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N. Virginia

vociata/user/2025863-Satwadekar\_Valay\_Angar @ 0062-6127-9226

EC2 > Volumes > Create volume

Create volume

Info

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

Volume settings

Volume type

Info

General Purpose SSD (gp2)

Size (GiB)

Info

1

Min: 1 GiB, Max: 16,384 GiB. The value must be an integer.

IOPS

Info

100 / 3000

Bursts to 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS.

Throughput (MiB/s)

Info

Not applicable

Availability Zone

Info

us-east-1a

Snapshot ID - optional

Info

Don't create volume from a snapshot

Encryption

Info

Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.

☒ Encrypt this volume

Tags - optional

Info

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.

Key	Value - optional	
<input type="text" value="Name"/>	<input type="text" value="My Volume"/>	Remove
<input type="button" value="Add tag"/>		

You can add 49 more tags.

Cancel

Create volume

Feedback

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Successfully created volume vol-0e7c8f1c5a015d881

Volumes (1/3)

Filter volumes

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone	Volume state	Alarm status	Attached Instances
-	vol-014dc8e996d55a50	gp2	8 GiB	100	-	snap-0c87771...	2022/07/05 18:35 GMT+5...	us-east-1a	In-use	No alarms	+ i-Qab0f4ed41ada2414 (Lab...
-	vol-061c2c5864e642733	gp2	8 GiB	100	-	snap-0c87771...	2022/07/05 18:36 GMT+5...	us-east-1a	In-use	No alarms	+ i-085f476b0665cfd6 (Bast...
My Volume	vol-0e7c8f1c5a015d881	gp2	1 GiB	100	-	-	2022/07/05 18:36 GMT+5...	us-east-1a	Creating	No alarms	+ -

Volume ID: vol-0e7c8f1c5a015d881 (My Volume)

Details | Status checks | Monitoring | Tags

Details

Volume ID	Size	Type	Volume status
vol-0e7c8f1c5a015d881 (My Volume)	1 GiB	gp2	Okay
Volume state	IOPS	Throughput	Encryption
Creating	100	-	Not encrypted
KMS key ID	KMS key alias	KMS key ARN	Snapshot
-	-	-	-
Availability Zone	Created	Multi-Attach enabled	Attached Instances
us-east-1a	Tue Jul 05 2022 18:36:25 GMT+0530 (India Standard Time)	No	-
Outposts ARN	-	-	-

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EC2 > Volumes > vol-0e7c8f1c5a015dd81 > Attach volume

Attach volume

info

Attach a volume to an instance to use it as you would a regular physical hard disk drive.

Basic details

Volume ID

vol-0e7c8f1c5a015dd81 (My Volume)

Availability Zone

us-east-1a

Instance

info

i-0a00f4e041ada2414

Only instances in the same Availability Zone as the selected volume are displayed.

Device name

info

/dev/sdf

Recommended device names for Linux: /dev/sda1 for root volume, /dev/sdf-1 for data volumes.

Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.

Cancel

Attach volume

Feedback

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Successfully attached volume vol-0e7c8f1c5a015d881 to instance i-0ab0f4ed41ada2414

Volumes (1/3)

Filter volumes

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone	Volume state	Alarm status	Attached Instances
-	vol-014dc8e996d55a50	gp2	8 GiB	100	-	snap-0c87771...	2022/07/05 18:35 GMT+5...	us-east-1a	In-use	No alarms	+ i-0ab0f4ed41ada2414 (Lab...
-	vol-061c2c5964e642733	gp2	8 GiB	100	-	snap-0c87771...	2022/07/05 18:36 GMT+5...	us-east-1a	In-use	No alarms	+ i-085f476b0665c0fd (Bast...
My Volume	vol-0e7c8f1c5a015d881	gp2	1 GiB	100	-	-	2022/07/05 18:36 GMT+5...	us-east-1a	In-use	No alarms	+ i-0ab0f4ed41ada2414 (Lab...

