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Task-5

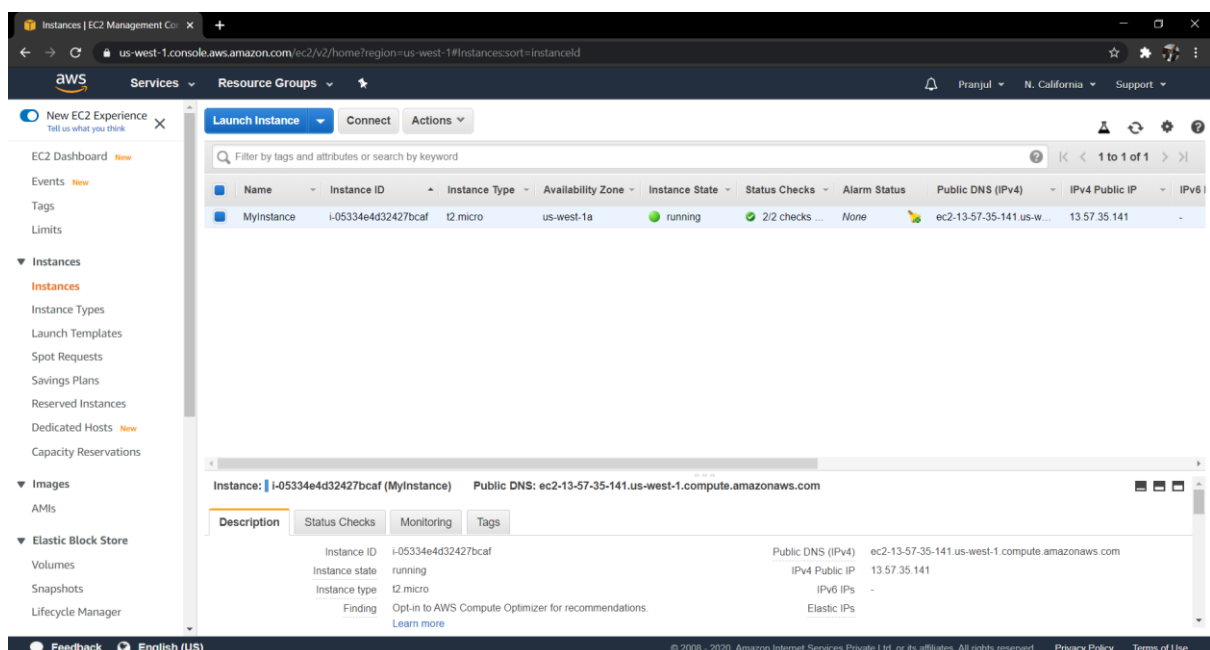
Access different components of AWS using AWSCLI

Create a 3G EBS volume and attach it to one running instance and create a 1GB partition on that and mount it on one directory no need to make /etc/fstab entry. Remember all this thing using AWS CLI and terminal only.

