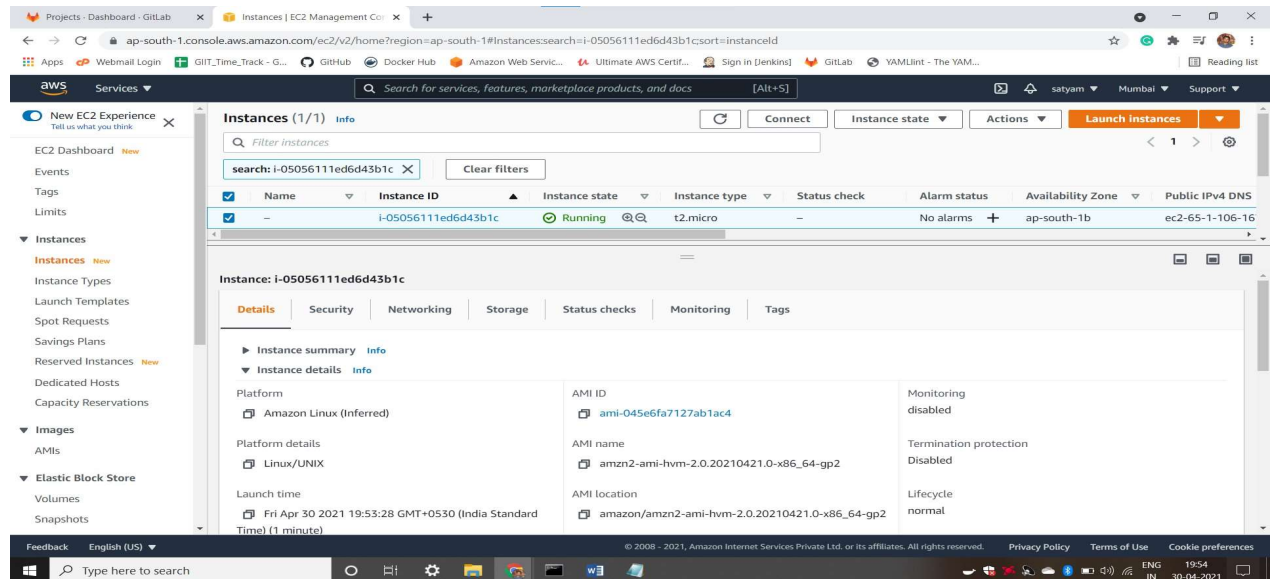
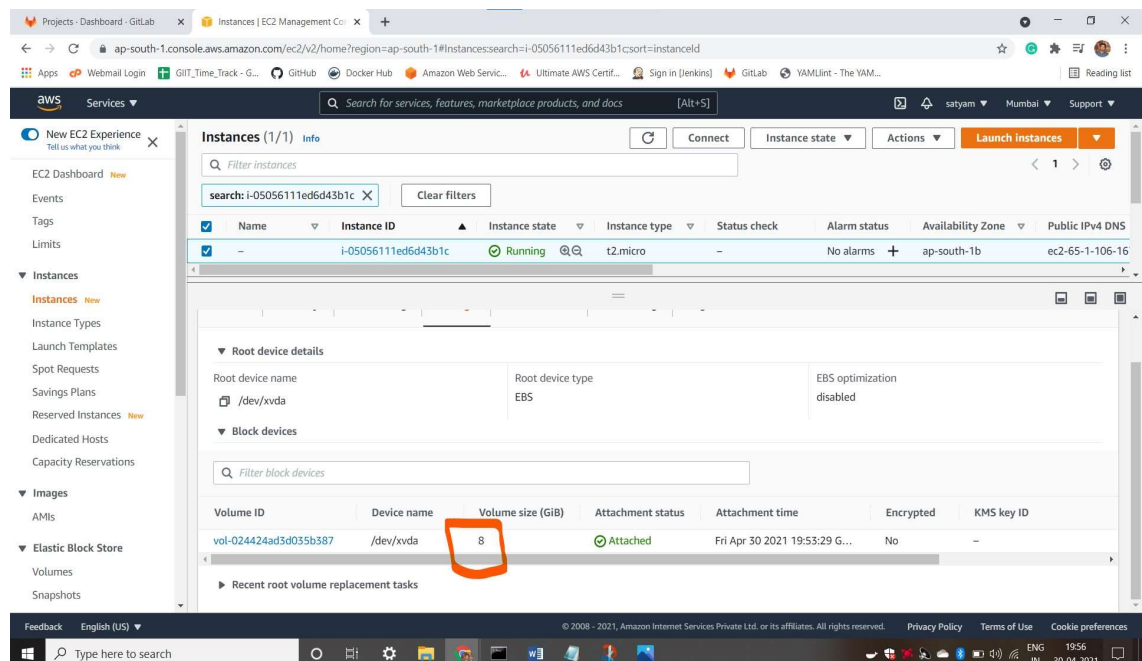


