

### i. Creation of EC2 Instance (Amazon Linux AMI – us-east-1)

- ii. SSH to the EC2 instance.

- iii. Creation of External Magnetic Volume (1 GiB) and attachment to the EC2 instance.

aws

Services

Option+S

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voclabs/user2754657=chandravivek52@gmail.com @ 1080-8441-9214

EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Successfully attached volume vol-026d73b0006ad1577 to instance i-0c5b81d181b1e0719.

Volumes (2)

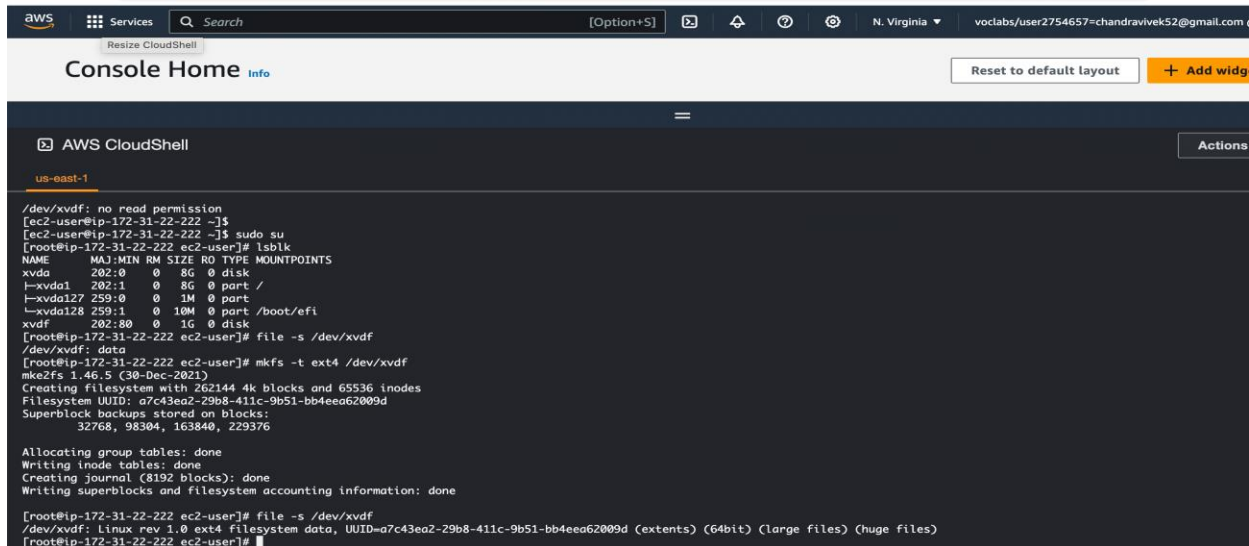
Info

Search

< 1 >

<input type="checkbox"/>	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
<input type="checkbox"/>	-	<a href="#">vol-0b549ca5cf0358c9f</a>	gp3	8 GiB	3000	125	snap-015ca71...	2023/11/16 10:19 G
<input type="checkbox"/>	vol1-1gib	<a href="#">vol-026d73b0006ad1577</a>	standard	1 GiB	-	-	-	2023/11/16 10:30 G

#### iv. Formatting the magnetic volume.



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Console Home info
Reset to default layout
+ Add widg

