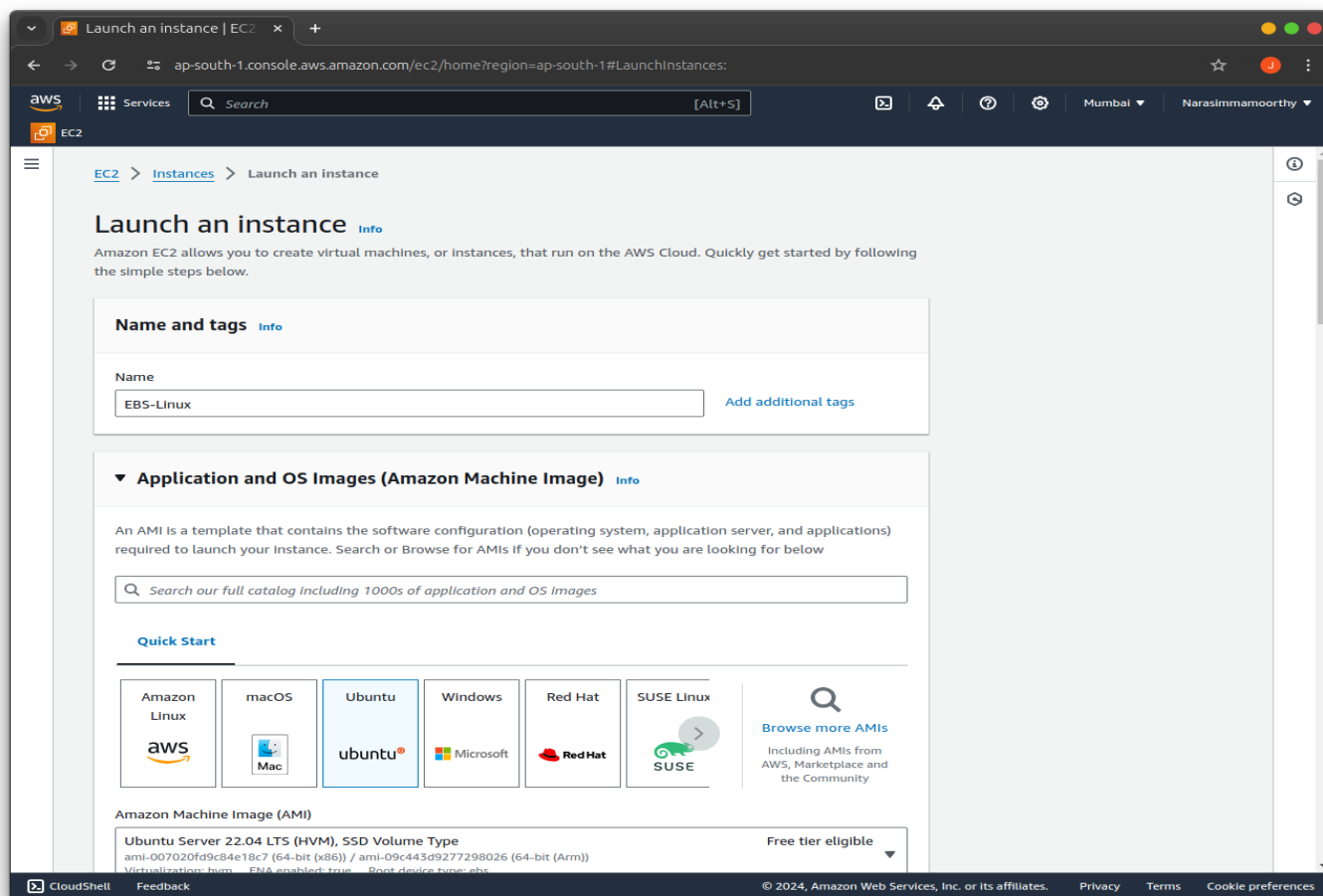
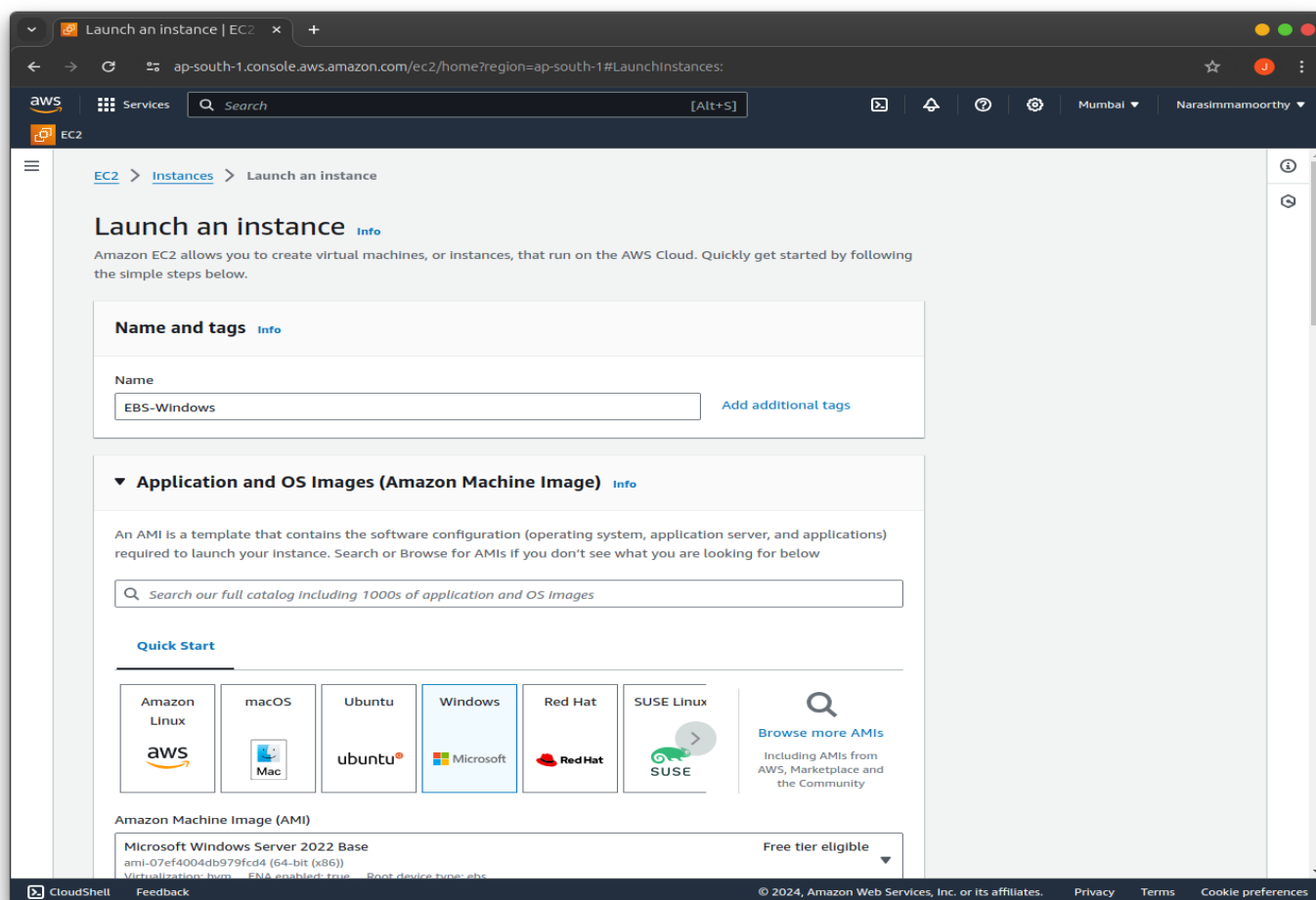