Increase the size of the disk of your EC2 instance without stopping it.

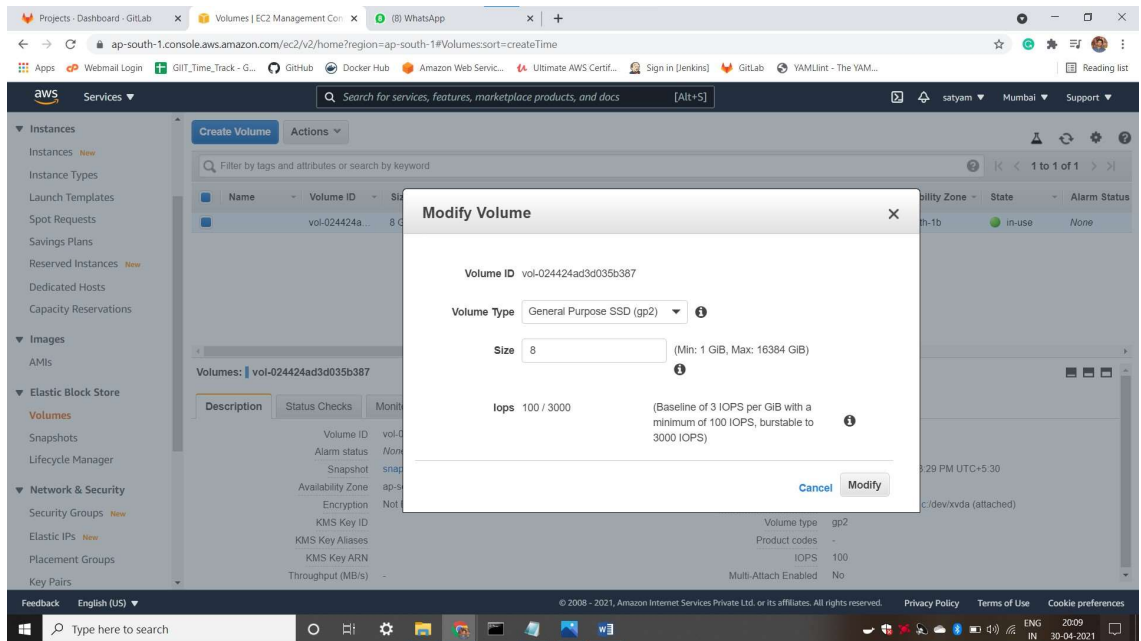
➤ First create an Free EC2 instance



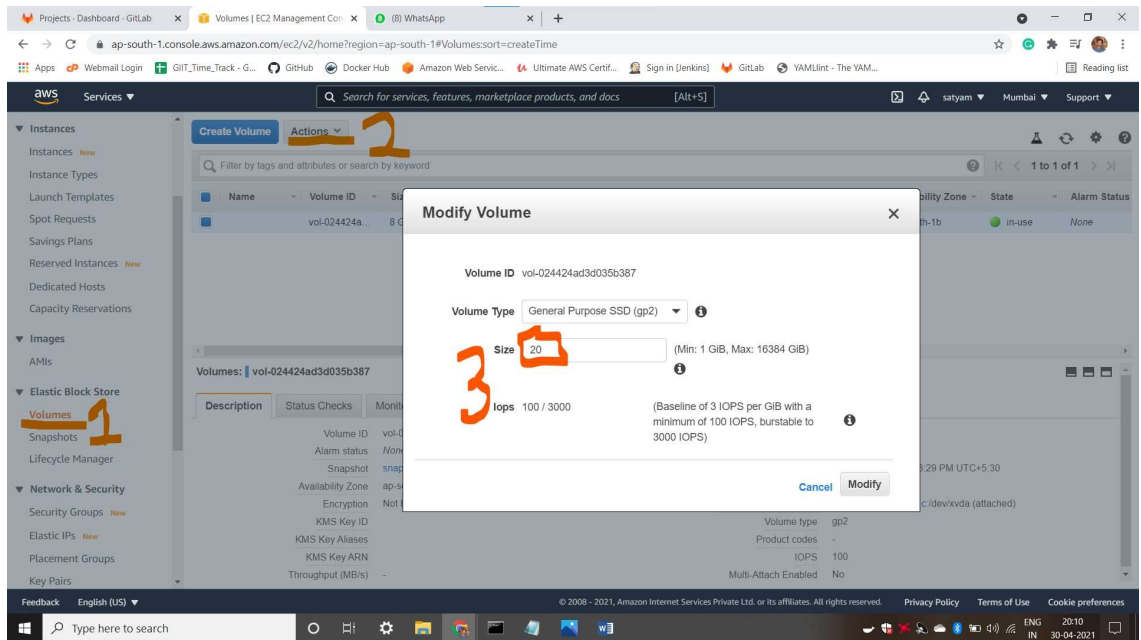
➔ Go to volumes and select instance and go to action then click modify Volume and change the size of the Disk :-



➔ Change the volume size (disk size is 8):-



➔ Now disk size is 20 GB:-



The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with the AWS logo and 'Services' dropdown. Below it, a search bar contains 'Search for services, features, marketplace products, and docs'. The main content area is divided into two sections: 'Instances' and 'Volumes'. The 'Volumes' section is active, showing a table of volumes. The 'Size' column for the volume 'vol-024424a3d035b387' is highlighted with a red box, indicating '20 GiB'. Below the table, there's a detailed view of the selected volume, showing its ID, alarm status, snapshot, availability zone, encryption status, KMS key ID, KMS key aliases, KMS key ARN, throughput, outposts ARN, size, creation time, state, attachment information, volume type, product codes, IOPS, and multi-attach status.

Name	Volume ID	Size	Volume Type	IOPS	Throughput	Snapshot	Created	Availability Zone	State	Alarm Status
	vol-024424a3d035b387	20 GiB	gp2	100	-	snap-0c40e44b253e4d04e	April 30, 2021 at 7:53:29 PM UTC+5:30	ap-south-1b	in-use - modifying (0%)	None

Volume Details for vol-024424a3d035b387:

- Volume ID: vol-024424a3d035b387
- Alarm status: None
- Snapshot: snap-0c40e44b253e4d04e
- Availability Zone: ap-south-1b
- Encryption: Not Encrypted
- KMS Key ID: -
- KMS Key Aliases: -
- KMS Key ARN: -
- Throughput (MB/s): -
- Outposts ARN: -
- Size: 20 GiB
- Created: April 30, 2021 at 7:53:29 PM UTC+5:30
- State: in-use - modifying (0%)
- Attachment information: i-05056111ed9d43b1c /dev/xvda (attached)
- Volume type: gp2
- Product codes: -
- IOPS: 100
- Multi-Attach Enabled: No

```
ec2-user@ip-172-31-41-69:~  
Microsoft Windows [Version 10.0.19042.964]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\WINDOWS\system32>F:  
F:\>cd F:\project\aws\all files\  
F:\project\aws\all files>ssh -i EC2TUTORIAL.pem ec2-user@13.127.211.205  
The authenticity of host '13.127.211.205 (13.127.211.205)' can't be established.  
ECDSA key fingerprint is SHA256:a0K09zbsrgJyzacD9lwtf8zd6Zaxsk5zQwL7g8.  
Are you sure you want to continue connecting (yes/no/[fingerprint]) yes  
Warning: Permanently added '13.127.211.205' (ECDSA) to the list of known hosts.  
  
┌──(─┬─)  
│   │   │  
└──┴──┘ Amazon Linux 2 AMI  
  
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-172-31-41-69 ~]$
```

```
Select root@ip-172-31-41-69:~
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>F:

F:\>cd F:\project\aws\all files\

F:\project\aws\all files>ssh -i EC2TUTORIAL.pem ec2-user@13.127.211.205
The authenticity of host '13.127.211.205 (13.127.211.205)' can't be established.
ECDSA key fingerprint is SHA256:a0K0N9zbsrgTyzwaCd9Uwtf8ZDd6ZaXxhk5sZQmKL7g8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '13.127.211.205' (ECDSA) to the list of known hosts.

  _ _ _
 _/ _ _ \
/_/ _/_/_\

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-41-69 ~]$ sudo su
[root@ip-172-31-41-69 ec2-user]# cd
[root@ip-172-31-41-69 ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        482M   0  482M   0% /dev
tmpfs           492M   0  492M   0% /dev/shm
tmpfs           492M 456K  492M   1% /run
tmpfs           492M   0  492M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  1.5G   6.6G  18% /
tmpfs           99M   0   99M   0% /run/user/0
tmpfs           99M   0   99M   0% /run/user/1000
[root@ip-172-31-41-69 ~]# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
xvda        202:0    0   20G  0 disk
└─xvda1    202:1    0    8G  0 part /
[root@ip-172-31-41-69 ~]# growpart/dev/
bash: growpart/dev/: No such file or directory
[root@ip-172-31-41-69 ~]# growpart /dev/
growpart disk partition
rewrite partition table so that partition takes up all the space it can
options:
-h | --help          print Usage and exit
--fudge F           if part could be resized, but change would be
                    less than 'F' bytes, do not resize (default: 1048576)
-N | --dry-run       only report what would be done, show new 'sfdisk -d'
-v | --verbose       increase verbosity / debug
-u | --update R      update the the kernel partition table info after growing
                    this requires kernel support and 'partx --update'
                    R is one of:
                    - 'auto' : [default] update partition if possible
                    - 'force' : try despite sanity checks (fail on failure)
                    - 'off'  : do not attempt
                    - 'on'   : fail if sanity checks indicate no support
```

```
Select root@ip-172-31-41-69:~

Example:
- growpart /dev/sda 1
  Resize partition 1 on /dev/sda
must supply partition-number
