

## Assisted Practice: 3.2 Change the Volume Size of an Instance

## **Click on command prompt**

```
ec2-user@ip-172-31-89-130:~  
lines 1-19/19 (END)client_loop: send disconnect: Connection reset  
C:\Users\Akshatha\Downloads>C:\Windows\System32\OpenSSH\ssh.exe -i MYLAB-KEY-PAIR.pem ec2-user@ec2-54-84-30-175.compute-1.amazonaws.com  
#  
# Amazon Linux 2023  
#  
# https://aws.amazon.com/linux/amazon-linux-2023  
#  
#  
#  
# Last login: Wed Jul 26 08:24:36 2023 from 223.186.91.87  
[ec2-user@ip-172-31-89-130 ~]$
```

df-h

```
ec2-user@ip-172-31-89-130:~  
lines 1-19/19 (END) [client_loop: send disconnect: Connection reset  
C:\Users\Akshatha\Downloads>C:\Windows\System32\OpenSSH\ssh.exe -i MYLAB-KEY-PAIR.pem ec2-user@ec2-54-84-30-175.compute-1.amazonaws.com  
,----#  
~~~ \### Amazon Linux 2023  
~~~ \###|  
~~~ \#/ https://aws.amazon.com/linux/amazon-linux-2023  
~~~ \~/-->  
~~~ /  
~~~ /m/  
Last login: Wed Jul 26 08:24:36 2023 from 223.186.91.87  
[ec2-user@ip-172-31-89-130 ~]$ df -h  
Filesystem Size Used Avail Use% Mounted on  
devtmpfs 4.0M 0 4.0M 0% /dev  
tmpfs 475M 0 475M 0% /dev/shm  
tmpfs 190M 2.8M 188M 2% /run  
/dev/xvda1 8.0G 1.6G 6.5G 20% /  
tmpfs 475M 0 475M 0% /tmp  
tmpfs 95M 0 95M 0% /run/user/1000  
[ec2-user@ip-172-31-89-130 ~]$
```

**Currently storage 8gb ram**

```
gn Select ec2-user@ip-172-31-89-130~  
lines 1-19/19 (END)client_loop: send disconnect: Connection reset  
C:\Users\Akshatha\Downloads>C:\Windows\System32\OpenSSH\ssh.exe -i MYLAB-KEY-PAIR.pem ec2-user@ec2-54-84-30-175.compute-1.amazonaws.com  
#  
Amazon Linux 2023  
https://aws.amazon.com/linux/amazon-linux-2023  
Last login: Wed Jul 26 08:24:36 2023 from 223.186.91.87  
[ec2-user@ip-172-31-89-130 ~]$ df -h  
Filesystem      Size  Used Avail Use% Mounted on  
devtmpfs        4.0M   0  4.0M  0% /dev  
tmpfs          475M   0  475M  0% /dev/shm  
tmpfs          190M  2.8M 188M  2% /run  
/dev/xvda1       8.0G  1.6G  6.5G 20% /  
tmpfs          475M   0  475M  0% /tmp  
tmpfs          95M   0   95M  0% /run/user/1000  
[ec2-user@ip-172-31-89-130 ~]$
```

## Now creating new volume existing instance

Click on volume

Screenshot of the AWS EC2 Management Console showing the Instances page.

The left sidebar shows the navigation menu:

- Reserved Instances
- Dedicated Hosts
- Scheduled Instances
- Capacity Reservations
- Images
  - AMIs
  - AMI Catalog
- Elastic Block Store
  - Volumes
  - Snapshots
  - Lifecycle Manager
- Network & Security
  - Security Groups
  - Elastic IPs
  - Placement Groups

The main content area displays the "Instances (1) Info" table:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
MYLABEC2-1	i-0d3b678d2de02dd88	Running	t2.micro	2/2 checks passed	No alarms	us-east-1c

A modal window titled "Select an instance" is open, showing the same table data.

Below the table, the URL is https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Volumes:.

The taskbar at the bottom shows the Windows Start button, a search bar, and various pinned icons.

Screenshot of the AWS EC2 Management Console showing the Instance details page for i-0d3b678d2de02dd88 (MYLABEC2-1).

The left sidebar shows the navigation menu, with "Instances" selected.