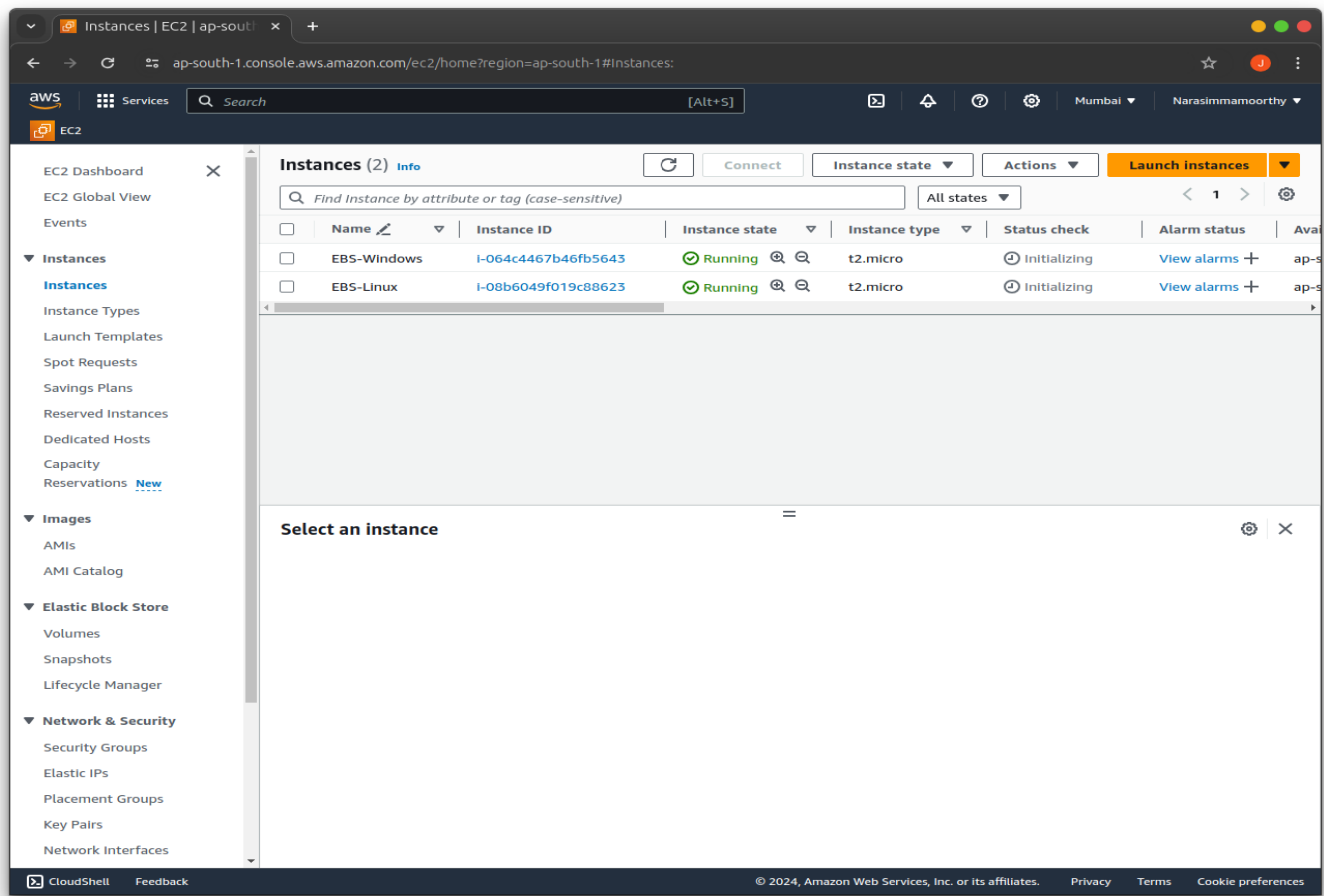
## 1-Creating Linux Machine



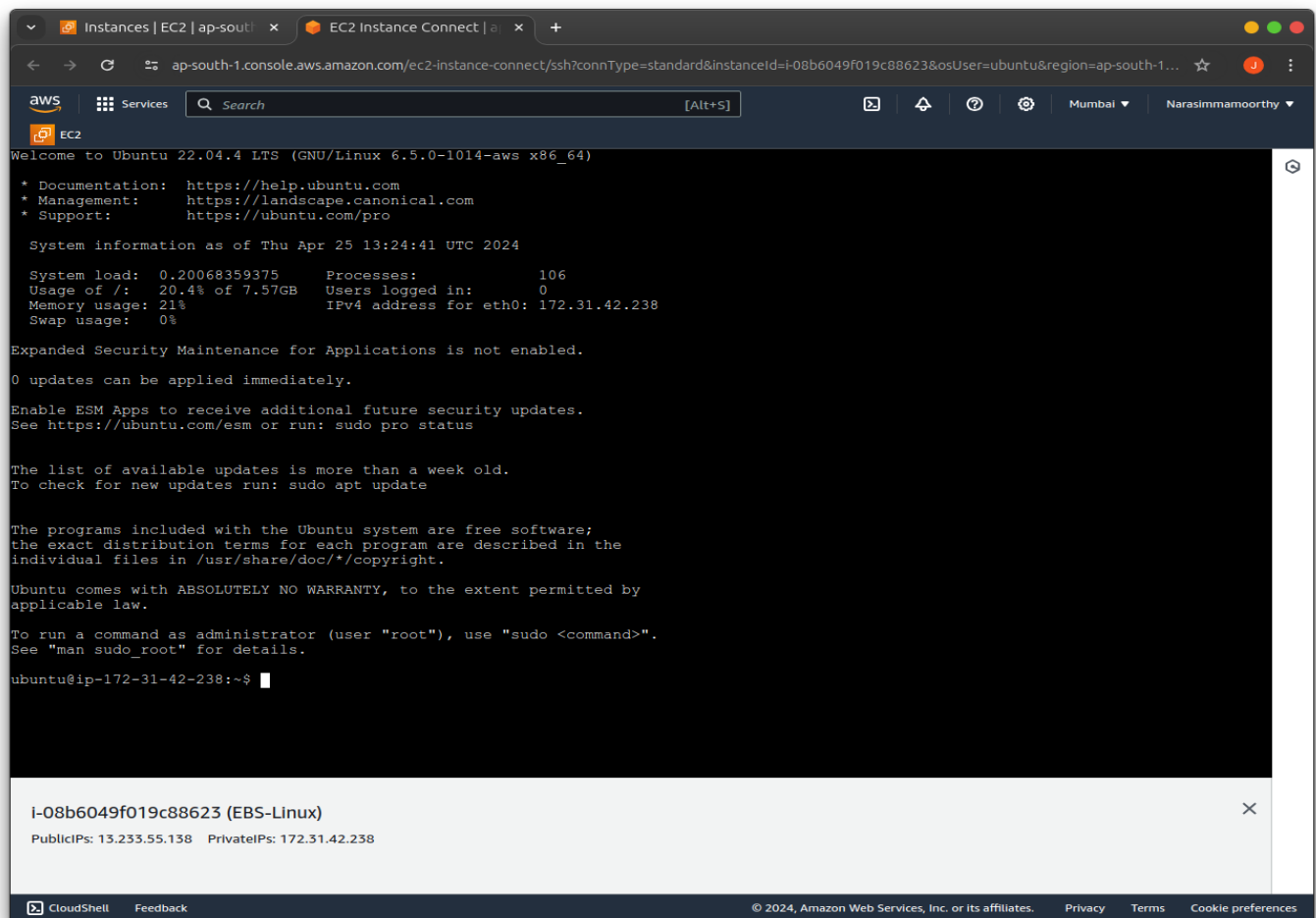
## 2-Creating Windows Machine



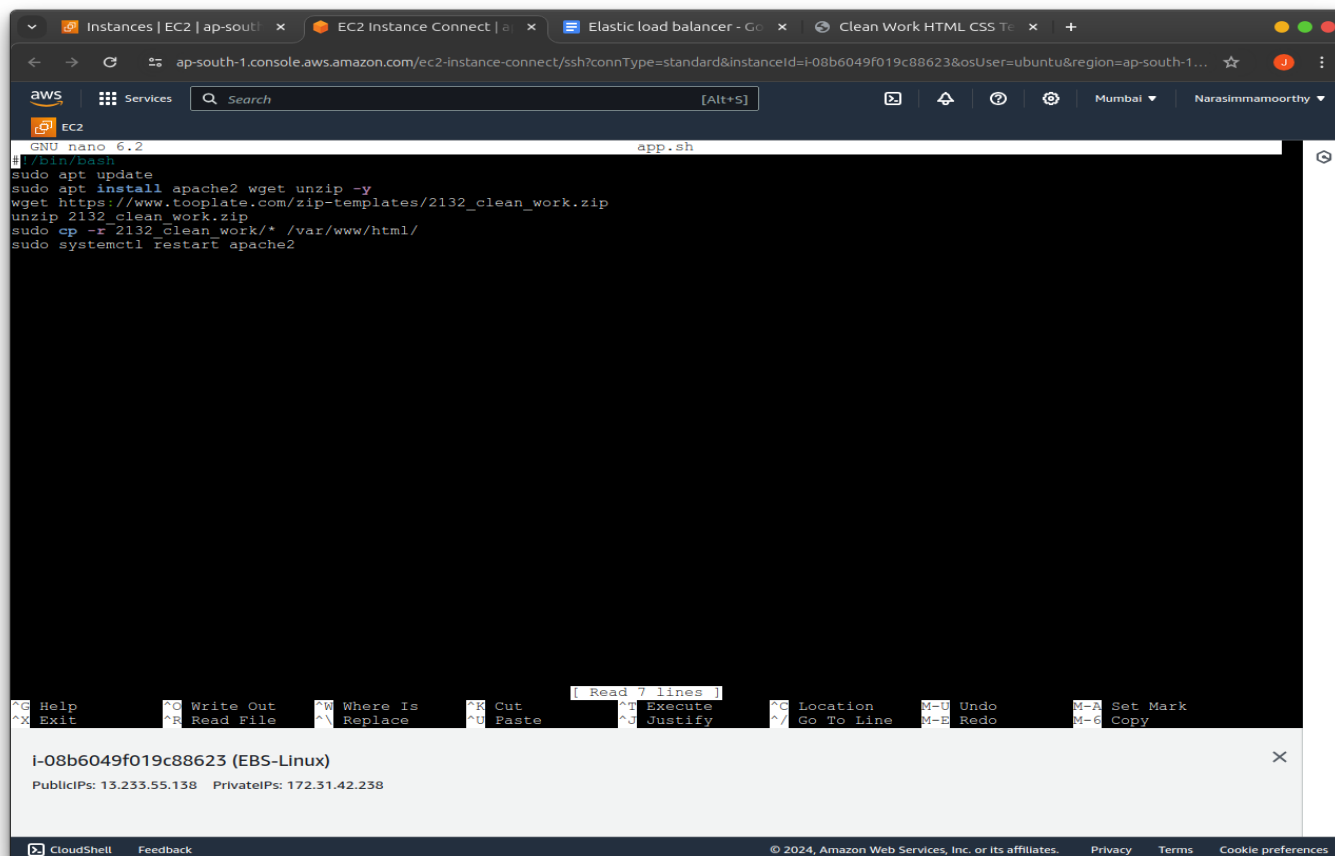
### 3-Created Linux & Windows



### 4-Linux Launched



## 5-Script for Apache Web server App

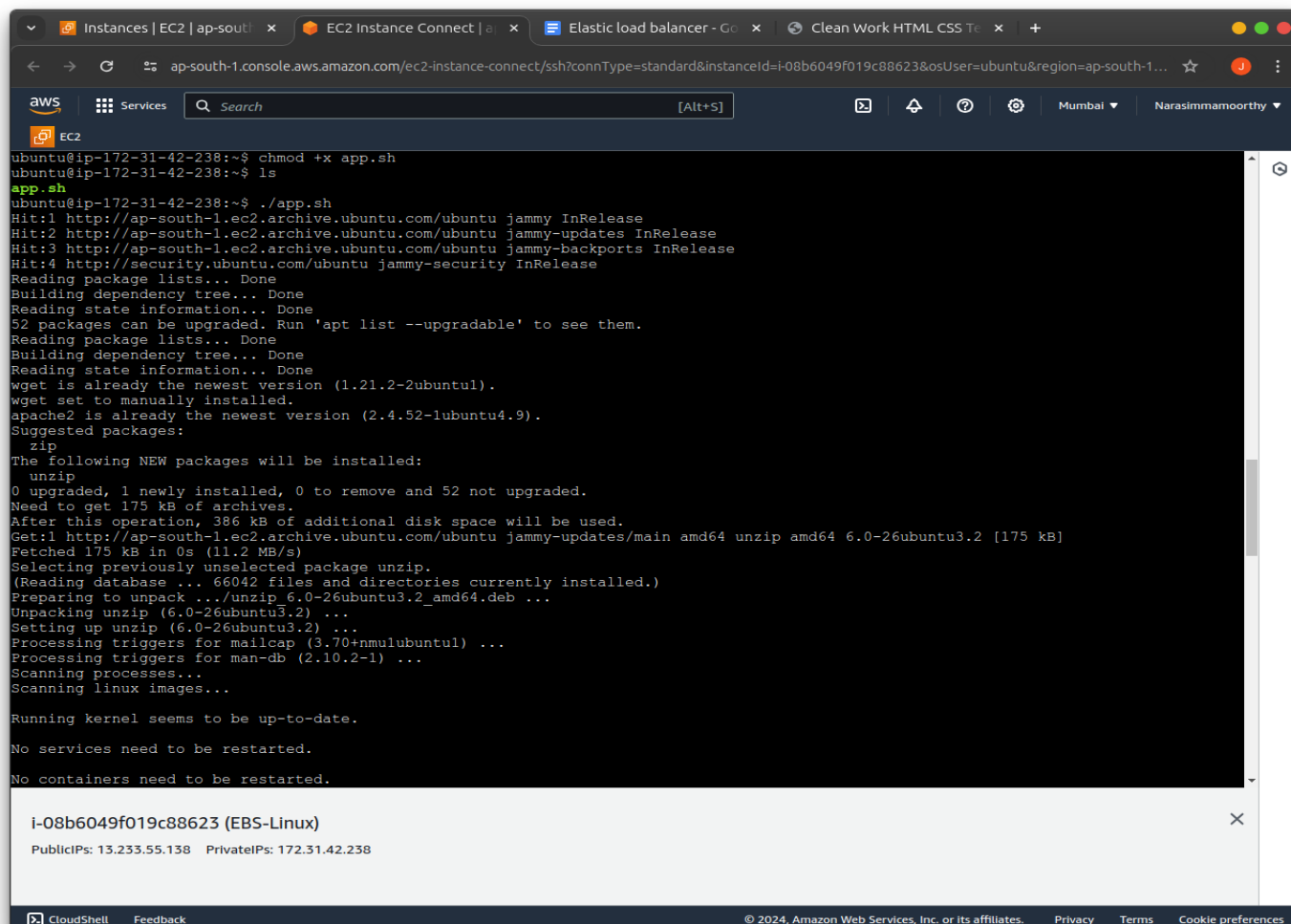


The screenshot shows the AWS CloudShell interface with a terminal window. The terminal is running a script named `app.sh` using `nano` 6.2. The script contains the following commands:

```
#!/bin/bash
sudo apt update
sudo apt install apache2 wget unzip -y
wget https://www.tooplate.com/zip-templates/2132_clean_work.zip
unzip 2132_clean_work.zip
sudo cp -r 2132_clean_work/* /var/www/html/
sudo systemctl restart apache2
```

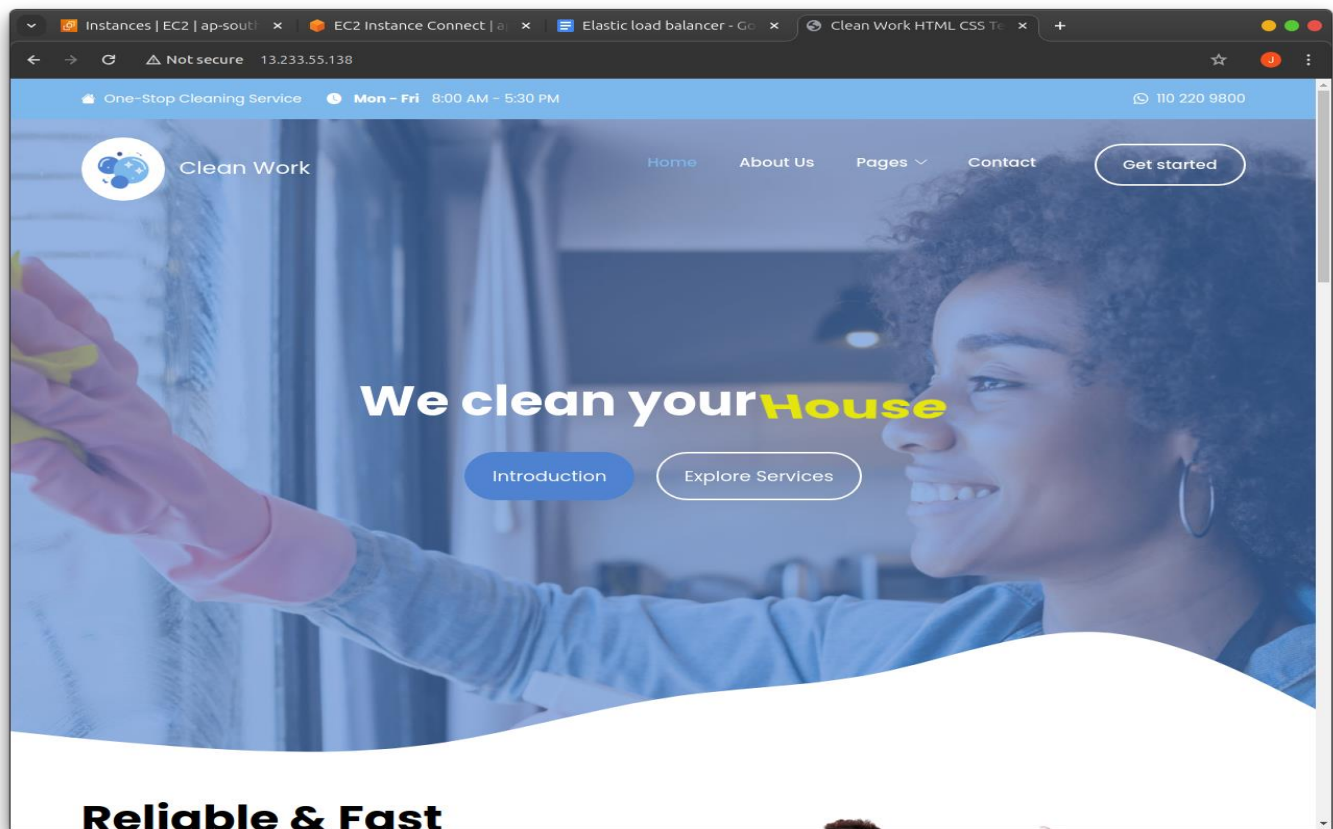
The terminal output shows the successful execution of these commands. The bottom of the terminal displays the instance ID `i-08b6049f019c88623` (EBS-Linux) and its public and private IP addresses.

## 6-Launching App

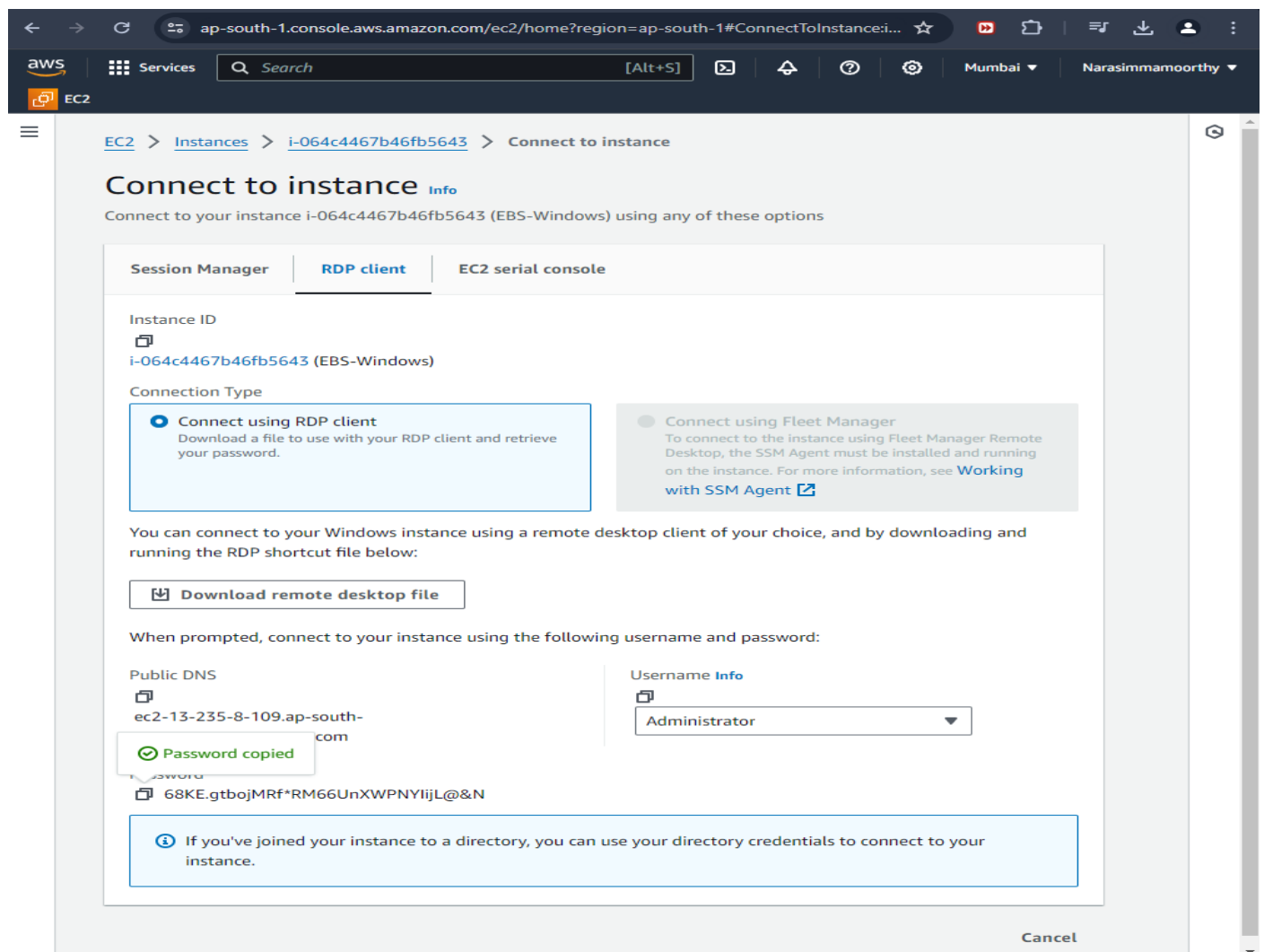


The screenshot shows the AWS CloudShell interface with a terminal window. The terminal is running the `app.sh` script on an EC2 instance. The output shows the script's progress, including package updates, wget installation, and the successful execution of the script. The bottom of the terminal displays the instance ID `i-08b6049f019c88623` (EBS-Linux) and its public and private IP addresses.