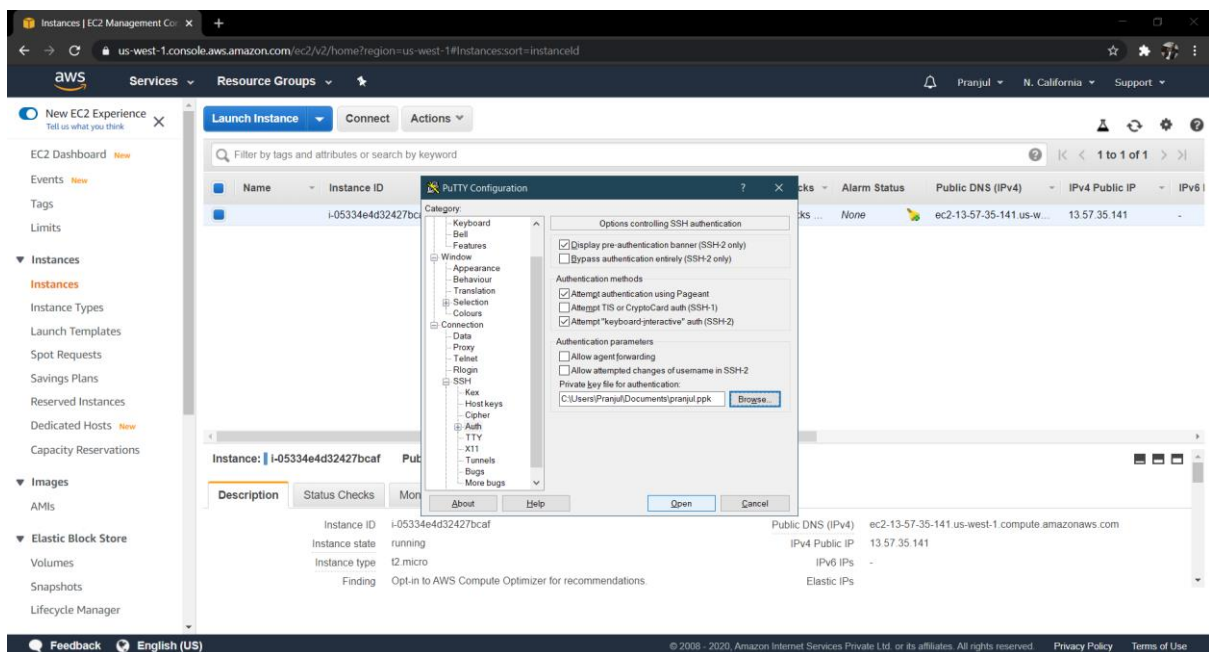
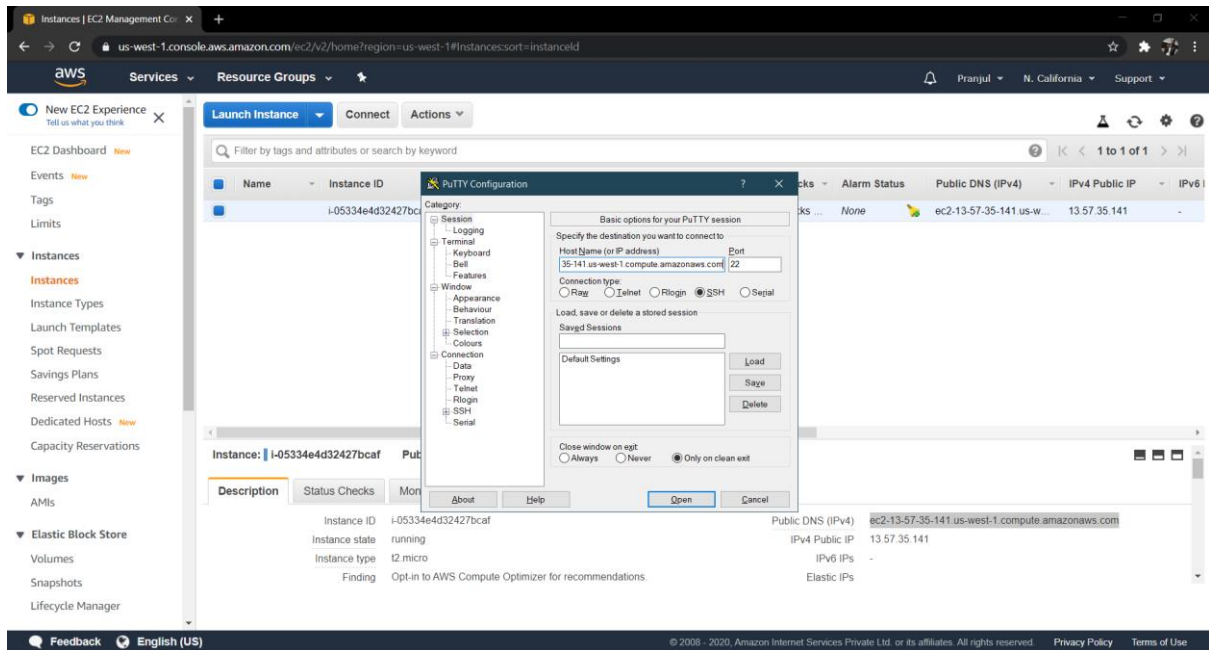
AWS allows you to create new EBS volumes and you can attach it to instances for extra storage. However, to make it usable as storage inside the instance, you need to mount it to a specific folder.

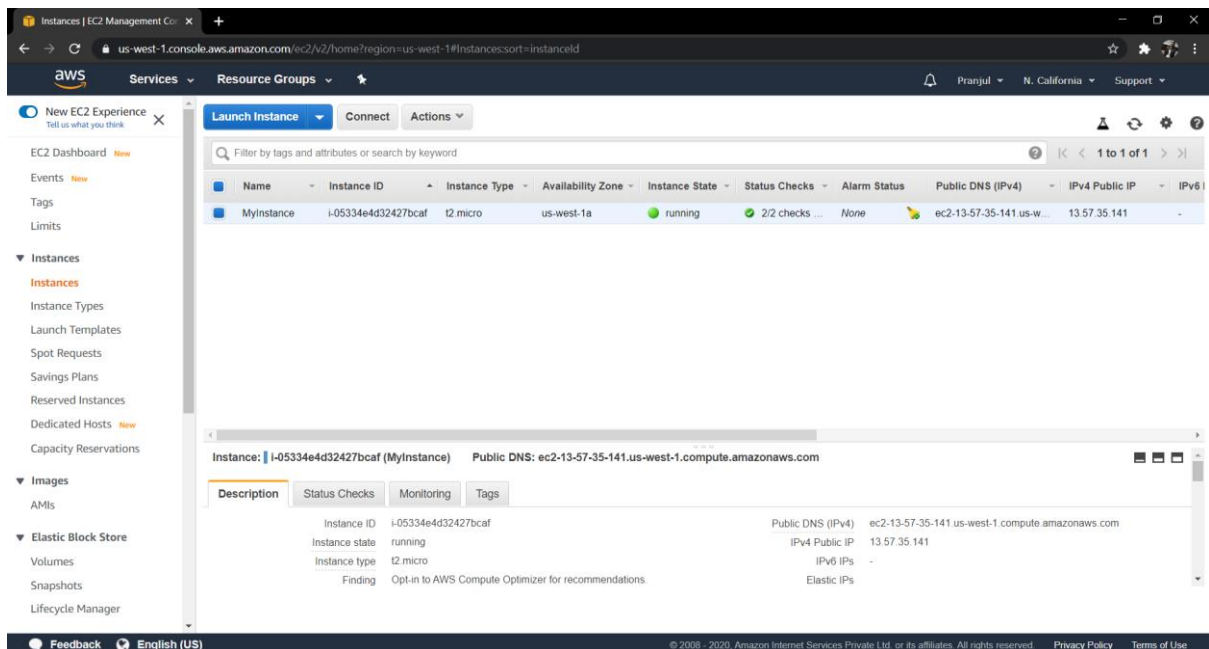
Steps:

- 1- Create an EC2 instance.
- 2- Copy the public ip



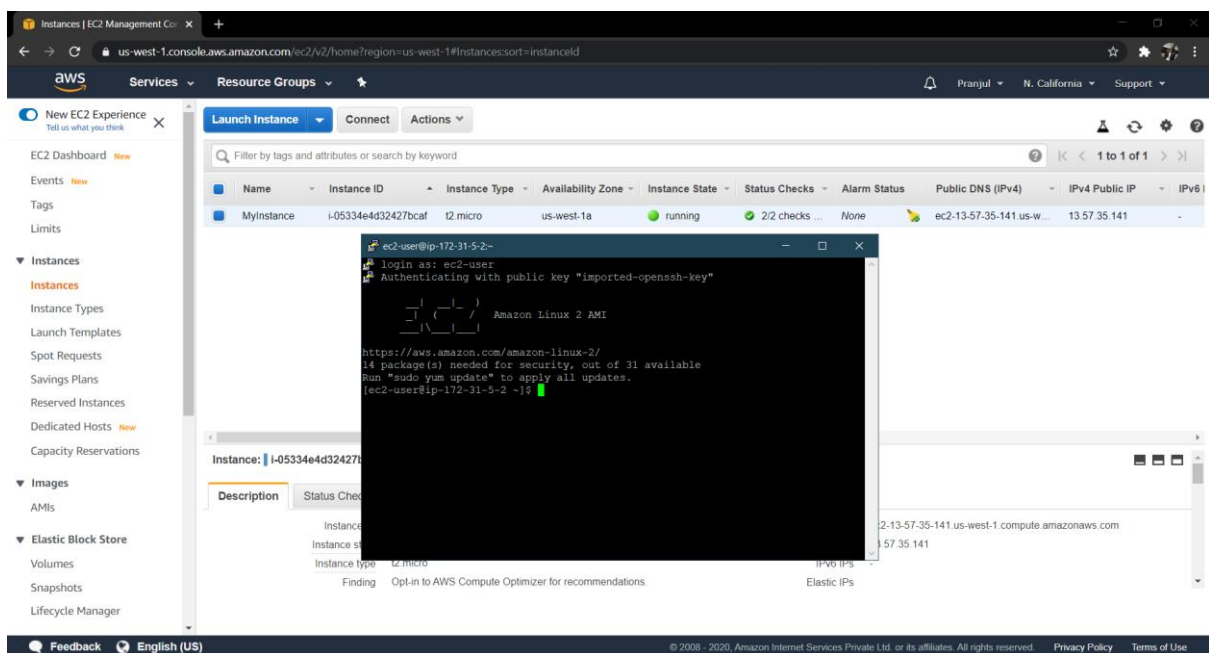
- 3- Open putty, enter the ip address.
- 4- From category click on SSH > Auth > Browse the private key file for authentication
- 5- Click on open





6- Now, for login as: use the following command

ec2-user



7- Now choose EBS > Volumes and create a new volume of your preferred size and type 3.

Note: Make sure the EBS volume and the instance are in the same zone.

