

# 1.Create EC2 instace:-

Activities Firefox Web Browser Thu 16:24

Instances | EC2 Management Console - Mozilla Firefox

Instances | EC2 Manage X WhatsApp X Preferences X 404 Not Found X 3.110.77.3/ X 3.110.215.137/index.html X +

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

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New EC2 Experience Tell us what you think

EC2 Dashboard  
EC2 Global View  
Events  
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Reserved Instances New  
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AMIs New

Instances (4) Info

Search

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availabil
<input type="checkbox"/>	redhat	i-06be64bc47f1896a7	⊖ Stopped	t2.micro	⊗ r is undefined	⊗ r is undefined	ap-south
<input type="checkbox"/>	ubuntu_devops	i-018abcd37261a63ca	✔ Running	t2.micro	⊗ r is undefined	⊗ r is undefined	ap-south
<input type="checkbox"/>	ubuntu2	i-02ac15f9746da9bb3	⊖ Stopped	t2.micro	⊗ r is undefined	⊗ r is undefined	ap-south
<input type="checkbox"/>	aws_training_os	i-05afd7ad1c2c12309	⊖ Stopped	t2.micro	⊗ r is undefined	⊗ r is undefined	ap-south

Select an instance

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# Create volume name ubuntu\_devops:-

Activities Firefox Web Browser Thu 16:12

Volumes | EC2 Management Console - Mozilla Firefox

Volumes | EC2 Management X WhatsApp X Preferences X 404 Not Found X 3.110.77.3/ X +

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

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▼ Images AMIs New AMI Catalog

▼ Elastic Block Store Volumes New Snapshots New Lifecycle Manager New

▼ Network & Security Security Groups

Successfully attached volume [vol-0613d892fb0007562](#) to Instance [I-018abcd37261a63ca](#).

Volumes (1/6)

Filter volumes

	Name	Volume ID	Type	Size	IO
<input type="checkbox"/>	-	<a href="#">vol-07dc93f99d8936157</a>	gp2	10 GiB	10
<input type="checkbox"/>	ubuntu2	<a href="#">vol-07e076f5889c5ad76</a>	gp2	8 GiB	10
<input type="checkbox"/>	aws_training_os	<a href="#">vol-063b56d2053649ab7</a>	gp2	8 GiB	10
<input type="checkbox"/>	ubuntu	<a href="#">vol-0a48ea380ab5577f8</a>	gp2	8 GiB	10
<input type="checkbox"/>	ubuntu_volume	<a href="#">vol-0e0dc052d7c8d05b9</a>	gp2	1 GiB	10
<input checked="" type="checkbox"/>	ubuntu_devops	<a href="#">vol-0613d892fb0007562</a>	gp2	2 GiB	10

Modify volume  
Create snapshot  
Create snapshot lifecycle policy  
Delete volume  
Attach volume  
Detach volume  
Force detach volume  
Manage auto-enabled I/O  
Manage tags

Create volume

Volume ID: **vol-0613d892fb0007562 (ubuntu\_devops)**

Details Status checks Monitoring Tags

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# Attach volume\_ubuntu\_devops to EC2 instace

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Attach volume | EC2 Management Console - Mozilla Firefox

Attach volume | EC2 Man X WhatsApp Preferences 404 Not Found +

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

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Volume ID  
vol-0613d892fb0007562 (ubuntu\_devops)

Availability Zone  
ap-south-1a

Instance Info  
I-018abcd37261a63ca

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

Device name Info  
/dev/sdf

Linux device names: /dev/sdf through /dev/sdp

ⓘ 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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## LSBLK:---lsblk command to check the all blocks

```
Activities Terminal ▾ Thu 15:51 root@ip-172-31-38-43: ~
```

```
File Edit View Search Terminal Help
```

```
root@ip-172-31-38-43:/home/ubuntu# cd
root@ip-172-31-38-43:~# lsblk
```