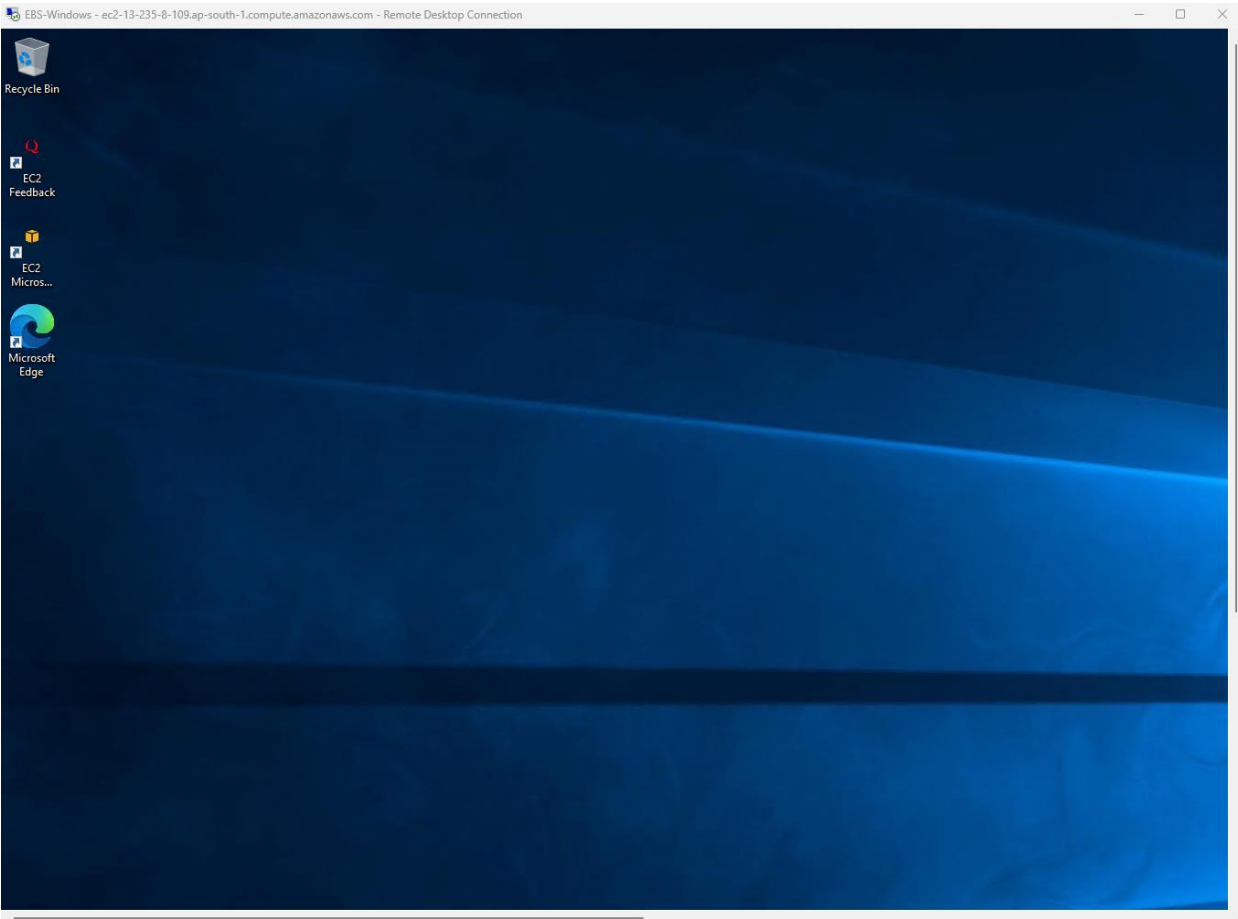
## 7-App Running in Web server



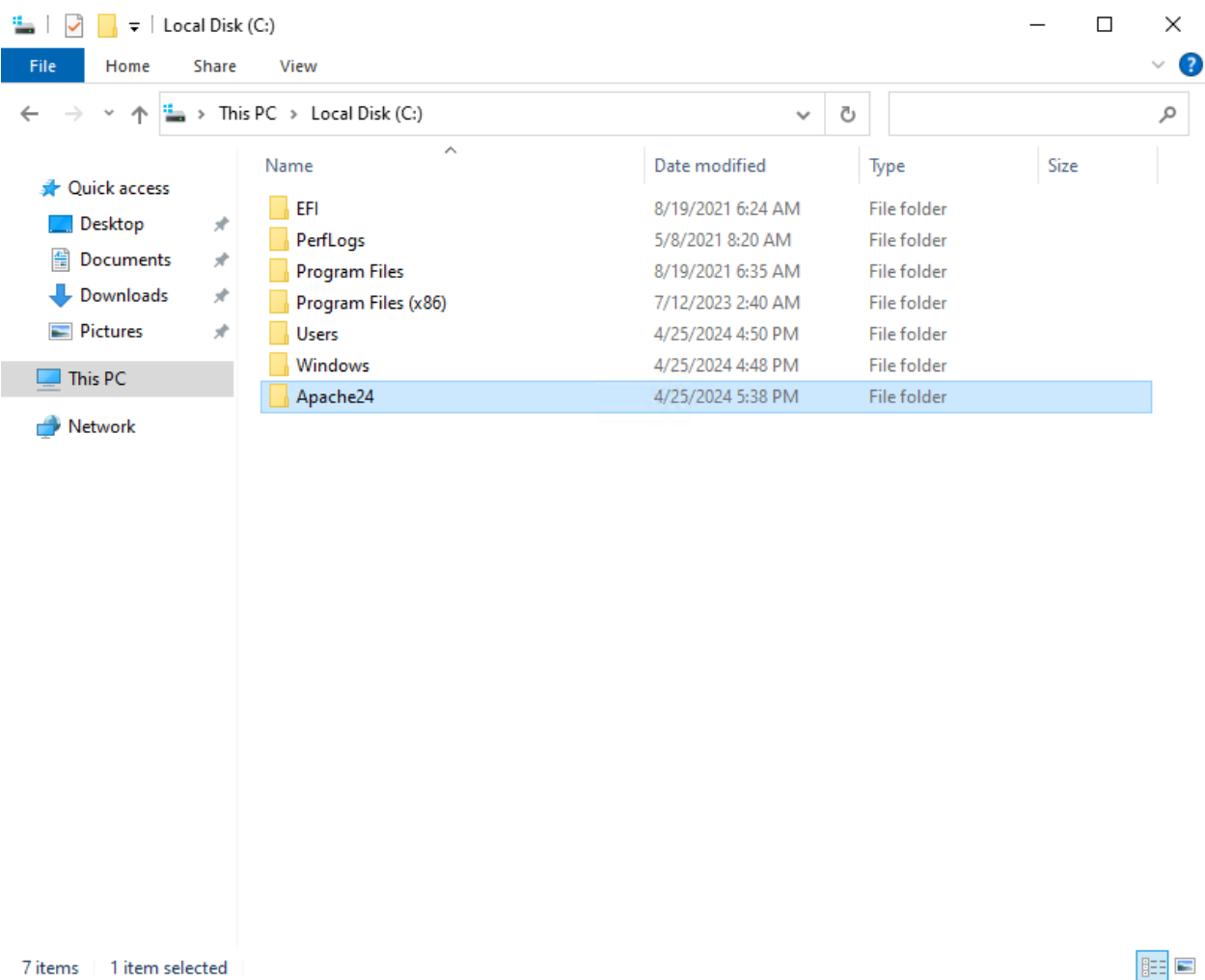
## 8-Launching Windows machine



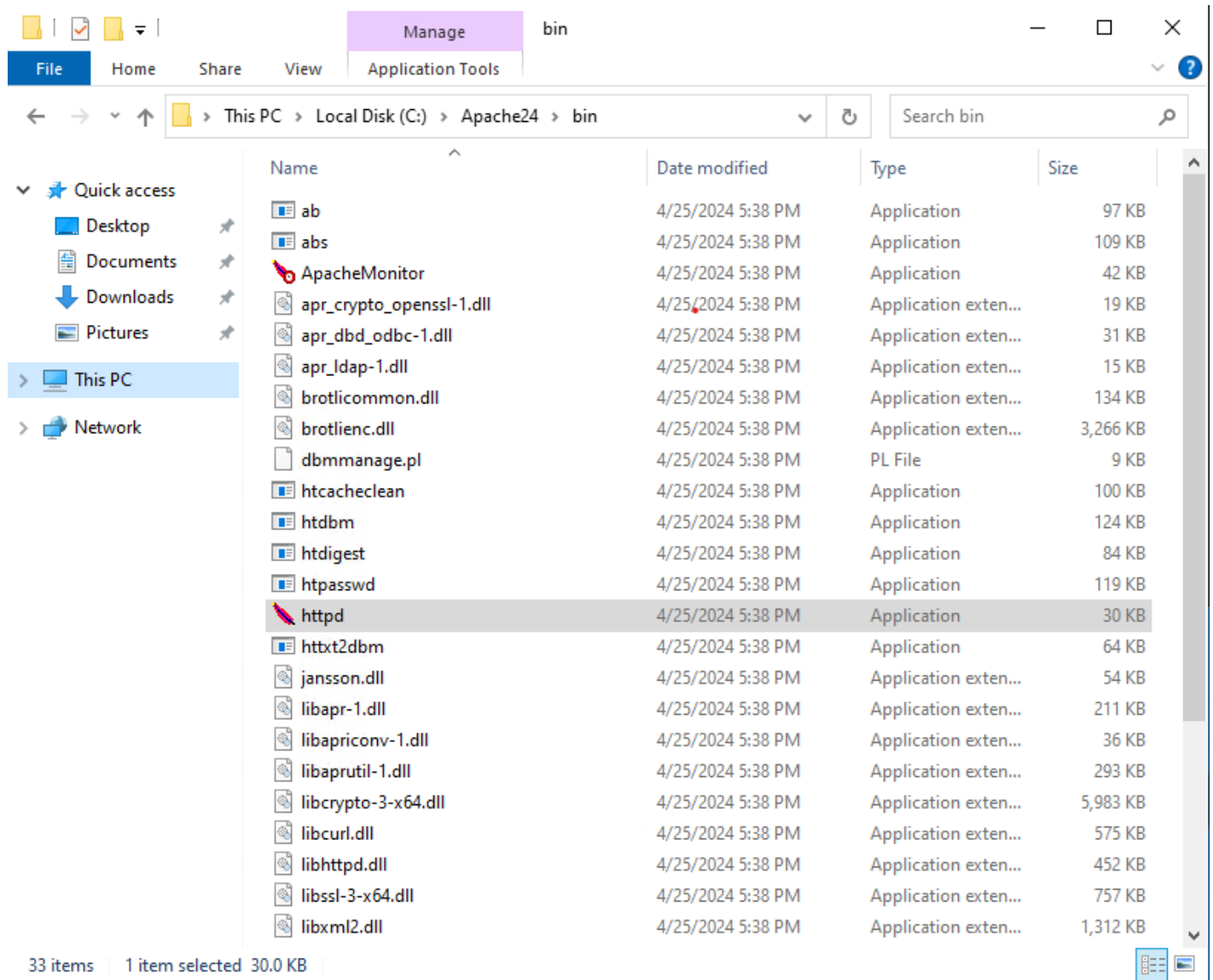
9-Windows Machine Launched



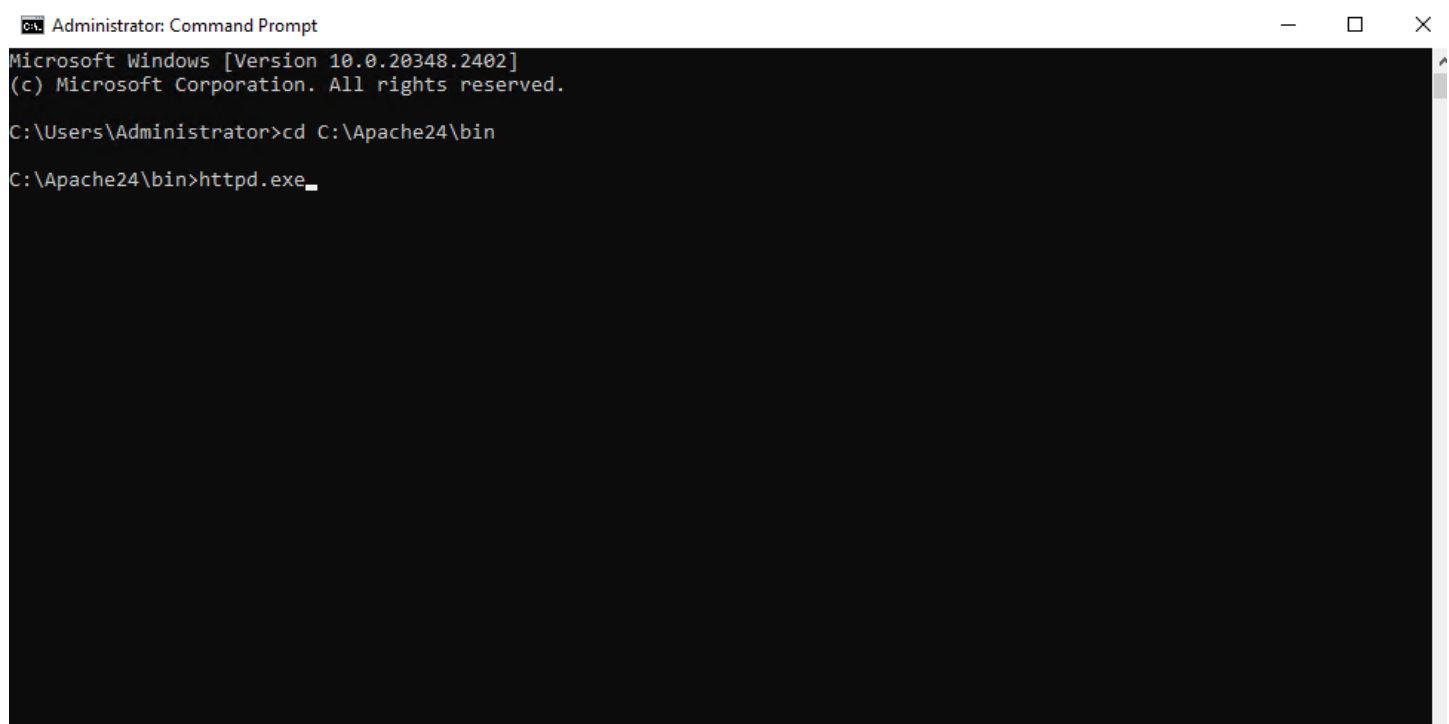
10-Installing Apache Web server



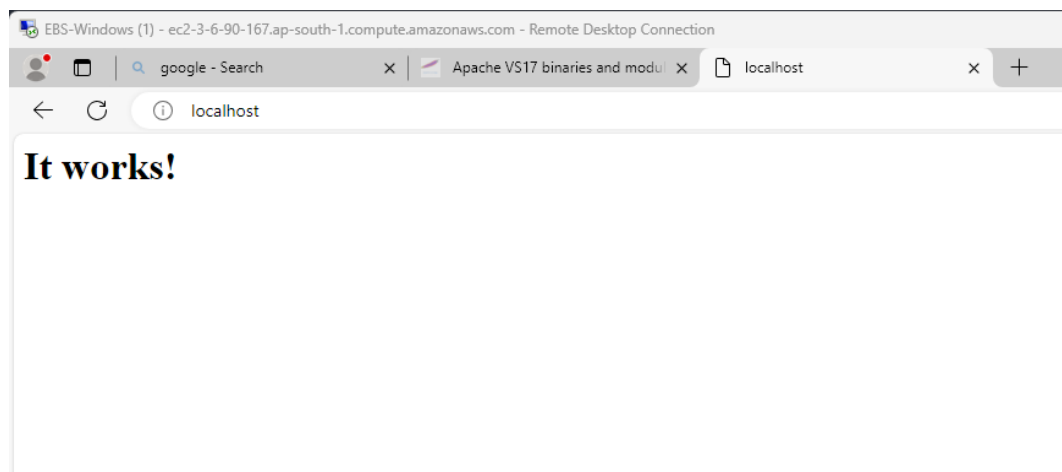
## 11-Web server installed



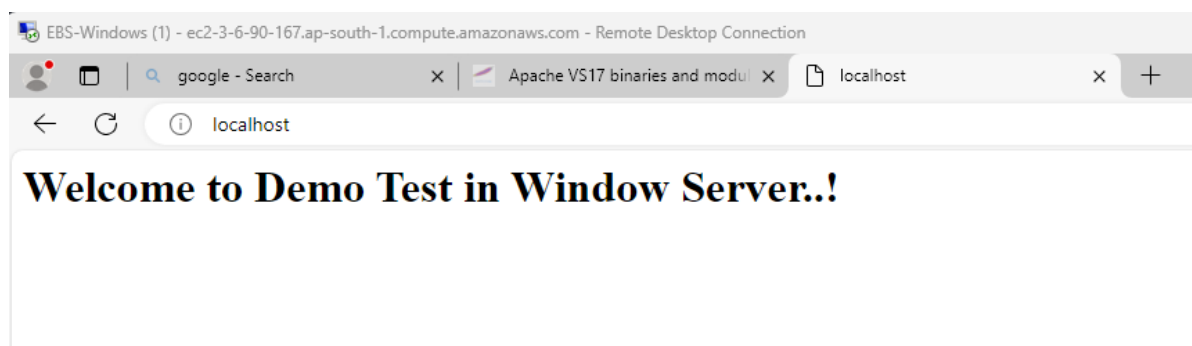
## 12-Launching Web server



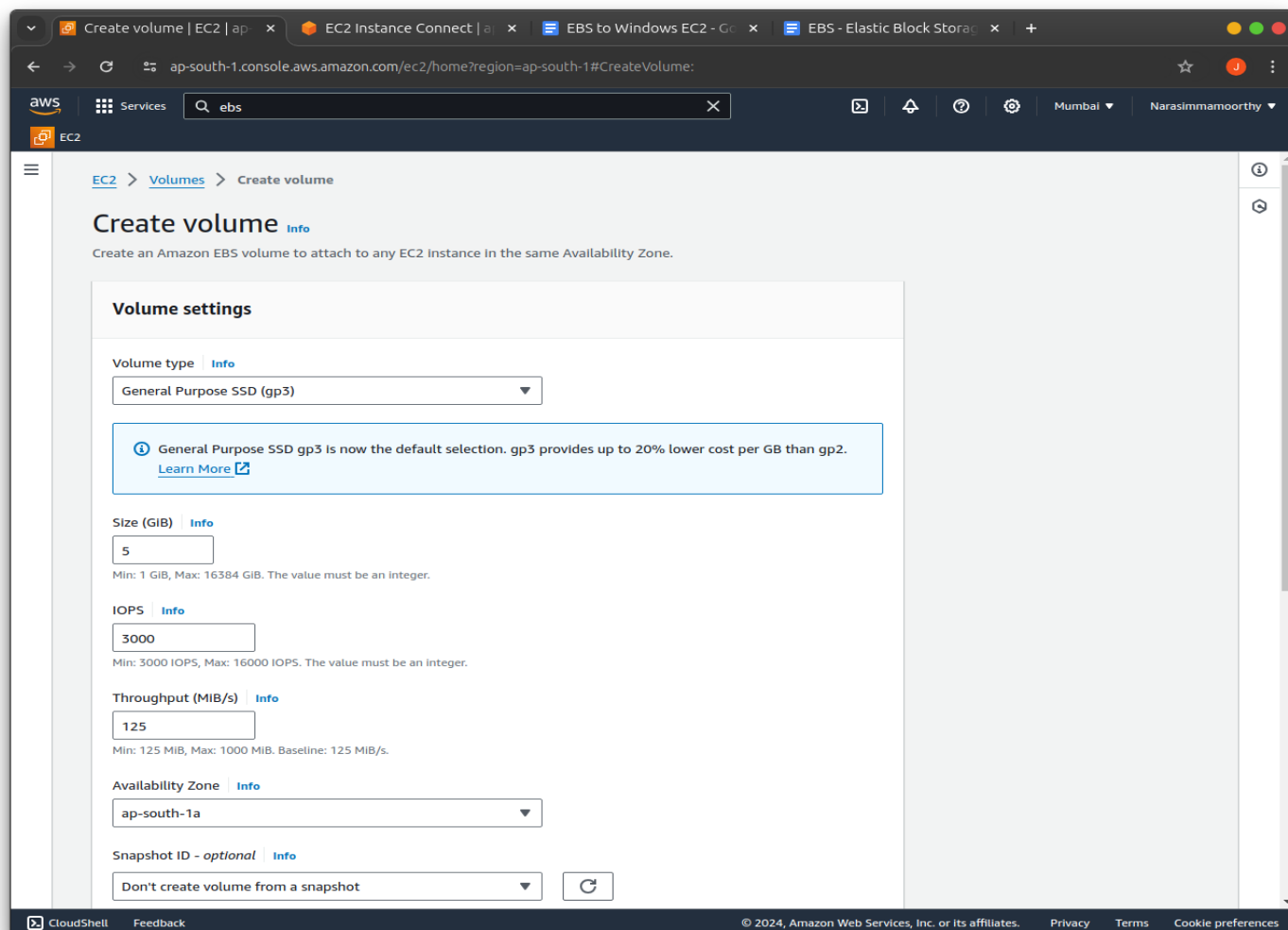
### 13-Web server launched



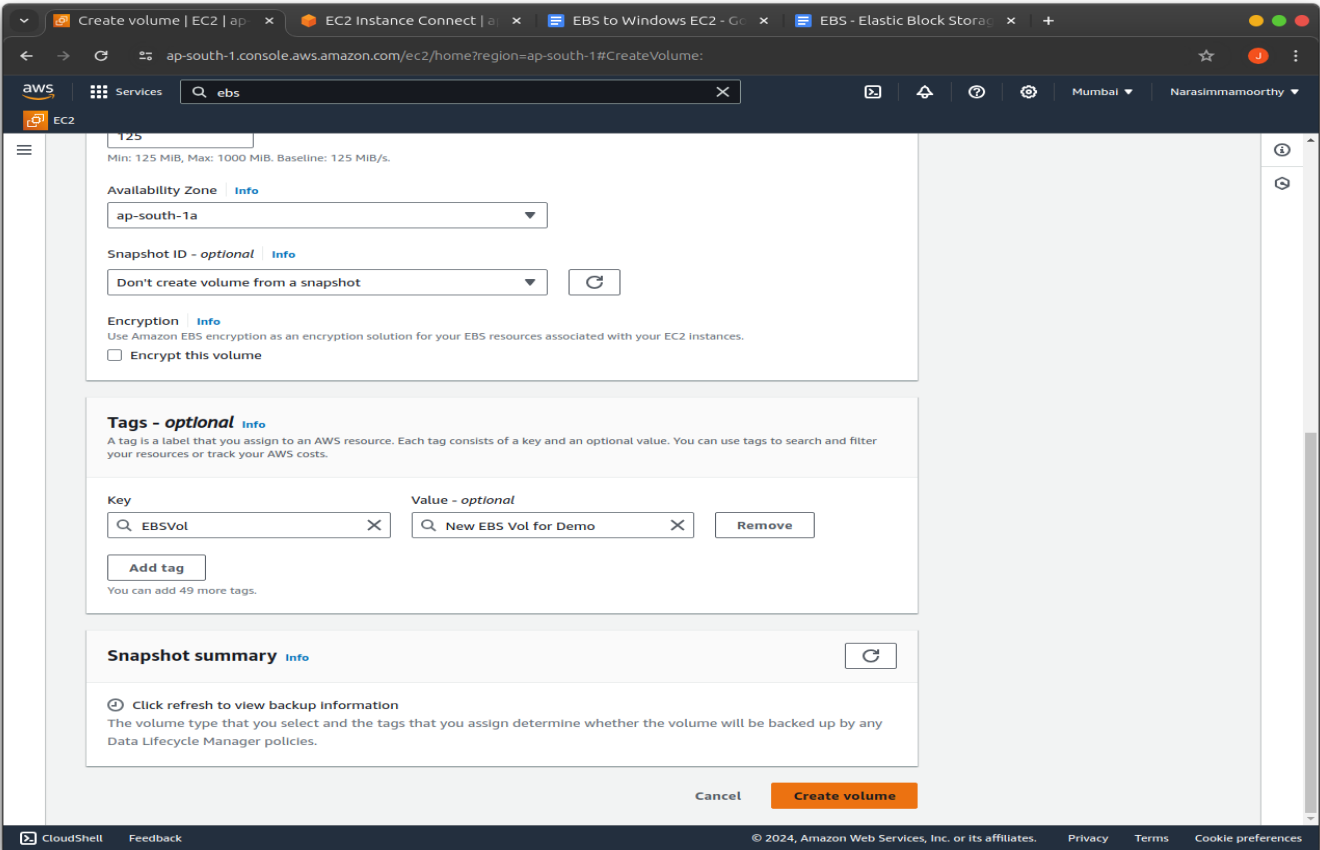
### 14-App changes made



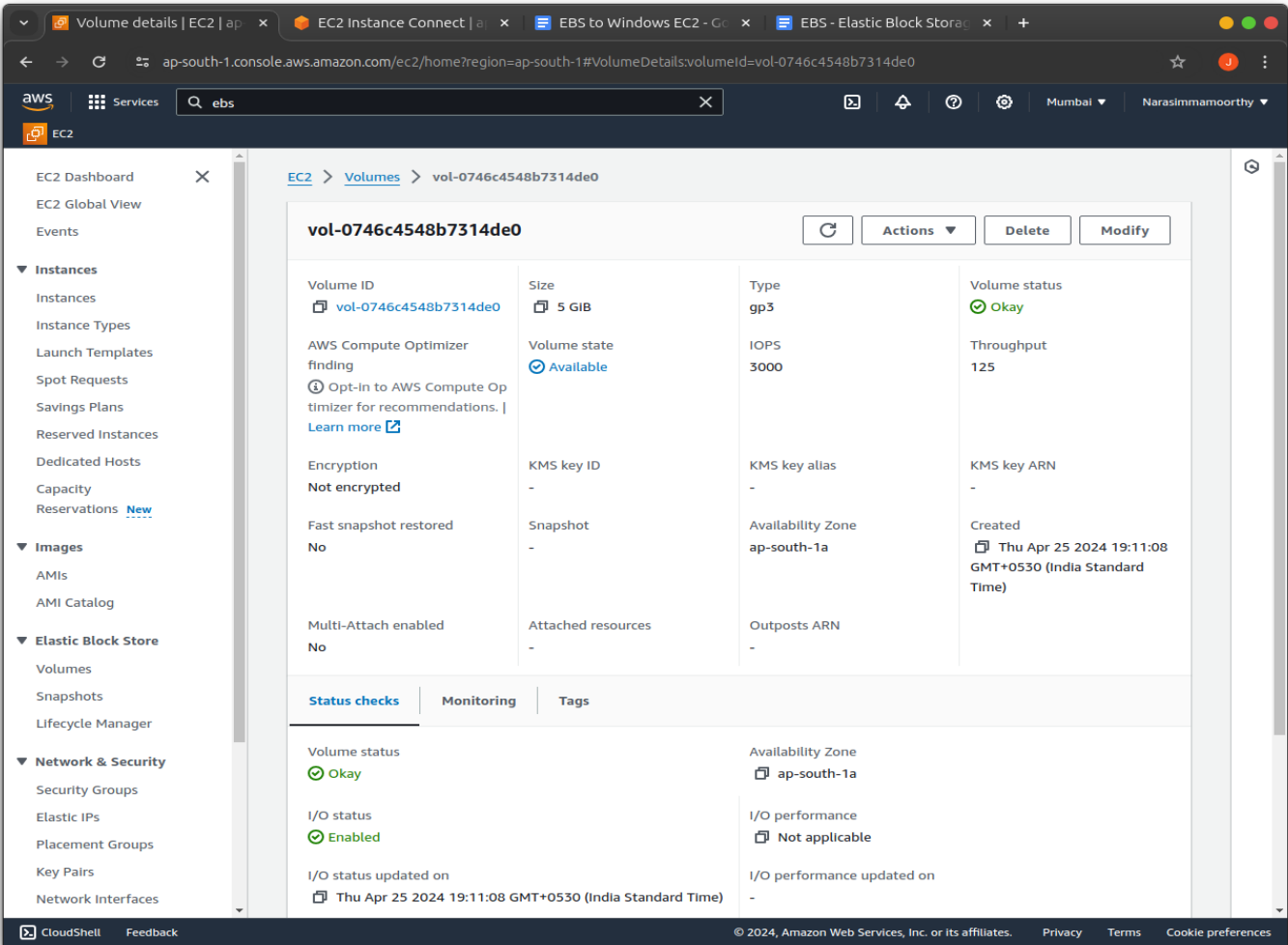
### 15-Creating 5GB EBS



16-Tagging EBS Volume

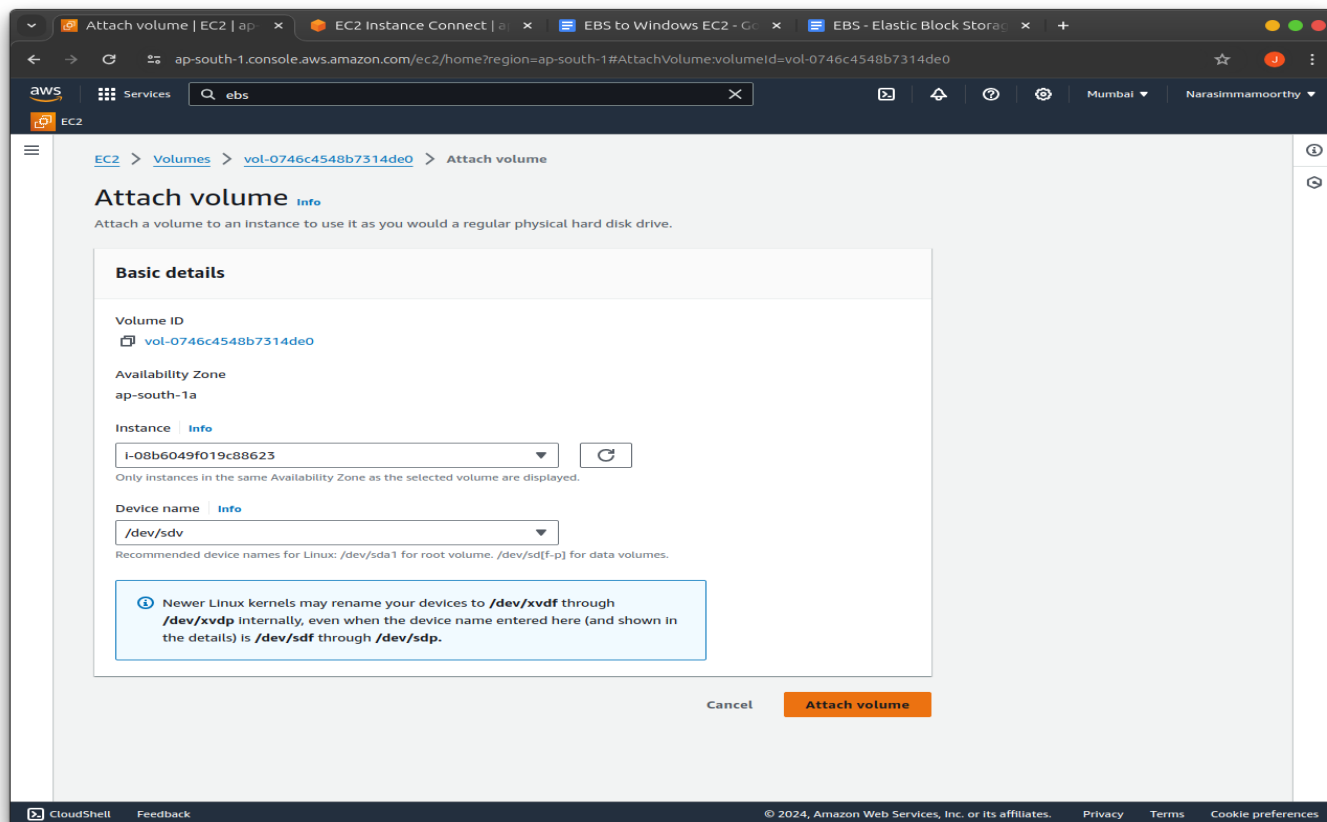


