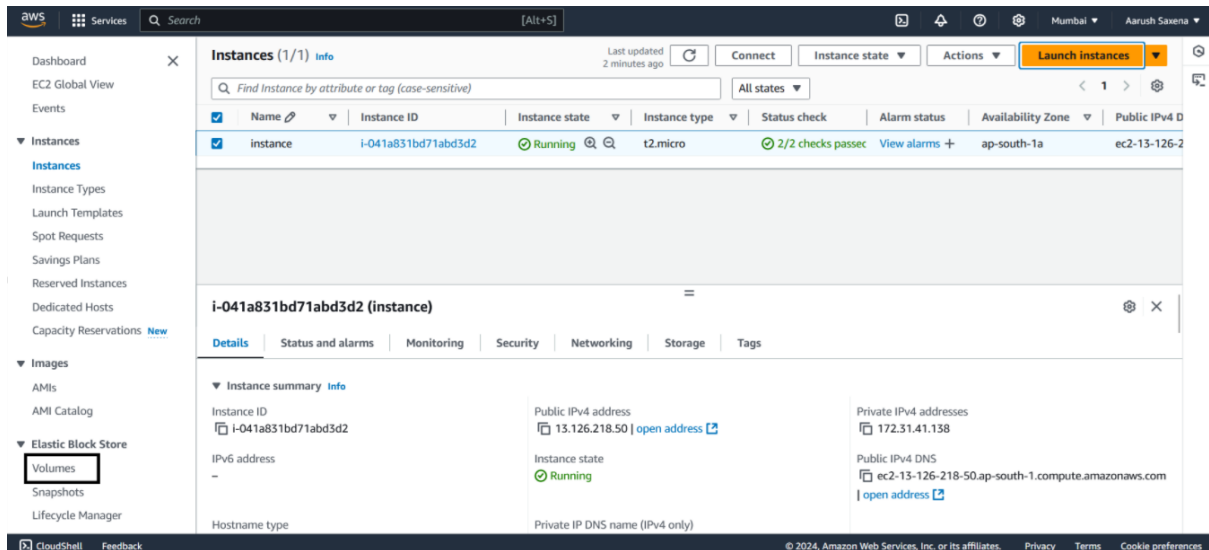
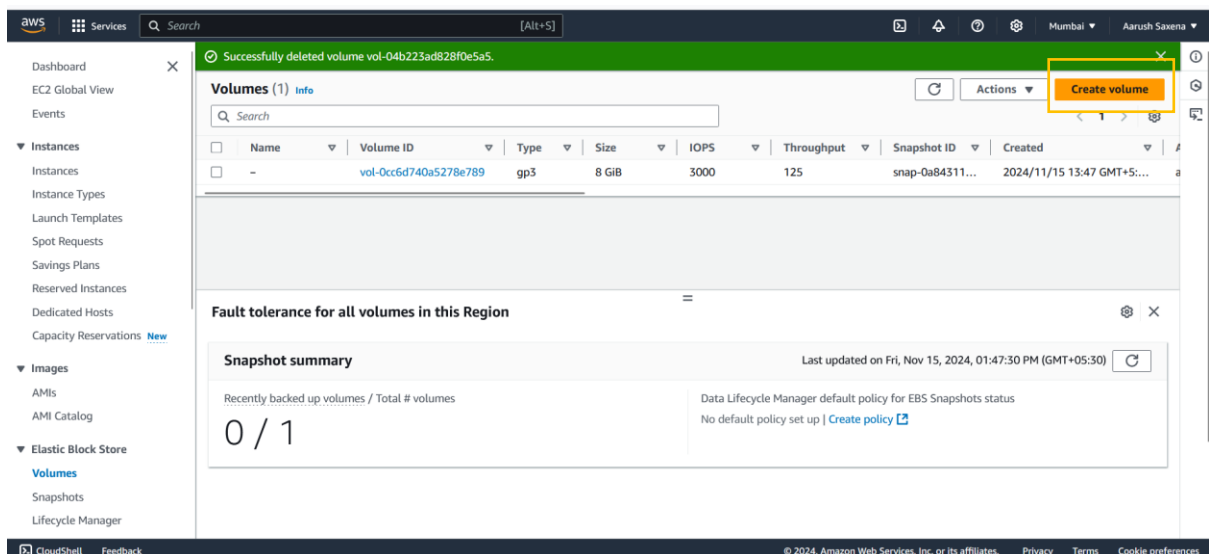


EBS(from aws linux)

First create instances and click on volumes inside Elastic Block Store



After clicking on it window will appear like this, click on create volume on the same availability zone as instance's.