The main content area displays the "Instance: i-0d3b678d2de02dd88 (MYLABEC2-1)" details:

Storage tab is selected.

Root device details:

Root device name	/dev/xvda	Root device type	EBS
		EBS optimization disabled	

Block devices section is collapsed.

The taskbar at the bottom shows the Windows Start button, a search bar, and various pinned icons.

Volumes (1) info

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
-	vol-052ff63668df32045	gp3	8 GiB	3000	125	snap-03d6eeb...	2023/07

Select a volume above

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Click on check box

Volumes (1/1) info

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Create
-	vol-052ff63668df32045	gp3	8 GiB	3000	125	snap-03d6eeb...	2023/

Volume ID: vol-052ff63668df32045

Details		Status checks	Monitoring	Tags			
Volume ID	vol-052ff63668df32045	Size	8 GiB	Type	gp3	Volume status	Okay
AWS Compute Optimizer finding	<a href="#">Opt-in to AWS Compute Optimizer for recommendations.</a>	Volume state	<span>Green</span> In-use	IOPS	3000	Throughput	125

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Currently only one volume we need to add another volume in this instance

Click on create volume

The screenshot shows the AWS EC2 Management Console with the Volumes page open. The sidebar on the left includes sections for Dedicated Hosts, Scheduled Instances, Capacity Reservations, Images (AMIs, AMI Catalog), Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), and Network & Security (Security Groups, Elastic IPs, Placement Groups, Key Pairs). The main content area displays a table titled 'Volumes (1/1) Info' with one item. The volume details are as follows:

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Create
-	vol-052ff63668df32045	gp3	8 GiB	3000	125	snap-03d6eeb...	2023/

Below the table, a detailed view for 'Volume ID: vol-052ff63668df32045' is shown. The 'Details' tab is selected, displaying the following information:

Volume ID	Size	Type	Volume status
vol-052ff63668df32045	8 GiB	gp3	Okay
AWS Compute Optimizer finding	Volume state	IOPS	Throughput
Opt-in to AWS Compute Optimizer for recommendations.   Learn more	In-use	3000	125

The bottom of the screen shows the Windows taskbar with various pinned icons and system status.

## After clicking create volume

The screenshot shows the 'Create volume' wizard in the AWS EC2 Management Console. The first step, 'Volume settings', is displayed. The configuration is as follows:

- Volume type: General Purpose SSD (gp2)
- Size (GiB): 100
- IOPS: 300 / 3000

The wizard instructions state: "Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone." The bottom of the screen shows the Windows taskbar with various pinned icons and system status.

The screenshot shows the AWS EC2 Management Console with the URL <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateVolume>. The page is titled "Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone." It displays the "Volume settings" configuration screen.

