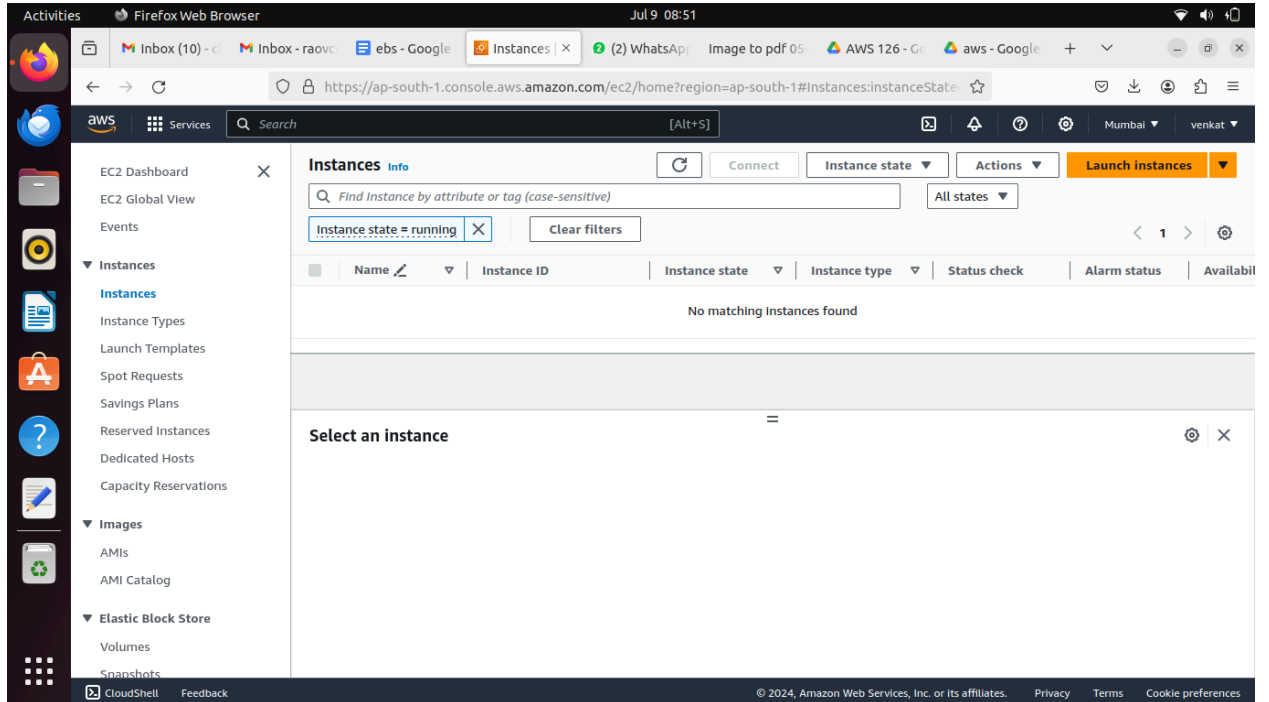
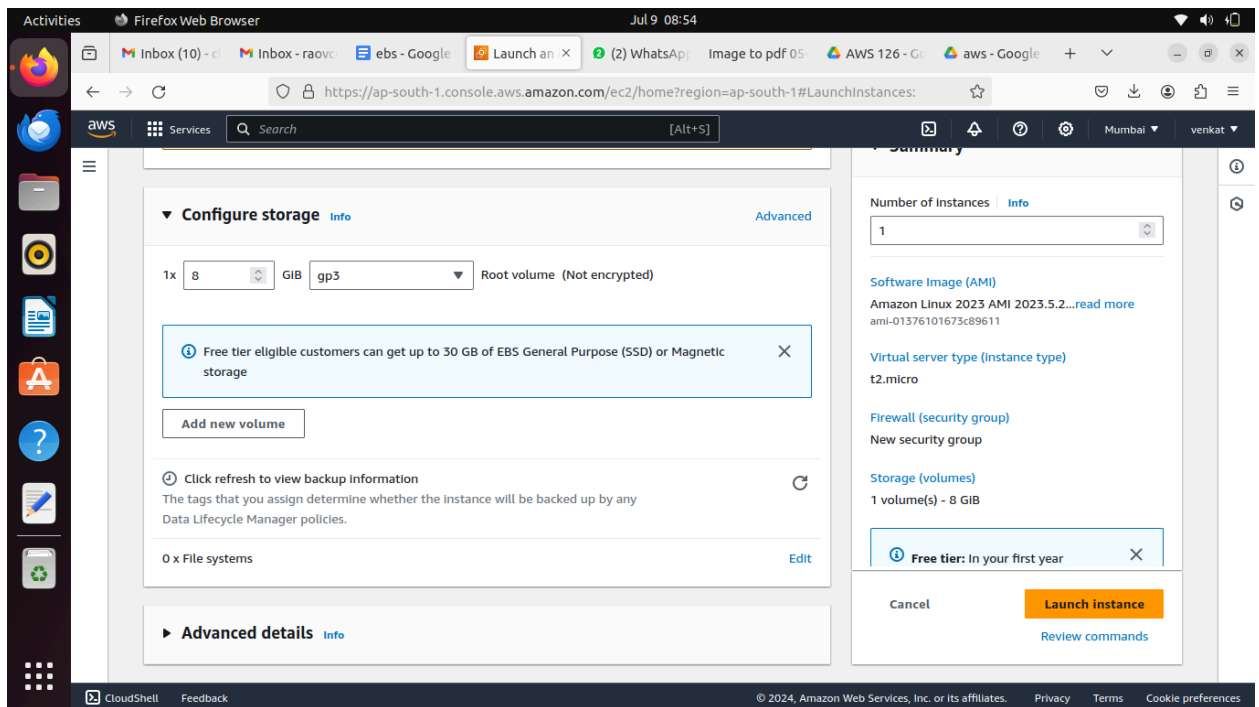
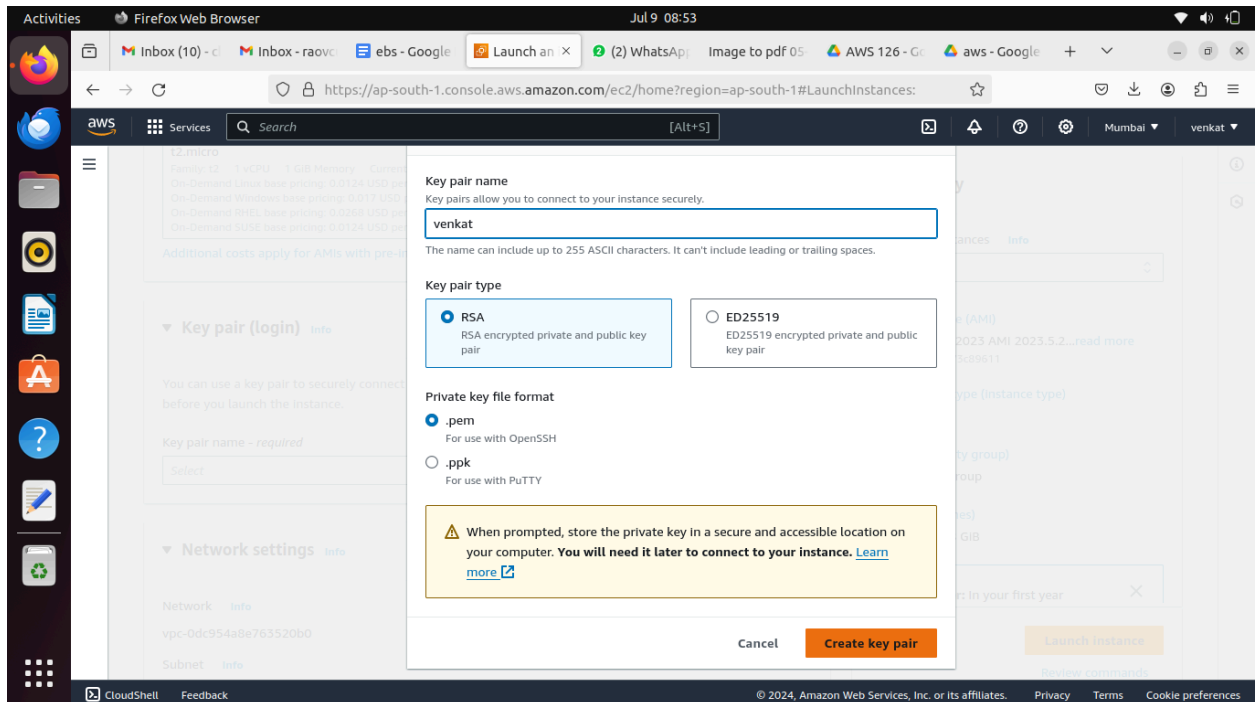


