

Name: Shivshankar J Ghyar

PRN: 202201040031

Batch: CCF1

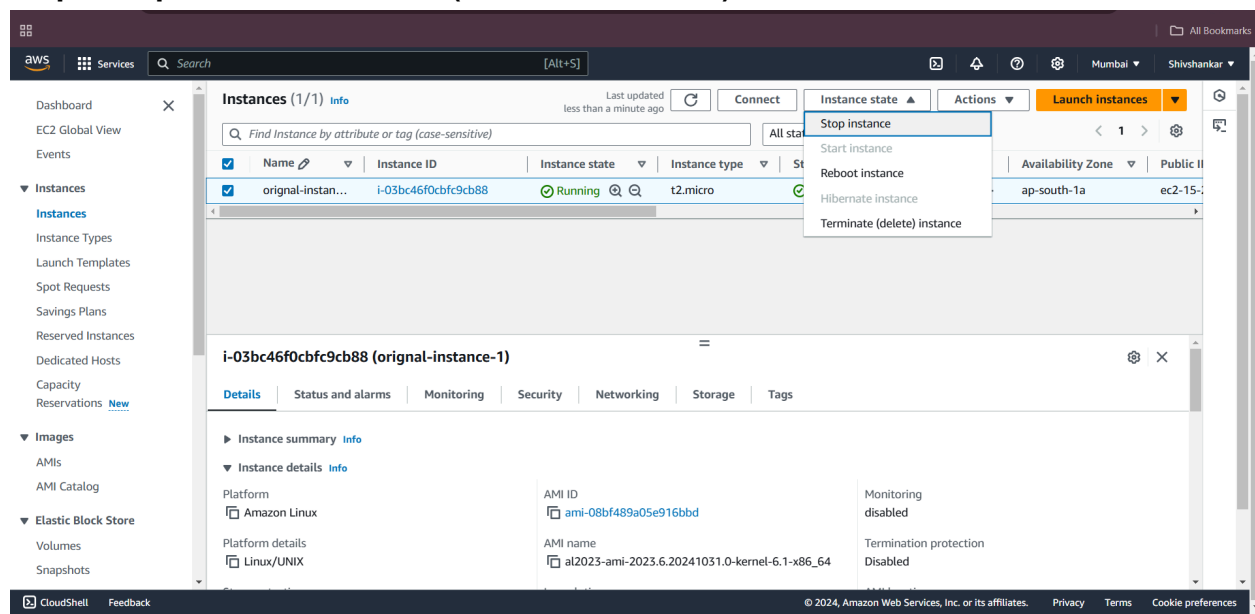
CLOUD PRACTICAL 01

EC2_KEY PAIR LOST

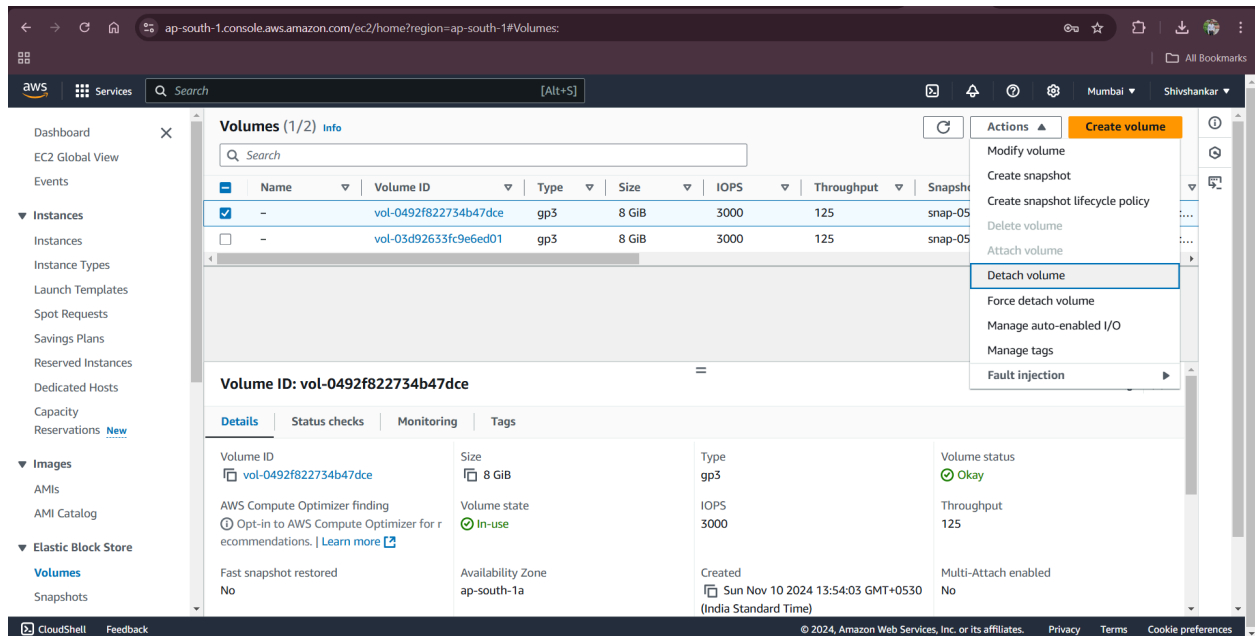
Problem Statement:

