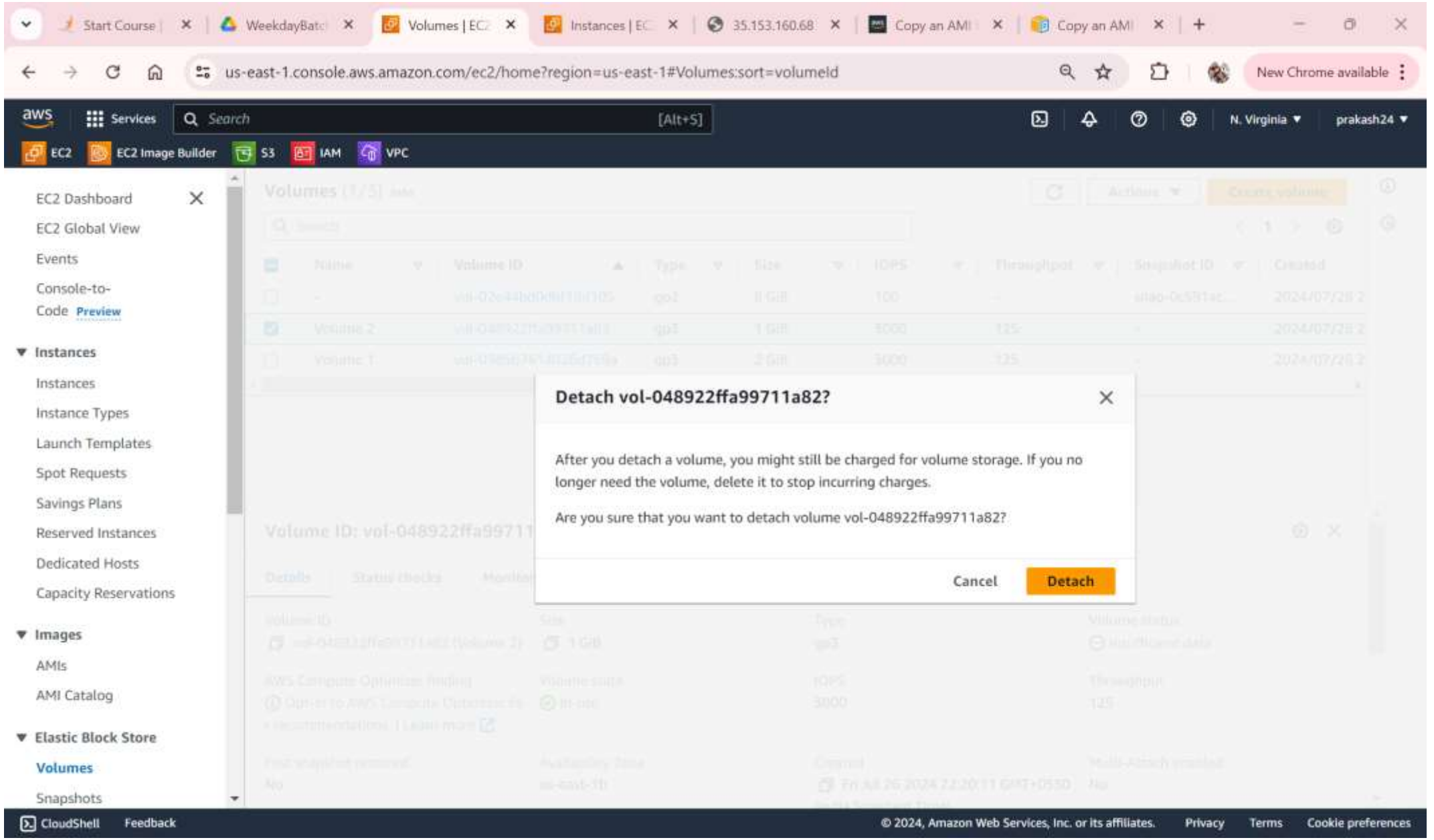
Attaching a volume 2



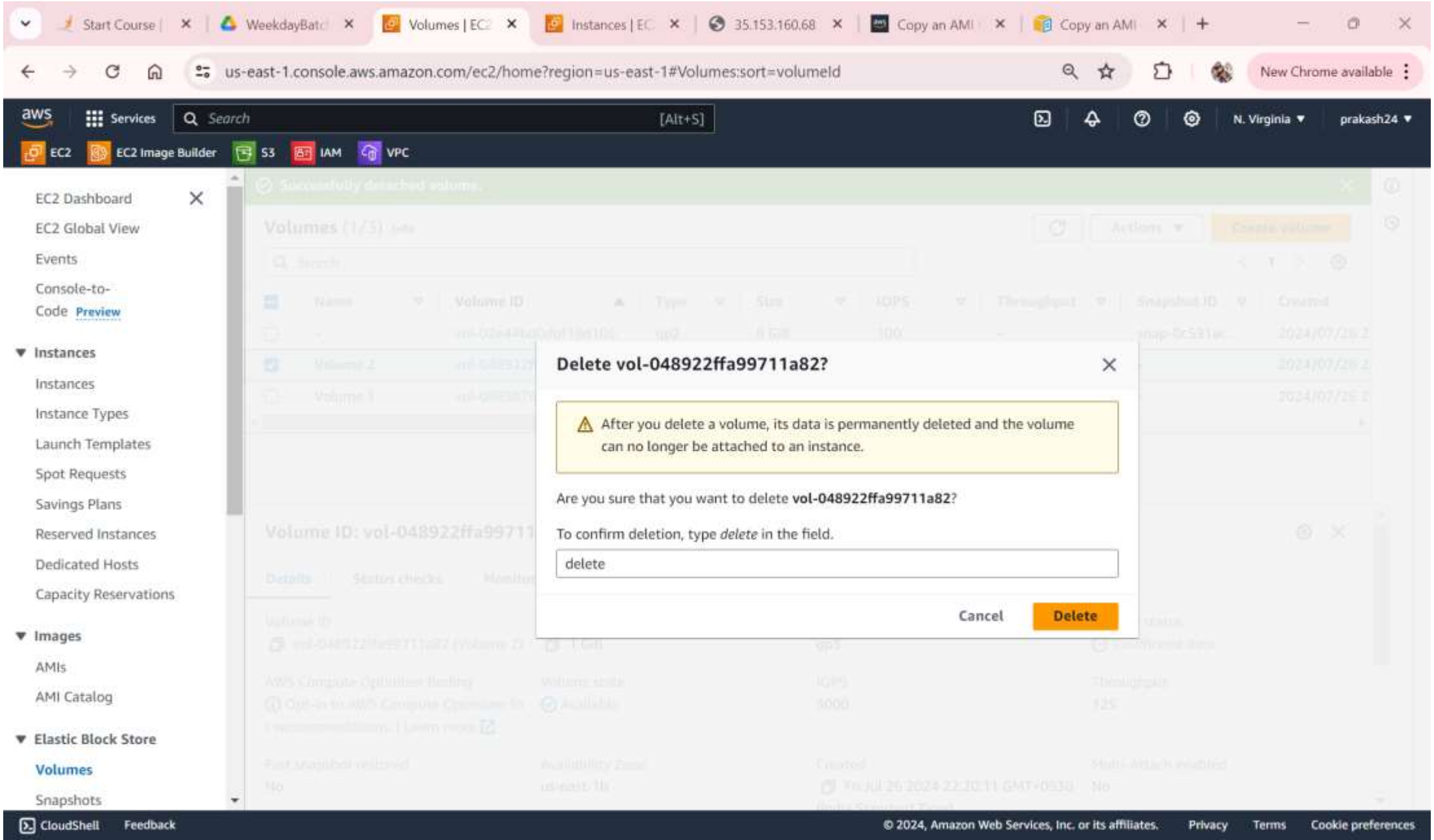