NAME	MAJ:MIN	RM	SIZE	RO	TYPE	MOUNTPOINT
loop1	7:1	0	55.5M	1	loop	/snap/core18/2344
loop2	7:2	0	25.1M	1	loop	/snap/amazon-ssm-agent/5656
loop3	7:3	0	26.7M	1	loop	/snap/amazon-ssm-agent/5163
loop4	7:4	0	43.6M	1	loop	/snap/snapd/15177
loop5	7:5	0	44.7M	1	loop	/snap/snapd/15534
loop6	7:6	0	55.5M	1	loop	/snap/core18/2409
xvda	202:0	0	8G	0	disk	
└─xvda1	202:1	0	8G	0	part	/
xvdf	202:80	0	2G	0	disk	

```
root@ip-172-31-38-43:~#
```

# Do the partition of block:-fdisk /dev/xvdf

```
Activities Terminal Thu 15:55 root@ip-172-31-38-43: ~  
File Edit View Search Terminal Help  
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT  
loop1 7:1 0 55.5M 1 loop /snap/core18/2344  
loop2 7:2 0 25.1M 1 loop /snap/amazon-ssm-agent/5656  
loop3 7:3 0 26.7M 1 loop /snap/amazon-ssm-agent/5163  
loop4 7:4 0 43.6M 1 loop /snap/snapd/15177  
loop5 7:5 0 44.7M 1 loop /snap/snapd/15534  
loop6 7:6 0 55.5M 1 loop /snap/core18/2409  
xvda 202:0 0 8G 0 disk  
└─xvda1 202:1 0 8G 0 part /  
xvdf 202:80 0 2G 0 disk  
root@ip-172-31-38-43:~# mkfs.ext4 /dev/xvdf  
mke2fs 1.44.1 (24-Mar-2018)  
Creating filesystem with 524288 4k blocks and 131072 inodes  
Filesystem UUID: 24f9c863-978c-456a-b6b2-70ddf83d7058  
Superblock backups stored on blocks:  
32768, 98304, 163840, 229376, 294912  
  
Allocating group tables: done  
Writing inode tables: done  
Creating journal (16384 blocks): done  
Writing superblocks and filesystem accounting information: done  
  
root@ip-172-31-38-43:~# fdisk /dev/xvdf  
  
Welcome to fdisk (util-linux 2.31.1).  
Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.  
  
The old ext4 signature will be removed by a write command.  
  
Device does not contain a recognized partition table.  
Created a new DOS disklabel with disk identifier 0x123c987c.  
  
Command (m for help): n  
Partition type  
p primary (0 primary, 0 extended, 4 free)  
e extended (container for logical partitions)  
Select (default p):
```