**Volume type:** General Purpose SSD (gp3)

**Size (GiB):** 15

**IOPS:** 3000

**Throughput (MiB/s):** 125

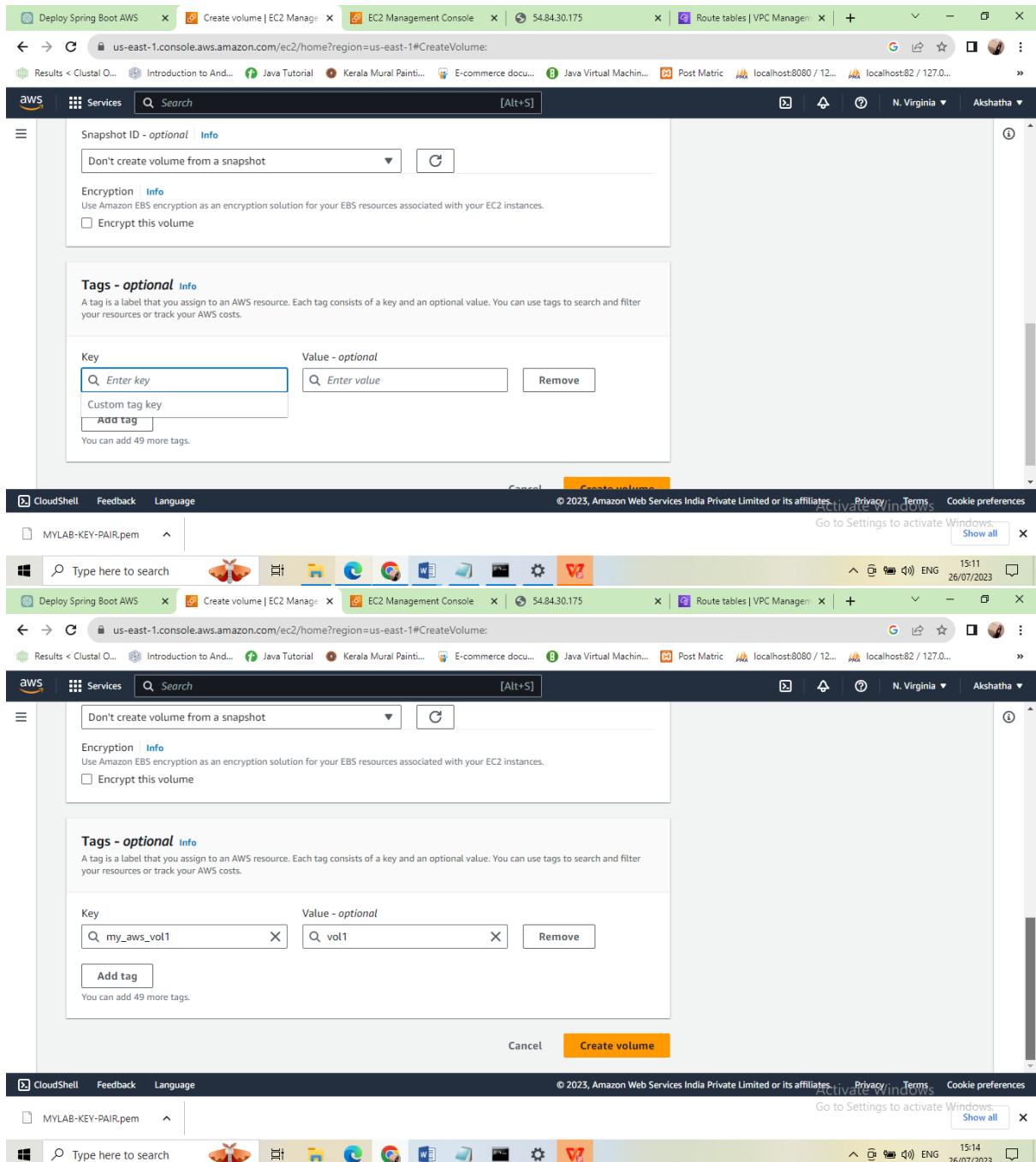
**Availability Zone:** us-east-1a

**Snapshot ID - optional:** Don't create volume from a snapshot

**Encryption:** Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.  Encrypt this volume

**Tags - optional:** A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Click on tags



After click create volume

The screenshot shows the AWS EC2 Management Console with the URL <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Volumes>. The browser tab title is "Volumes | EC2 Management". The main content area displays a table titled "Volumes (2) Info" with two rows of volume information:

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Create
-	vol-0c845a609280f676d	gp3	15 GiB	3000	125	-	2023/
-	vol-052ff63668df32045	gp3	8 GiB	3000	125	snap-03d6eeb...	2023/

A success message at the top says "Successfully created volume vol-0c845a609280f676d.". Below the table, there is a note: "Select a volume above". The left sidebar shows the "Instances" section with various sub-options like Instances, Instance Types, Launch Templates, etc.

The screenshot shows the AWS EC2 Management Console with the URL <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Volumes>. The browser tab title is "Volumes | EC2 Management". The main content area displays a table titled "Volumes (1/2) Info" with two rows of volume information:

Availability Zone	Volume state	Alarm status	Attached Instances	Volume sta...	Encryption
GMT+5:...	Creating	No alarms	+	-	Okay Not encrypted
GMT+5:...	In-use	No alarms	+	i-0d3b678d2de02dd88 (M...)	Okay Not encrypted

A success message at the top says "Successfully created volume vol-0ed7d6daff5bc6c05.". Below the table, there is a note: "Volume ID: vol-0ed7d6daff5bc6c05". The details tab is selected, showing volume information: Volume ID: vol-0ed7d6daff5bc6c05, Size: 15 GiB, Type: gp3, Volume status: Okay, Throughput: 125. The left sidebar shows the "Instances" section with various sub-options like Instances, Instance Types, Launch Templates, etc.

