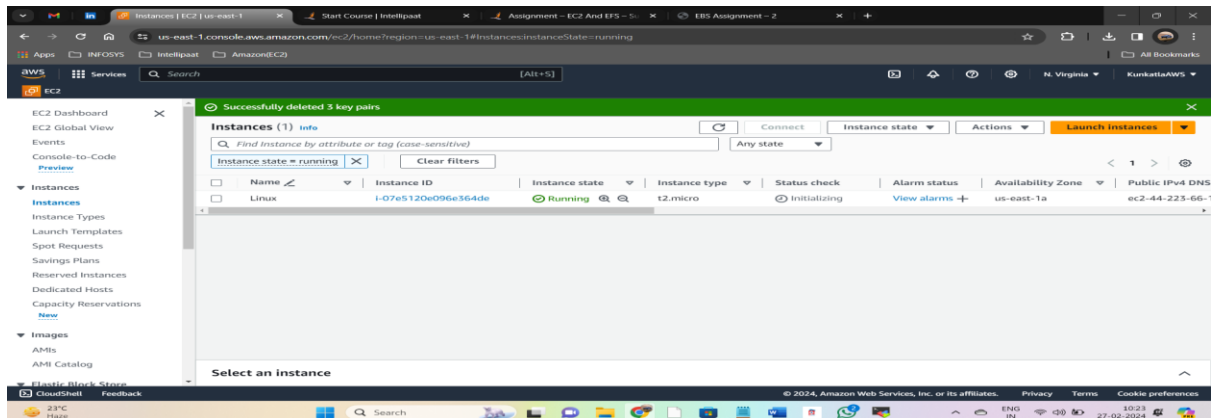
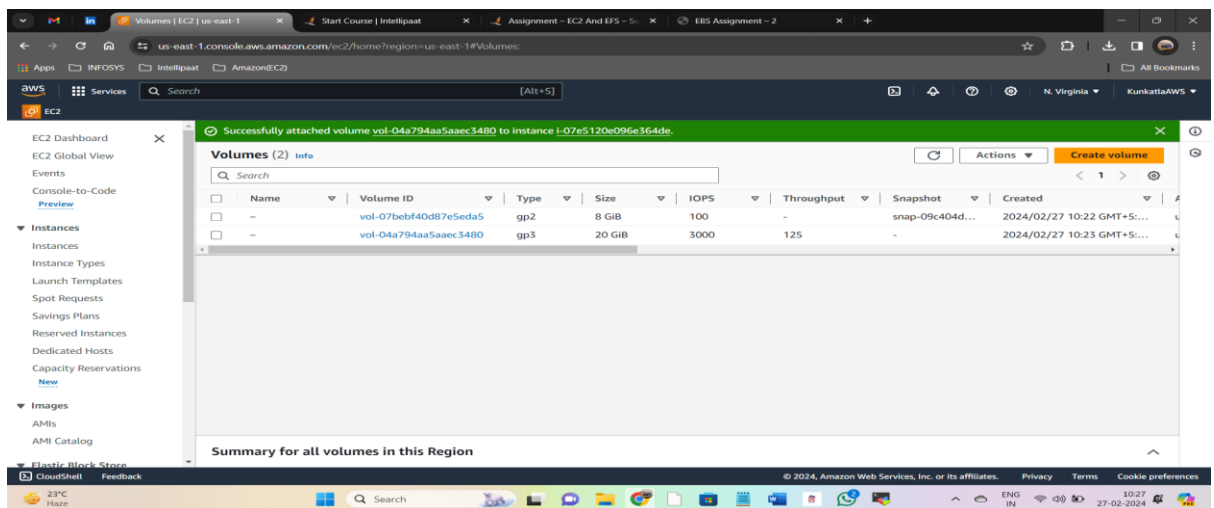


EBS:

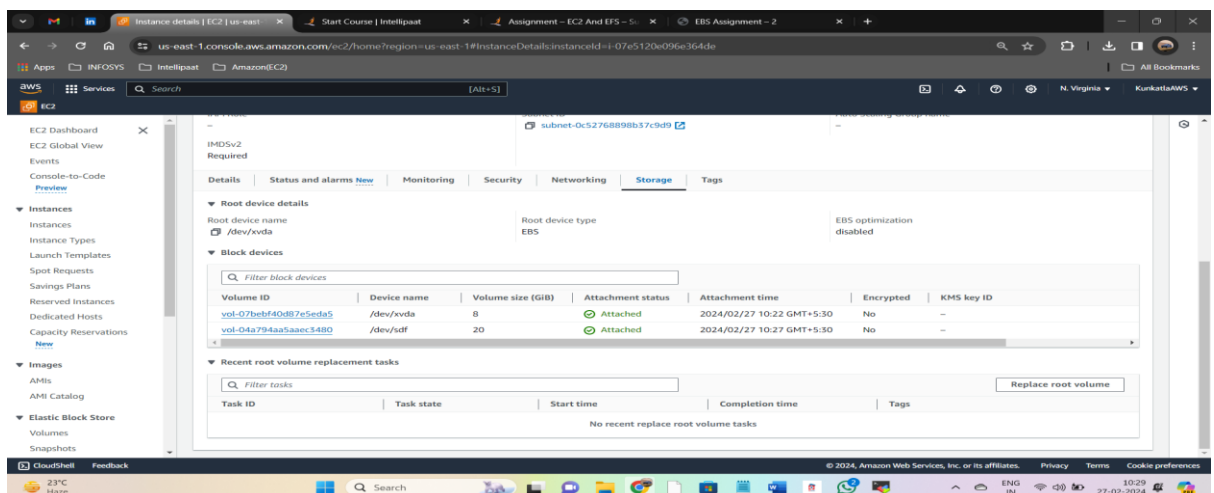
→ Linux Ec2 Instance Creation:



→ Created an EBS volume with 20 GB of storage



→ Attach EBS volume to the created EC2 instance:



➔ Requested volume modification for volume [vol-04a794aa5aaec3480](#):

The screenshot shows the AWS Management Console interface. The main content area displays a modal titled "Requested volume modification for volume vol-04a794aa5aaec3480. The volume is being modified." Below the title, there is a table with the following data:

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone
-	vol-07bebf40d87e5eda5	gp2	8 GiB	100	-	snap-09c404d...	2024/02/27 10:22 GMT+5...	us-east-1a
-	vol-04a794aa5aaec3480	gp3	20 GiB	3000	125	-	2024/02/27 10:23 GMT+5...	us-east-1a

Below the table, there is a section titled "Summary for all volumes in this Region". The left sidebar shows the navigation menu with options like EC2 Dashboard, EC2 Global View, Events, Console-to-Code, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, and Snapshots. The bottom status bar shows the time as 10:33 on 27-02-2024.

➔ Modified Volume 25GB reflects in the Linux Instance:

The screenshot shows the AWS Management Console interface with the EC2 Instance Connect terminal open. The terminal output displays the command `df -h` and its results:

```
[ec2-user@ip-172-31-25-116 ebs]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        468M   0  468M   0% /dev
tmpfs           477M   0  477M   0% /dev/shm
tmpfs           477M 464K  476M   1% /run
tmpfs           477M   0  477M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  1.7G  6.4G  22% /
tmpfs           96M   0   96M   0% /run/user/0
tmpfs           96M   0   96M   0% /run/user/1000
/dev/xvdf       25G  24K  24G   1% /home/ec2-user/ebs
```

Below the terminal output, the instance details are shown, including the instance ID `i-07e5120e096e364de` and the public IP address `44.223.66.173`. The bottom status bar shows the time as 10:47 on 27-02-2024.

EFS:

➔ Amazon Elastic File System (EFS) Creation:

Success! File system (fs-Ode662080a36dc7e6) is available.

Amazon EFS > File systems

File systems (1)

Filter by property values

	Name	File system ID	Encrypted	Total size	Size in Standard	Size in IA	Size in Archive	Provisioned Throughput (MiB/s)
<input type="radio"/>	Test-EFS	fs-Ode662080a36dc7e6	Unencrypted	6.00 KiB	6.00 KiB	0 Bytes	0 Bytes	-

Create file system

➔ Inbound Security group rules successfully modified:

Inbound security group rules successfully modified on security group (sg-0874766cf35a70fee) [default]

Details

sg-0874766cf35a70fee - default

Details

Security group name	sg-0874766cf35a70fee	Description	default VPC security group
Owner	752813920387	Inbound rules count	1 Permission entry
		Outbound rules count	1 Permission entry

Inbound rules

Inbound rules (1)

Search

	Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
<input type="checkbox"/>	-	sg-0853a69c7274f4223	-	All traffic	All	All	sg-0874766cf35a70fee...	-

➔ Multiple EC2 Instances Creation:

Multiple EC2 instances successfully created

Instances (3)