Create Volume | EC2 Management Console

us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#CreateVolume:

ServicesResource Groups

PranJulN. CaliforniaSupport

Volumes > Create Volume

Create Volume

Volume TypeGeneral Purpose SSD (gp2)

Size (GiB)3 (Min: 1 GiB, Max: 16384 GiB)

IOPS100 / 3000 (Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS)

Availability Zone*us-west-1a

Throughput (MB/s)Not applicable

Snapshot IDSelect a snapshot

Encryption☐ Encrypt this volume

Key (128 characters maximum)

Value (256 characters maximum)

This resource currently has no tags
Choose the Add tag button or click to add a Name tag

FeedbackEnglish (US)

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Create Volume | EC2 Management Console

us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#CreateVolume:

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Volumes > Create Volume

Create Volume

✓ Volume created successfully

Volume ID vol-0173972f9ca24d3e1

Close

FeedbackEnglish (US)

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Volumes | EC2 Management Console

us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#Volumes:volumeId=vol-0173972f9ca24d3e1:sort=desc:createTime

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Volume ID: vol-0173972f9ca24d3e1

Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status	Attachments
EBS Volume	vol-0173972f9ca24d3e1	3 GiB	gp2	100		July 29, 2020 at 11:08:35 AM UTC+5:30	us-west-1a	available	None	

Volumes: vol-0173972f9ca24d3e1 (EBS Volume)

Description

Status Checks

Monitoring

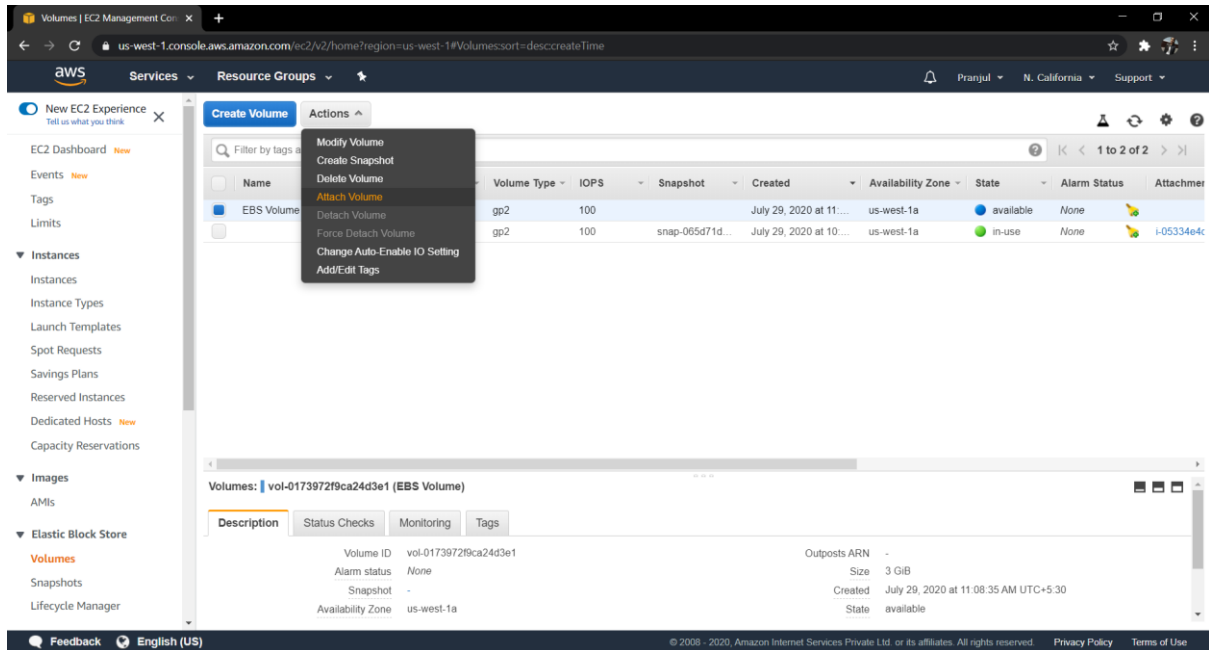
Tags

Volume ID	vol-0173972f9ca24d3e1	Outposts ARN	-
Alarm status	None	Size	3 GiB
Snapshot	-	Created	July 29, 2020 at 11:08:35 AM UTC+5:30
Availability Zone	us-west-1a	State	available
Encryption	Not Encrypted	Attachment information	

