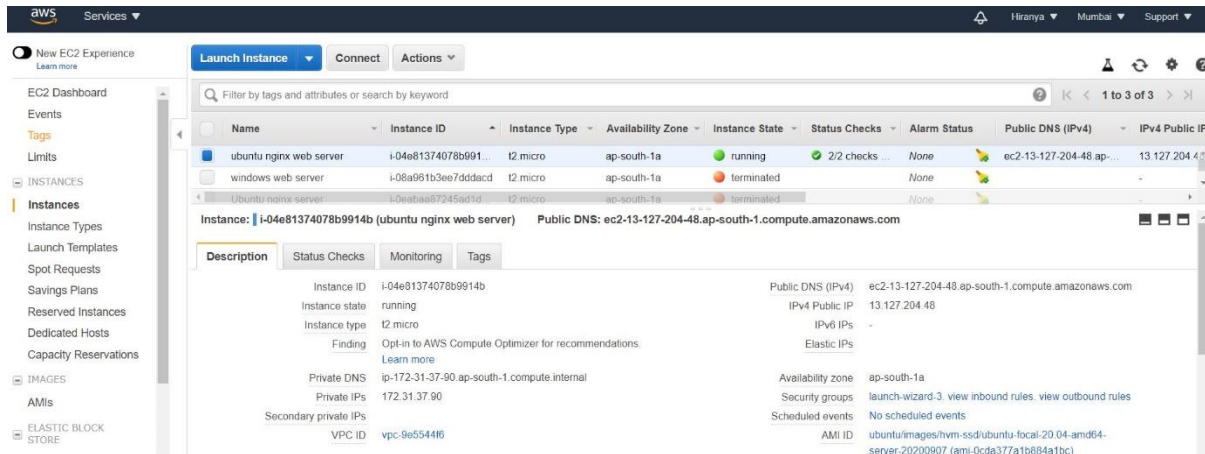
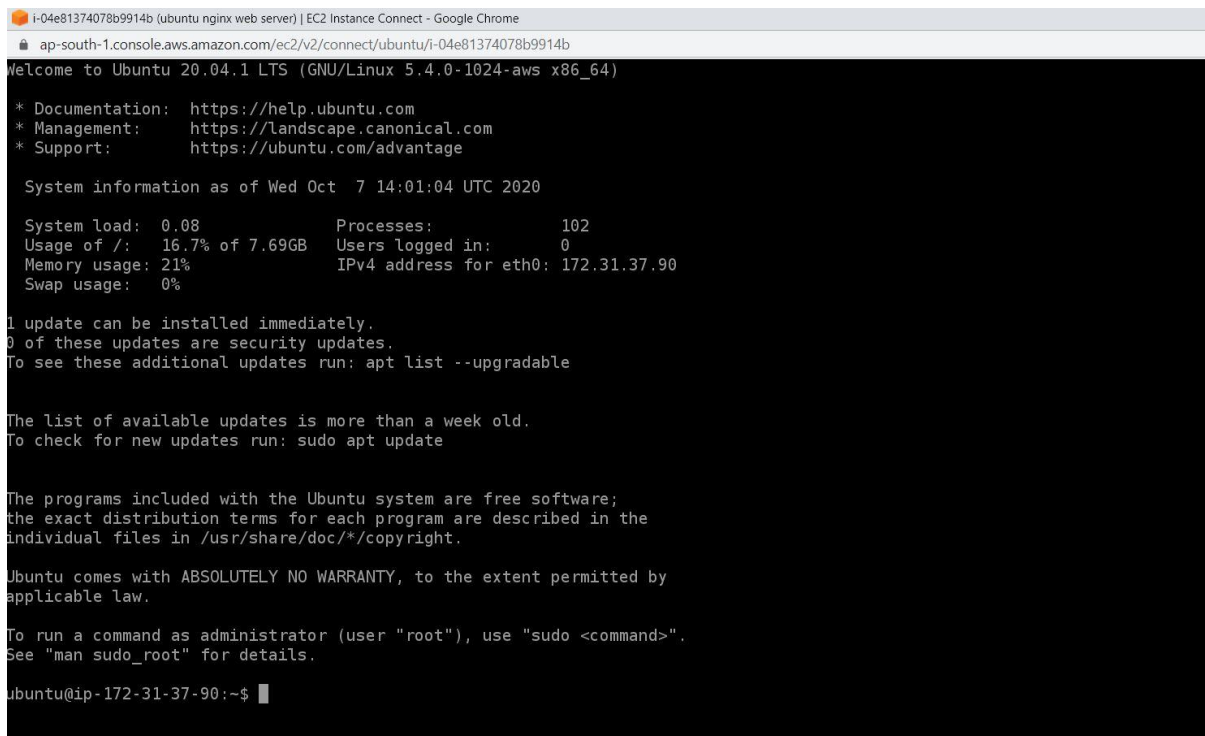