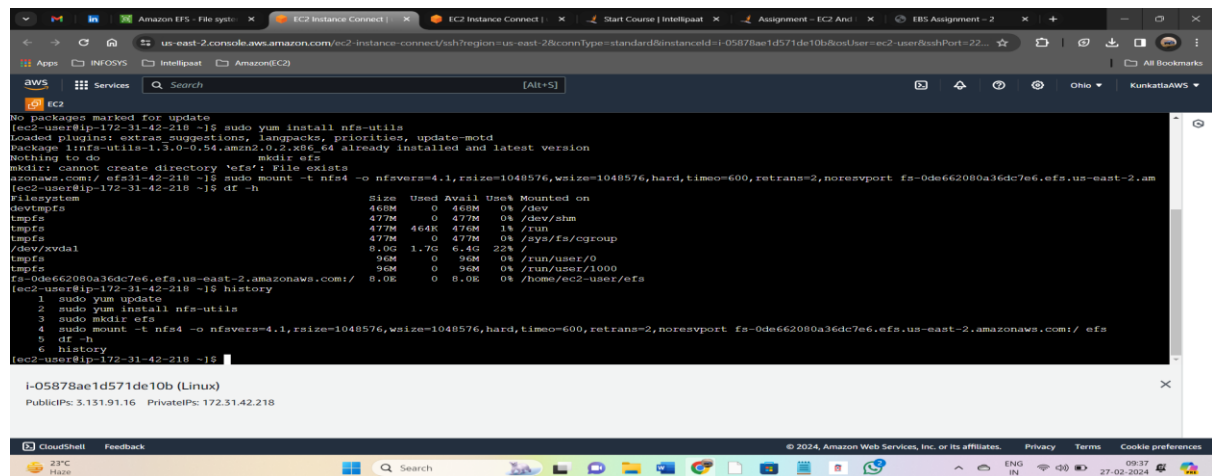
Find Instance by attribute or tag (case-sensitive)

Any state

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
<input type="checkbox"/>	Linux	i-05878ae1d571de10b	Running	t2.micro	2/2 checks passed	View alarms +	us-east-2c	ec2-3-131...
<input type="checkbox"/>	Ubuntu	i-0040d817243530d2a	Running	t2.micro	2/2 checks passed	View alarms +	us-east-2a	ec2-3-128...
<input type="checkbox"/>	Red Hat	i-06afbb072653feff0	Running	t2.micro	2/2 checks passed	View alarms +	us-east-2a	ec2-3-145...

Select an instance

➔ Linux Server mounted with EFS:



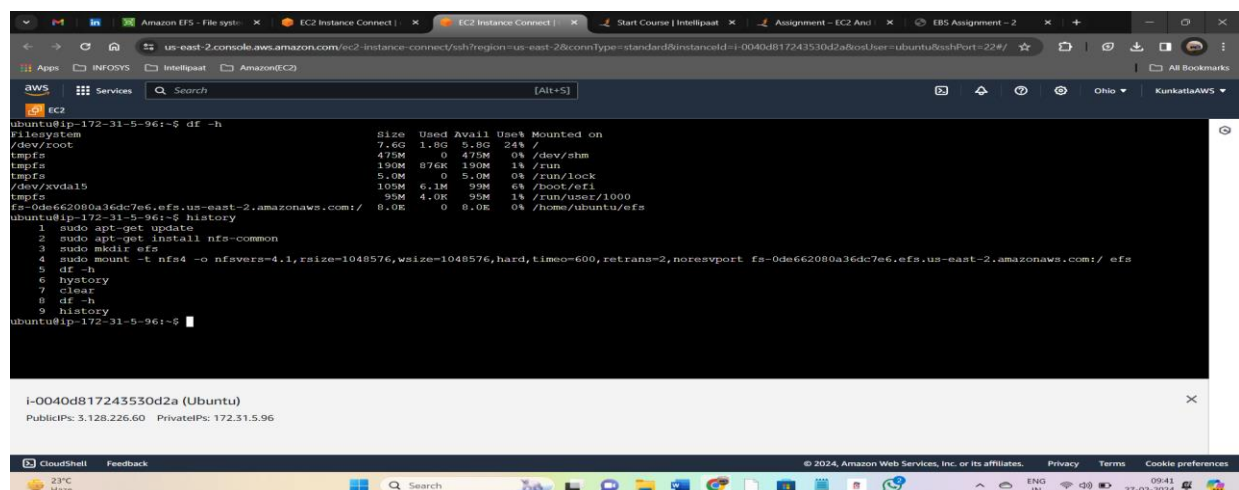
The screenshot shows a terminal window in AWS CloudShell connected to an EC2 instance. The user is performing the following steps:

- Check for updates: `sudo yum update`
- Install nfs-utils: `sudo yum install nfs-utils`
- Check if nfs-utils is already installed: `dpkg-query -f='${Package} ${Version} ${Architecture}\n'`
- Create the directory: `mkdir /efs`
- Mount the EFS file system: `sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-0de662080a36dc7e6.efs.us-east-2.amazonaws.com:/efs /efs`
- Verify the mount: `df -h`

The output of `df -h` shows the following:

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/sda1	460M	0	460M	0%	/dev
tmpfs	477M	0	477M	0%	/dev/shm
tmpfs	477M	464K	476M	1%	/run
tmpfs	477M	0	477M	0%	/sys/fs/cgroup
/dev/xvda1	8.0G	1.7G	6.4G	22%	/
tmpfs	96M	0	96M	0%	/run/user/0
tmpfs	96M	0	96M	0%	/run/user/1000
fs-0de662080a36dc7e6.efs.us-east-2.amazonaws.com:/	8.0G	0	8.0G	0%	/home/ec2-user/efs

➔ Ubuntu server mounted with EFS:



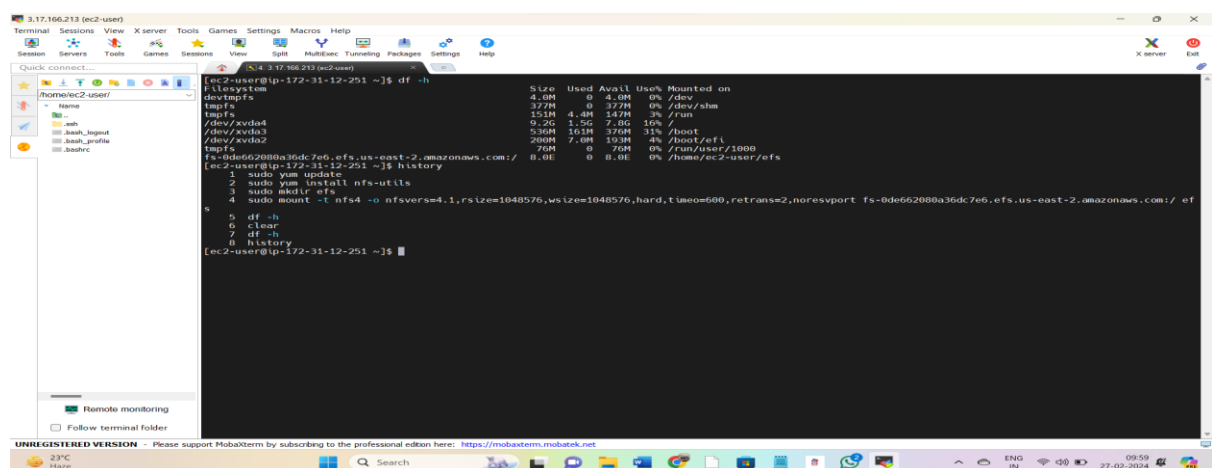
The screenshot shows a terminal window in AWS CloudShell connected to an Ubuntu EC2 instance. The user is performing the following steps:

- Check for updates: `sudo apt-get update`
- Install nfs-common: `sudo apt-get install nfs-common`
- Create the directory: `mkdir /efs`
- Mount the EFS file system: `sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-0de662080a36dc7e6.efs.us-east-2.amazonaws.com:/efs /efs`
- Verify the mount: `df -h`

The output of `df -h` shows the following:

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/sda1	7.6G	1.8G	5.8G	24%	/
tmpfs	475M	0	475M	0%	/dev/shm
tmpfs	190M	876K	190M	1%	/run
tmpfs	5.0M	0	5.0M	0%	/run/lock
/dev/xvda1	100M	6.1M	99M	6%	/boot/efi
tmpfs	95M	4.0K	95M	1%	/run/user/1000
fs-0de662080a36dc7e6.efs.us-east-2.amazonaws.com:/	8.0G	0	8.0G	0%	/home/ubuntu/efs

➔ Red Hat server mounted with EFS:



The screenshot shows a terminal window in AWS CloudShell connected to a Red Hat EC2 instance. The user is performing the following steps:

- Check for updates: `sudo yum update`
- Install nfs-utils: `sudo yum install nfs-utils`
- Create the directory: `mkdir /efs`
- Mount the EFS file system: `sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-0de662080a36dc7e6.efs.us-east-2.amazonaws.com:/efs /efs`
- Verify the mount: `df -h`

The output of `df -h` shows the following:

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/sda1	4.0M	0	4.0M	0%	/dev
tmpfs	377M	0	377M	0%	/dev/shm
tmpfs	151M	4.0M	147M	3%	/run
/dev/xvda4	9.2G	1.5G	7.8G	16%	/
/dev/xvda1	3.0M	101M	376M	31%	/boot
/dev/xvda2	200M	7.0M	193M	4%	/boot/efi
tmpfs	76M	0	76M	0%	/run/user/1000
fs-0de662080a36dc7e6.efs.us-east-2.amazonaws.com:/	8.0G	0	8.0G	0%	/home/ec2-user/efs