# EBS

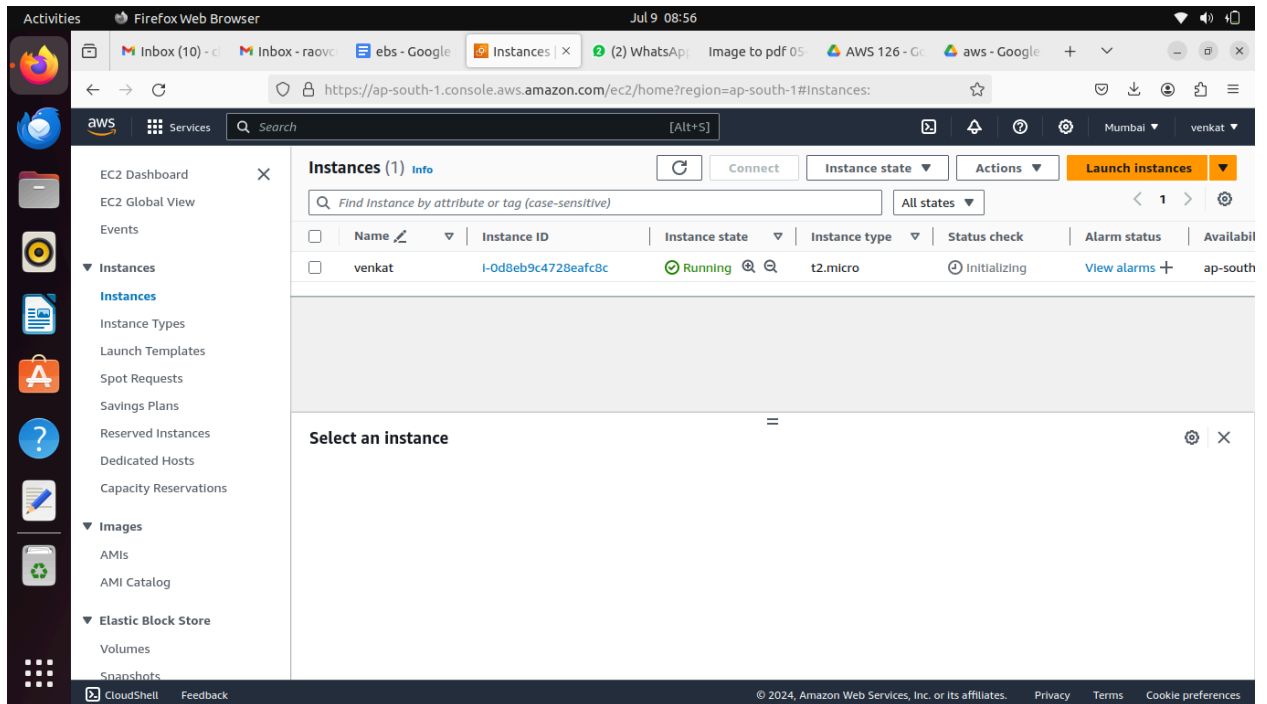
- 1) Login aws console account
- 2) Go to ec2
- 3) Launch one instance name = venkat