PROJECT 2: Deploying a Web server in Ubuntu 20.04.1 LTS

TASK 1: Creating a Ubuntu instance using AWS console



TASK 2: Launch the Ubuntu instance using SSH



i-04e81374078b9914b (ubuntu nginx web server)

Public IPs: 13.127.204.48 Private IPs: 172.31.37.90

TASK 3: Installing a Nginx web server

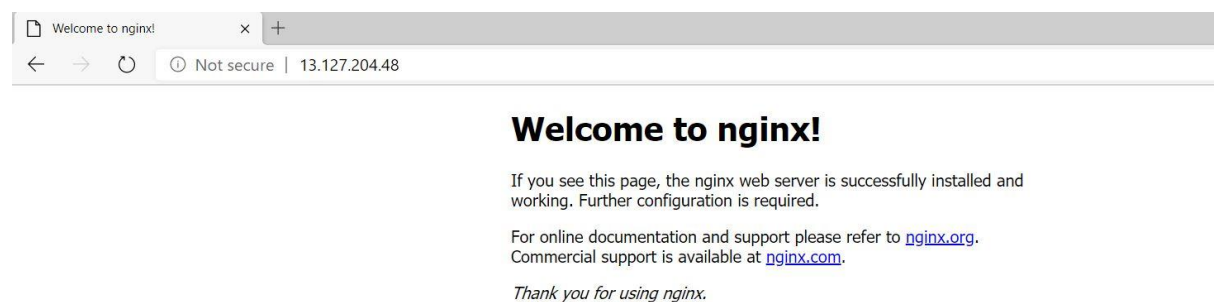
```
i-04e81374078b9914b (ubuntu nginx web server) | EC2 Instance Connect - Google Chrome
ap-south-1.console.aws.amazon.com/ec2/v2/connect/ubuntu/i-04e81374078b9914b

Selecting previously unselected package libnginx-mod-mail.
Preparing to unpack .../13-libnginx-mod-mail_1.18.0-0ubuntu1_amd64.deb ...
Unpacking libnginx-mod-mail (1.18.0-0ubuntu1) ...
Selecting previously unselected package libnginx-mod-stream.
Preparing to unpack .../14-libnginx-mod-stream_1.18.0-0ubuntu1_amd64.deb ...
Unpacking libnginx-mod-stream (1.18.0-0ubuntu1) ...
Selecting previously unselected package nginx-core.
Preparing to unpack .../15-nginx-core_1.18.0-0ubuntu1_amd64.deb ...
Unpacking nginx-core (1.18.0-0ubuntu1) ...
Selecting previously unselected package nginx.
Preparing to unpack .../16-nginx_1.18.0-0ubuntu1_all.deb ...
Unpacking nginx (1.18.0-0ubuntu1) ...
Setting up libxpm4:amd64 (1:3.5.12-1) ...
Setting up nginx-common (1.18.0-0ubuntu1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /lib/systemd/system/nginx.service.
Setting up libjbig0:amd64 (2.1-3.1build1) ...
Setting up libnginx-mod-http-xslt-filter (1.18.0-0ubuntu1) ...
Setting up libwebp6:amd64 (0.6.1-2) ...
Setting up fonts-dejavu-core (2.37-1) ...
Setting up libjpeg-turbo8:amd64 (2.0.3-0ubuntu1.20.04.1) ...
Setting up libjpeg8:amd64 (8c-2ubuntu8) ...
Setting up libnginx-mod-mail (1.18.0-0ubuntu1) ...
Setting up fontconfig-config (2.13.1-2ubuntu3) ...
Setting up libnginx-mod-stream (1.18.0-0ubuntu1) ...
Setting up libtiff5:amd64 (4.1.0+git191117-2build1) ...
Setting up libfontconfig1:amd64 (2.13.1-2ubuntu3) ...
Setting up libgd3:amd64 (2.2.5-5.2ubuntu2) ...
Setting up libnginx-mod-http-image-filter (1.18.0-0ubuntu1) ...
Setting up nginx-core (1.18.0-0ubuntu1) ...
Setting up nginx (1.18.0-0ubuntu1) ...
Processing triggers for ufw (0.36-6) ...
Processing triggers for systemd (245.4-4ubuntu3.2) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9) ...
ubuntu@ip-172-31-37-90:~$
```