Both Volume attached in EC2 Instance



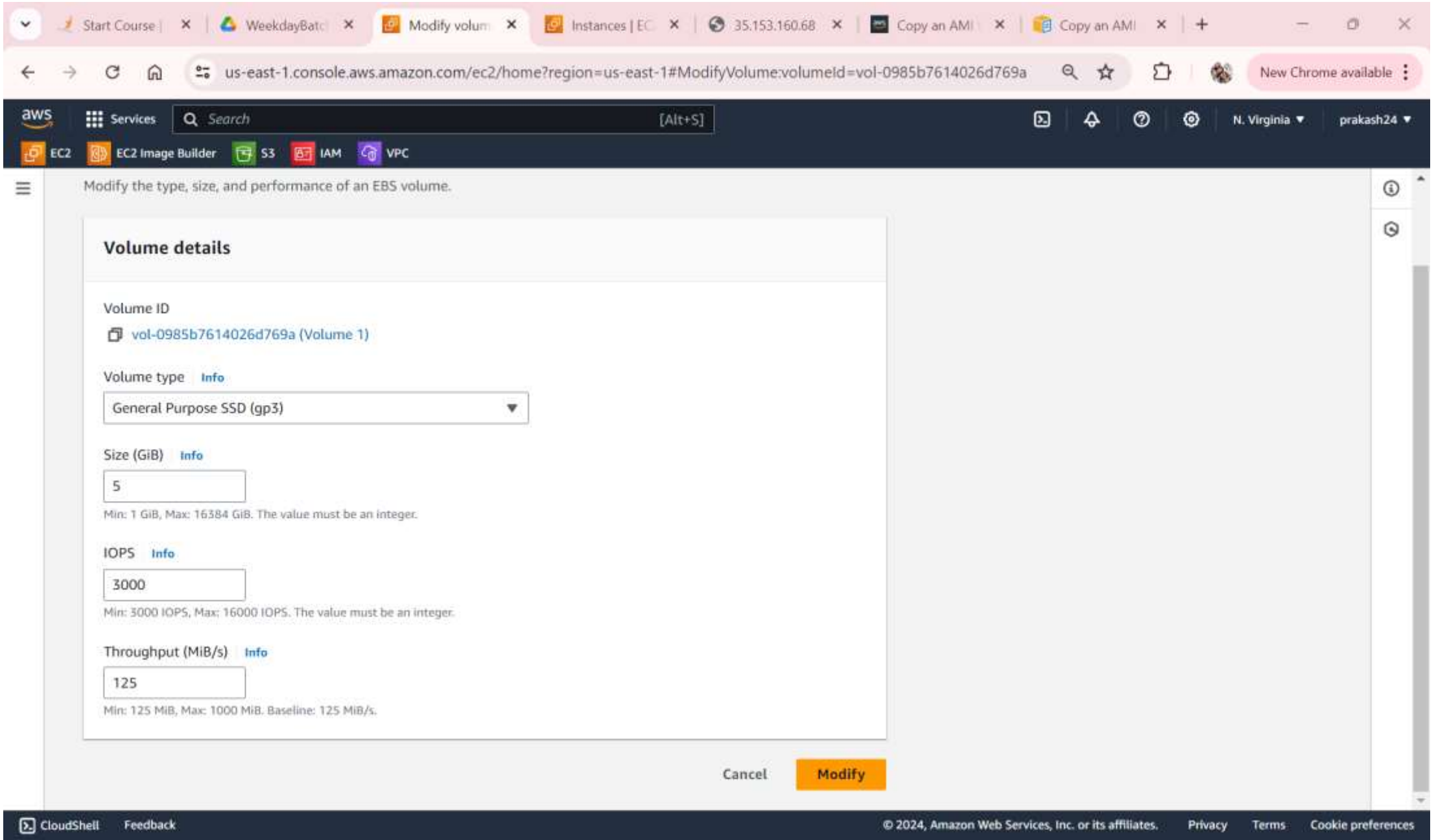