Volume ID: vol-0e7c8f1c5a015d881 (My Volume)

Details | Status checks | Monitoring | Tags

Details

Volume ID vol-0e7c8f1c5a015d881 (My Volume)	Size 1 GiB	Type gp2	Volume status Okay
Volume state In-use	IOPS 100	Throughput -	Encryption Not encrypted
KMS key ID -	KMS key alias -	KMS key ARN -	Snapshot -
Availability Zone us-east-1a	Created Tue Jul 05 2022 18:36:25 GMT+0530 (India Standard Time)	Multi-Attach enabled No	Attached Instances i-0ab0f4ed41ada2414 (Lab): /dev/xvdf (attaching)
Outposts ARN -			

Feedback

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```

ec2-user@ip-10-1-11-251:~$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        484M   0  484M   0% /dev
tmpfs           492M   0  492M   0% /dev/shm
tmpfs           492M  412K  491M   1% /run
tmpfs           492M   0  492M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  1.5G  6.6G  19% /
tmpfs           99M    0   99M   0% /run/user/1000
[ec2-user@ip-10-1-11-251 ~]$ sudo mkfs -t ext3 /dev/sdf
mke2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
55536 inodes, 262144 blocks
13107 blocks (5.00%) reserved for the super user
First data block=0
Maximum filesystem blocks=268435456
8 block groups
32768 blocks per group, 32768 fragments per group
8192 inodes per group
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376

Allocating group tables: done
Writing inode tables: done
Creating journal (8192 blocks): done
Writing superblocks and filesystem accounting information: done

[ec2-user@ip-10-1-11-251 ~]$ sudo mkdir /mnt/data-store
[ec2-user@ip-10-1-11-251 ~]$ sudo mount /dev/sdf /mnt/data-store
[ec2-user@ip-10-1-11-251 ~]$ echo "/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2" | sudo tee -a /etc/fstab
/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2
[ec2-user@ip-10-1-11-251 ~]$ cat /etc/fstab
#
UUID=11ea48e5-4a29-4c1e-bb12-8138651b1870 / xfs defaults,noatime 1 1
/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2
[ec2-user@ip-10-1-11-251 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        484M   0  484M   0% /dev
tmpfs           492M   0  492M   0% /dev/shm
tmpfs           492M  412K  491M   1% /run
tmpfs           492M   0  492M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  1.5G  6.6G  19% /
tmpfs           99M    0   99M   0% /run/user/1000
/dev/xvdf       975M   60K  924M   1% /mnt/data-store
[ec2-user@ip-10-1-11-251 ~]$

```

```

ec2-user@ip-10-1-11-251:~$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        484M   0  484M   0% /dev
tmpfs           492M   0  492M   0% /dev/shm
tmpfs           492M  412K  491M   1% /run
tmpfs           492M   0  492M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  1.5G  6.6G  19% /
tmpfs           99M   0   99M   0% /run/user/1000
[ec2-user@ip-10-1-11-251 ~]$ sudo mkfs -t ext3 /dev/sdf
mke2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
65536 inodes, 262144 blocks
12807 blocks (5.00%) reserved for the super user
first data block=0
Maximum filesystem blocks=268435456
8 block groups
32768 blocks per group, 32768 fragments per group
8192 inodes per group
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376

Allocating group tables: done
Writing inode tables: done
Creating journal (8192 blocks): done
Writing superblocks and filesystem accounting information: done