i-04e81374078b9914b (ubuntu nginx web server)

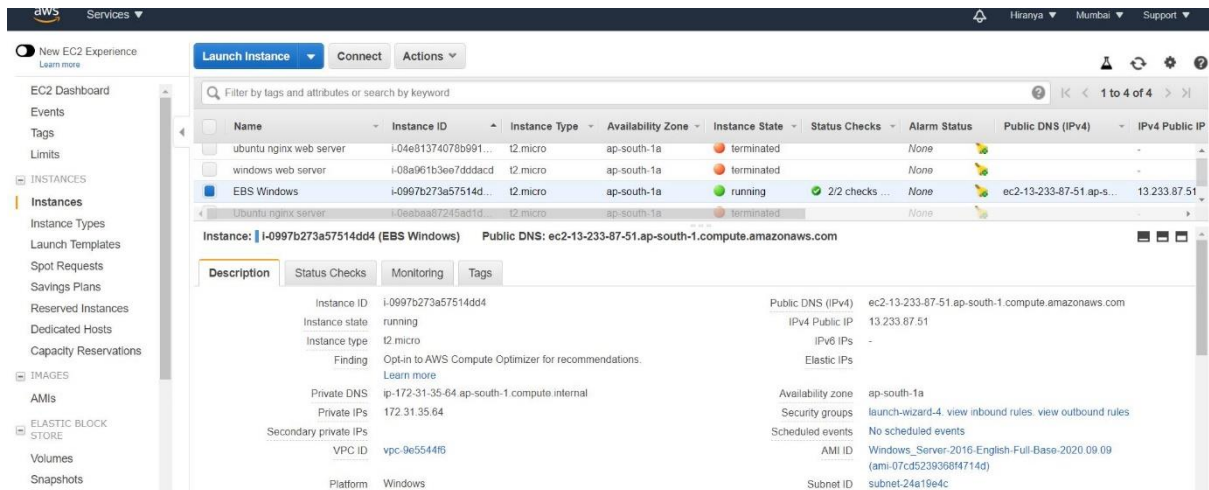
Public IPs: 13.127.204.48 Private IPs: 172.31.37.90