Detaching Volume1 from EC2 Instance



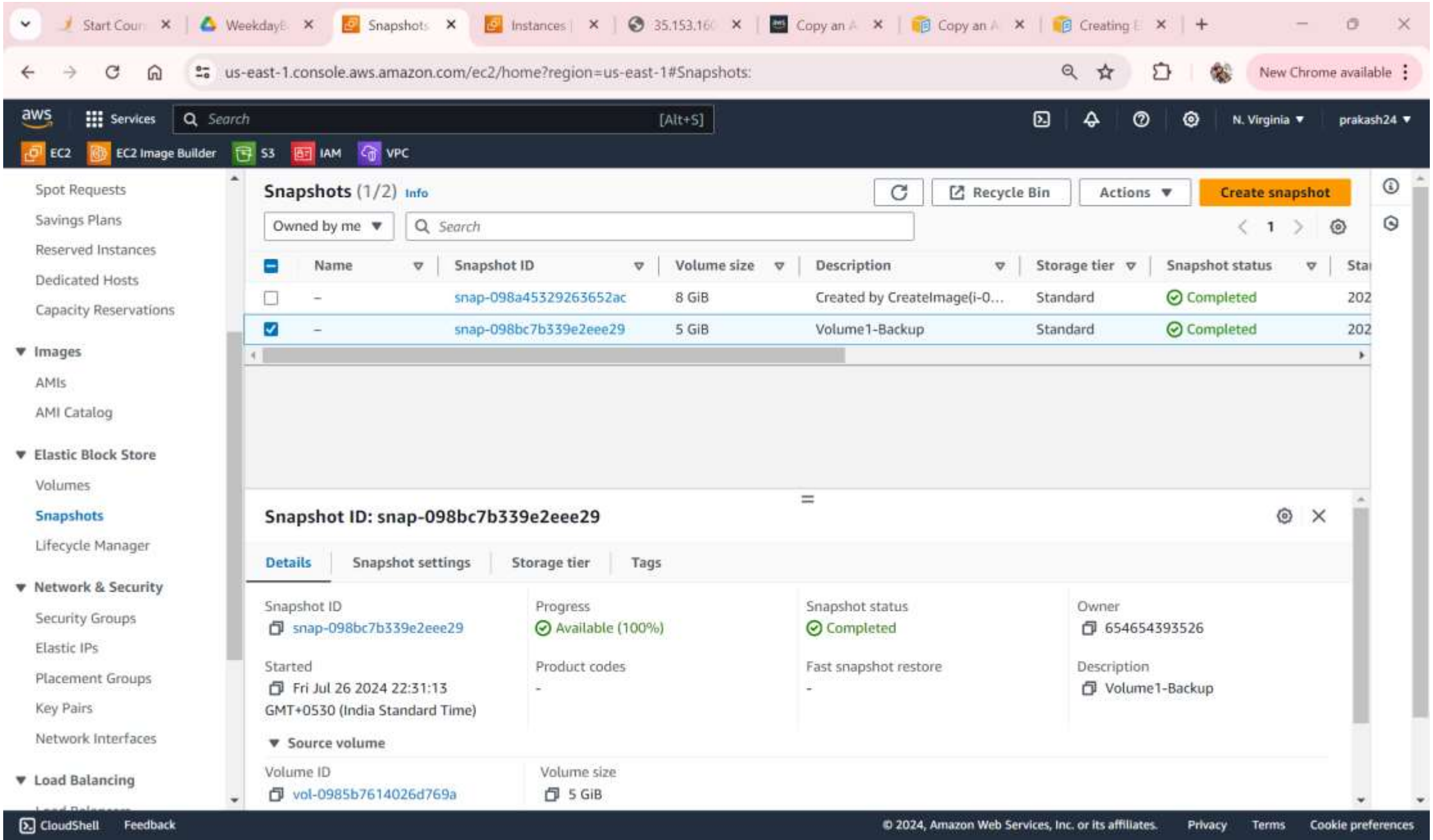
Deleting Volume1



Resizing the Volume



Created a Snapshot backup



We can also use AWS Backup