The screenshot shows the AWS EC2 Management Console with the 'Volumes' page open. A success message at the top says 'Successfully created volume vol-0c845a609280f676d.' Below this is a table titled 'Volumes (1/2) Info' showing one volume entry:

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Create
-	vol-0c845a609280f676d	gp3	15 GiB	3000	125	-	2023/

Below the table, a detailed view for 'Volume ID: vol-0c845a609280f676d' is shown:

Volume ID vol-0c845a609280f676d	Size 15 GiB	Type gp3	Volume status Okay
AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations.   Learn more	Volume state Available	IOPS 3000	Throughput 125
Encryption Not encrypted	KMS key ID	KMS key alias	KMS key ARN

At the bottom of the page, there are links for CloudShell, Feedback, Language, Privacy, Terms, and Cookie preferences.

The second screenshot is identical to the first, showing the same successful volume creation message and table. It also includes the detailed view for the volume.

The third screenshot is identical to the others, showing the successful volume creation message and table. It also includes the detailed view for the volume.

Now attach to volume

The screenshot shows the AWS EC2 Management Console with the 'Volumes' page open. A success message at the top says 'Successfully created volume vol-0c845a609280f676d.' The main table lists one volume: 'snap-03d6eef...' (Created: 2023/07/26 10:40 GMT+5:30, Availability Zone: us-east-1c, Volume state: In-use). The 'Actions' menu on the right is expanded, with 'Attach volume' highlighted.

Here attaching ec2 already existing instance

The screenshot shows the 'Attach volume' wizard. The left sidebar shows the navigation path: EC2 > Volumes > vol-0c845a609280f676d > Attach volume. The main area is titled 'Attach volume' and contains a 'Basic details' section. It shows the Volume ID as 'vol-0c845a609280f676d' and the Availability Zone as 'us-east-1a'. The 'Instance' dropdown is populated with instances from the same availability zone. A note below the dropdown states: 'Only instances in the same Availability Zone as the selected volume are displayed.' To the right, there is explanatory text about attaching EBS volumes to instances and a step-by-step guide for selecting an instance.

Always check with availabilty zone if its different shown any existing instance

The screenshot shows a Windows desktop environment with several open windows. At the top, there are multiple browser tabs, including ChatGPT, Attach volume | EC2 Manager, Attach volume | EC2 Manager, 54.84.30.175, Route tables | VPC Manager, and others. Below the tabs, the taskbar displays icons for File Explorer, Edge, Google Chrome, Microsoft Word, Microsoft Excel, and others. A tooltip message from the system tray says "Go to Settings to activate Windows". In the center, a large window is open to the AWS Management Console, specifically the EC2 service. The page shows the "Basic details" for a volume named "vol-0d5bad721b8ab5c14". It lists the Volume ID, Availability Zone (us-east-1c), and the attached instance (i-0d3b678d2de02dd88). The device name is set to "/dev/sdf". A note indicates that newer Linux kernels may rename devices to /dev/xvdf or /dev/xvdp internally. At the bottom right of this window, there is a prominent orange "Attach volume" button. The status bar at the bottom of the screen shows the date and time as 26/07/2023 15:48.

Now click on attach volume

The screenshot shows the AWS CloudShell interface. At the top, there are several tabs: ChatGPT, Attach volume | EC2 Manager, Volumes | EC2 Management, 54.84.30.175, Route tables | VPC Manager, and another tab that is partially visible. Below the tabs, the URL is [us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Volumes](https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Volumes). The main content area displays a success message: "Successfully attached volume vol-0d5bad721b8ab5c14 to instance i-0d3b678d2de02dd88." A table titled "Volumes (2) Info" lists two volumes:

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Create
-	vol-052ff63668df32045	gp3	8 GiB	3000	125	snap-03d6eeb...	2023/
-	vol-0d5bad721b8ab5c14	gp3	15 GiB	3000	125	-	2023/

Below the table, a message says "Select a volume above". The bottom of the screen shows the Windows taskbar with icons for File Explorer, Edge, Google Chrome, Word, Excel, and others. The system tray shows the date and time as 26/07/2023 at 15:51.