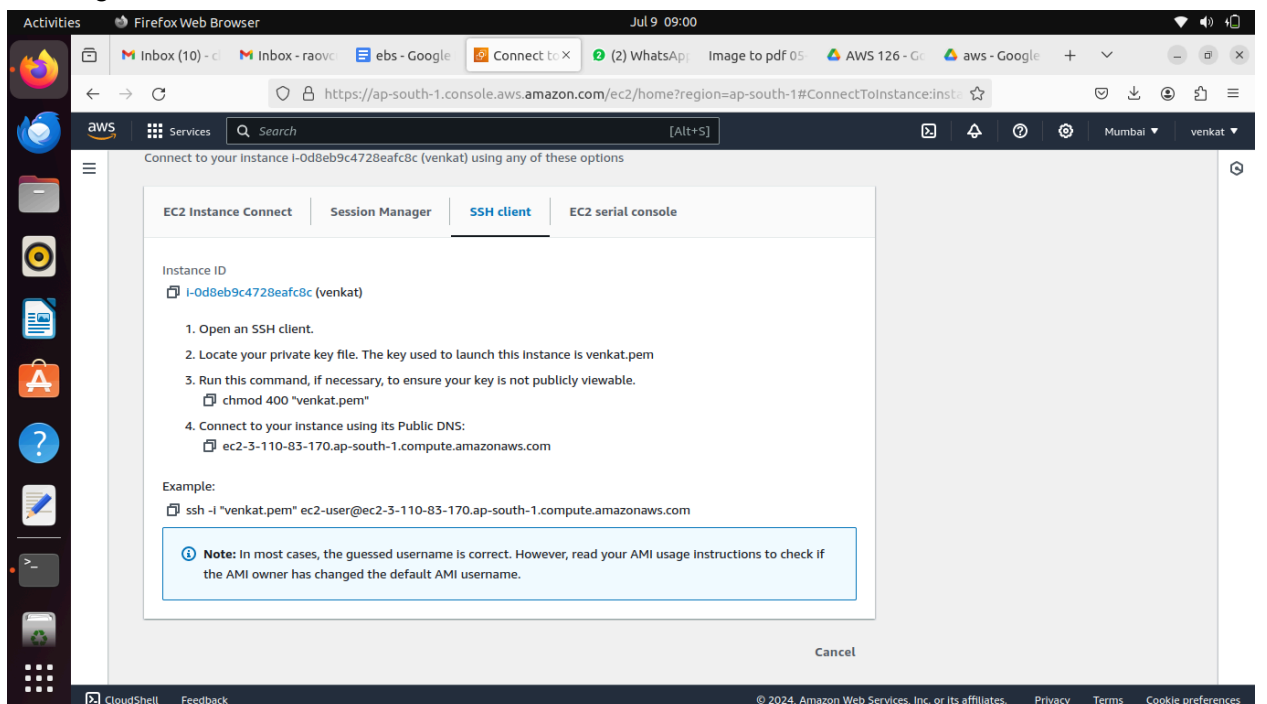
- 4) Click on launch instances
- 5) Give name = venkat
- 6) Create new key pair name= venkat