# Formatting the block :-mkfs.ext4 /dev/xvdf

```
Activities Terminal Thu 15:57 root@ip-172-31-38-43: ~
File Edit View Search Terminal Help
Welcome to fdisk (util-linux 2.31.1).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

The old ext4 signature will be removed by a write command.

Device does not contain a recognized partition table.
Created a new DOS disklabel with disk identifier 0x123c987c.

Command (m for help): n
Partition type
  p   primary (0 primary, 0 extended, 4 free)
  e   extended (container for logical partitions)
Select (default p): p
Partition number (1-4, default 1):
First sector (2048-4194303, default 2048):
Last sector, +sectors or +size{K,M,G,T,P} (2048-4194303, default 4194303): +1G

Created a new partition 1 of type 'Linux' and of size 1 GiB.

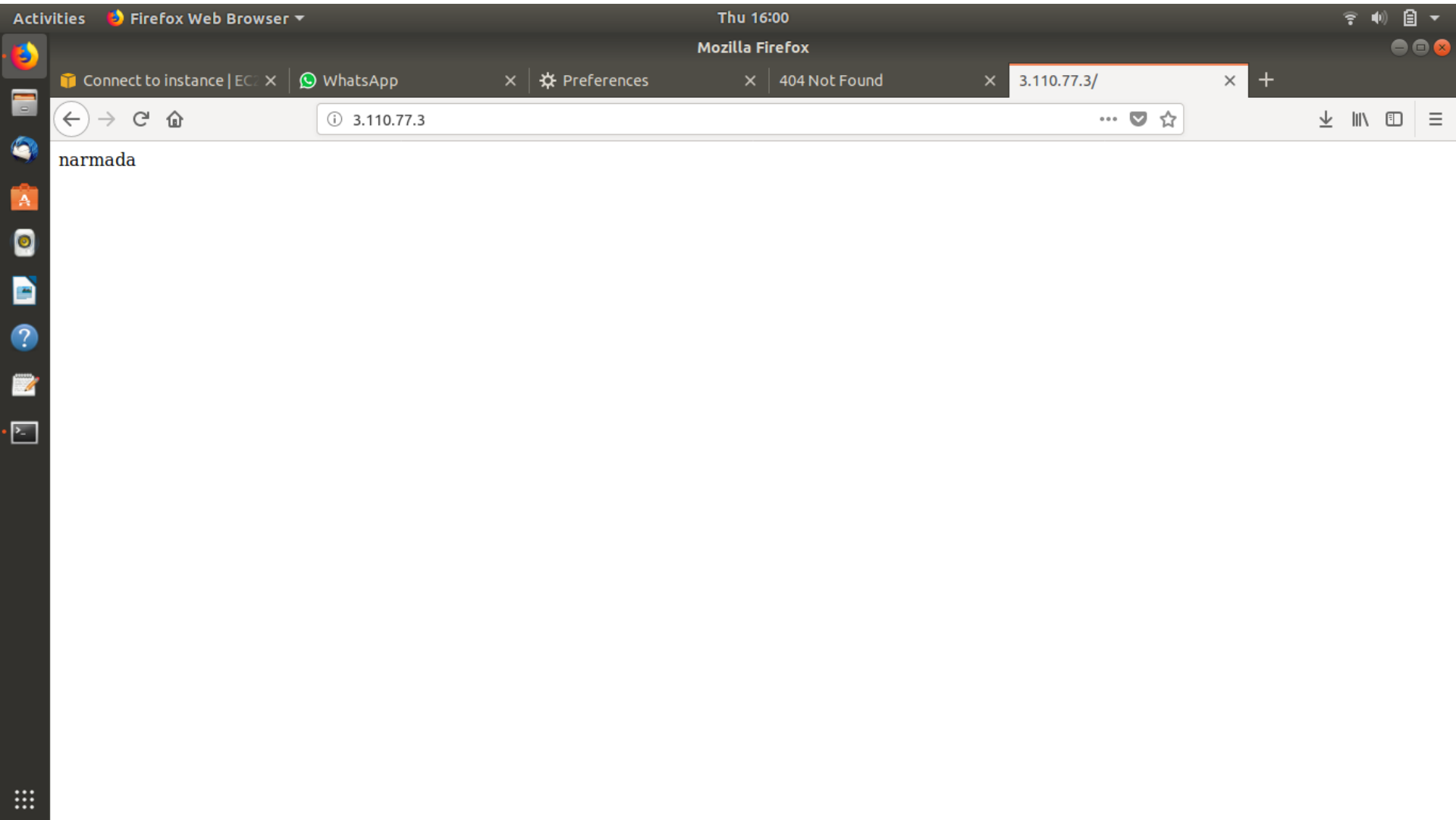
Command (m for help): w
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.

root@ip-172-31-38-43:~# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
loop1        7:1      0 55.5M  1 loop /snap/core18/2344
loop2        7:2      0 25.1M  1 loop /snap/amazon-ssm-agent/5656
loop3        7:3      0 26.7M  1 loop /snap/amazon-ssm-agent/5163
loop4        7:4      0 43.6M  1 loop /snap/snapd/15177
loop5        7:5      0 44.7M  1 loop /snap/snapd/15534
loop6        7:6      0 55.5M  1 loop /snap/core18/2409
xvda         202:0    0   8G   0 disk
└─xvda1      202:1    0   8G   0 part /
xvdf         202:80   0   2G   0 disk
└─xvdf1      202:81   0   1G   0 part
root@ip-172-31-38-43:~# mkfs.ext4 /dev/xvdf1
```