[root@ip-172-31-41-69 ~]# growpart /dev/x
growpart disk partition
rewrite partition table so that partition takes up all the space it can
options:
-h | --help          print Usage and exit
--fudge F           if part could be resized, but change would be
                    less than 'F' bytes, do not resize (default: 1048576)
-N | --dry-run       only report what would be done, show new 'sfdisk -d'
-v | --verbose       increase verbosity / debug
-u | --update R      update the the kernel partition table info after growing
                    this requires kernel support and 'partx --update'
                    R is one of:
                    - 'auto' : [default] update partition if possible
                    - 'force' : try despite sanity checks (fail on failure)
                    - 'off'  : do not attempt
                    - 'on'   : fail if sanity checks indicate no support

Example:
- growpart /dev/sda 1
  Resize partition 1 on /dev/sda
must supply partition-number
[root@ip-172-31-41-69 ~]# growpart /dev/xvda 1
CHANGED: partition=1 start=4006 old: size=16773087 end=16777183 new: size=41938911 end=41943007
[root@ip-172-31-41-69 ~]# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
xvda        202:0    0   20G  0 disk
└─xvda1    202:1    0   20G  0 part /
[root@ip-172-31-41-69 ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        482M   0  482M   0% /dev
tmpfs           492M   0  492M   0% /dev/shm
tmpfs           492M 456K  492M   1% /run
tmpfs           492M   0  492M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  1.5G   6.6G  18% /
tmpfs           99M   0   99M   0% /run/user/0
tmpfs           99M   0   99M   0% /run/user/1000
[root@ip-172-31-41-69 ~]# resize2fs /dev/xvda1
resize2fs 1.42.9 (28-Dec-2013)
open: Is a directory while opening /
[root@ip-172-31-41-69 ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        482M   0  482M   0% /dev
tmpfs           492M   0  492M   0% /dev/shm
tmpfs           492M 456K  492M   1% /run
tmpfs           492M   0  492M   0% /sys/fs/cgroup
```

```
Select root@ip-172-31-41-69~  
R is one of:  
- 'auto' : [default] update partition if possible  
- 'force' : try despite sanity checks (fail on failure)  
- 'off' : do not attempt  
- 'on' : fail if sanity checks indicate no support  
  
Example:  
- growpart /dev/sda 1  
  Resize partition 1 on /dev/sda  
must supply partition-number  
[root@ip-172-31-41-69 ~]# growpart /dev/xvda 1  
CHANGED: partition=1 start=4096 old: size=16773087 end=16777183 new: size=41938911 end=41943007  
[root@ip-172-31-41-69 ~]# lsblk  
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT  
xvda 202:0 0 20G 0 disk  
--xvda1 202:1 0 20G 0 part /  
[root@ip-172-31-41-69 ~]# df -h  
Filesystem Size Used Avail Use% Mounted on  
devtmpfs 482M 0 482M 0% /dev  
tmpfs 492M 0 492M 0% /dev/shm  
tmpfs 492M 456K 492M 1% /run  
tmpfs 492M 0 492M 0% /sys/fs/cgroup  
/dev/xvda1 8.0G 1.5G 6.6G 18% /  
tmpfs 99M 0 99M 0% /run/user/0  
tmpfs 99M 0 99M 0% /run/user/1000  
[root@ip-172-31-41-69 ~]# resize2fs /dev/xvda1  
resize2fs 1.42.9 (28-Dec-2013)  
open: Is a directory while opening /  
[root@ip-172-31-41-69 ~]# df -h  
Filesystem Size Used Avail Use% Mounted on  
devtmpfs 482M 0 482M 0% /dev  
tmpfs 492M 0 492M 0% /dev/shm  
tmpfs 492M 456K 492M 1% /run  
tmpfs 492M 0 492M 0% /sys/fs/cgroup  
/dev/xvda1 8.0G 1.5G 6.6G 18% /  
tmpfs 99M 0 99M 0% /run/user/0  
tmpfs 99M 0 99M 0% /run/user/1000  
[root@ip-172-31-41-69 ~]#
```