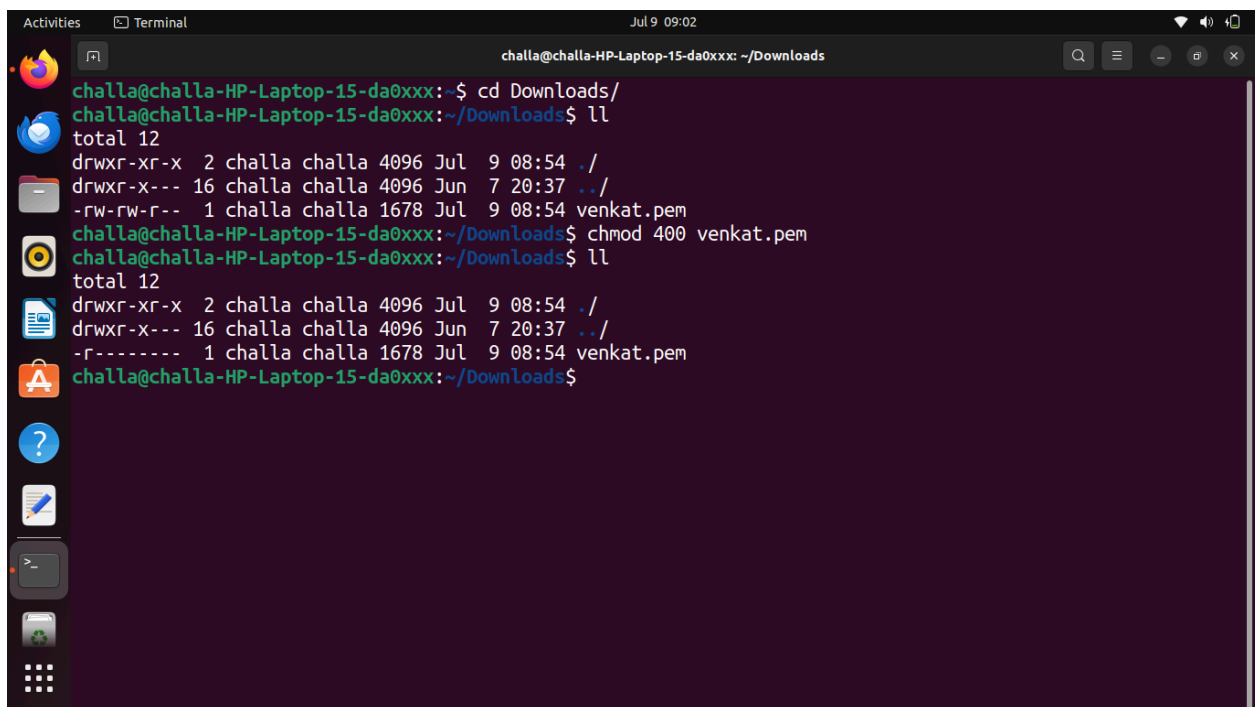
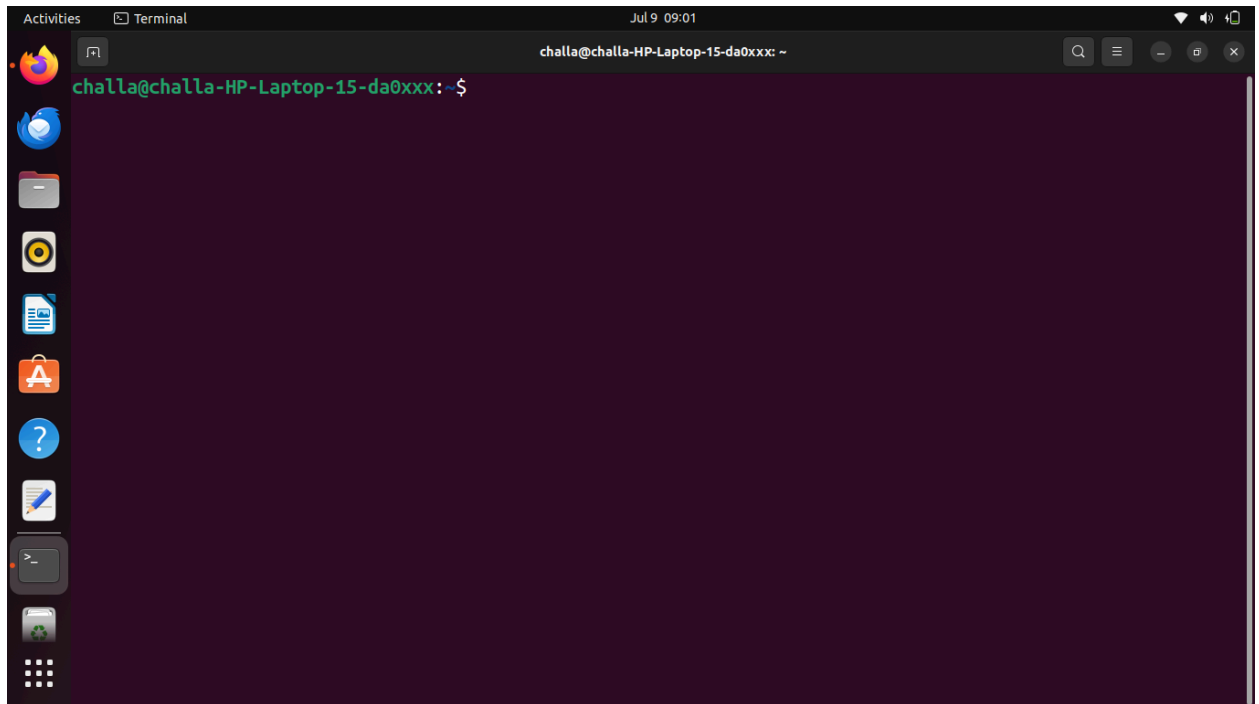
- 7) size= 8gb
- 8) Click on launch instance
- 9) Now go to instance and connect it using vm ware or gitbash or any terminal



- 10) Select venkat server click on connect
- 11) Next click on ssh and key permissions only 400
- 12) Next login it



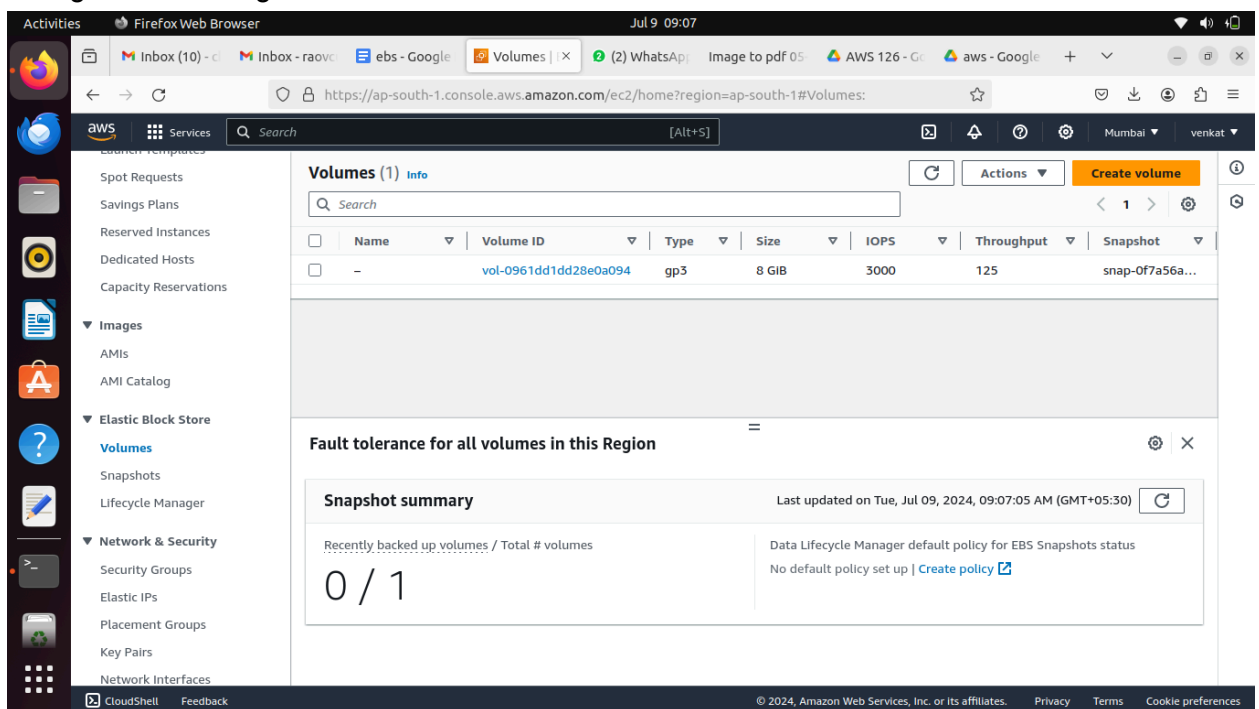
- 13) Open terminal go to pemkey location and change file permissions as using `#chmod 400 venkat.pem`





```
Activities Terminal Jul 9 09:05 root@ip-172-31-47-64:~
[ec2-user@ip-172-31-47-64 ~]$ sudo -i
[root@ip-172-31-47-64 ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M   0  4.0M   0% /dev
tmpfs           475M   0  475M   0% /dev/shm
tmpfs           190M 444K  190M   1% /run
/dev/xvda1       8.0G  1.6G  6.5G  20% /
tmpfs           475M   0  475M   0% /tmp
/dev/xvda128     10M  1.3M   8.7M  13% /boot/efi
tmpfs           95M   0   95M   0% /run/user/1000
[root@ip-172-31-47-64 ~]# 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
[root@ip-172-31-47-64 ~]#
```