TASK 4: Successful installation of Nginx web server



PROJECT 3: *Deploying a Windows Instance with increasing new volumes*

TASK 1: *Creating a windows instance using AWS console*



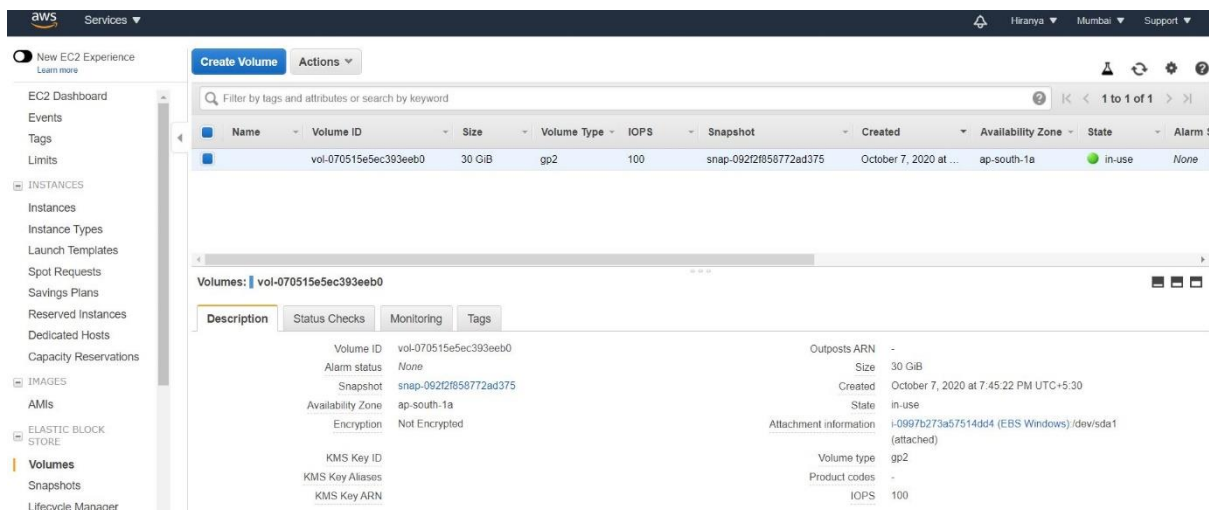
The screenshot shows the AWS Management Console 'Instances' page. The 'EBS Windows' instance is selected, and its details are displayed in the 'Description' tab. The instance is running and has a public IP address of 13.233.87.51.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP
ubuntu nginx web server	i-04e81374078b991...	t2.micro	ap-south-1a	terminated	2/2 checks passed	None	-	-
windows web server	i-08a961b3ae7dddacd	t2.micro	ap-south-1a	terminated	2/2 checks passed	None	-	-
EBS Windows	i-0997b273a57514dd4	t2.micro	ap-south-1a	running	2/2 checks passed	None	ec2-13-233-87-51.ap-s...	13.233.87.51
Ubuntu nginx server	i-0eabaa07245ad1d...	t2.micro	ap-south-1a	terminated	2/2 checks passed	None	-	-

Instance: **i-0997b273a57514dd4 (EBS Windows)** Public DNS: **ec2-13-233-87-51.ap-south-1.compute.amazonaws.com**

Description	
Instance ID	i-0997b273a57514dd4
Instance state	running
Instance type	t2.micro
Finding	Opt-in to AWS Compute Optimizer for recommendations. Learn more
Private DNS	ip-172-31-35-64.ap-south-1.compute.internal
Private IPs	172.31.35.64
Secondary private IPs	-
VPC ID	vpc-9e5544f6
Platform	Windows
Public DNS (IPv4)	ec2-13-233-87-51.ap-south-1.compute.amazonaws.com
IPv4 Public IP	13.233.87.51
IPv6 IPs	-
Elastic IPs	-
Availability zone	ap-south-1a
Security groups	launch-wizard-4 view inbound rules view outbound rules
Scheduled events	No scheduled events
AMI ID	Windows_Server-2016-English-Full-Base-2020.09.09 (ami-07cd5239368f714d)
Subnet ID	subnet-24a19e4c