## Now attached to existing instance

The screenshot shows the AWS CloudShell interface. At the top, there are several tabs: ChatGPT, Attach volume | EC2 Manager, Volumes | EC2 Management, 54.84.30.175, Route tables | VPC Manager, and another tab that is partially visible. Below the tabs, the URL is [us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Volumes](https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Volumes). The main content area displays a success message: "Successfully attached volume vol-0d5bad721b8ab5c14 to instance i-0d3b678d2de02dd88." A table titled "Volumes (1/2) Info" lists one volume:

Availability Zone	Volume state	Alarm status	Attached Instances	Volume sta...	Encryption	KMS key
us-east-1c	In-use	No alarms	+ i-0d3b678d2de02dd88 (M...)	Okay	Not encrypted	-
us-east-1c	In-use	No alarms	+ i-0d3b678d2de02dd88 (M...)	Insufficient data	Not encrypted	-

Below the table, a message says "Volume ID: vol-0d5bad721b8ab5c14". A details card provides more information about the volume:

Volume ID	vol-0d5bad721b8ab5c14	Size	15 GiB	Type	gp3	Volume status	Insufficient data
AWS Compute Optimizer finding	<a href="#">Opt-in to AWS Compute Optimizer for recommendations</a>   Learn more	Volume state	In-use	IOPS	3000	Throughput	125

The bottom of the screen shows the Windows taskbar with icons for File Explorer, Edge, Google Chrome, Word, Excel, and others. The system tray shows the date and time as 26/07/2023 at 15:51.

## Now check with the instance

Instances (1/1) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
MYLABEC2-1	i-0d3b678d2de02dd88	Running	t2.micro	2/2 checks passed	No alarms	us-east-1c

Instance: i-0d3b678d2de02dd88 (MYLABEC2-1)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0d3b678d2de02dd88 (MYLABEC2-1)	54.84.30.175   open address	172.31.89.130

Click on storage

Instances (1/1) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
MYLABEC2-1	i-0d3b678d2de02dd88	Running	t2.micro	2/2 checks passed	No alarms	us-east-1c

Instance: i-0d3b678d2de02dd88 (MYLABEC2-1)

Details Security Networking Storage Status checks Monitoring Tags

Storage

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	K
vol-052ff63668df32045	/dev/xvda	8	Attached	2023/07/26 10:40 GMT+5:30	No	-
vol-0d5bad721b8ab5c14	/dev/sdf	15	Attached	2023/07/26 15:51 GMT+5:30	No	-

Extra volume is created

Now check with command prompt

df -h

```
ec2-user@ip-172-31-89-130:~
```

```
C:\Users\Akshatha\Downloads>C:\Windows\System32\OpenSSH\ssh.exe -i MYLAB-KEY-PAIR.pem ec2-user@ec2-54-84-30-175.compute-1.amazonaws.com
```

```
#
```

```
Amazon Linux 2023
```

```
\###
```

```
\###
```

```
\# https://aws.amazon.com/linux/amazon-linux-2023
```

```
/
```

```
/
```

```
/m/
```

```
Last login: Wed Jul 26 09:32:04 2023 from 223.186.91.87
```

```
[ec2-user@ip-172-31-89-130 ~]$ df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
devtmpfs	4.0M	0	4.0M	0%	/dev
tmpfs	475M	0	475M	0%	/dev/shm
tmpfs	190M	2.9M	188M	2%	/run
/dev/xvda1	8.0G	1.6G	6.5G	20%	/
tmpfs	475M	0	475M	0%	/tmp
tmpfs	95M	0	95M	0%	/run/user/1000

```
[ec2-user@ip-172-31-89-130 ~]$ client_loop: send disconnect: Connection reset
```

```
C:\Users\Akshatha\Downloads>C:\Windows\System32\OpenSSH\ssh.exe -i MYLAB-KEY-PAIR.pem ec2-user@ec2-54-84-30-175.compute-1.amazonaws.com
```