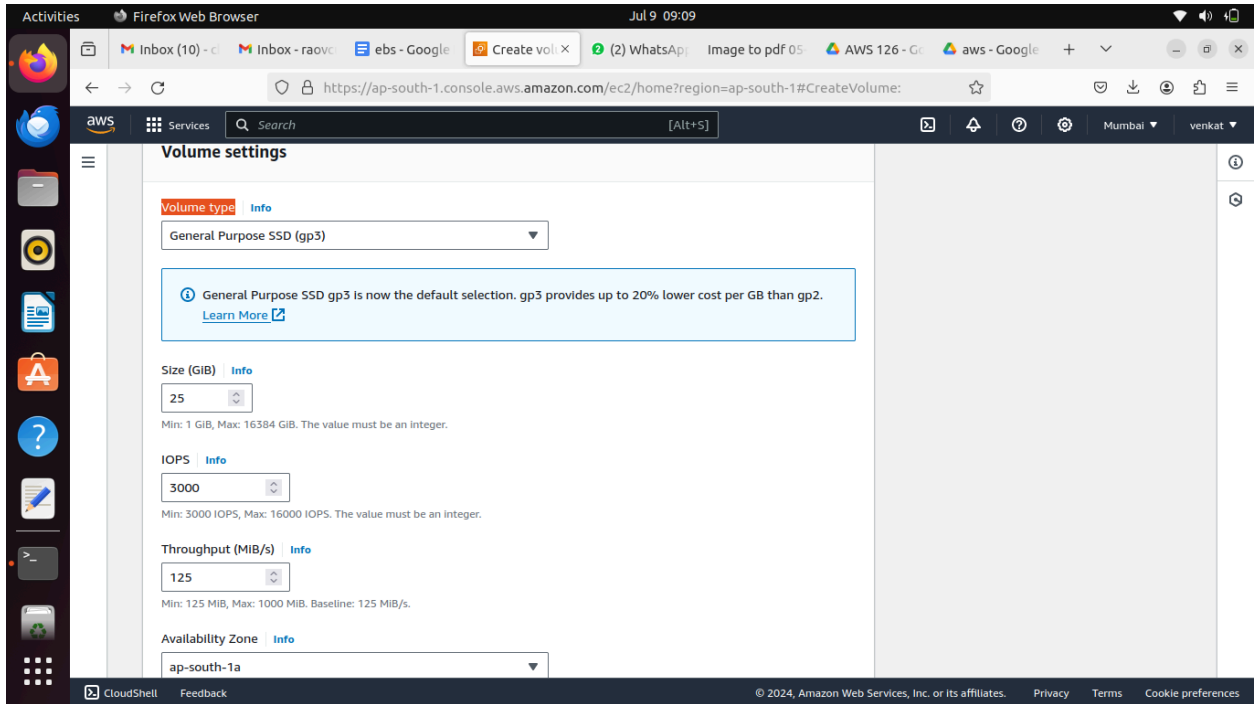
18) Now go to ec2 and go to volumes check available volumes