You have an Amazon EC2 instance with SSH access restricted to a specific key pair, which has been lost or deleted. Your goal is to regain SSH access to the instance without restarting it or losing any data.

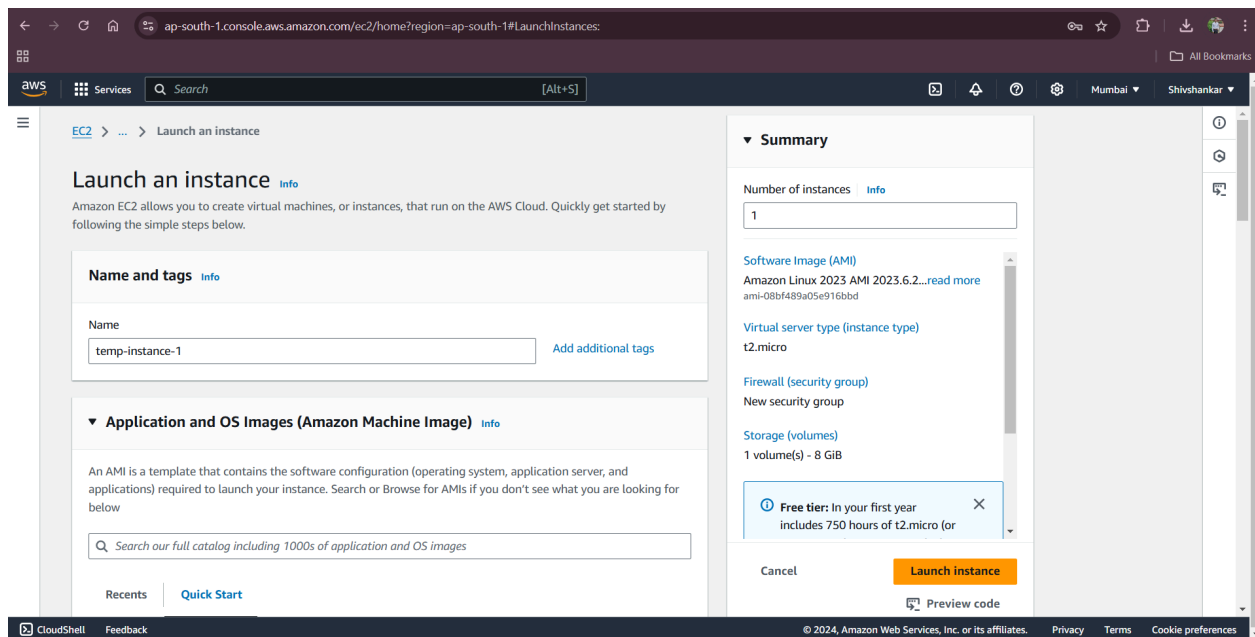
Step1: Stop the EC2 Instance (Do not Terminate)