# mount the /dev/xvdf to /var/www/html

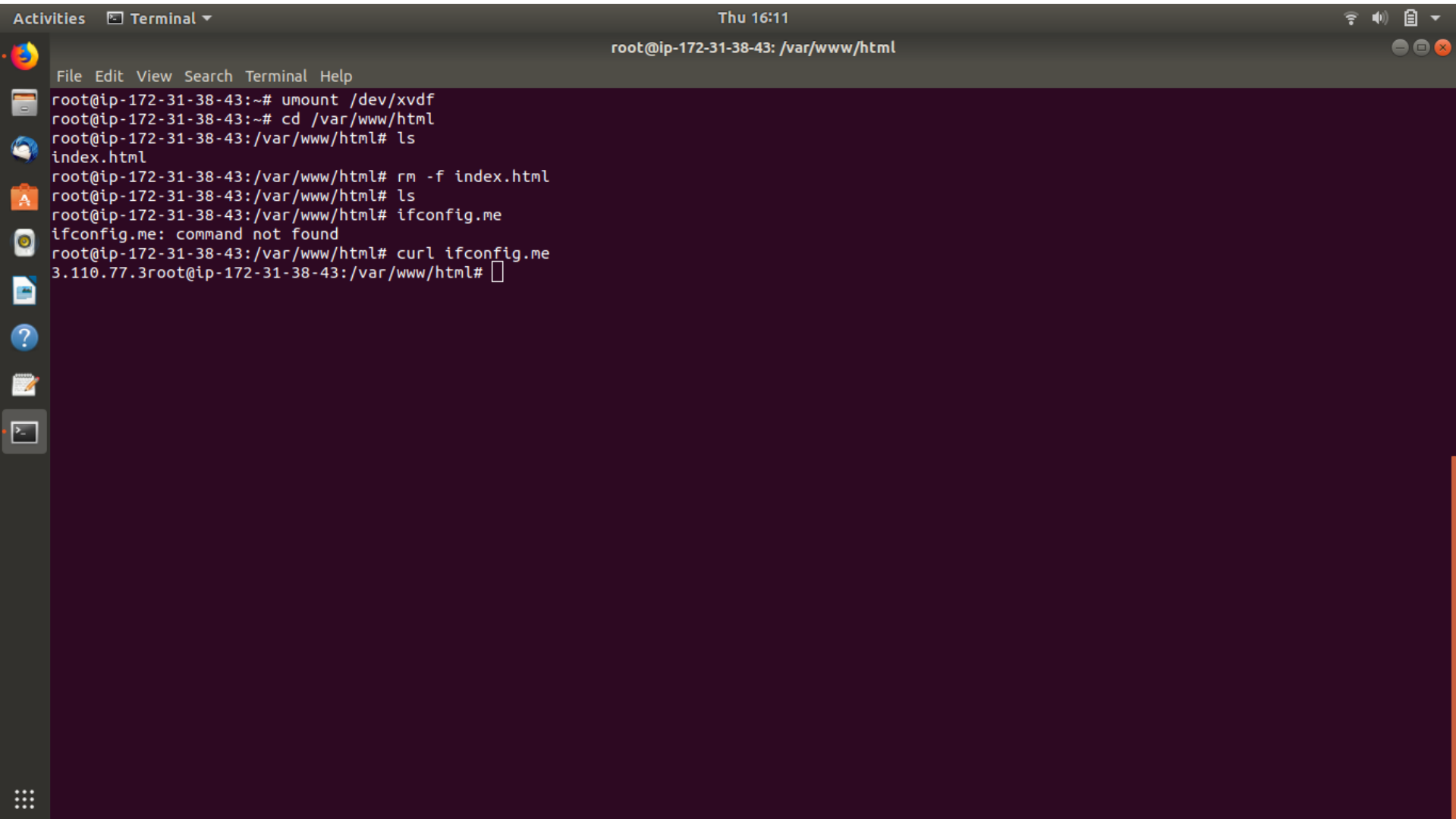
```
Activities Terminal Thu 16:03 root@ip-172-31-38-43: ~
File Edit View Search Terminal Help
244 docker ps
245 docker cd
246 docker ps
247 exit
248 ls
249 mkdir apache_server
250 cd apache_server
251 vi Dockerfile
252 cat Dockerfile
253 docker build -t webserver:latest
254 docker build -t ubuntu
255 docker build -t webserver:latest .
256 vi Dockerfile
257 docker build -t webserver:latest .
258 vi Dockerfile
259 docker build -t webserver:latest .
260 vi Dockerfile
261 docker build -t webserver:latest .
262 docker run -itd -p 80:80 webserver:latest
263 docker run -itd webserver:latest
264 docker ps
265 docker inspect clever_lehmann
266 docker inspect clever_lehmann | grep IP
267 docker ps
268 cd
269 clear
270 cd
271 lsblk
272 mkfs.ext4 /dev/xvdf
273 fdisk /dev/xvdf
274 lsblk
275 mkfs.ext4 /dev/xvdf1
276 mkfs.ext4 /dev/xvdf
277 mount /dev/xvdf /var/www/html
278 echo "narmada" > /var/www/html/index.html
279 curl ifconfig.me
280 history
root@ip-172-31-38-43:~#
```