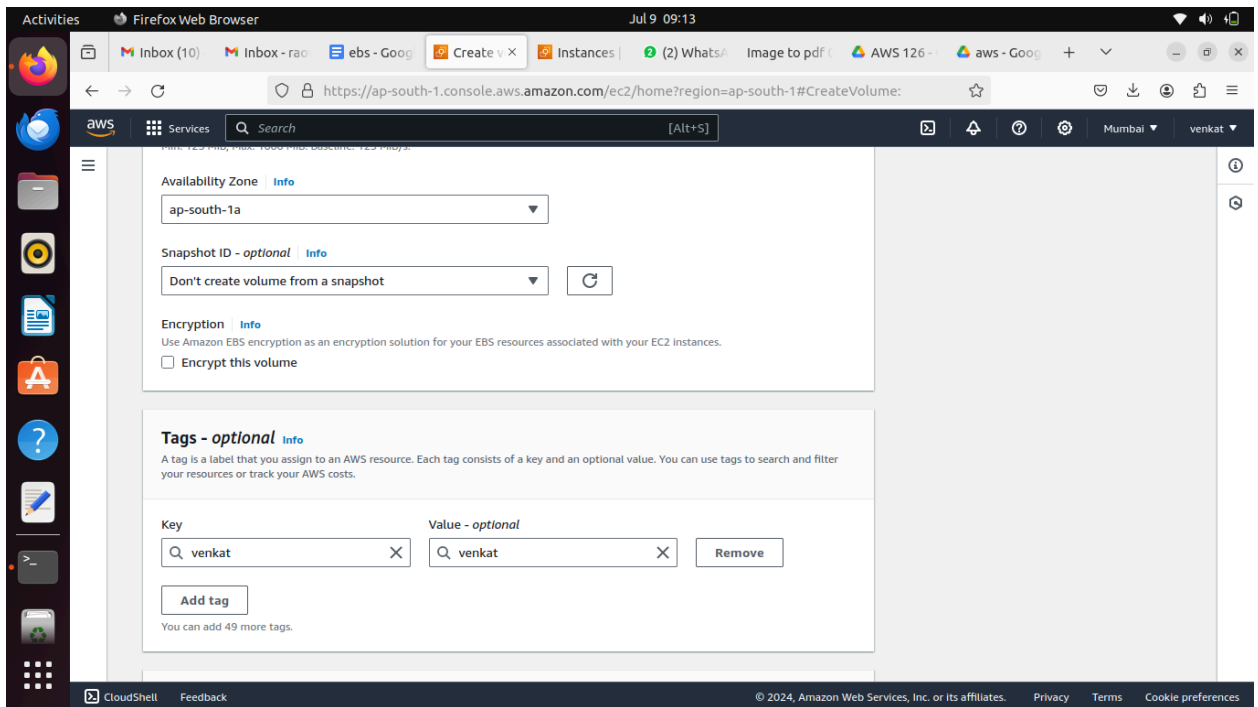
19) Click on create volume

20) Volume type= select your wish

21) size(GB)= 25 (how much you need your wish)



22) See our venkat instance availability zone and select same availability zone otherwise we did not attach it so must and should use Availability Zone



23) Click create volume

Activities Firefox Web Browser Jul 9 09:16

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

Successfully created volume vol-0b594a912591ecddb.

EC2 Dashboard EC2 Global View Events

Instances

Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations

Images

AMIs AMI Catalog

Elastic Block Store

Volumes Snapshots

Volumes (1/2) Info

Search

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot
<input type="checkbox"/>	-	vol-0961dd1dd28e0a094	gp3	8 GiB	3000	125	snap-0f7a56a...
<input checked="" type="checkbox"/>	venkat	vol-0b594a912591ecddb	gp3	25 GiB	3000	125	-

Volume ID: vol-0b594a912591ecddb (venkat)

Details Status checks Monitoring Tags

Volume ID vol-0b594a912591ecddb (venkat)

Size 25 GiB

Type gp3

Volume status Okay

AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. | Learn more

Volume state Creating

IOPS 3000

Throughput 125

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24)

25) Now select venkat volume and click on actions

26) Click on attach volume

Activities Firefox Web Browser Jul 9 09:17

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

Successfully created volume vol-0b594a912591ecddb.

EC2 Dashboard EC2 Global View Events

Instances

Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations

Images

AMIs AMI Catalog

Elastic Block Store

Volumes Snapshots

Volumes (1/2) Info

Search

Volume state	Alarm status	Attached resources	Volume sta...	Enc...
<span>In-use</span>	No alarms	<span>+</span> i-0d8eb9c4728eafc8c (ven...	<span>Okay</span>	Not
<span>Available</span>	No alarms	<span>+</span> -	<span>Okay</span>	Not

Volume ID: vol-0b594a912591ecddb (venkat)

Details Status checks Monitoring Tags

Volume ID vol-0b594a912591ecddb (venkat)

Size 25 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

Actions

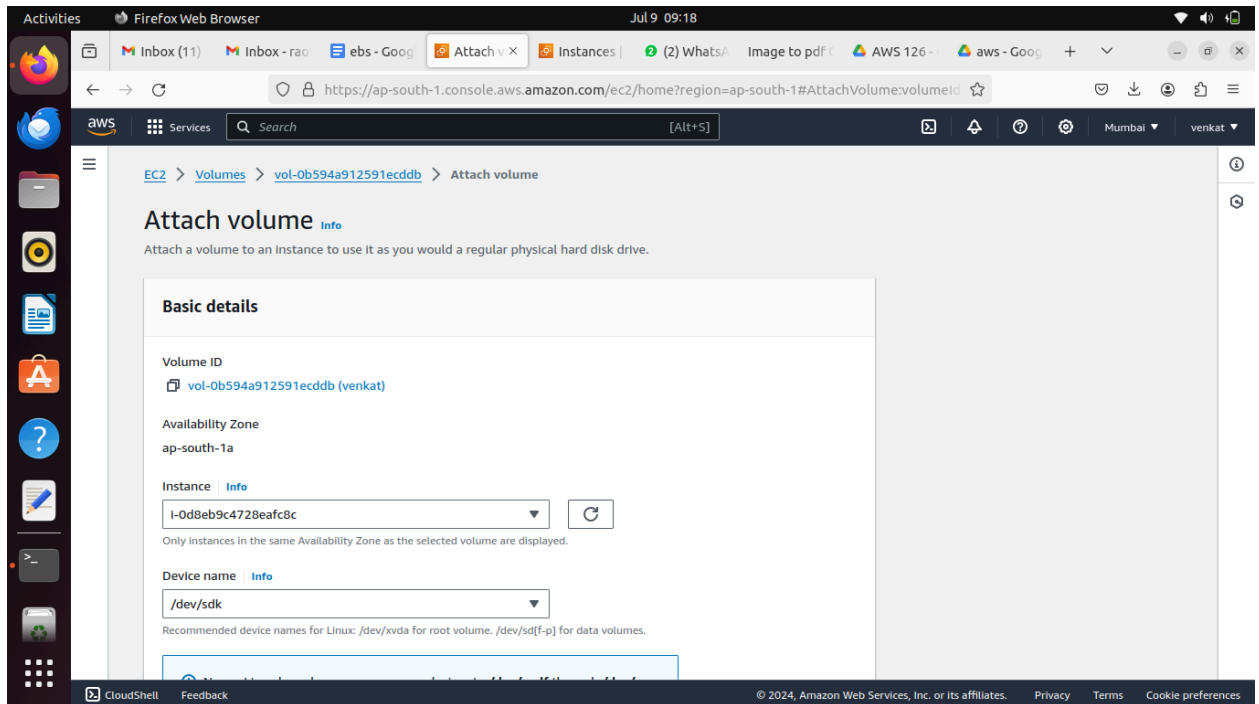
- Modify volume
- Create snapshot
- Create snapshot lifecycle policy
- Delete volume
- Attach volume
- Detach volume
- Force detach volume
- Manage auto-enabled I/O
- Manage tags
- Fault injection