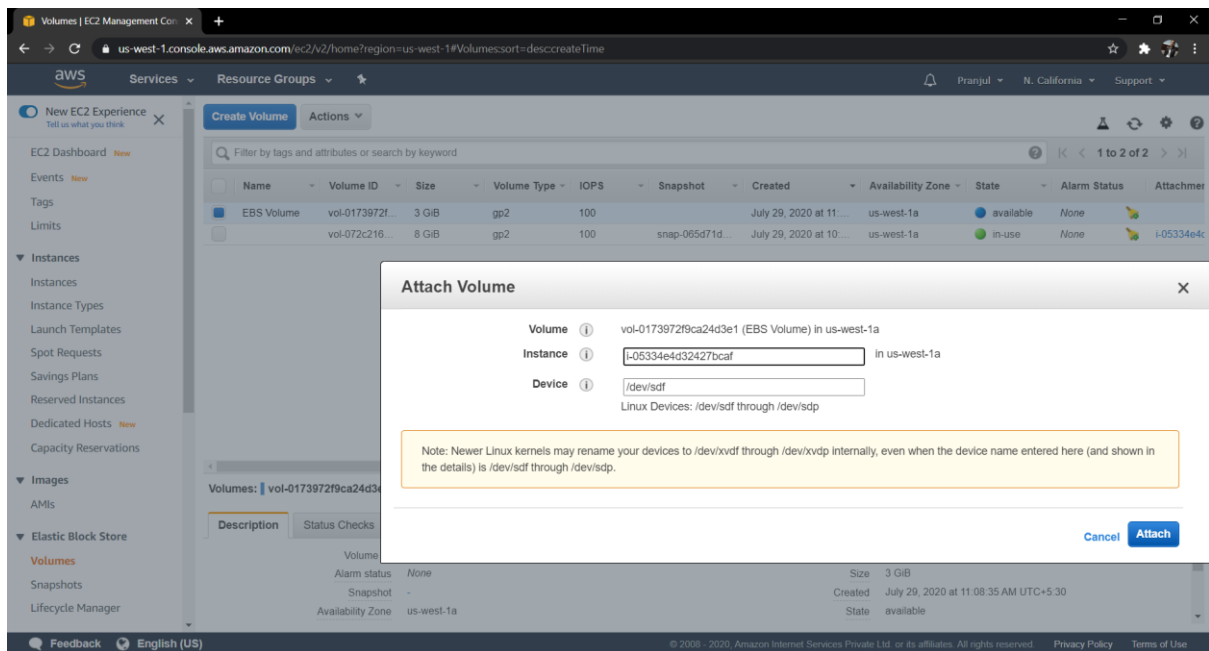
FeedbackEnglish (US)

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- 8- Select the created volume, click on actions and select the “attach volume” option.



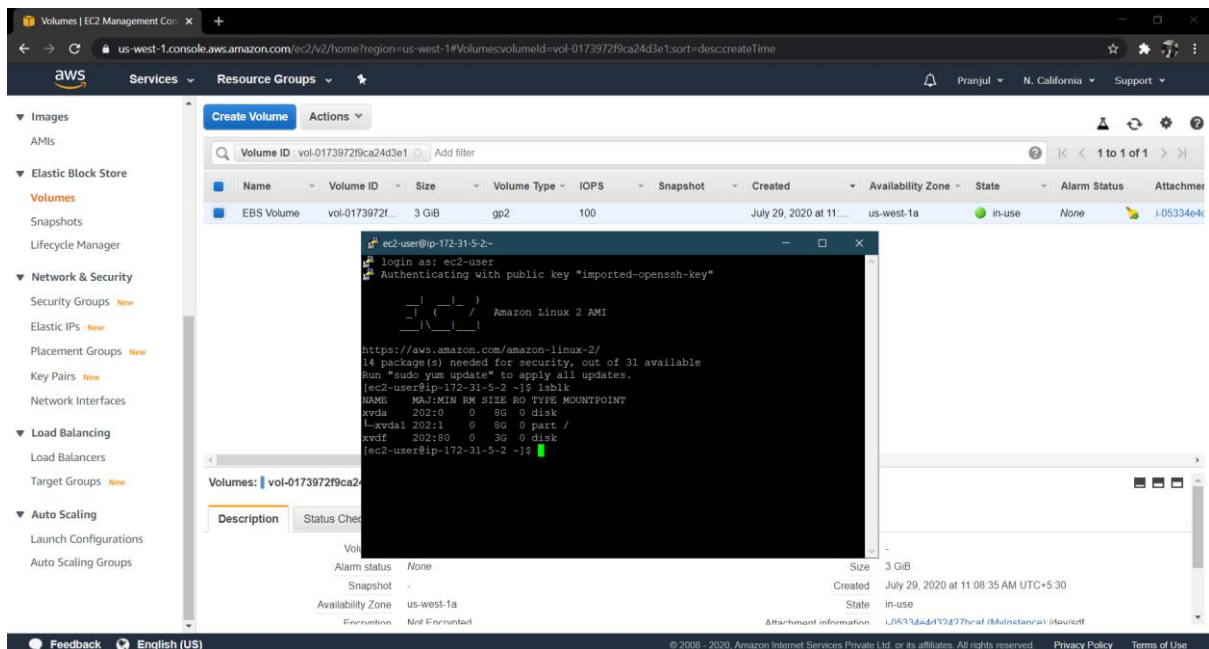
- 9- Select the running instance from the instance text box as shown below.



- 10- Now, login to your ec2 instance and list the available disks using the following command.

lsblk

This command will list the disk you attached to your instance.