TASK 2: *Displaying the root volume of the instance in the Console*



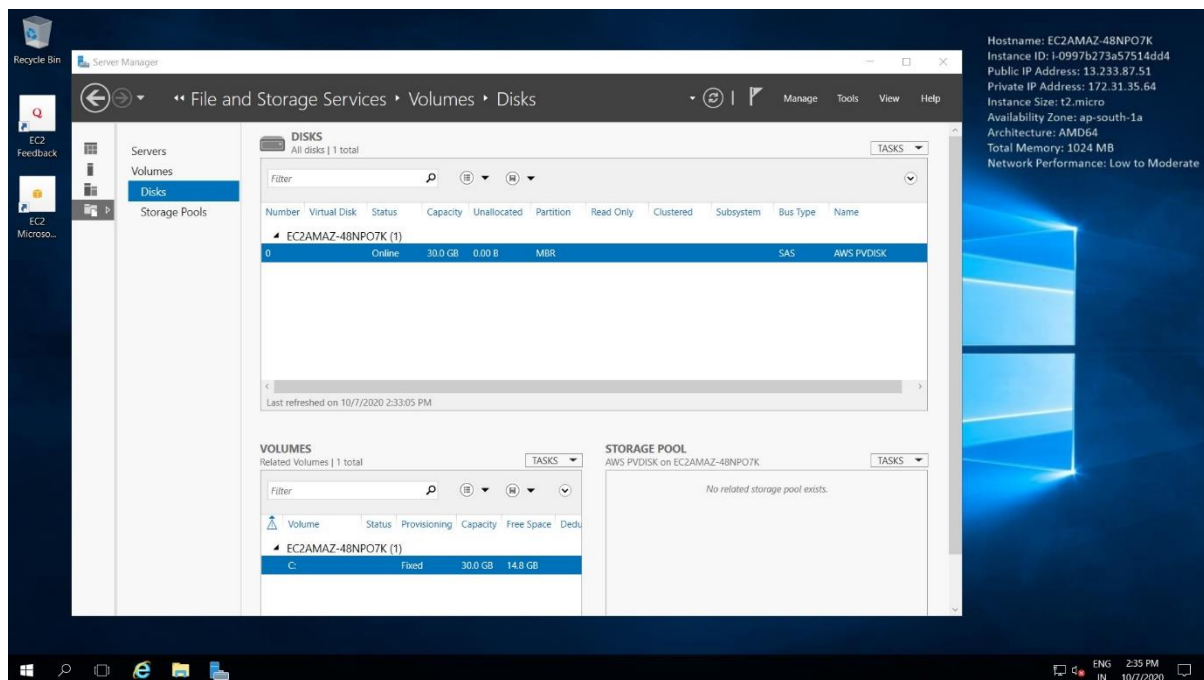
The screenshot shows the AWS Management Console 'Volumes' page. The volume 'vol-070515e5ec393eeb0' is selected, and its details are displayed in the 'Description' tab. The volume is in-use and has a size of 30 GiB.

Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status
vol-070515e5ec393eeb0	vol-070515e5ec393eeb0	30 GiB	gp2	100	snap-092f2f858772ad375	October 7, 2020 at 7:45:22 PM UTC+5:30	ap-south-1a	in-use	None