Projects - Dashboard - GitHub | Instances | EC2 Management Console | Microsoft Word - EC2 FUNDAMI |

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:

Services Search for services, features, marketplace products, and docs [Alt+S]

New EC2 Experience

EC2 Dashboard

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Instances (1/2) Info

Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
-	i-0ae26046845934849	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a	ec2-13-127-211-
-	i-05056111ed6d43b1c	Terminated	t2.micro	-	No alarms	ap-south-1b	-

Root device details

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

Block devices

Filter block devices

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID
vol-0b4a0c4d43d303333	/dev/xvda	20	Attached	Fri Apr 30 2021 23:24:16 G...	No	-

Recent root volume replacement tasks

© 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences

COMMAND PROMPT ADMINISTRATION (CMD)

Microsoft Windows [Version 10.0.19042.964]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>F:

F:\>cd F:\project\aws\all files\

F:\project\aws\all files>ssh -i EC2TUTORIAL.pem ec2-user@13.127.211.205

The authenticity of host '13.127.211.205 (13.127.211.205)' can't be established.
ECDSA key fingerprint is SHA256:aOKN9zbsrgTyzwaCd9Uwtf8zDd6ZaXxhk5sZQwKL7g8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '13.127.211.205' (ECDSA) to the list of known hosts.

```
__| __|_ )  
_| ( / Amazon Linux 2 AMI  
__|\__|__|
```