17-Volume Created

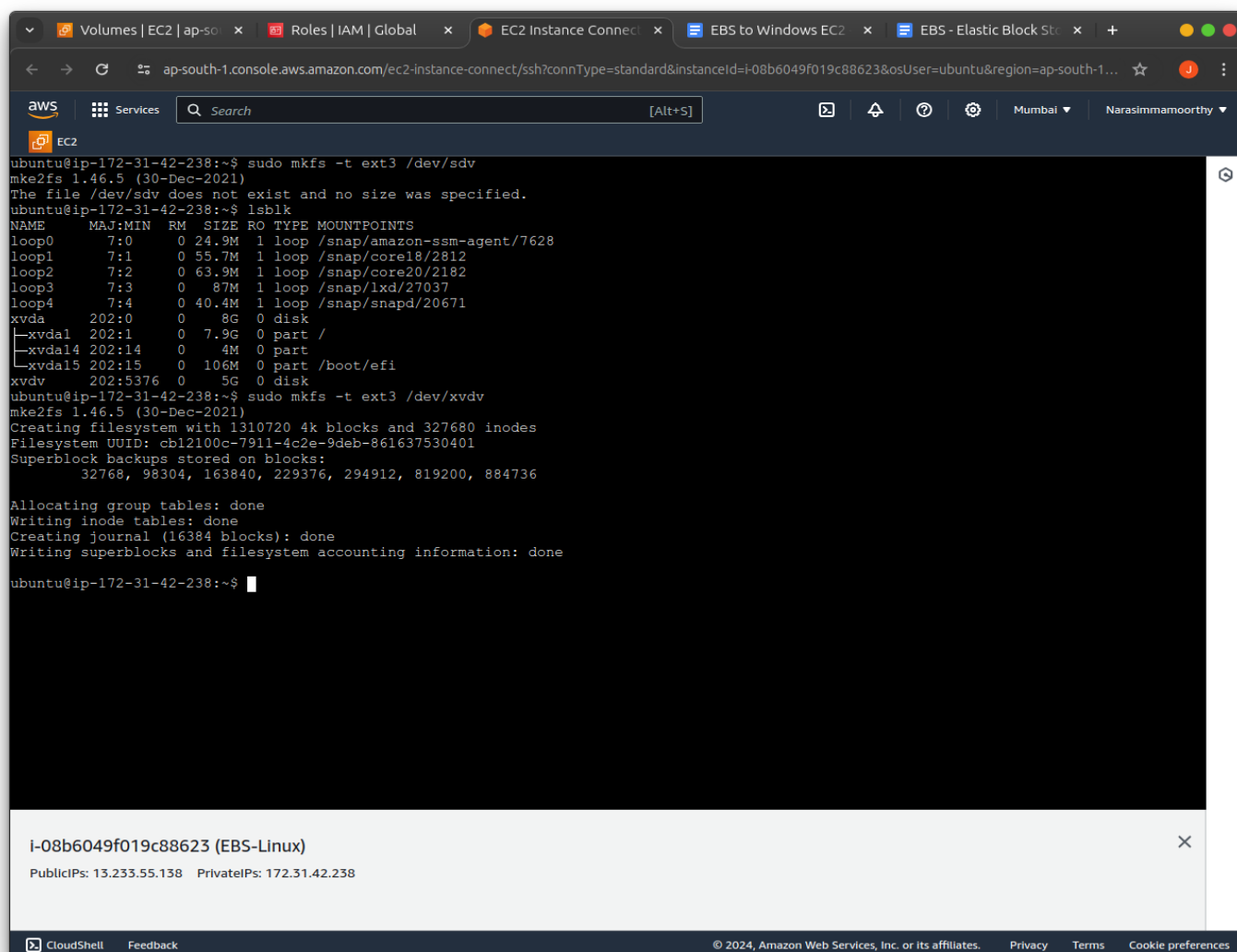




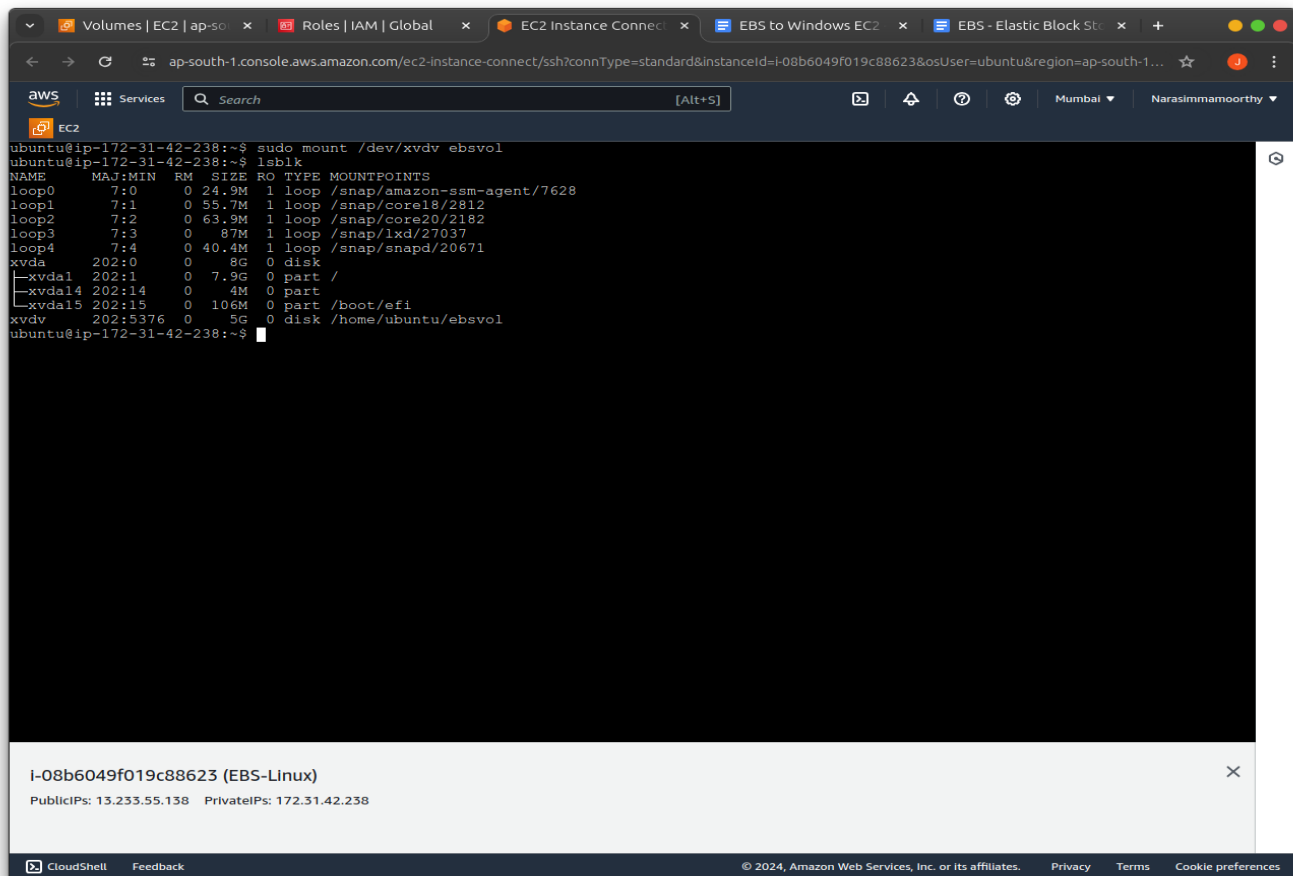
## 18-Attaching the volume to Linux machine



## 19-Formating the block into Filesystem



## 20-Mounting into Linux system as volume

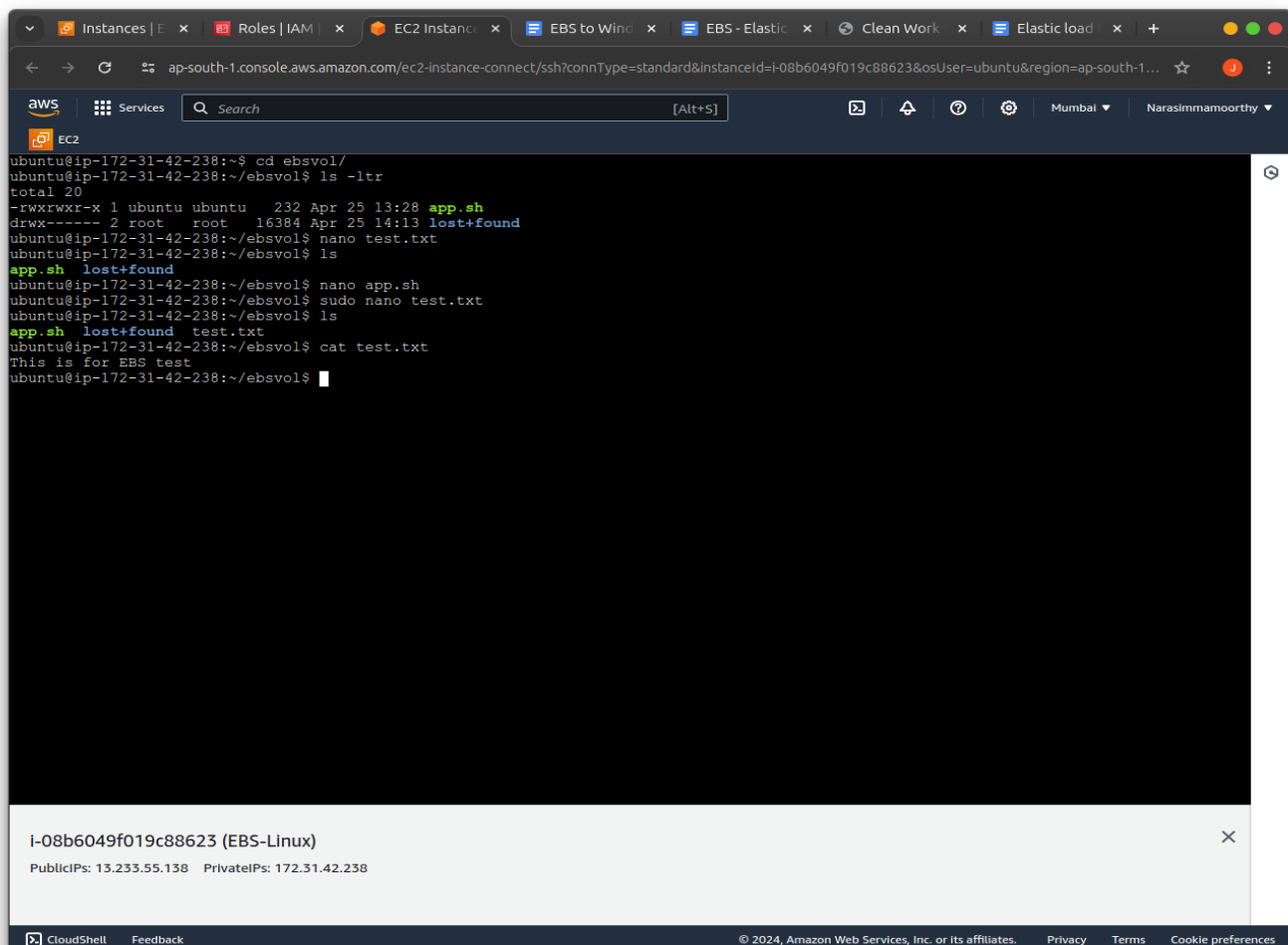


The screenshot shows the AWS CloudShell interface with a terminal window. The terminal output shows the command `sudo mount /dev/xvdy ebsvol` being executed successfully. Below the terminal, a summary box for the EBS volume `i-08b6049f019c88623 (EBS-Linux)` is displayed, showing its Public IP as `13.233.55.138` and Private IP as `172.31.42.238`.

```
ubuntu@ip-172-31-42-238:~$ sudo mount /dev/xvdy ebsvol
ubuntu@ip-172-31-42-238:~$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0        7:0      0  24.9M 1 loop /snap/amazon-ssm-agent/7628
loop1        7:1      0  55.7M 1 loop /snap/core18/2812
loop2        7:2      0  63.9M 1 loop /snap/core20/2182
loop3        7:3      0   87M 1 loop /snap/lxd/27037
loop4        7:4      0  40.4M 1 loop /snap/snapd/20671
xvda         202:0    0    8G  0 disk 
├─xvda1       202:1    0   7.9G  0 part /
├─xvda14      202:14   0    4M  0 part 
├─xvda15      202:15   0  106M  0 part /boot/efi
└─xvdy        202:5376 0    5G  0 disk /home/ubuntu/ebsvol
ubuntu@ip-172-31-42-238:~$
```

i-08b6049f019c88623 (EBS-Linux)  
PublicIPs: 13.233.55.138 PrivateIPs: 172.31.42.238