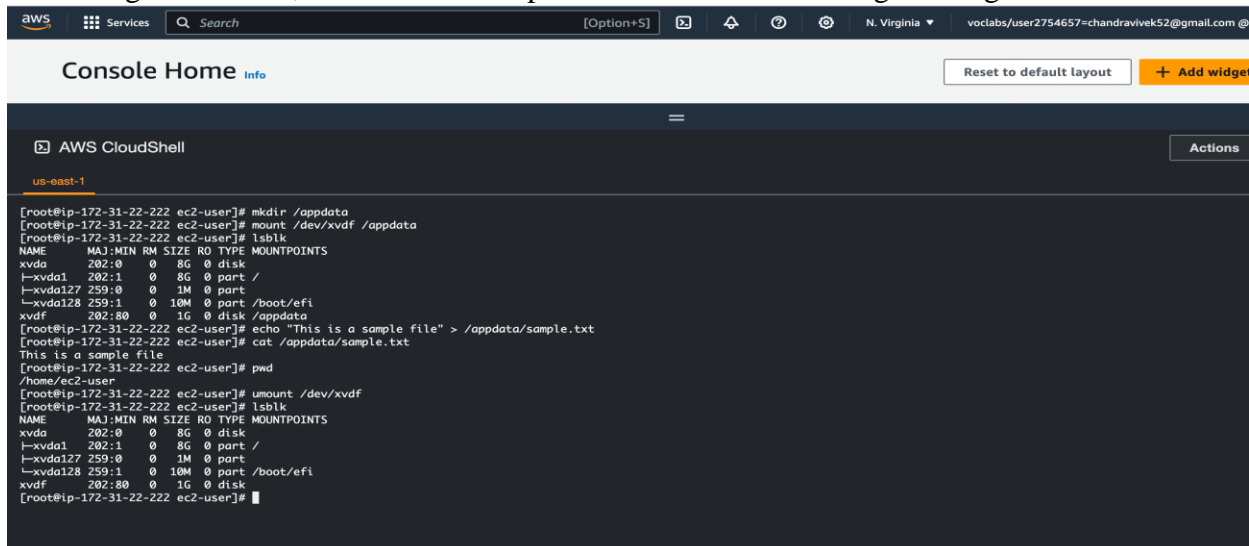
AWS CloudShell
us-east-1
Actions

/dev/xvdf: no read permission
[ec2-user@ip-172-31-22-222 ~]$
[ec2-user@ip-172-31-22-222 ~]$ sudo su
[root@ip-172-31-22-222 ec2-user]# 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 /boot/efi
└─xvdf      202:80    0   1G  0 disk
[root@ip-172-31-22-222 ec2-user]# file -s /dev/xvdf
/dev/xvdf: data
[root@ip-172-31-22-222 ec2-user]# mkfs -t ext4 /dev/xvdf
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 262144 4k blocks and 65536 inodes
Filesystem UUID: a7c43ea2-29b8-411c-9b51-bb4eea62009d
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

[root@ip-172-31-22-222 ec2-user]# file -s /dev/xvdf
/dev/xvdf: Linux rev 1.0 ext4 filesystem data, UUID=a7c43ea2-29b8-411c-9b51-bb4eea62009d (extents) (64bit) (large files) (huge files)
[root@ip-172-31-22-222 ec2-user]#
```

#### v. Mounting the volume, creation of a sample text file and unmounting the magnetic volume.



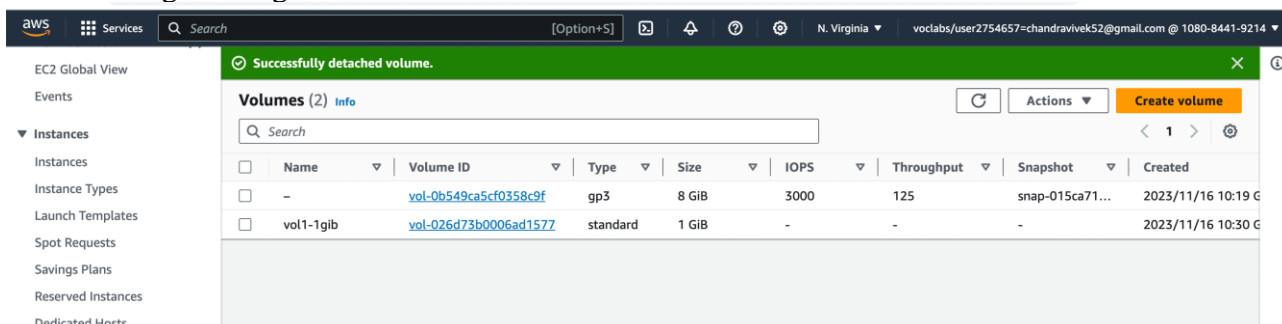
```
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Console Home info
Reset to default layout
+ Add widg