[ec2-user@ip-10-1-11-251 ~]$ sudo mkdir /mnt/data-store
[ec2-user@ip-10-1-11-251 ~]$ sudo mount /dev/sdf /mnt/data-store
[ec2-user@ip-10-1-11-251 ~]$ echo "/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2" | sudo tee -a /etc/fstab
/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2
[ec2-user@ip-10-1-11-251 ~]$ cat /etc/fstab
#
UUID=11ea48e5-4a29-4c1e-bb12-8138651b1870 / xfs defaults,noatime 1 1
/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2
[ec2-user@ip-10-1-11-251 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        484M   0  484M   0% /dev
tmpfs           492M   0  492M   0% /dev/shm
tmpfs           492M  412K  491M   1% /run
tmpfs           492M   0  492M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  1.5G  6.6G  19% /
tmpfs           99M   0   99M   0% /run/user/1000
/dev/xvdf       975M  60K  924M   1% /mnt/data-store
[ec2-user@ip-10-1-11-251 ~]$ sudo sh -c "echo some text has been written > /mnt/data-store/file.txt"
[ec2-user@ip-10-1-11-251 ~]$ cat /mnt/data-store/file.txt
some text has been written
[ec2-user@ip-10-1-11-251 ~]$

```

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N. Virginia

vocalata/user/2025063-Saitwadekar\_Valay\_Angar @ 0062-6127-9226

EC2 > Volumes > vol-0e7d8f1c5a015dd81 > Create snapshot

Create snapshot

info

Create a point-in-time snapshot to back up the data on an Amazon EBS volume to Amazon S3.

Details

Volume ID  
vol-0e7d8f1c5a015dd81 (My Volume)

Description  
Add a description for your snapshot  

255 characters maximum.

Encryption [info](#)  
Not encrypted

Tags [info](#)

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.

Key

Value - optional

Q Name

Q My Snapshot

Remove

Add tag

You can add 49 more tags.

Cancel

Create snapshot

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Successfully created snapshot snap-004998ba13201c6df from volume vol-0a7c8f1c5a015d481.

If you need your snapshot to be immediately available consider using Fast Snapshot Restore.

Manage fast snapshot restore

Volumes (5)

Filter volumes

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone	Volume state	Alarm status	Attached Instances	Volume tags
-	vol-014dc9e996cd55a50	gp2	8 GiB	100	-	snap-0c87771...	2022/07/05 18:35 GMT+5...	us-east-1a	In-use	No alarms	+ i-0ab0f4ed41ade2414 (Lab...	OK
-	vol-061c2c5864e642733	gp2	8 GiB	100	-	snap-0c87771...	2022/07/05 18:36 GMT+5...	us-east-1a	In-use	No alarms	+ i-085fd76b0665cfdad (Bast...	OK
My Volume	vol-0a7c8f1c5a015d481	gp2	1 GiB	100	-	-	2022/07/05 18:36 GMT+5...	us-east-1a	In-use	No alarms	+ i-0ab0f4ed41ade2414 (Lab...	OK

Select a volume above

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Auto Scaling

Launch Configurations

Auto Scaling Groups

Snapshots (1/1)

Owned by me

Filter snapshots by attributes and tags

Name	Snapshot ID	Size	Description	Storage...	Snapshot status	Started	Progress	Encryption	KMS key ID	KMS key al...	Outposts ARN
My Snapshot	snap-004998a332912c64f	1 GiB	-	Standard	Completed	2022/07/05 18:55 GMT+5:30	Available (100%)	Not encrypted	-	-	-

Snapshot ID: snap-004998a332912c64f (My Snapshot)

Details

Permissions

Storage tier

Tags

Snapshot ID

snap-004998a332912c64f (My Snapshot)

Size

1 GiB

Owner

006261279226

Volume ID

vol-0a7d8f1c5a015d881

Encryption

Not encrypted

KMS key ID

-

Fast snapshot restore

-

Description

-

Progress

Available (100%)

Started

Tue Jul 05 2022 18:55:39 GMT+0530 (India Standard Time)

Snapshot status

Completed

Product codes

-

KMS key alias

-

KMS key ARN

-

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```

ec2-user@ip-10-1-11-251:~$ df -h
tmpfs          492M 412K 491M 1% /run
tmpfs          492M 0 492M 0% /sys/fs/cgroup
/dev/xvda1     8.0G 1.5G 6.6G 19% /
tmpfs          99M 0 99M 0% /run/user/1000
[ec2-user@ip-10-1-11-251 ~]$ sudo mkfs -t ext3 /dev/sdf
mkfs2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
65536 inodes, 262144 blocks
13107 blocks (5.00%) reserved for the super user
First data block=0
Maximum filesystem blocks=268435456
8 block groups
32768 blocks per group, 32768 fragments per group
8192 inodes per group
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376

Allocating group tables: done
Writing inode tables: done
Creating journal (8192 blocks): done
Writing superblocks and filesystem accounting information: done

[ec2-user@ip-10-1-11-251 ~]$ sudo mkdir /mnt/data-store
[ec2-user@ip-10-1-11-251 ~]$ sudo mount /dev/sdf /mnt/data-store
[ec2-user@ip-10-1-11-251 ~]$ echo "/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2" | sudo tee -a /etc/fstab
/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2
[ec2-user@ip-10-1-11-251 ~]$ cat /etc/fstab
#
UUID=11ea48e5-4a29-4c1e-bb12-8138651b1870 / xfs defaults,noatime 1 1
/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2
[ec2-user@ip-10-1-11-251 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        484M  0  484M   0% /dev
tmpfs           492M  0  492M   0% /dev/shm
tmpfs           492M 412K 491M   1% /run
tmpfs           492M  0  492M   0% /sys/fs/cgroup
/dev/xvda1      8.0G 1.5G 6.6G  19% /
tmpfs           99M  0  99M   0% /run/user/1000
/dev/xvdf       975M 60K 924M   1% /mnt/data-store
[ec2-user@ip-10-1-11-251 ~]$ sudo sh -c "echo some text has been written > /mnt/data-store/file.txt"
[ec2-user@ip-10-1-11-251 ~]$ cat /mnt/data-store/file.txt
some text has been written
[ec2-user@ip-10-1-11-251 ~]$ sudo rm /mnt/data-store/file.txt
[ec2-user@ip-10-1-11-251 ~]$ ls /mnt/data-store/
lost+found
[ec2-user@ip-10-1-11-251 ~]$