```
#
```

```
Amazon Linux 2023
```

```
\###
```

```
\###
```

```
\# https://aws.amazon.com/linux/amazon-linux-2023
```

```
/
```

```
/
```

```
/m/
```

```
Last login: Wed Jul 26 10:04:19 2023 from 223.186.91.87
```

```
[ec2-user@ip-172-31-89-130 ~]$ df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
devtmpfs	4.0M	0	4.0M	0%	/dev
tmpfs	475M	0	475M	0%	/dev/shm
tmpfs	190M	2.9M	188M	2%	/run
/dev/xvda1	8.0G	1.6G	6.5G	20%	/
tmpfs	475M	0	475M	0%	/tmp
tmpfs	95M	0	95M	0%	/run/user/1000

```
[ec2-user@ip-172-31-89-130 ~]$
```



Activate Windows  
Go to Settings to activate Windows.

15:56 26/07/2023

Use command in

Clear

```
ec2-user@ip-172-31-89-130:~
```

```
[ec2-user@ip-172-31-89-130 ~]$ ls /dev/sdf
```

```
/dev/sdf
```

```
[ec2-user@ip-172-31-89-130 ~]$
```



Activate Windows  
Go to Settings to activate Windows.

15:57 26/07/2023

Is anything type wrong its not showed ls /dev/saaaaa

```
ec2-user@ip-172-31-89-130:~]$ ls /dev/sdf
/dev/sdf
[ec2-user@ip-172-31-89-130 ~]$ ls /dev/saaaaaa
ls: cannot access '/dev/saaaaaa': No such file or directory
[ec2-user@ip-172-31-89-130 ~]$
```

Activate Windows  
Go to Settings to activate Windows.



Is /dev/sdf if file attachec its showing like this

```
ec2-user@ip-172-31-89-130:~]$ ls /dev/sdf
/dev/sdf
[ec2-user@ip-172-31-89-130 ~]$ ls /dev/saaaaaa
ls: cannot access '/dev/saaaaaa': No such file or directory
[ec2-user@ip-172-31-89-130 ~]$ ls /dev/sdf
/dev/sdf
[ec2-user@ip-172-31-89-130 ~]$
```

Activate Windows  
Go to Settings to activate Windows.



df -h /dev/sdf

```
ec2-user@ip-172-31-89-130:~]$ ls /dev/sdf
/dev/sdf
[ec2-user@ip-172-31-89-130 ~]$ ls /dev/saaaaa
ls: cannot access '/dev/saaaaa': No such file or directory
[ec2-user@ip-172-31-89-130 ~]$ ls /dev/sdf
/dev/sdf
[ec2-user@ip-172-31-89-130 ~]$ df -h /dev/sdf
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M     0  4.0M   0% /dev
[ec2-user@ip-172-31-89-130 ~]$
```

Activate Windows  
Go to Settings to activate Windows.

```
lsblk
```

```
ec2-user@ip-172-31-89-130:~]$ ls /dev/sdf
/dev/sdf
[ec2-user@ip-172-31-89-130 ~]$ ls /dev/saaaaa
ls: cannot access '/dev/saaaaa': No such file or directory
[ec2-user@ip-172-31-89-130 ~]$ ls /dev/sdf
/dev/sdf
[ec2-user@ip-172-31-89-130 ~]$ df -h /dev/sdf
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M     0  4.0M   0% /dev
[ec2-user@ip-172-31-89-130 ~]$ lsblk
NAME   MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
xvda    202:0    0   8G  0 disk
└─xvda1    202:1    0   8G  0 part /
└─xvda17  259:0    0   1M  0 part
└─xvda18  259:1    0  10M  0 part
xvdf    202:80   0   15G  0 disk
[ec2-user@ip-172-31-89-130 ~]$
```

Activate Windows  
Go to Settings to activate Windows.