**echo "narmada" > /var/www/html/index.html**  
**Curl inconfig.me**  
**Paste ip in browser it displays webpage**





Umount /dev/xvdf \_\_\_\_umount volume to this instance next close the ec2 instance.  
Remove index.html file also  
Terminate the instace



A terminal window titled "Terminal" with a dark purple background. The window shows a series of commands and their outputs. The prompt is "root@ip-172-31-38-43: /var/www/html". The commands and outputs are as follows:

```
File Edit View Search Terminal Help
root@ip-172-31-38-43:~# umount /dev/xvdf
root@ip-172-31-38-43:~# cd /var/www/html
root@ip-172-31-38-43:/var/www/html# ls
index.html
root@ip-172-31-38-43:/var/www/html# rm -f index.html
root@ip-172-31-38-43:/var/www/html# ls
root@ip-172-31-38-43:/var/www/html# ifconfig.me
ifconfig.me: command not found
root@ip-172-31-38-43:/var/www/html# curl ifconfig.me
3.110.77.3root@ip-172-31-38-43:/var/www/html#
```

The terminal window has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". On the left side, there is a vertical dock with various application icons. The top status bar shows the time "Thu 16:11" and system icons for network, volume, and battery.

# Detach the volume to old \_ec2 instace

Activities Firefox Web Browser Thu 16:12

Volumes | EC2 Management Console - Mozilla Firefox

Volumes | EC2 Management X WhatsApp X Preferences X 404 Not Found X 3.110.77.3/ X +

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

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▼ Network & Security Security Groups

Successfully attached volume [vol-0613d892fb0007562](#) to Instance [I-018abcd37261a63ca](#).

Volumes (1/6)

Filter volumes

	Name	Volume ID	Type	Size	IO
<input type="checkbox"/>	-	<a href="#">vol-07dc93f99d8936157</a>	gp2	10 GiB	10
<input type="checkbox"/>	ubuntu2	<a href="#">vol-07e076f5889c5ad76</a>	gp2	8 GiB	10
<input type="checkbox"/>	aws_training_os	<a href="#">vol-063b56d2053649ab7</a>	gp2	8 GiB	10
<input type="checkbox"/>	ubuntu	<a href="#">vol-0a48ea380ab5577f8</a>	gp2	8 GiB	10
<input type="checkbox"/>	ubuntu_volume	<a href="#">vol-0e0dc052d7c8d05b9</a>	gp2	1 GiB	10
<input checked="" type="checkbox"/>	ubuntu_devops	<a href="#">vol-0613d892fb0007562</a>	gp2	2 GiB	10

Modify volume  
Create snapshot  
Create snapshot lifecycle policy  
Delete volume  
Attach volume  
Detach volume  
Force detach volume  
Manage auto-enabled I/O  
Manage tags