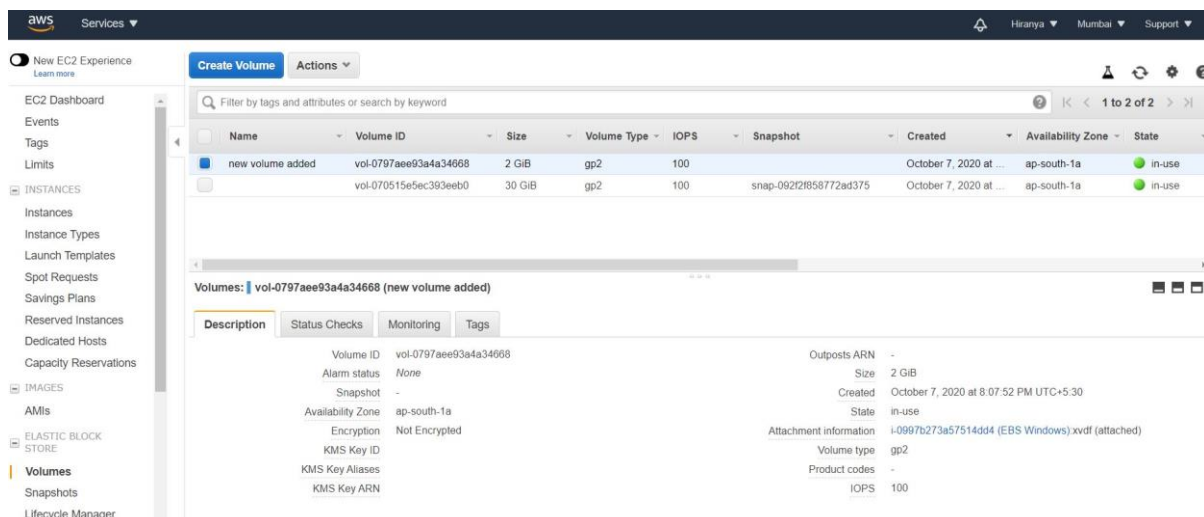
Volumes: **vol-070515e5ec393eeb0**

Description	
Volume ID	vol-070515e5ec393eeb0
Alarm status	None
Snapshot	snap-092f2f858772ad375
Availability Zone	ap-south-1a
Encryption	Not Encrypted
KMS Key ID	-
KMS Key Aliases	-
KMS Key ARN	-
Outposts ARN	-
Size	30 GiB
Created	October 7, 2020 at 7:45:22 PM UTC+5:30
State	in-use
Attachment information	i-0997b273a57514dd4 (EBS Windows)/dev/sda1 (attached)
Volume type	gp2
Product codes	-
IOPS	100