## 21-Created files inside the volume

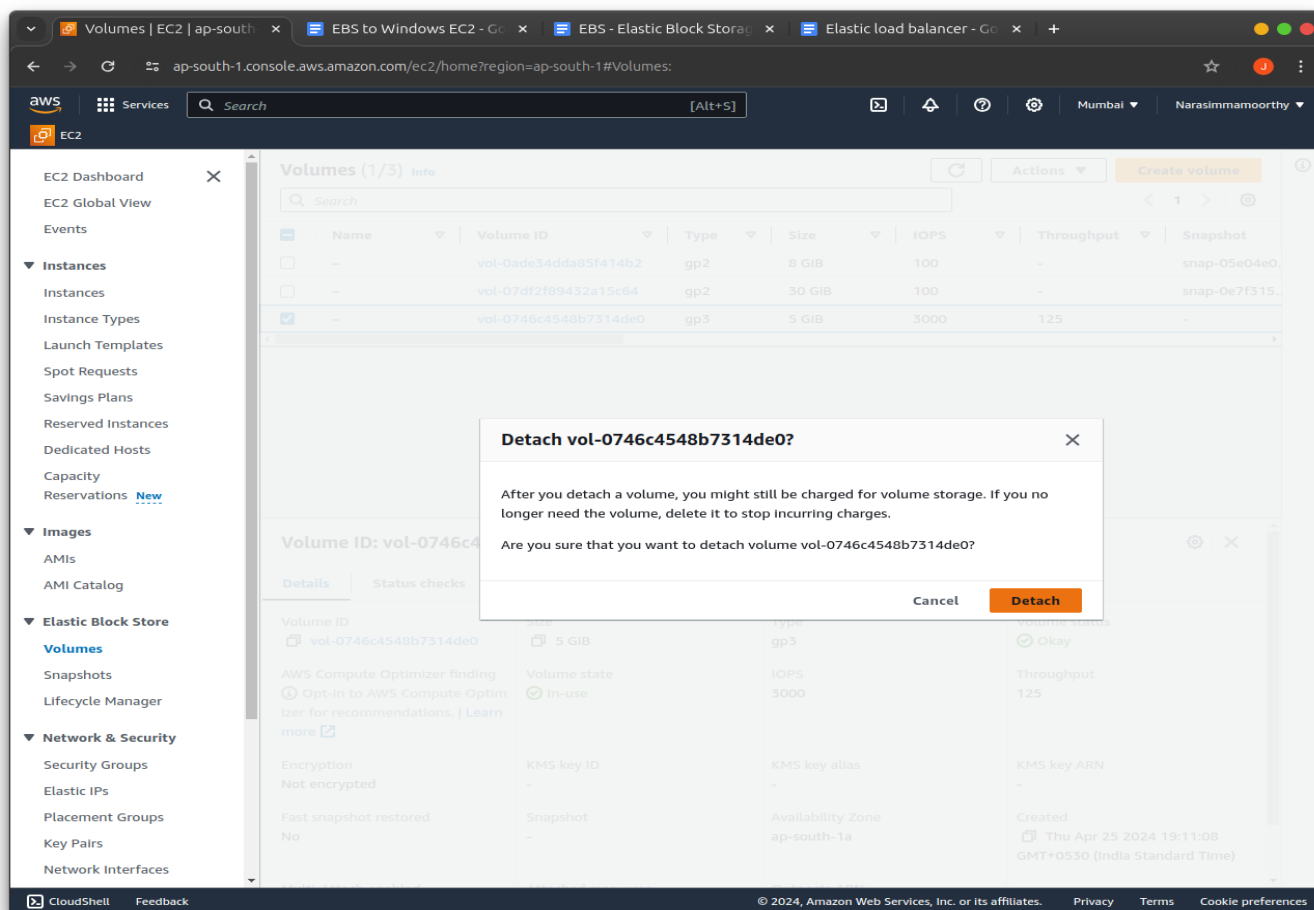


The screenshot shows the AWS CloudShell terminal with the user navigating to the `ebsvol` directory and creating files. The terminal output shows the user running `cd ebsvol/`, `ls -ltr`, `nano test.txt`, `nano app.sh`, and `cat test.txt`. The summary box at the bottom shows the volume `i-08b6049f019c88623 (EBS-Linux)` with Public IP `13.233.55.138` and Private IP `172.31.42.238`.

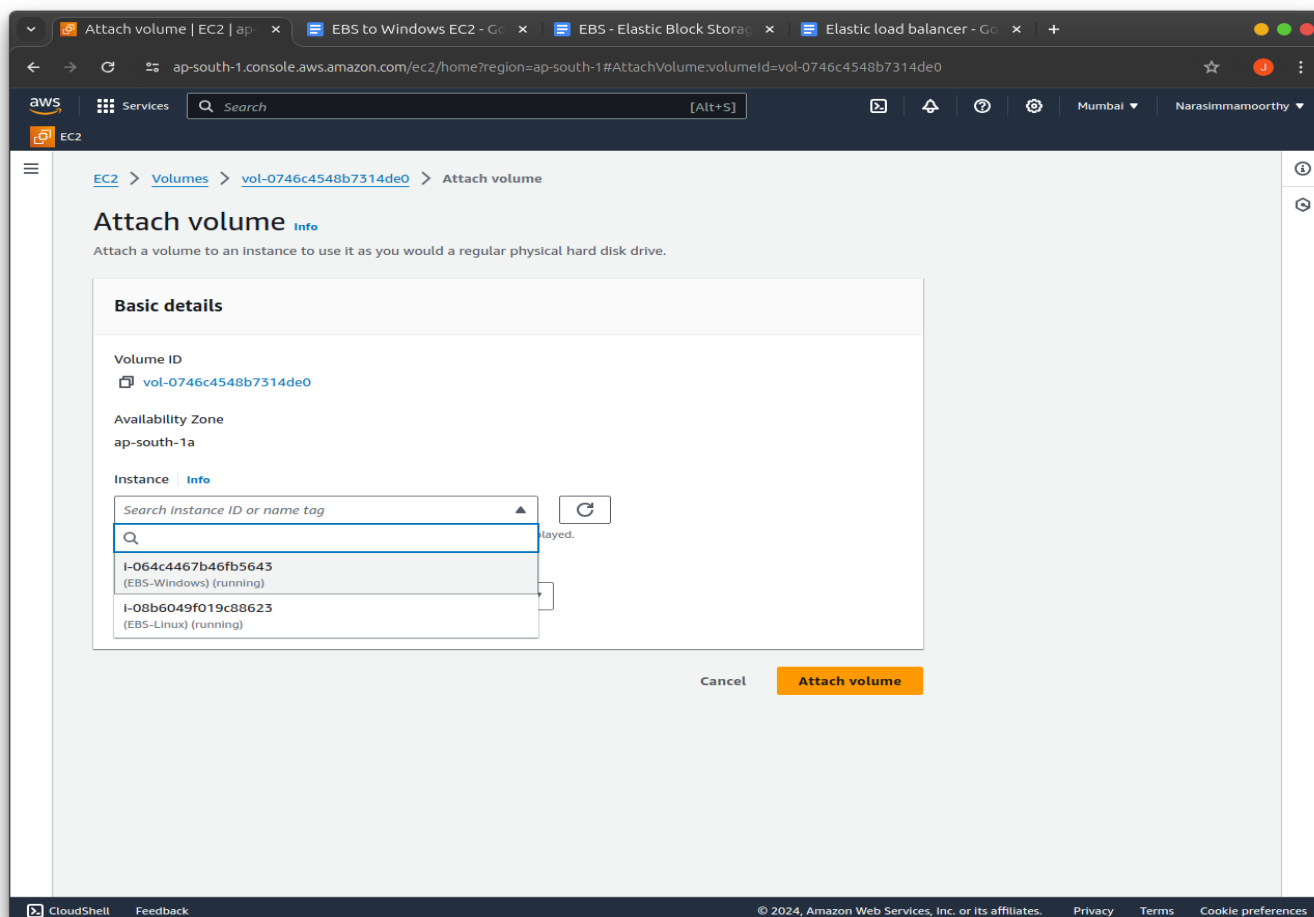
```
ubuntu@ip-172-31-42-238:~$ cd ebsvol/
ubuntu@ip-172-31-42-238:~/ebsvol$ ls -ltr
total 20
-rwxrwxr-x 1 ubuntu ubuntu 232 Apr 25 13:28 app.sh
drwx----- 2 root    root  16384 Apr 25 14:13 lost+found
ubuntu@ip-172-31-42-238:~/ebsvol$ nano test.txt
ubuntu@ip-172-31-42-238:~/ebsvol$ ls
app.sh lost+found
ubuntu@ip-172-31-42-238:~/ebsvol$ nano app.sh
ubuntu@ip-172-31-42-238:~/ebsvol$ sudo nano test.txt
ubuntu@ip-172-31-42-238:~/ebsvol$ ls
app.sh lost+found test.txt
ubuntu@ip-172-31-42-238:~/ebsvol$ cat test.txt
This is for EBS test
ubuntu@ip-172-31-42-238:~/ebsvol$
```

i-08b6049f019c88623 (EBS-Linux)  
PublicIPs: 13.233.55.138 PrivateIPs: 172.31.42.238