Here newly created

```
 [ec2-user@ip-172-31-89-130 ~]$ ls /dev/sdf
 /dev/sdf
[ec2-user@ip-172-31-89-130 ~]$ ls /dev/saaaaa
ls: cannot access '/dev/saaaaa': No such file or directory
[ec2-user@ip-172-31-89-130 ~]$ ls /dev/sdf
 /dev/sdf
[ec2-user@ip-172-31-89-130 ~]$ df -h /dev/sdf
Filesystem      Size  Used Avail Use% Mounted on
/devtmpfs       4.0M   0    4.0M  0% /dev
[ec2-user@ip-172-31-89-130 ~]$ lsblk
NAME   MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
xvda    202:0    0   8G  0 disk
└─xvda1   202:1    0   8G  0 part /
└─xvda127 259:0    0   1M  0 part
└─xvda128 259:1    0  10M  0 part
xvdf    202:80   0  15G  0 disk
[ec2-user@ip-172-31-89-130 ~]$
```

Here the output

```
 [ec2-user@ip-172-31-89-130 ~]$ ls /dev/sdf
 /dev/sdf
[ec2-user@ip-172-31-89-130 ~]$ ls /dev/saaaaa
ls: cannot access '/dev/saaaaa': No such file or directory
[ec2-user@ip-172-31-89-130 ~]$ ls /dev/sdf
 /dev/sdf
[ec2-user@ip-172-31-89-130 ~]$ df -h /dev/sdf
Filesystem      Size  Used Avail Use% Mounted on
/devtmpfs       4.0M   0    4.0M  0% /dev
[ec2-user@ip-172-31-89-130 ~]$ lsblk
NAME   MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
xvda    202:0    0   8G  0 disk
└─xvda1   202:1    0   8G  0 part /
└─xvda127 259:0    0   1M  0 part
└─xvda128 259:1    0  10M  0 part
xvdf    202:80   0  15G  0 disk
[ec2-user@ip-172-31-89-130 ~]$ mkfs -t ext4 /dev/xvdf
```

mkfs -t ext4 /dev/xvdf formatting disk we are using this command

```
[ec2-user@ip-172-31-89-130:~]$ ls /dev/sdf
[ec2-user@ip-172-31-89-130:~]$ ls /dev/saaaaa
ls: cannot access '/dev/saaaaa': No such file or directory
[ec2-user@ip-172-31-89-130:~]$ ls /dev/sdf
[ec2-user@ip-172-31-89-130:~]$ df -h /dev/sdf
Filesystem      Size  Used Avail Use% Mounted on
/devtmpfs       4.0M   0  4.0M  0% /dev
[ec2-user@ip-172-31-89-130:~]$ lsblk
NAME   MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
xvda    202:0    0  8G  0 disk
└─xvda1  202:1    0  8G  0 part /
└─xvda127 259:0    0  1M  0 part
└─xvda128 259:1    0 10M  0 part
xvdf    202:80   0 15G  0 disk
[ec2-user@ip-172-31-89-130:~]$ mkfs -t ext4 /dev/xvdf
[ec2-user@ip-172-31-89-130:~]$
```

```
sudo mkdir /newvolume
[ec2-user@ip-172-31-89-130:~] ls /dev/sdf
[ec2-user@ip-172-31-89-130:~] ls /dev/saaaaa
ls: cannot access '/dev/saaaaa': No such file or directory
[ec2-user@ip-172-31-89-130:~] ls /dev/sdf
[ec2-user@ip-172-31-89-130:~] df -h /dev/sdf
Filesystem      Size  Used Avail Use% Mounted on
/devtmpfs       4.0M   0    4.0M  0% /dev
[ec2-user@ip-172-31-89-130:~] lsblk
NAME   MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
xvda    202:0   0   8G  0 disk
└─xvda1  202:1   0   8G  0 part /
└─xvda127 259:0   0   1M  0 part
└─xvda128 259:1   0  10M  0 part
xvdf   202:80   0  15G  0 disk
[ec2-user@ip-172-31-89-130:~] mkfs -t ext4 /dev/xvdf
mkfs.ext4 1.46.5 (30-Dec-2021)
mkfs.ext4: Permission denied while trying to determine filesystem size
[ec2-user@ip-172-31-89-130:~] lsblk
NAME   MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
xvda    202:0   0   8G  0 disk
└─xvda1  202:1   0   8G  0 part /
└─xvda127 259:0   0   1M  0 part
└─xvda128 259:1   0  10M  0 part
xvdf   202:80   0  15G  0 disk
[ec2-user@ip-172-31-89-130:~] sudo mkdir /newvolume
[ec2-user@ip-172-31-89-130:~] sudo mount /dev/xvdf /newvolume

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```