Follow these following commands-

sudo su -

df -h

fdisk /dev/xvdf

m

n

p

it will ask the number of partition

enter **1**

enter the default partition number

enter the default partition number

w

lsblk

mount the partition

mkdir /tmp/disk2

mount /dev/xvdf /tmp/disk2

lsblk

df -h

(shows where the disk are mounted)

(partitioning the volume)

(shows all the tasks which can be performed)

(to partition)

(for primary)

(to exit the table)

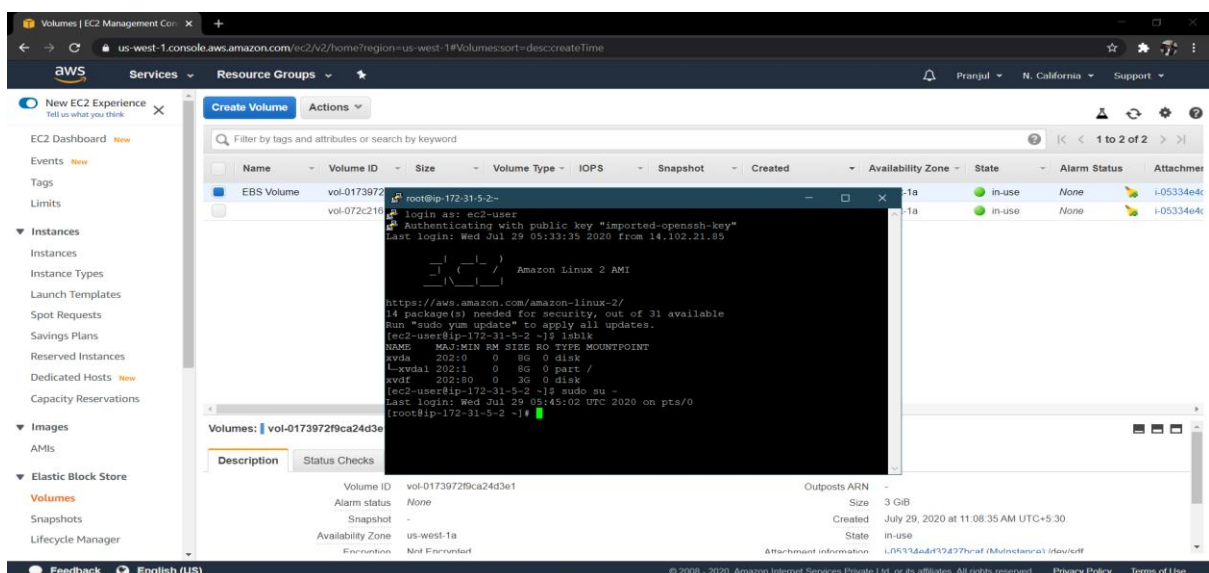
(the partition will be made)

(make a new directory)

(mount the new volume on this)

(mount can be seen)

(full details can be seen)



Volumes | EC2 Management Console

us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#Volumes:sort=desccreateTime

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Filter by tags and

Name

EBS Volume

Volume ID: vol-01739729ca24d3e1

Alarm status: None

Snapshot: -

Availability Zone: us-west-1a

Enforcement: Not Enforced

Outposts ARN: -

Size: 3 GiB

Created: July 29, 2020 at 11:08:35 AM UTC+5:30

State: in-use

Attachment information: Lf6V3Msd4F9d47hr4f (Multi-instance) /aws/cf

```
root@ip-172-31-5-2 ~# fdisk /dev/xvdf
Welcome to fdisk (util-linux 2.30.2).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Device does not contain a recognized partition table.
Created a new DOS disklabel with disk identifier 0x2f75f7a1.

Command (m for help): m

Help:
DOS (MBR)
a toggle a bootable flag
b edit nested BSD disklabel
c toggle the dos compatibility flag

Generic
d delete a partition
l list known partition types
n add a new partition
p print the partition table
t change a partition type
v verify the partition table
i print information about a partition

Misc
m print this menu
u change display/entry units
```

Volumes | EC2 Management Console

us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#Volumes:sort=desccreateTime

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Create Volume

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EBS Volume

Volume ID: vol-01739729ca24d3e1

Alarm status: None

Snapshot: -

Availability Zone: us-west-1a

Enforcement: Not Enforced

Outposts ARN: -

Size: 3 GiB

Created: July 29, 2020 at 11:08:35 AM UTC+5:30

State: in-use

Attachment information: Lf6V3Msd4F9d47hr4f (Multi-instance) /aws/cf

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root@ip-172-31-5-2 ~# fdisk /dev/xvdf
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Device does not contain a recognized partition table.
Created a new DOS disklabel with disk identifier 0x2f75f7a1.