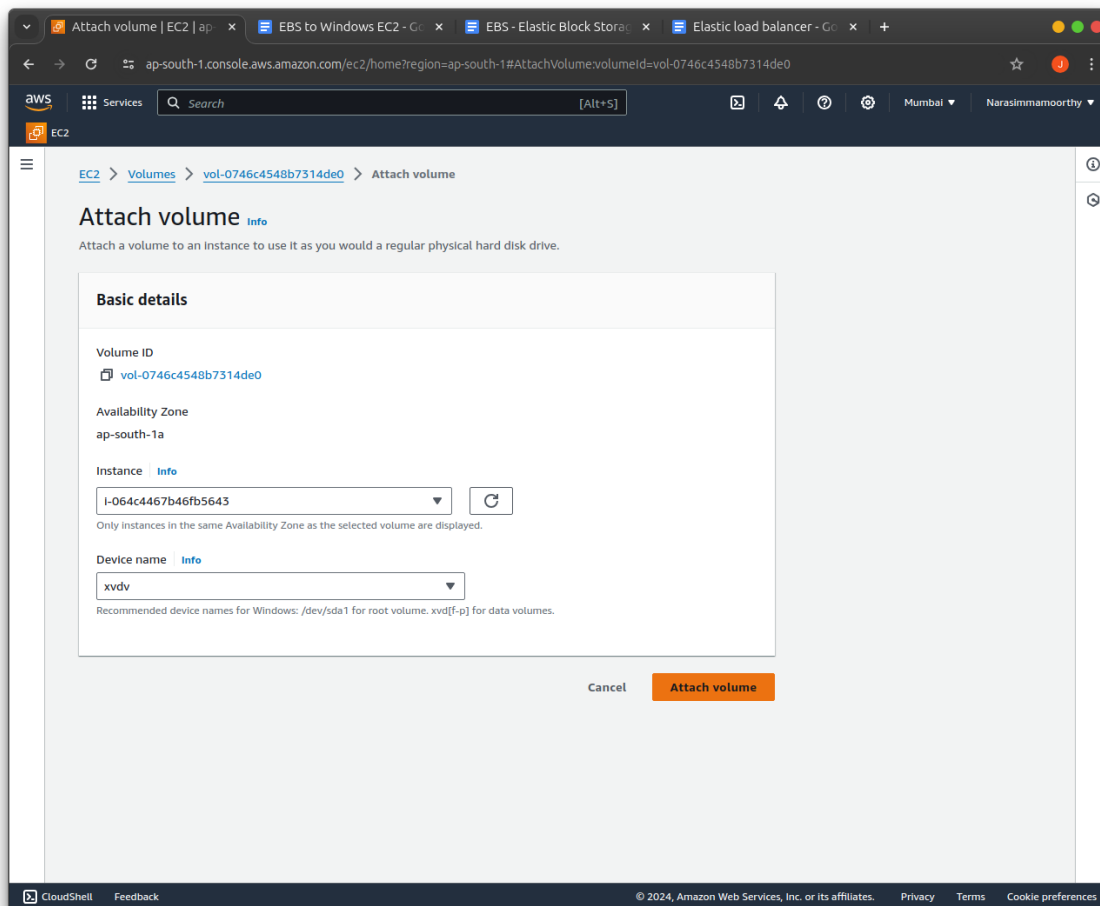
## 22-Detaching the Volume



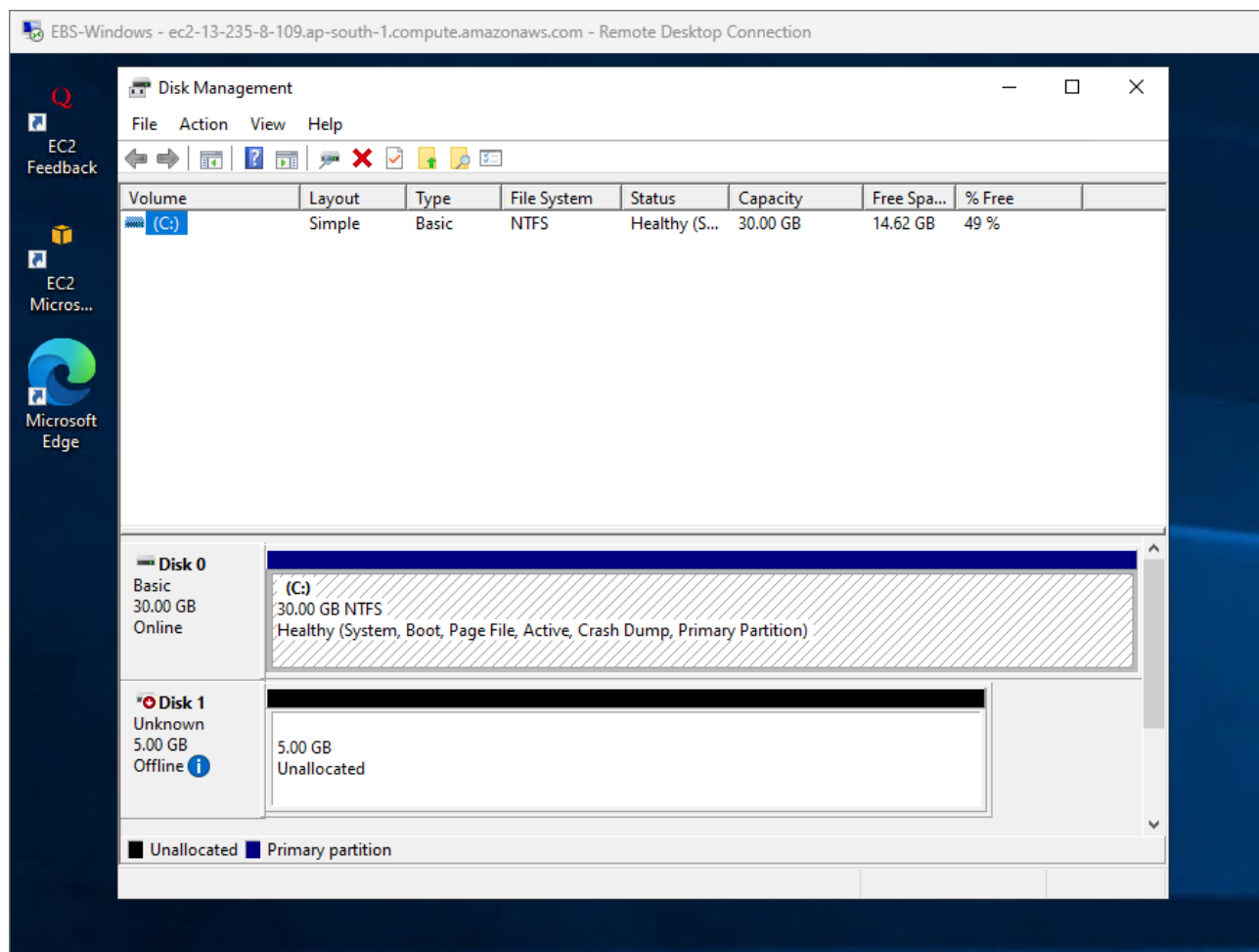
## 23-Attaching the EBS to Windows Machine



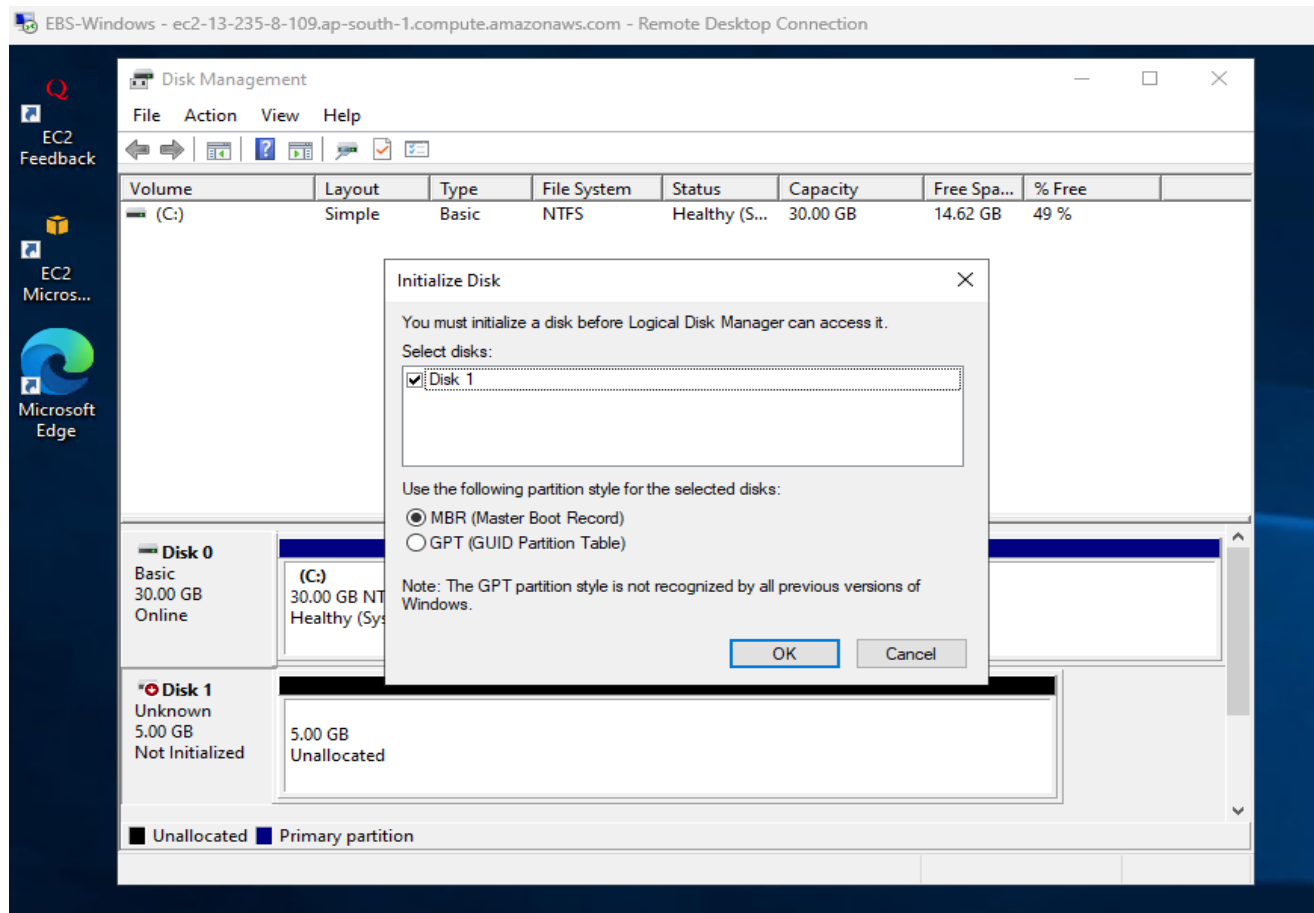
## 24-Attaching to Windows



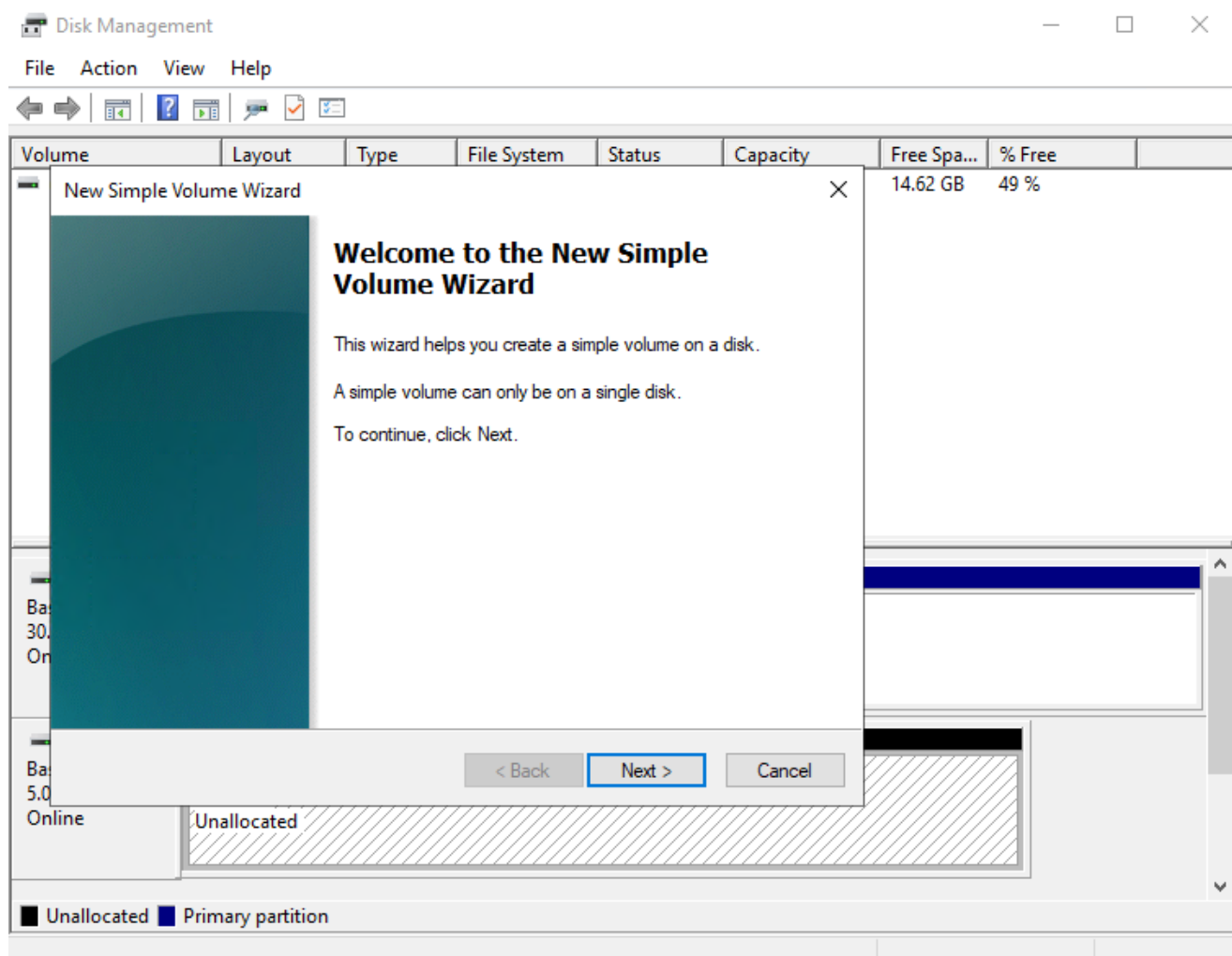
## 25-Attached to Windows



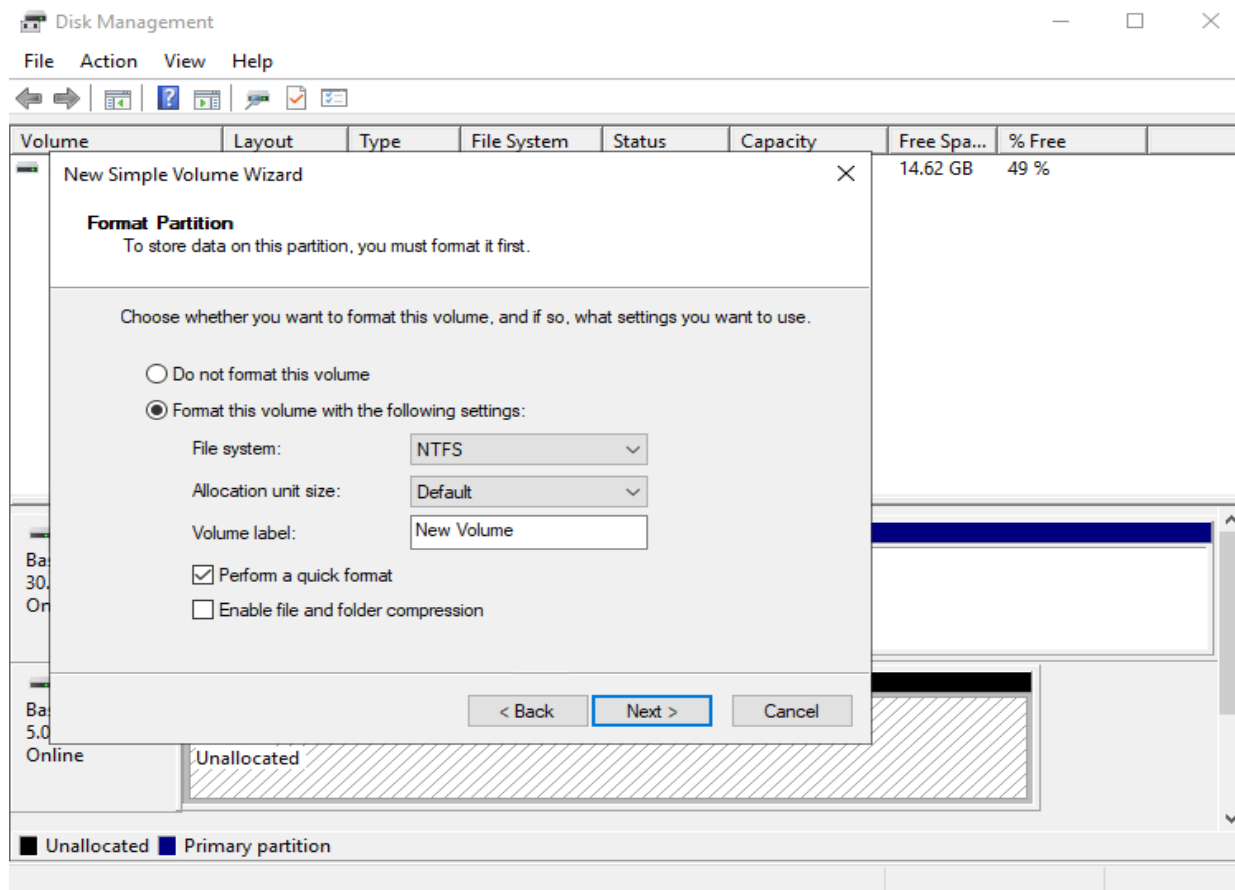
## 26-Initializing the Disk into Windows