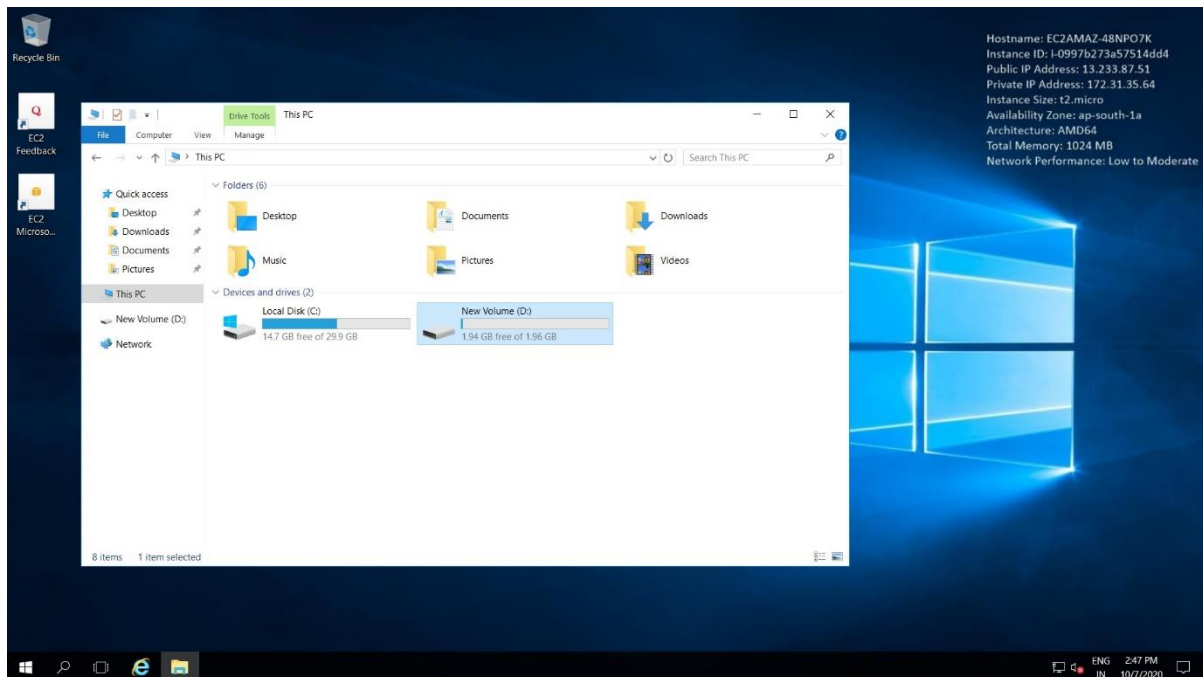
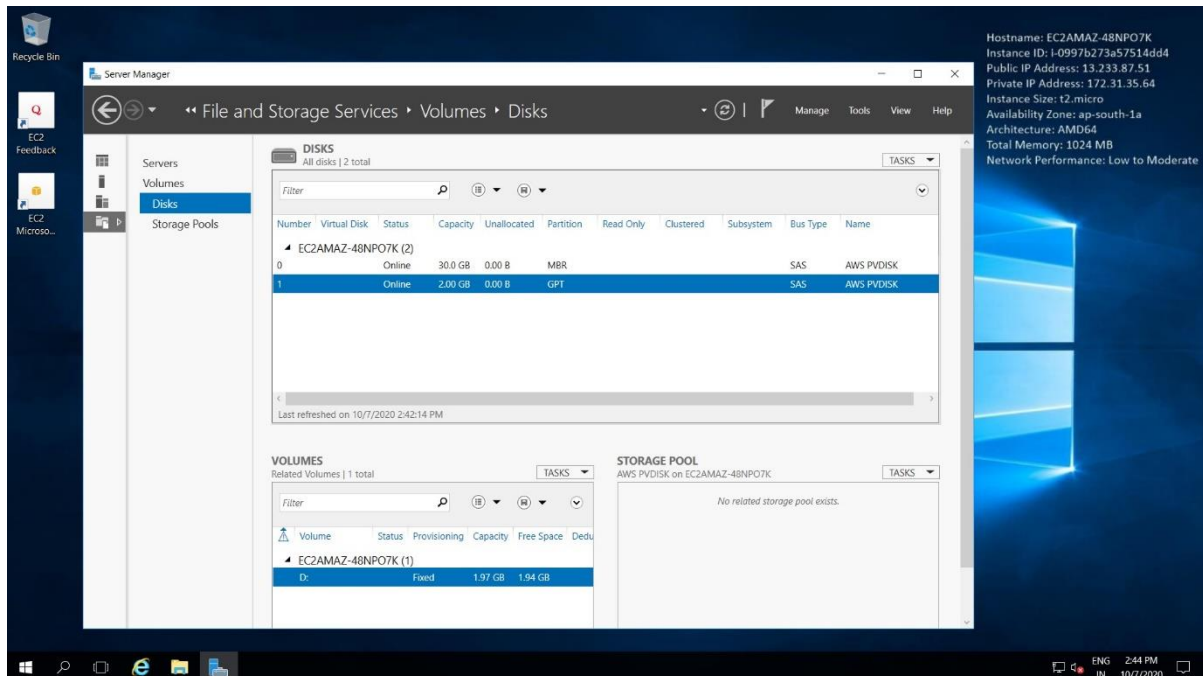
TASK 3: Launch the windows instance displaying the root volume C drive