After clicking on it a window will appear with volume settings, set size of volume according to your need I am going to give 10GB

Volume settings

Volume type [Info](#)
General Purpose SSD (gp3)

Size (GiB) [Info](#)
100
Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

IOPS [Info](#)
3000
Min: 3000 IOPS, Max: 16000 IOPS. The value must be an integer.

Throughput (MiB/s) [Info](#)
125
Min: 125 MiB, Max: 1000 MiB. Baseline: 125 MiB/s.

Availability Zone [Info](#)
ap-south-1a

Snapshot ID - optional [Info](#)
Don't create volume from a snapshot

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You can give tags in key value pair(optional) and click on create volume

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	
key	ebs-for-awsLinux-instance	Remove

Add tag
You can add 49 more tags.

Snapshot summary [Info](#) [Refresh](#)
Click refresh to view backup information
The volume type that you select and the tags that you assign determine whether the volume will be backed up by any Data Lifecycle Manager policies.

Cancel **Create volume**

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After clicking on it you can see your volume has been created now for your reability you can give name to it by clicking on pen same as shown in image given below.

Successfully created volume vol-04b7292e08e2411e3.

Volumes (1/2) Info

Search

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created
<input checked="" type="checkbox"/>	-	vol-0cc6d740a5278e789	gp3	8 GiB	3000	125	snap-0a84311...	2024/11/15 13:47 GMT+5:...
<input type="checkbox"/>	-	vol-04b7292e08e2411e3	gp3	10 GiB	3000	125	-	2024/11/15 14:00 GMT+5:...

Cancel Save

Volume ID: vol-0cc6d740a5278e789

Details Status checks Monitoring Tags

Volume ID: vol-0cc6d740a5278e789

Size: 8 GiB

Type: gp3

Volume status: Okay

AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations. | [Learn more](#)

Volume state: In-use

IOPS: 3000

Throughput: 125

Fast snapshot restored: No

Availability Zone: ap-south-1a

Created: Fri Nov 15 2024 13:47:15 GMT+0530 (India Standard Time)

Multi-Attach enabled: No

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Select that volume and click on actions button and click on attach volume

Successfully created volume vol-04b7292e08e2411e3.

Volumes (1/2) Info

Search

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID
<input type="checkbox"/>	-	vol-0cc6d740a5278e789	gp3	8 GiB	3000	125	snap-0a84311...
<input checked="" type="checkbox"/>	ebs-volume-to...	vol-04b7292e08e2411e3	gp3	10 GiB	3000	125	-

Actions

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

Volume ID: vol-04b7292e08e2411e3 (ebs-volume-to attach)

Details Status checks Monitoring Tags

Volume ID: vol-04b7292e08e2411e3 (ebs-volume-to attach)

Size: 10 GiB

Type: gp3

Volume status: Okay

AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations. | [Learn more](#)