<https://aws.amazon.com/amazon-linux-2/>

[ec2-user@ip-172-31-41-69 ~]\$ **sudo su**

[root@ip-172-31-41-69 ec2-user]# **cd**

[root@ip-172-31-41-69 ~]# **df -h**

Filesystem	Size	Used	Avail	Use%	Mounted on
devtmpfs	482M	0	482M	0%	/dev
tmpfs	492M	0	492M	0%	/dev/shm
tmpfs	492M	456K	492M	1%	/run
tmpfs	492M	0	492M	0%	/sys/fs/cgroup
/dev/xvda1	8.0G	1.5G	6.6G	18%	/
tmpfs	99M	0	99M	0%	/run/user/0
tmpfs	99M	0	99M	0%	/run/user/1000

[root@ip-172-31-41-69 ~]# **lsblk**

NAME	MAJ:MIN	RM	SIZE	RO	TYPE	MOUNTPOINT
xvda	202:0	0	20G	0	disk	

└─xvda1 202:1 0 8G 0 part /

```
[root@ip-172-31-41-69 ~]# growpart/dev/
```

bash: growpart/dev/: No such file or directory

```
[root@ip-172-31-41-69 ~]# growpart /dev/
```

growpart disk partition

rewrite partition table so that partition takes up all the space it can

options:

- h | --help print Usage and exit
- fudge F if part could be resized, but change would be
 less than 'F' bytes, do not resize (default: 1048576)
- N | --dry-run only report what would be done, show new 'sfdisk -d'
- v | --verbose increase verbosity / debug
- u | --update R update the the kernel partition table info after growing
 this requires kernel support and 'partx --update'
 R is one of:
 - 'auto' : [default] update partition if possible
 - 'force' : try despite sanity checks (fail on failure)
 - 'off' : do not attempt
 - 'on' : fail if sanity checks indicate no support

Example:

- growpart /dev/sda 1

 Resize partition 1 on /dev/sda

must supply partition-number

```
[root@ip-172-31-41-69 ~]# growpart /dev/x
```

growpart disk partition

rewrite partition table so that partition takes up all the space it can

options:

- h | --help print Usage and exit
- fudge F if part could be resized, but change would be
 less than 'F' bytes, do not resize (default: 1048576)
- N | --dry-run only report what would be done, show new 'sfdisk -d'
- v | --verbose increase verbosity / debug
- u | --update R update the the kernel partition table info after growing
 this requires kernel support and 'partx --update'
 R is one of:
 - 'auto' : [default] update partition if possible
 - 'force' : try despite sanity checks (fail on failure)
 - 'off' : do not attempt
 - 'on' : fail if sanity checks indicate no support

Example:

- growpart /dev/sda 1

Resize partition 1 on /dev/sda

must supply partition-number

[root@ip-172-31-41-69 ~]# **growpart /dev/xvda 1**

CHANGED: partition=1 start=4096 old: size=16773087 end=16777183 new:
size=41938911 end=41943007

[root@ip-172-31-41-69 ~]# **lsblk**

```
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
xvda 202:0 0 20G 0 disk
└─xvda1 202:1 0 20G 0 part /
```

[root@ip-172-31-41-69 ~]# **df -h**

```
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        482M  0 482M  0% /dev
tmpfs           492M  0 492M  0% /dev/shm
tmpfs           492M 456K 492M  1% /run
tmpfs           492M  0 492M  0% /sys/fs/cgroup
/dev/xvda1      8.0G 1.5G 6.6G 18% /
tmpfs           99M  0 99M  0% /run/user/0
tmpfs           99M  0 99M  0% /run/user/1000
[root@ip-172-31-41-69 ~]# resize2fs / dev/xvda1
resize2fs 1.42.9 (28-Dec-2013)
open: Is a directory while opening /
```

[root@ip-172-31-41-69 ~]# **df -h**

```
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        482M  0 482M  0% /dev
tmpfs           492M  0 492M  0% /dev/shm
tmpfs           492M 456K 492M  1% /run
tmpfs           492M  0 492M  0% /sys/fs/cgroup
/dev/xvda1      8.0G 1.5G 6.6G 18% /
tmpfs           99M  0 99M  0% /run/user/0
tmpfs           99M  0 99M  0% /run/user/1000
[root@ip-172-31-41-69 ~]#
```