Command (m for help):
```

Volumes | EC2 Management Console

us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#Volumes:sort=desccreateTime

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EBS Volume

Volume ID: vol-01739729ca24d3e1

Alarm status: None

Snapshot: -

Availability Zone: us-west-1a

Enforcement: Not Enforced

Outposts ARN: -

Size: 3 GiB

Created: July 29, 2020 at 11:08:35 AM UTC+5:30

State: in-use

Attachment information: Lf6V3Msd4F9d47hr4f (Multi-instance) /aws/cf

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Command (m for help):
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us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#Volumes:sort=desccreateTime

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EBS Volume

Actions

```
root@ip-172-31-5-2:~#
p print the partition table
t change a partition type
v verify the partition table
l print information about a partition

Misc
m print this menu
u change display/entry units
x extra functionality (experts only)

Script
l load disk layout from sfdisk script file
o dump disk layout to sfdisk script file

Save & Exit
w write table to disk and exit
q quit without saving changes

Create a new label
g create a new empty GPT partition table
G create a new empty SOI (IRIX) partition table
o create a new empty DOS partition table
s create a new empty Sun partition table

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): 1
First sector (2048-6291455, default 2048): 2048
Last sector, +sectors or +size[K,M,G,T,P] (2048-6291455, default 6291455): 6291455
Created a new partition 1 of type 'Linux' and of size 3 GiB.

Command (m for help):
```

Volume ID vol-01739729ca24d3e1

Alarm status None

Snapshot -

Availability Zone us-west-1a

Enforcement Not Enforced

Outposts ARN -

Size 3 GiB

Created July 29, 2020 at 11:08:35 AM UTC+5:30

State in-use

Attachment information LJA5334ad4f32d77hr4f (Multitenant) /saurloff

State in-use Alarm Status None Attachment I-05334e4c

State in-use Alarm Status None Attachment I-05334e4c

Feedback English (US)

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us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#Volumes:sort=desccreateTime

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root@ip-172-31-5-2:~#
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Command (m for help):
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Volume ID vol-01739729ca24d3e1

Alarm status None

Snapshot -

Availability Zone us-west-1a

Enforcement Not Enforced

Outposts ARN -

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Command (m for help):
```

Volume ID vol-01739729ca24d3e1

Alarm status None

Snapshot -

Availability Zone us-west-1a

Enforcement Not Enforced

Outposts ARN -

Size 3 GiB

Created July 29, 2020 at 11:08:35 AM UTC+5:30

State in-use

Attachment information LJA5334ad4f32d77hr4f (Multitenant) /saurloff

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root@ip-172-31-5-2-

```
Create a new label
g create a new empty GPT partition table
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Partition number (1-4, default 1): 1
First sector (2048-6291455, default 2048): 2048
Last sector, +sectors or +size(K,M,G,T,P) (2048-6291455, default 6291455): 6291455

Created a new partition 1 of type 'Linux' and of size 3 GiB.

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

[root@ip-172-31-5-2 ~]# lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
xvda  202:0    0  8G  0 disk
├─xvda1 202:1    0  8G  0 part /
├─xvdf  202:80   0  3G  0 disk
└─xvdf1 202:81   0  3G  0 part
```

Volume ID: vol-01739729ca24d3e1

Alarm status: None

Snapshot: -

Availability Zone: us-west-1a

Encryption: Not Encrypted

Outposts ARN: -

Size: 3 GiB

Created: July 29, 2020 at 11:08:35 AM UTC+5:30

State: in-use

Attachment information: LRA533ad4f32d779af (Muntenango) /iawicff

Feedback English (US)

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us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#Volumes:sort=desc:createTime

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root@ip-172-31-5-2-

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Create a new label
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[root@ip-172-31-5-2 ~]# lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
xvda  202:0    0  8G  0 disk
├─xvda1 202:1    0  8G  0 part /
├─xvdf  202:80   0  3G  0 disk
└─xvdf1 202:81   0  3G  0 part
```

Volume ID: vol-01739729ca24d3e1

Alarm status: None

Snapshot: -

Availability Zone: us-west-1a

Encryption: Not Encrypted

Outposts ARN: -

Size: 3 GiB

Created: July 29, 2020 at 11:08:35 AM UTC+5:30

State: in-use

Attachment information: LRA533ad4f32d779af (Muntenango) /iawicff

Feedback English (US)

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us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#Volumes:sort=desc:createTime

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root@ip-172-31-5-2-

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NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
xvda  202:0    0  8G  0 disk
├─xvda1 202:1    0  8G  0 part /
├─xvdf  202:80   0  3G  0 disk
└─xvdf1 202:81   0  3G  0 part
```

Volume ID: vol-01739729ca24d3e1

Alarm status: None

Snapshot: -

Availability Zone: us-west-1a

Encryption: Not Encrypted

Outposts ARN: -

Size: 3 GiB

Created: July 29, 2020 at 11:08:35 AM UTC+5:30

State: in-use

Attachment information: LRA533ad4f32d779af (Muntenango) /iawicff

Feedback English (US)

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us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#Volumes:sort=desc:createTime

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root@ip-172-31-5-2-~

o create a new empty DOS partition table
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Command (m for help): n

Partition type
p primary (0 primary, 0 extended, 4 free)
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Select (default p): p
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Command (m for help): w
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.