Volume state: Available

IOPS: 3000

Throughput: 125

Fast snapshot restored: No

Availability Zone: ap-south-1a

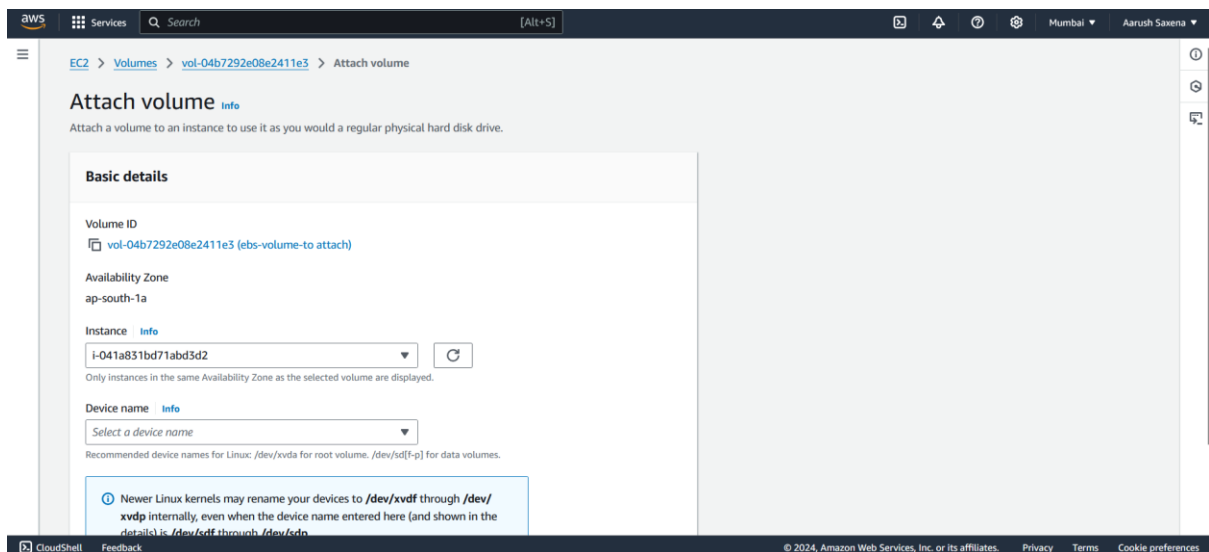
Created: Fri Nov 15 2024 14:00:02 GMT+0530

Multi-Attach enabled: No

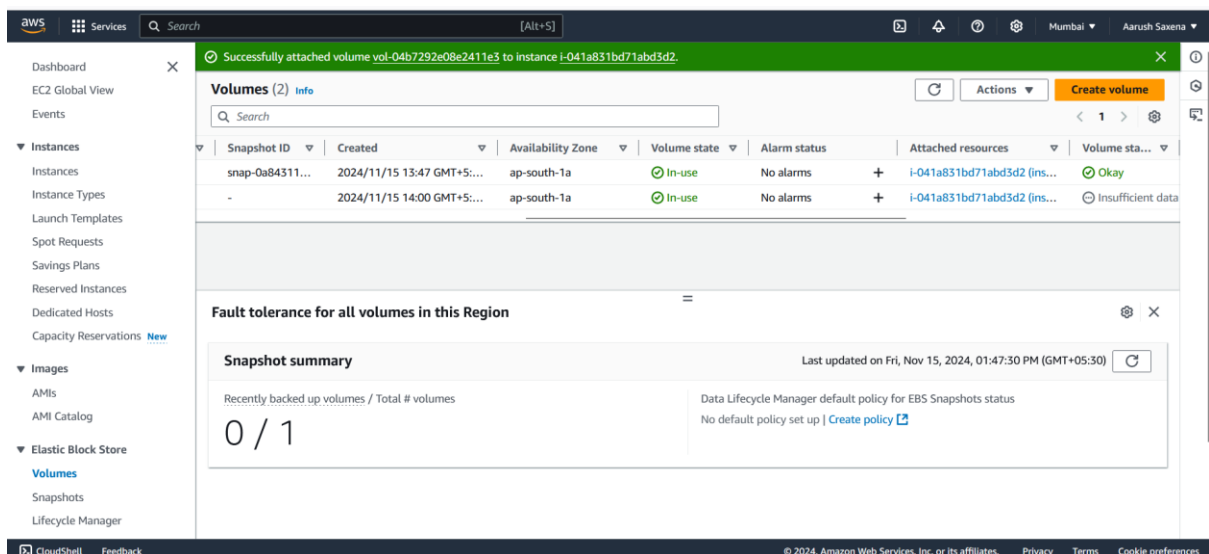
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A window will appear like this and select your instance which you want to attach to your instance, give device name to it and click on attach volume.



Now you can see your created volume has been attached and is in use



Go back to instances and Connect your instance through ec2-connect
After connecting it type commands as follow:-

1. sudo su
2. yum update
3. lsblk(for listing attach volumes)

4. file -s /dev/xvdf (to check volume is empty or not)
5. mkfs.ext4 /dev/xvdf (to format volume)
6. mkdir vol (to add data to dir to store in volume)

Keyboard shortcut
To tab out of the terminal window and select the next button element, press the left and right Shift keys together.