```

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N. Virginia

vocalata/user/2025963-Saitwadekar\_Valay\_Angar @ 0062-6127-9226

EC2 > Snapshots > snap-00499ba332912c64f > Create 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-00499ba332912c64f (My Snapshot)

Volume type

info

General Purpose SSD (gp2)

Size (GiB)

info

1

Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

IOPS

info

100 / 3000

Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, tunable to 3000 IOPS.

Throughput (MiB/s)

info

Not applicable

Availability Zone

info

us-east-1a

Fast snapshot restore

info

☑ Not enabled for selected snapshot

Encryption

info

Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.

☑ Encrypt this volume

Tags - optional

info

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.

Key

Value - optional

Q Name X Q Restored Volume X Remove

Add tag

You can add 49 more tags.

Cancel

Create volume

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Successfully created volume vol-01f7d5de78252a252

Snapshots (1/1)

Owned by me

Filter snapshots by attributes and tags

Name	Snapshot ID	Size	Description	Storage...	Snapshot status	Started	Progress	Encryption	KMS key ID	KMS key al...	Outposts ARN
My Snapshot	snap-004998a332912c64f	1 GiB	-	Standard	Completed	2022/07/05 18:55 GMT+5:30	Available (100%)	Not encrypted	-	-	-

Snapshot ID: snap-004998a332912c64f (My Snapshot)

Details

Permissions

Storage tier

Tags

Snapshot ID

snap-004998a332912c64f (My Snapshot)

Owner

006261279226

Encryption

Not encrypted

Fast snapshot restore

-

Size

1 GiB

Volume ID

vol-0e7d81c3a015d881

KMS key ID

-

Description

-

Progress

Available (100%)

Started

Tue Jul 05 2022 18:55:39 GMT+0530 (India Standard Time)

Snapshot status

Completed

Product codes

-

KMS key ARN

-

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Volumes (1/4)

Filter volumes

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone	Volume state	Alarm status	Attached Instances
-	vol-014dc8e996da55a50	gp2	8 GiB	100	-	snap-0c87771...	2022/07/05 18:35 GMT+5...	us-east-1a	In-use	No alarms	+ i-0ab0f4ed41ada2414 (Lab...
-	vol-061c2c5864e42753	gp2	8 GiB	100	-	snap-0c87771...	2022/07/05 18:36 GMT+5...	us-east-1a	In-use	No alarms	+ i-085fd76b0665cfd (Bas...
My Volume	vol-0a7c8f1c5a015d81	gp2	1 GiB	100	-	-	2022/07/05 18:58 GMT+5...	us-east-1a	In-use	No alarms	+ i-0ab0f4ed41ada2414 (Lab...
Restored Vola...	vol-01f7d5de78257a257	gp2	1 GiB	100	-	snap-004998a...	2022/07/05 18:58 GMT+5...	us-east-1a	Available	No alarms	+ -