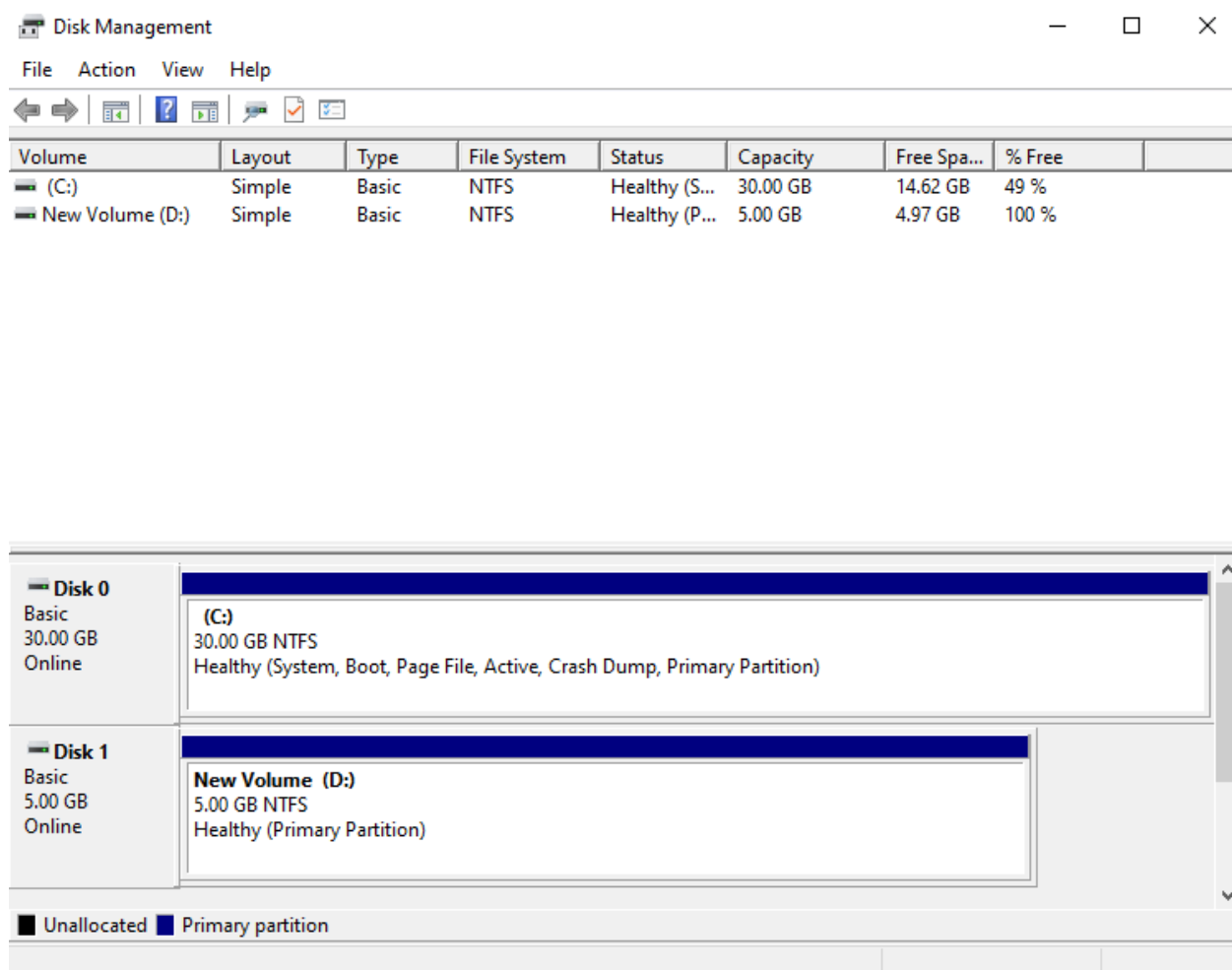
## 27-Setting Up the Disk



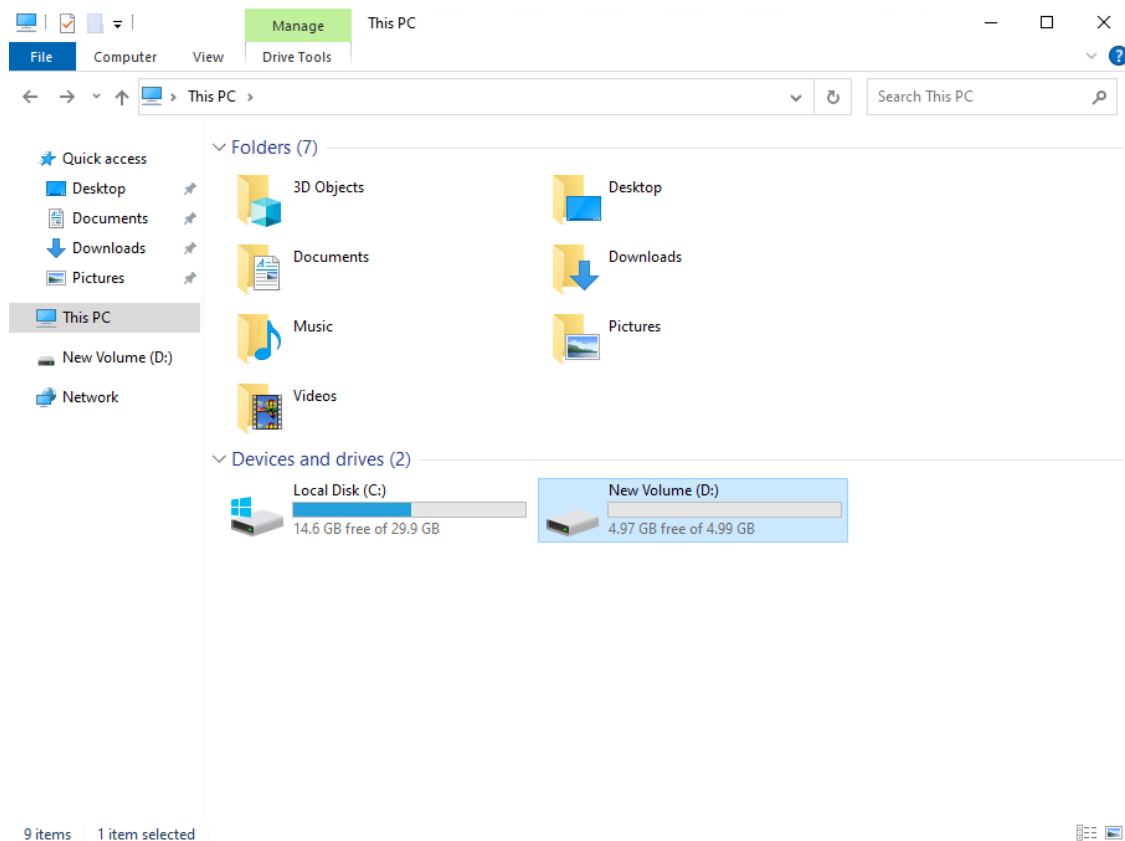
## 28-Formating the Disk for Windows



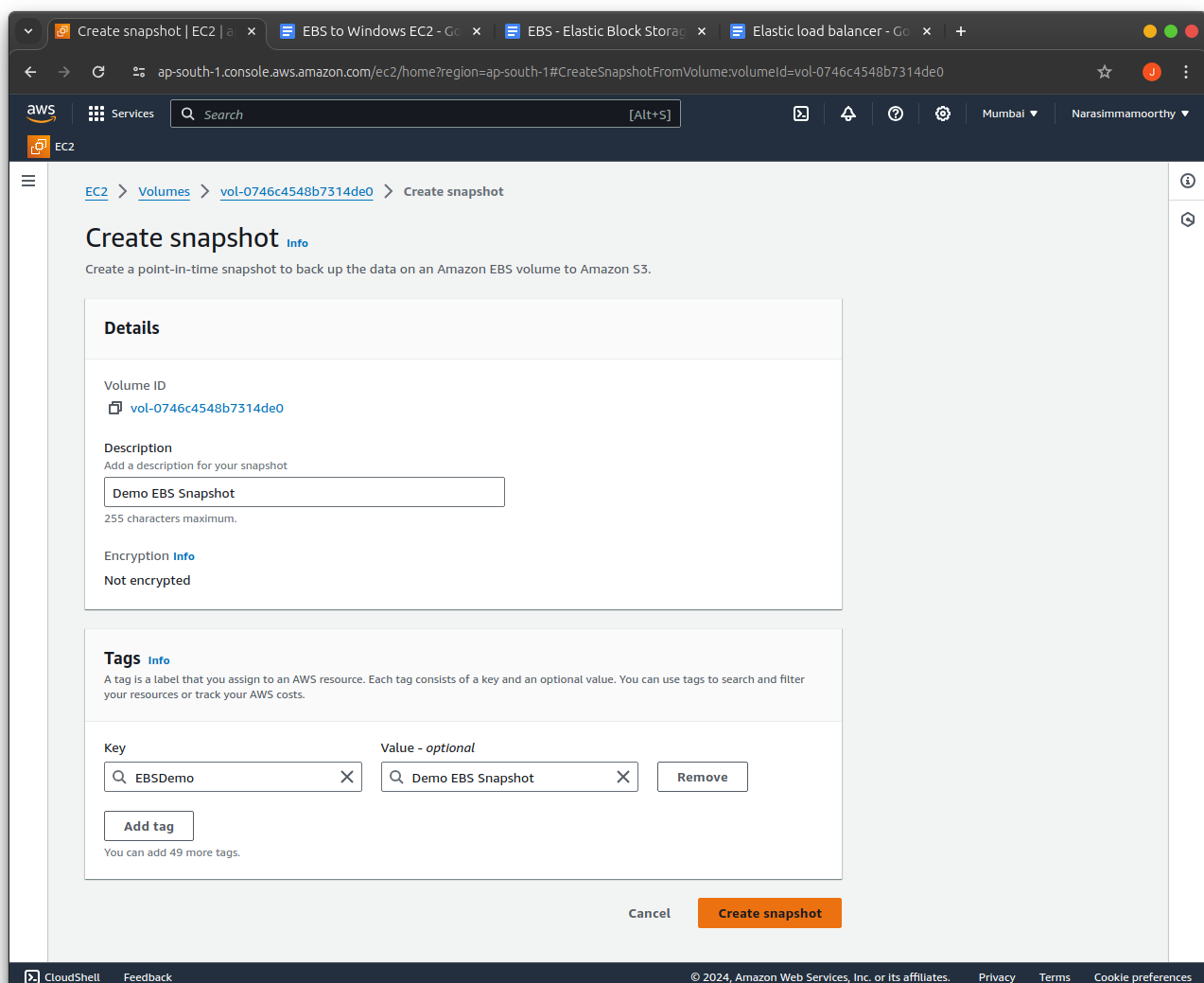
## 29.Disk initialized and Up Online



## 30-Disk Mounted Successfully



## 31. Creating Snapshot using EBS Volume mounted to Linux & Windows machine



## 32-Snapshot Created

The screenshot displays the AWS Management Console for the 'ap-south-1' region. The 'Snapshots' page is active, showing a list of snapshots. A single snapshot, 'snap-0a468c0b56de17f68', is listed with a status of 'Completed'. The left-hand navigation pane shows the 'Elastic Block Store' section expanded, with 'Snapshots' selected. The top navigation bar includes the AWS logo, 'Services' link, a search bar, and the user's name 'Narasimmoorthy'.

Name	Snapshot ID	Volume size	Description	Storage tier	Snapshot status
-	snap-0a468c0b56de17f68	5 GiB	Demo EBS Snapshot	Standard	Completed

**Snapshot ID: snap-0a468c0b56de17f68**

Details	Snapshot settings	Storage tier	Tags
<b>Snapshot ID</b> snap-0a468c0b56de17f68	<b>Volume size</b> 5 GiB	<b>Progress</b> Available (100%)	<b>Snapshot status</b> Completed
<b>Owner</b> 339712699389	<b>Volume ID</b> vol-0746c4548b7314de0	<b>Started</b> Thu Apr 25 2024 22:07:42 GMT+0530 (India Standard Time)	<b>Product codes</b> -
<b>Encryption</b> Not encrypted	<b>KMS key ID</b> -	<b>KMS key alias</b> -	<b>KMS key ARN</b> -
<b>Fast snapshot restore</b> -	<b>Description</b> Demo EBS Snapshot		

## 33-Creating the EBS Volume by taken Snapshot

This screenshot shows the same AWS Management Console interface as the previous one, but with the 'Actions' dropdown menu open for the selected snapshot. The option 'Create volume from snapshot' is highlighted. The rest of the console, including the snapshot list and details, remains the same.

Name	Snapshot ID	Volume size	Description	Storage tier	Snapshot status
-	snap-0a468c0b56de17f68	5 GiB	Demo EBS Snapshot	Standard	Completed

**Snapshot ID: snap-0a468c0b56de17f68**

Details	Snapshot settings	Storage tier	Tags
<b>Snapshot ID</b> snap-0a468c0b56de17f68	<b>Volume size</b> 5 GiB	<b>Progress</b> Available (100%)	<b>Snapshot status</b> Completed
<b>Owner</b> 339712699389	<b>Volume ID</b> vol-0746c4548b7314de0	<b>Started</b> Thu Apr 25 2024 22:07:42 GMT+0530 (India Standard Time)	<b>Product codes</b> -
<b>Encryption</b> Not encrypted	<b>KMS key ID</b> -	<b>KMS key alias</b> -	<b>KMS key ARN</b> -
<b>Fast snapshot restore</b> -	<b>Description</b> Demo EBS Snapshot		



## 34-Creating EBS Volume

Create volume [Info](#)

Create an Amazon EBS volume to attach to any EC2 Instance in the same Availability Zone.

**Volume settings**

Snapshot ID  
 snap-0a468c0b56de17f68

Volume type [Info](#)  
General Purpose SSD (gp3)

**General Purpose SSD gp3 is now the default selection. gp3 provides up to 20% lower cost per GB than gp2. [Learn More](#)**

Size (GiB) [Info](#)  
5  
Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

IOPS [Info](#)  
3000  
Min: 3000 IOPS, Max: 16000 IOPS. The value must be an integer.

Throughput (MiB/s) [Info](#)  
125  
Min: 125 MiB, Max: 1000 MiB. Baseline: 125 MiB/s.

Availability Zone [Info](#)  
ap-south-1a

## 35-EBS Volume created by using Snapshot

Volumes (1/3) [Info](#)

[Create volume](#)

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot
<input type="checkbox"/>	-	vol-0ade34dda85f414b2	gp2	8 GiB	100	-	snap-05e04e0...
<input type="checkbox"/>	-	vol-07df2f89432a15c64	gp2	30 GiB	100	-	snap-0e7f315...
<input checked="" type="checkbox"/>	-	vol-032b89ef4cc39b1c0	gp3	5 GiB	3000	125	snap-0a468c0...

**Volume ID: vol-032b89ef4cc39b1c0**

Details	Status checks	Monitoring	Tags
Volume ID vol-032b89ef4cc39b1c0	Size 5 GiB	Type gp3	Volume status <b>Okay</b>
AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations.   <a href="#">Learn more</a>	Volume state <b>Available</b>	IOPS 3000	Throughput 125
Encryption <b>Not encrypted</b>	KMS key ID -	KMS key alias -	KMS key ARN -
Fast snapshot restored <b>No</b>	Snapshot snap-0a468c0b56de17f68	Availability Zone ap-south-1a	Created Thu Apr 25 2024 22:12:02 GMT+0530 (India Standard Time)