Package	Architecture	Version	Repository	Size
dracut	x86_64	102-3.amzn2023.0.1	amazonlinux	418 k
dracut-config-generic	x86_64	102-3.amzn2023.0.1	amazonlinux	13 k

```

Transaction Summary
Skip 2 Packages
Nothing to do.
Complete!
[root@ip-172-31-41-138 ec2-user]# ls blk
ls: cannot access 'blk': No such file or directory
[root@ip-172-31-41-138 ec2-user]# lsblk
bash: lsblk: command not found
[root@ip-172-31-41-138 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 10G  0 disk 

```

i-041a831bd71abd3d2 (instance)
PublicIPs: 13.126.218.50 PrivateIPs: 172.31.41.138

```

xvda128 259:1    0  10M  0 part /boot/efi
xvdf      202:80   0 10G  0 disk 
[root@ip-172-31-41-138 ec2-user]# file -s /dev/xvdf
/dev/xvdf: data
[root@ip-172-31-41-138 ec2-user]#

```

i-041a831bd71abd3d2 (instance)
PublicIPs: 13.126.218.50 PrivateIPs: 172.31.41.138

```

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 10G  0 disk 
[root@ip-172-31-41-138 ec2-user]# mkdir vol
[root@ip-172-31-41-138 ec2-user]# ls
vol
[root@ip-172-31-41-138 ec2-user]# cd
[root@ip-172-31-41-138 ~]# cd vo
bash: cd: vo: No such file or directory
[root@ip-172-31-41-138 ~]# cd vol
bash: cd: vol: No such file or directory
[root@ip-172-31-41-138 ~]# ls
[root@ip-172-31-41-138 ~]# cd /home/ec2-user
[root@ip-172-31-41-138 ec2-user]# ls
vol
[root@ip-172-31-41-138 ec2-user]# cd vol/
[root@ip-172-31-41-138 vol]# ls
[root@ip-172-31-41-138 vol]# vi text.txt
[root@ip-172-31-41-138 vol]# cat text.txt
#bin/bash
echo "hello sir "
[root@ip-172-31-41-138 vol]#

```

i-041a831bd71abd3d2 (instance)
PublicIPs: 13.126.218.50 PrivateIPs: 172.31.41.138

After storing some data to volume you can see that data is store in that volume or not for that type command on this path root path
root@ip-172-31-41-138 ec2-user

file -s /dev/xvdf

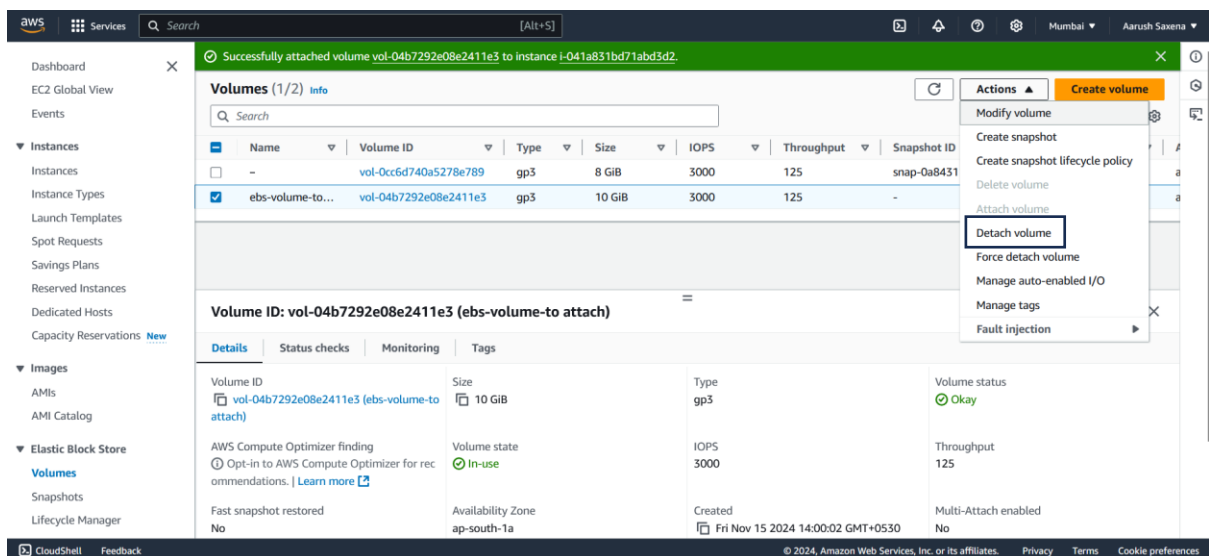
```
[xvdf127 259:0 0 1M 0 part
xvdf128 259:1 0 10M 0 part /boot/efi
xvdf 202:80 0 10G 0 disk
[root@ip-172-31-41-138 ec2-user]# file -s /dev/xvdf
/dev/xvdf: Linux rev 1.0 ext4 filesystem data, UUID=21fa6cff-db4c-4602-9d8f-1f6bb76d30ab (extents) (64bit) (large files) (huge files)
[root@ip-172-31-41-138 ec2-user]#
```