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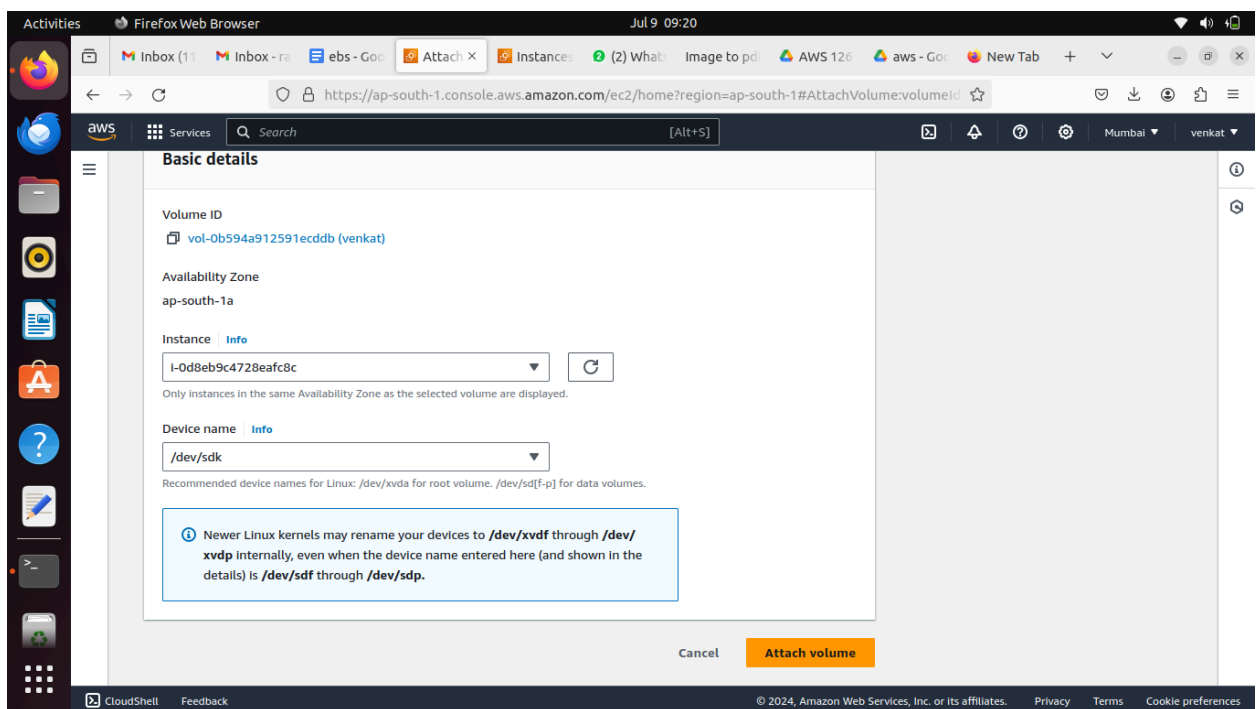
27) Select instance = venkat

28) Device name = /dev/sdfc (select your wish)





29) Click on attach volume



30)

31) Now login to server and check using #lsblk

```
Activities Terminal Jul 9 09:27 root@ip-172-31-47-64:~
[ec2-user@ip-172-31-47-64 ~]$ sudo -i
[root@ip-172-31-47-64 ~]# 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
xvdk         202:160  0  25G  0 disk
[root@ip-172-31-47-64 ~]#
```

32)

33) If its not show once reboot your ec2 server and chack it (before rebot your ec2 instance take permissions your all tems and do it)

34) Now check it has file system or not using #file -s /dev/xvdk (no data only show data)

35) Now make a file system using #mkfs.xfs /dev/xvdk (file system use xfs or ext2 or ext3 or ext4 like as your wish)

36) Now check file system create or not using #file -s /dev/xvdk

```
Activities Terminal Jul 9 09:33 root@ip-172-31-47-64:~
[ec2-user@ip-172-31-47-64 ~]$ sudo -i
[root@ip-172-31-47-64 ~]# 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
xvdk         202:160  0  25G  0 disk
[root@ip-172-31-47-64 ~]# file -s /dev/xvdk
/dev/xvdk: data
[root@ip-172-31-47-64 ~]# mkfs.xfs /dev/xvdk
meta-data=/dev/xvdk             isize=512    agcount=4, agsize=1638400 blks
=                               sectsz=512   attr=2, projid32bit=1
=                               crc=1      finobt=1, sparse=1, rmapbt=0
=                               reflink=1  bigtime=1 inobtcount=1
data      =                       bsize=4096  blocks=6553600, imaxpct=25
=                               sunit=0      swidth=0 blks
naming    =version 2             bsize=4096  ascii-ci=0, ftype=1
log       =internal log         bsize=4096  blocks=16384, version=2
=                               sectsz=512   sunit=0 blks, lazy-count=1
realtime  =none                 extsz=4096  blocks=0, rtextents=0
[root@ip-172-31-47-64 ~]# file -s /dev/xvdk
/dev/xvdk: SGI XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
[root@ip-172-31-47-64 ~]#
```