Volume ID: vol-01f7d5de78257a257 (Restored Volume)

Details | Status checks | Monitoring | Tags

Details

Volume ID	Size	Type	Volume status
vol-01f7d5de78257a257 (Restored Volume)	1 GiB	gp2	Okay
Volume state	IOPS	Throughput	Encryption
Available	100	-	Not encrypted
KMS key ID	KMS key alias	KMS key ARN	Snapshot
-	-	-	snap-004998a332912c64f
Availability Zone	Created	Multi-Attach enabled	Attached Instances
us-east-1a	Tue Jul 05 2022 18:58:00 GMT+0530 (India Standard Time)	No	-
Outposts ARN			
-			

Feedback

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N. Virginia

vocalata/user/2025063-Saitowadikar\_Valay\_Angar @ 0062-6127-9226

EC2 > Volumes > vol-01f7d5dc78257a257 > Attach volume

Attach volume

info

Attach a volume to an instance to use it as you would a regular physical hard disk drive.

Basic details

Volume ID

vol-01f7d5dc78257a257 (Restored Volume)

Availability Zone

us-east-1a

Instance

info

i-0a00f4ed41ada2414

Only instances in the same Availability Zone as the selected volume are displayed.

Device name

info

/dev/sdfg

Recommended device names for Linux: /dev/sda1 for root volume, /dev/sdf1-g for data volumes.

Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.

Cancel

Attach volume

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New EC2 Experience

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Successfully attached volume vol-01f7d5de78257a257 to instance i-0ab0f4ed41ada2414

Volumes (1/4)

Filter volumes

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone	Volume state	Alarm status	Attached Instances
-	vol-014dc8e996d55a50	gp2	8 GiB	100	-	snap-0c87771...	2022/07/05 18:35 GMT+5...	us-east-1a	In-use	No alarms	i-0ab0f4ed41ada2414 (Lab...
-	vol-061c2c5864e642733	gp2	8 GiB	100	-	snap-0c87771...	2022/07/05 18:36 GMT+5...	us-east-1a	In-use	No alarms	i-085f476b0665c0fd (Bat...
My Volume	vol-0e7c8f1c5a015d81	gp2	1 GiB	100	-	-	2022/07/05 18:36 GMT+5...	us-east-1a	In-use	No alarms	i-0ab0f4ed41ada2414 (Lab...
Restored Vola...	vol-01f7d5de78257a257	gp2	1 GiB	100	-	snap-004998a...	2022/07/05 18:58 GMT+5...	us-east-1a	In-use	No alarms	i-0ab0f4ed41ada2414 (Lab...

Volume ID: vol-01f7d5de78257a257 (Restored Volume)

Details | Status checks | Monitoring | Tags

Details

Volume ID

vol-01f7d5de78257a257 (Restored Volume)

Volume state

In-use

KMS key ID

-

Availability Zone

us-east-1a

Outposts ARN

-

Size

1 GiB

IOPS

100

KMS key alias

-

Created

Tue Jul 05 2022 18:58:00 GMT+0530 (India Standard Time)

Type

gp2

Throughput

-

KMS key ARN

-

Multi-Attach enabled

No

Volume status

Okay

Encryption

Not encrypted

Snapshot

snap-004998a332912c54f

Attached Instances

i-0ab0f4ed41ada2414 (Lab): /dev/sdg (attaching)

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```
ec2-user@ip-10-1-11-251:~  
[ec2-user@ip-10-1-11-251 ~]$ sudo mkdir /mnt/data-store2  
[ec2-user@ip-10-1-11-251 ~]$ sudo mount /dev/sdg /mnt/data-store2  
[ec2-user@ip-10-1-11-251 ~]$ ls /mnt/data-store2/  
file.txt  lost+found  
[ec2-user@ip-10-1-11-251 ~]$
```