i-041a831bd71abd3d2 (instance)
PublicIPs: 13.126.218.50 PrivateIPs: 172.31.41.138

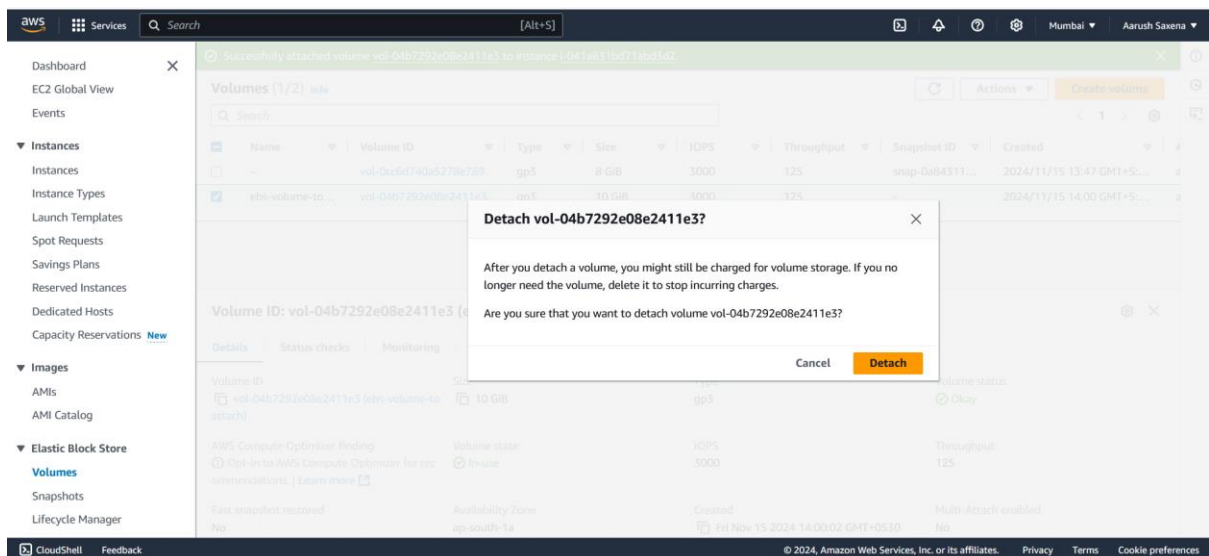
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And after that you can detach that volume also as shown below