AWS CloudShell
us-east-1
Actions

[root@ip-172-31-22-222 ec2-user]# mkdir /appdata
[root@ip-172-31-22-222 ec2-user]# mount /dev/xvdf /appdata
[root@ip-172-31-22-222 ec2-user]# 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 /boot/efi
└─xvdf      202:80    0   1G  0 disk /appdata
[root@ip-172-31-22-222 ec2-user]# echo "This is a sample file" > /appdata/sample.txt
[root@ip-172-31-22-222 ec2-user]# cat /appdata/sample.txt
This is a sample file
[root@ip-172-31-22-222 ec2-user]# pwd
/home/ec2-user
[root@ip-172-31-22-222 ec2-user]# umount /dev/xvdf
[root@ip-172-31-22-222 ec2-user]# 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 /boot/efi
└─xvdf      202:80    0   1G  0 disk
[root@ip-172-31-22-222 ec2-user]#
```

#### vi. Detaching the magnetic volume.



Successfully detached volume.

Volumes (2) Info									
Search									
	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	
<input type="checkbox"/>	-	vol-0b549ca5cf0358c9f	gp3	8 GiB	3000	125	snap-015ca71...	2023/11/16 10:19 G	
<input type="checkbox"/>	vol1-1gib	vol-026d73b0006ad1577	standard	1 GiB	-	-	-	2023/11/16 10:30 G	

vii. Creation of snapshot from the magnetic volume (1 GiB).

The screenshot shows the AWS Management Console interface. A green notification banner at the top states: "Successfully created volume vol-0c44e6ac1441c80a1." Below this, the "Snapshots (1)" page is displayed. It includes a search bar, a "Recycle Bin" button, and an "Actions" dropdown. A table lists the created snapshot:

	Name	Snapshot ID	Volume size	Description	Storage tier	Snapshot status
<input type="checkbox"/>	awslab_vivekchandra_snapshot01	snap-02e5cab5ae73dc9b5	1 GiB	awslab_vivekchandra_snap...	Standard	Completed

viii. Creation of ssd-gp2 external volume (2 GiB) from the snapshot.

The screenshot shows the AWS Management Console interface. A green notification banner at the top states: "Successfully attached volume vol-0c44e6ac1441c80a1 to instance i-0c5b81d181b1e0719." Below this, the "Volumes (3)" page is displayed. It includes a search bar, an "Actions" dropdown, and a "Create volume" button. A table lists the created volumes:

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Creation time
<input type="checkbox"/>	-	vol-0b549ca5cf0358c9f	gp3	8 GiB	3000	125	snap-015ca71...	202
<input type="checkbox"/>	vol1-1gib	vol-026d73b0006ad1577	standard	1 GiB	-	-	-	202
<input type="checkbox"/>	ssd_volume_from_snapshot01	vol-0c44e6ac1441c80a1	gp2	2 GiB	100	-	snap-02e5cab...	202

ix. Attaching the ssd-gp2 volume to the EC2 Instance.

The screenshot shows the AWS Management Console interface. A green notification banner at the top states: "Successfully attached volume vol-0c44e6ac1441c80a1 to instance i-0c5b81d181b1e0719." Below this, the "Volumes (3)" page is displayed. It includes a search bar, an "Actions" dropdown, and a "Create volume" button. A table lists the attached volumes:

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Creation time
<input type="checkbox"/>	-	vol-0b549ca5cf0358c9f	gp3	8 GiB	3000	125	snap-015ca71...	202
<input type="checkbox"/>	vol1-1gib	vol-026d73b0006ad1577	standard	1 GiB	-	-	-	202
<input type="checkbox"/>	ssd_volume_from_snapshot01	vol-0c44e6ac1441c80a1	gp2	2 GiB	100	-	snap-02e5cab...	202

x. Mounting the ssd-gp2 volume and validating the existence of sample.txt file.

AWS

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EC2 Dashboard

EC2 Global View

Events

AWS CloudShell

Actions

us-east-1

[root@ip-172-31-22-222 ec2-user]# pwd

/home/ec2-user

[root@ip-172-31-22-222 ec2-user]# umount /dev/xvdf

[root@ip-172-31-22-222 ec2-user]# 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 /boot/efi

xvdf 202:80 0 1G 0 disk

[root@ip-172-31-22-222 ec2-user]# cat /appdata/sample.txt

cat: /appdata/sample.txt: No such file or directory

[root@ip-172-31-22-222 ec2-user]# 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 /boot/efi

xvdf 202:80 0 2G 0 disk

[root@ip-172-31-22-222 ec2-user]# file -s /dev/xvdf

/dev/xvdf: Linux rev 1.0 ext4 filesystem data, UUID=a7c43ea2-29b8-411c-9b51-bb4ee62009d (extents) (64bit) (large files) (huge files)

[root@ip-172-31-22-222 ec2-user]# mount /dev/xvdf /appdata

[root@ip-172-31-22-222 ec2-user]# cat /appdata/sample.txt

This is a sample file

[root@ip-172-31-22-222 ec2-user]#