root@ip-172-31-5-2-~# lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
xvda 202:0 0 8G 0 disk
└─xvda1 202:1 0 8G 0 part /
xvdf 202:80 0 3G 0 disk
└─xvdf1 202:81 0 3G 0 part
root@ip-172-31-5-2-~# mkfs /dev/disk2
root@ip-172-31-5-2-~# mount /dev/xvdf /tmp/disk2
mount: /tmp/disk2: wrong fs type, bad option, bad superblock on /dev/xvdf, missing codepage or helper program, or other error.
root@ip-172-31-5-2-~#

Volume ID vol-0173972f9ca24d3e1

Alarm status None

Snapshot -

Availability Zone us-west-1a

Encryption Not Encrypted

Outposts ARN -

Size 3 GiB

Created July 29, 2020 at 11:08:35 AM UTC+5:30

State in-use

Attachment information LFS31da4f327b7raf (Multitenant) /aws/cf

Feedback English (US)

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us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#Volumes:sort=desc:createTime

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Name

EBS Volume

Actions

root@ip-172-31-5-2-~

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): 1
First sector (2048-6291455, default 2048): 2048
Last sector, +sectors or +size(K,M,G,T,P) (2048-6291455, default 6291455): 6291455
Created a new partition 1 of type 'Linux' and of size 3 GiB.

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

root@ip-172-31-5-2-~# lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
xvda 202:0 0 8G 0 disk
└─xvda1 202:1 0 8G 0 part /
xvdf 202:80 0 3G 0 disk
└─xvdf1 202:81 0 3G 0 part
root@ip-172-31-5-2-~# mkfs /dev/disk2
root@ip-172-31-5-2-~# mount /dev/xvdf /tmp/disk2
mount: /tmp/disk2: wrong fs type, bad option, bad superblock on /dev/xvdf, missing codepage or helper program, or other error.
root@ip-172-31-5-2-~#

Volume ID vol-0173972f9ca24d3e1

Alarm status None

Snapshot -

Availability Zone us-west-1a

Encryption Not Encrypted

Outposts ARN -

Size 3 GiB

Created July 29, 2020 at 11:08:35 AM UTC+5:30

State in-use

Attachment information LFS31da4f327b7raf (Multitenant) /aws/cf

Feedback English (US)

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us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#Volumes:sort=desc:createTime

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Create Volume

Filter by tags and

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EBS Volume

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root@ip-172-31-5-2-~

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mount: /tmp/disk2: wrong fs type, bad option, bad superblock on /dev/xvdf, missing codepage or helper program, or other error.
root@ip-172-31-5-2-~#

root@ip-172-31-5-2-~# df -h

Filesystem	Size	Used	Avail	Use%	Mounted on
devtmpfs	474M	0	474M	0%	/dev
tmpfs	492M	0	492M	0%	/dev/shm
tmpfs	492M	464K	492M	1%	/run
tmpfs	492M	0	492M	0%	/sys/fs/cgroup
/dev/xvda1	8.0G	1.3G	6.8G	16%	/
tmpfs	99M	0	99M	0%	/run/user/1000
tmpfs	99M	0	99M	0%	/run/user/0

root@ip-172-31-5-2-~#

Volume ID vol-0173972f9ca24d3e1

Alarm status None

Snapshot -

Availability Zone us-west-1a

Encryption Not Encrypted

Outposts ARN -

Size 3 GiB

Created July 29, 2020 at 11:08:35 AM UTC+5:30

State in-use

Attachment information LFS31da4f327b7raf (Multitenant) /aws/cf

Feedback English (US)

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Volumes | EC2 Management Console

us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#Volumes:sort=desc:createTime

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New EC2 Experience

EC2 DashboardEventsTagsLimitsInstancesInstance TypesLaunch TemplatesSpot RequestsSavings PlansReserved InstancesDedicated HostsCapacity ReservationsImagesAMIsElastic Block StoreVolumesSnapshotsLifecycle Manager

Create VolumeActions

Filter by tags and attributes or search by keyword

	Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status	Attachments
<input checked="" type="checkbox"/>	EBS Volume	vol-0173972f...	3 GiB	gp2	100		July 29, 2020 at 11:...	us-west-1a	in-use	None	i-05334e4c
<input type="checkbox"/>		vol-072c216...	8 GiB	gp2	100	snap-065d71d...	July 29, 2020 at 10:...	us-west-1a	in-use	None	i-05334e4c

Volumes: 1 vol-0173972f9ca24d3e1 (EBS Volume)

Description

Status ChecksMonitoringTags

Volume ID

Alarm status

Snapshot

Availability Zone

vol-0173972f9ca24d3e1

None

-

us-west-1a

Outposts ARN

Size

Created

State

-

3 GiB

July 29, 2020 at 11:08:35 AM UTC+5:30

in-use

FeedbackEnglish (US)

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