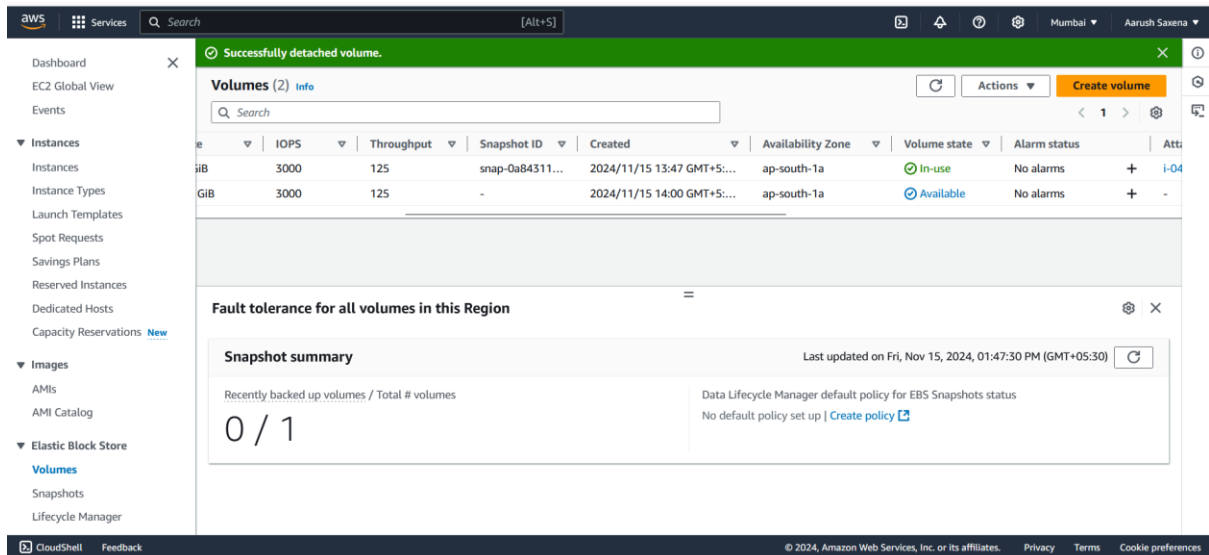
Go to volumes select that volume click on actions and click on detach volume



A window will appear and on that click on detach.

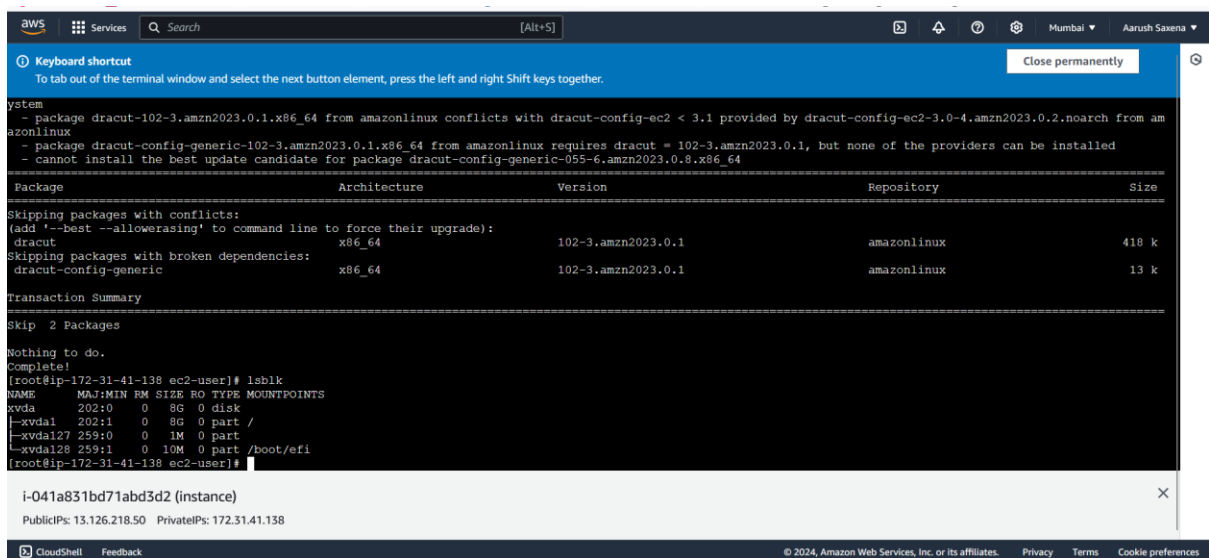


After refreshing it you can see volume shows available option which means it is detached with the instance.



Go back to ec2-connect and type

1. yum update
2. lsblk



Now you can see volume has been detached successfully from instance and data on that volume is stored on that volume.

Now you can terminate the instance.