Volume ID: **vol-0613d892fb0007562 (ubuntu\_devops)**

Details Status checks Monitoring Tags

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# detach

Activities Firefox Web Browser Thu 16:13

Volumes | EC2 Management Console - Mozilla Firefox

Volumes | EC2 Management X WhatsApp X Preferences X 404 Not Found X 3.110.77.3/ X +

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

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Instances **New**

- Instance Types
- Launch Templates
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- Savings Plans
- Reserved Instances **New**
- Dedicated Hosts
- Capacity Reservations

▼ Images

- AMIs **New**
- AMI Catalog

▼ Elastic Block Store

- Volumes** **New**
- Snapshots **New**
- Lifecycle Manager **New**

▼ Network & Security

- Security Groups

Successfully attached volume vol-0613d892fb0007562 to instance i-018abcd37261a63ca.

Volumes (1/6)

Filter volumes

	Name	Vol
<input type="checkbox"/>	-	vol-
<input type="checkbox"/>	ubuntu2	vol-
<input type="checkbox"/>	aws_training_os	vol-
<input type="checkbox"/>	ubuntu	vol-
<input type="checkbox"/>	ubuntu_volume	vol-
<input checked="" type="checkbox"/>	ubuntu_devops	vol-

**Force detach vol-0613d892fb0007562?**

Forced detachment of a stuck volume can cause damage to the file system or the data it contains. Only use this option as a last resort to detach a volume from a failed instance, or if you are detaching a volume with the intention of deleting it.

Are you sure that you want to force detach volume vol-0613d892fb0007562?

To confirm detachment, type *detach* in this field.

detach

Cancel Force detach

Volume ID: vol-0613d892fb0007562 (ubuntu\_devops)

Details Status checks Monitoring Tags

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# Volume ubuntu\_devops attach to another Ec2 instance

Activities Firefox Web Browser Thu 16:17

Attach volume | EC2 Management Console - Mozilla Firefox

Attach volume | EC2 Man X WhatsApp X Preferences X 404 Not Found X 3.110.77.3/ X +

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

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

### Basic details

Volume ID  
vol-0613d892fb0007562 (ubuntu\_devops)

Availability Zone  
ap-south-1a

Instance [Info](#)

I-018abcd37261a63ca

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

Device name [Info](#)