```
ec2-user@ip-172-31-89-130:~]$ ls /dev/sdf
/dev/sdf
[ec2-user@ip-172-31-89-130 ~]$ ls /dev/saaaaa
ls: cannot access '/dev/saaaaa': No such file or directory
[ec2-user@ip-172-31-89-130 ~]$ ls /dev/sdf
/dev/sdf
[ec2-user@ip-172-31-89-130 ~]$ df -h /dev/sdf
Filesystem      Size  Used Avail Use% Mounted on
/devtmpfs       4.0M   0    4.0M  0% /dev
[ec2-user@ip-172-31-89-130 ~]$ lsblk
NAME   MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
xvda    202:0    0   8G  0 disk
└─xvda1  202:1    0   8G  0 part /
└─xvda127 259:0    0   1M  0 part
└─xvda128 259:1    0   1M  0 part
xvdf    202:80   0  15G  0 disk
[ec2-user@ip-172-31-89-130 ~]$ mkfs -t ext4 /dev/xvdf
mke2fs 1.46.5 (30-Dec-2021)
mkfs.ext4: Permission denied while trying to determine filesystem size
[ec2-user@ip-172-31-89-130 ~]$ lsblk
NAME   MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
xvda    202:0    0   8G  0 disk
└─xvda1  202:1    0   8G  0 part /
└─xvda127 259:0    0   1M  0 part
└─xvda128 259:1    0   1M  0 part
xvdf    202:80   0  15G  0 disk
[ec2-user@ip-172-31-89-130 ~]$ sudo mkdir /newvolume
[ec2-user@ip-172-31-89-130 ~]$ sudo mount /dev/xvdf /newvolume

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```

```
ec2-user@ip-172-31-89-130:~]$ ls /dev/sdf
/dev/sdf
[ec2-user@ip-172-31-89-130 ~]$ ls /dev/saaaaa
ls: cannot access '/dev/saaaaa': No such file or directory
[ec2-user@ip-172-31-89-130 ~]$ ls /dev/sdf
/dev/sdf
[ec2-user@ip-172-31-89-130 ~]$ df -h /dev/sdf
Filesystem      Size  Used Avail Use% Mounted on
/devtmpfs       4.0M   0    4.0M  0% /dev
[ec2-user@ip-172-31-89-130 ~]$ lsblk
NAME   MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
xvda    202:0    0   8G  0 disk
└─xvda1  202:1    0   8G  0 part /
└─xvda127 259:0    0   1M  0 part
└─xvda128 259:1    0   1M  0 part
xvdf    202:80   0  15G  0 disk
[ec2-user@ip-172-31-89-130 ~]$ mkfs -t ext4 /dev/xvdf
mke2fs 1.46.5 (30-Dec-2021)
mkfs.ext4: Permission denied while trying to determine filesystem size
[ec2-user@ip-172-31-89-130 ~]$ lsblk
NAME   MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
xvda    202:0    0   8G  0 disk
└─xvda1  202:1    0   8G  0 part /
└─xvda127 259:0    0   1M  0 part
└─xvda128 259:1    0   1M  0 part
xvdf    202:80   0  15G  0 disk
[ec2-user@ip-172-31-89-130 ~]$ sudo mkdir /newvolume
[ec2-user@ip-172-31-89-130 ~]$ sudo mount /dev/xvdf /newvolume
mount: /newvolume: wrong fs type, bad option, bad superblock on /dev/xvdf, missing codepage or helper program, or other error.
[ec2-user@ip-172-31-89-130 ~]$ mkfs -t ext4 /dev/xvdf
mke2fs 1.46.5 (30-Dec-2021)
mkfs.ext4: Permission denied while trying to determine filesystem size
[ec2-user@ip-172-31-89-130 ~]$ cd /newvolume/
[ec2-user@ip-172-31-89-130 newvolume]$ lsblk
NAME   MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
xvda    202:0    0   8G  0 disk
└─xvda1  202:1    0   8G  0 part /
└─xvda127 259:0    0   1M  0 part
└─xvda128 259:1    0   1M  0 part
xvdf    202:80   0  15G  0 disk
[ec2-user@ip-172-31-89-130 newvolume]$
```

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16:16  
26/07/2023