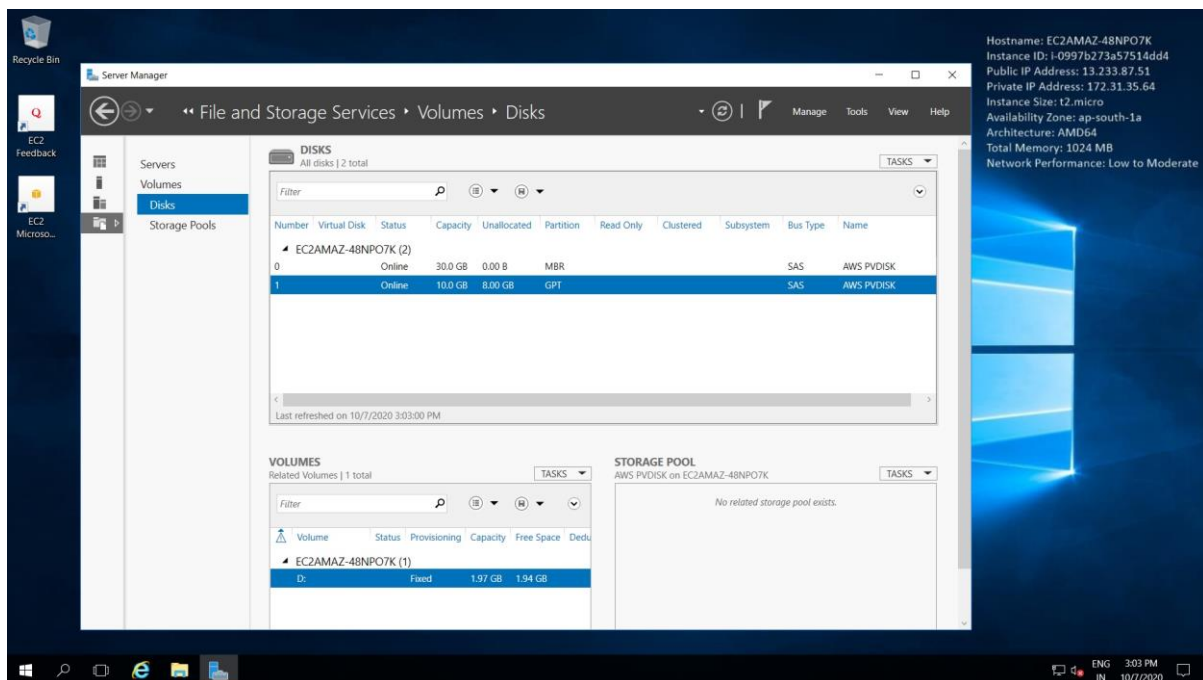
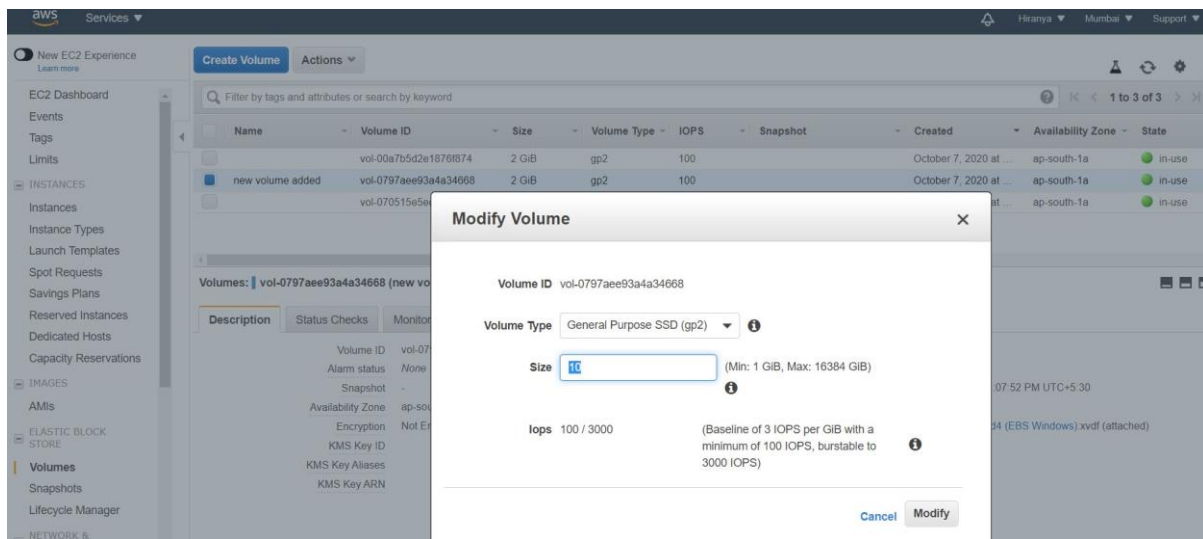
TASK 4: Displaying the new volume added in the console



TASK 5: Displaying a new Disk D drive (2GB) in the instance



TASK 6: Modifying the Volume from 2GB to 10GB



TASK 7: Delete the Volume