37)

38) Now mount the desk /dev/xvdk

39) Before mount you need create directory #mkdir madam

40) Now mount #mount /dev/xvdk madam

41) Now check it available for using #df -h

```
Activities Terminal Jul 9 09:37 root@ip-172-31-47-64:~  
[root@ip-172-31-47-64 ~]# 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  
xvdk        202:160  0  25G  0 disk  
[root@ip-172-31-47-64 ~]# mkdir madam  
[root@ip-172-31-47-64 ~]# ll  
total 0  
drwxr-xr-x. 2 root root 6 Jul  9 04:06 madam  
[root@ip-172-31-47-64 ~]# mount /dev/xvdk madam/  
[root@ip-172-31-47-64 ~]# df -h  
Filesystem      Size  Used Avail Use% Mounted on  
devtmpfs        4.0M  0    4.0M   0% /dev  
tmpfs           475M  0   475M   0% /dev/shm  
tmpfs           190M  440K  190M   1% /run  
/dev/xvda1      8.0G  1.6G  6.5G  20% /  
tmpfs           475M  0   475M   0% /tmp  
/dev/xvda128    10M  1.3M  8.7M  13% /boot/efi  
tmpfs           95M  0    95M   0% /run/user/1000  
/dev/xvdk       25G  211M  25G   1% /root/madam  
[root@ip-172-31-47-64 ~]#
```

42)

43) Now try to attach this venkat volume to another server (it not attach but check once)

44) Create rao instance try to attach it

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Instances' page is active, displaying a list of instances. The 'rao' instance (ID: i-01f503972cece2eb5) is selected, and its details are shown. The instance is running and has a public IPv4 address of 3.109.214.86. The 'venkat' volume (ID: I-0d8eb9c4728eafc8c) is also shown as attached to the instance.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
rao	i-01f503972cece2eb5	Running	t2.micro	-	View alarms	ap-south
venkat	I-0d8eb9c4728eafc8c	Running	t2.micro	2/2 checks passed	View alarms	ap-south

**i-01f503972cece2eb5 (rao)**

**Details** | Status and alarms | Monitoring | Security | Networking | Storage | Tags

**Instance summary**

Instance ID	Public IPv4 address	Private IPv4 addresses
i-01f503972cece2eb5 (rao)	3.109.214.86   open address	172.31.38.38

**Instance state**

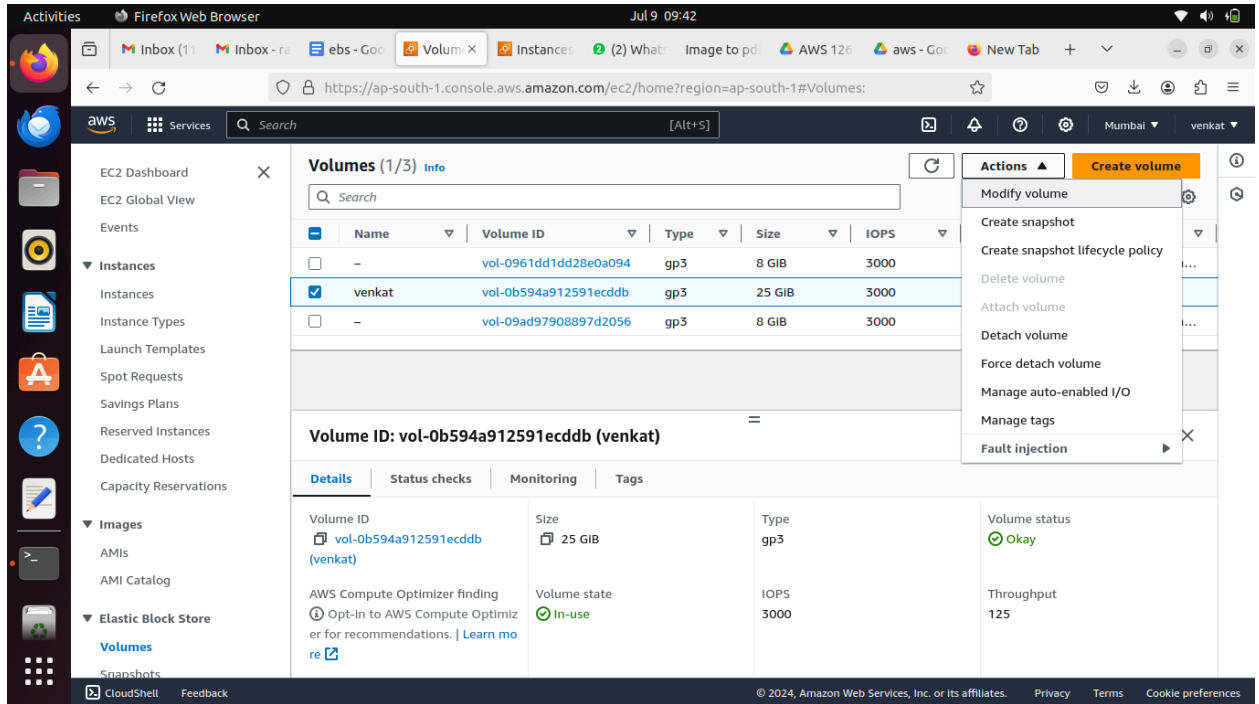
Running

**Public IPv4 DNS**

ec2-3-109-214-86.ap-south-1.compute.amazonaws.com

45)

46) Go to volumes select venkat ebs volume attach to rao server



47) Attach volume is not available to attach only detach volume so one ebs at the same time attach only one server if you want detach and attach another server

48) One ebs only only attach one ec2 instance

49) One ec2 instance attach multiple ebs volumes

=====