/dev/sdf

Linux device names: /dev/sdf through /dev/sdp

**Info** 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**.

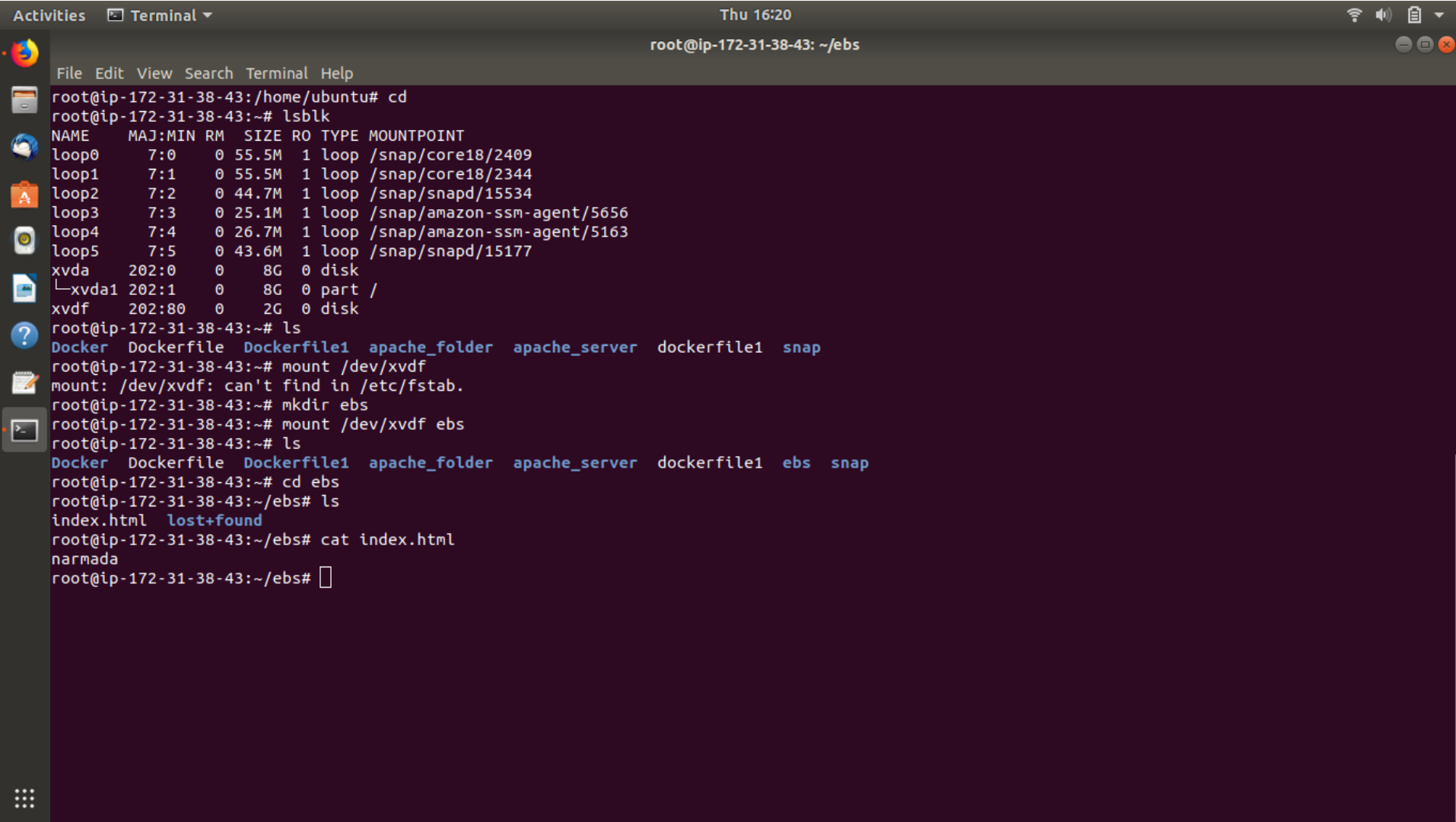
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# Mount /dev/xvdf to new EC2 instance

## Create dir :mkdir ebs

## ls ebs



The image shows a terminal window on an Ubuntu EC2 instance. The user is root at ip-172-31-38-43. The terminal shows the following commands and output:

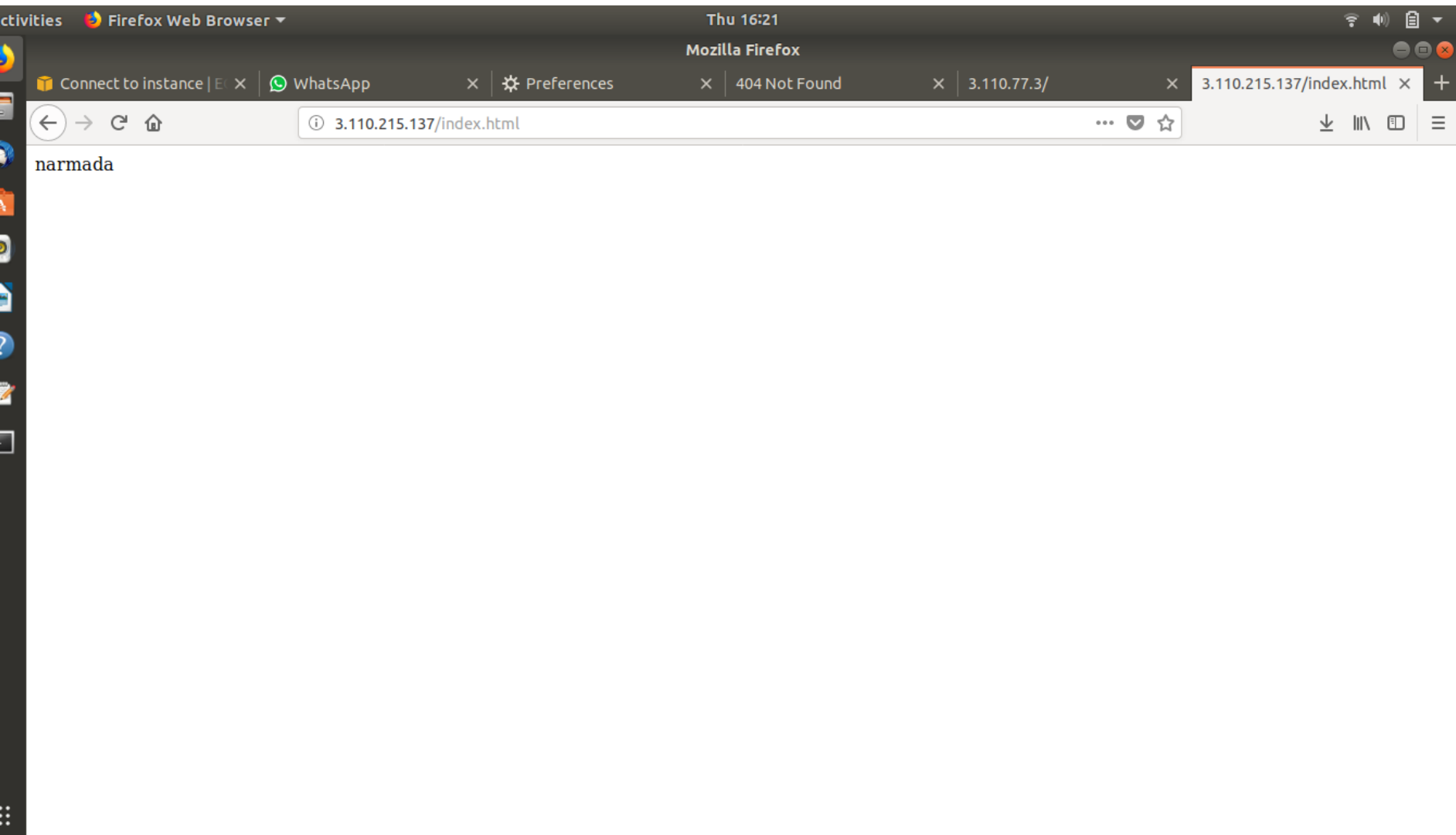
```
root@ip-172-31-38-43:/home/ubuntu# cd
root@ip-172-31-38-43:~# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
loop0        7:0      0 55.5M  1 loop /snap/core18/2409
loop1        7:1      0 55.5M  1 loop /snap/core18/2344
loop2        7:2      0 44.7M  1 loop /snap/snapd/15534
loop3        7:3      0 25.1M  1 loop /snap/amazon-ssm-agent/5656
loop4        7:4      0 26.7M  1 loop /snap/amazon-ssm-agent/5163
loop5        7:5      0 43.6M  1 loop /snap/snapd/15177
xvda         202:0    0   8G   0 disk
└─xvda1      202:1    0   8G   0 part /
xvdf         202:80   0   2G   0 disk

root@ip-172-31-38-43:~# ls
Docker  Dockerfile  Dockerfile1  apache_folder  apache_server  dockerfile1  snap
root@ip-172-31-38-43:~# mount /dev/xvdf
mount: /dev/xvdf: can't find in /etc/fstab.
root@ip-172-31-38-43:~# mkdir ebs
root@ip-172-31-38-43:~# mount /dev/xvdf ebs
root@ip-172-31-38-43:~# ls
Docker  Dockerfile  Dockerfile1  apache_folder  apache_server  dockerfile1  ebs  snap
root@ip-172-31-38-43:~# cd ebs
root@ip-172-31-38-43:~/ebs# ls
index.html  lost+found
root@ip-172-31-38-43:~/ebs# cat index.html
narmada
root@ip-172-31-38-43:~/ebs#
```

ls /var/www/html

Index.html

- \*When you terminate your EC2 instance**
- \*That never effected ur data when its present in your volume:s3/S3/EBS/EFS**
- \*This is the main use of storage service**





**P.Narmada**