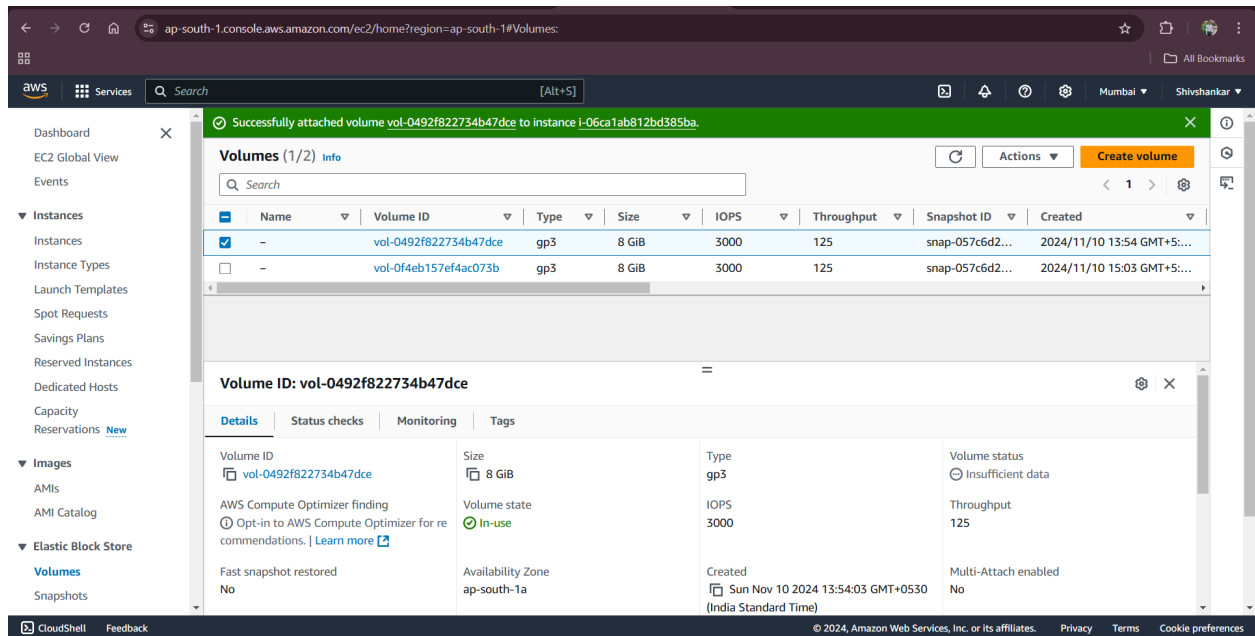
Step2: Detach the Root Volume



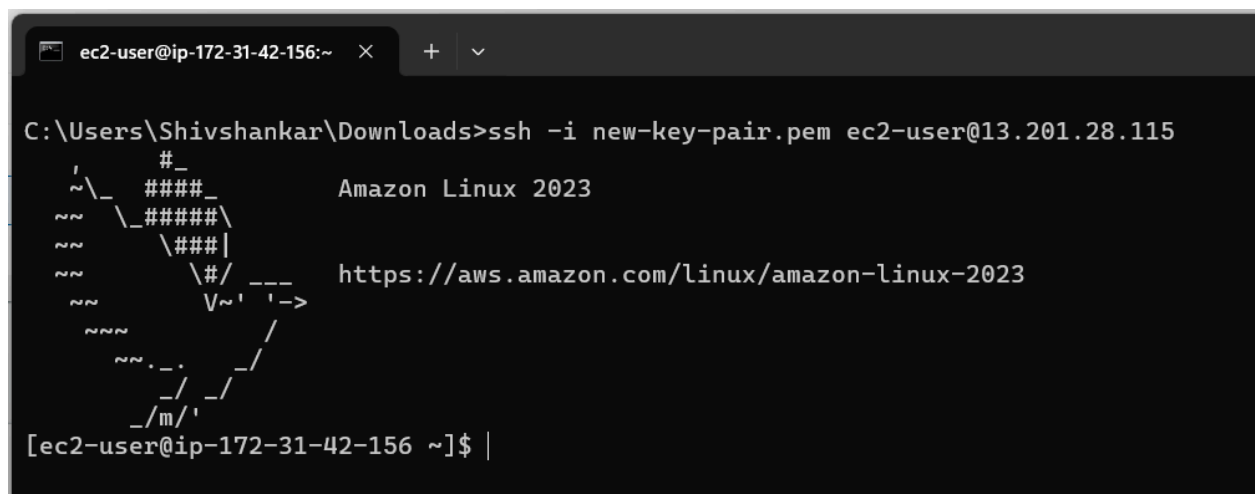
Step 3: Launch a Temporary EC2 Instance.



Step4: Attach the Root Volume to the Temporary Instance



Step5: SSH into the Temporary Instance



Step6: Modify the SSH Keys on the Original Volume

- ❖ Switch to Root User: `sudo su`
- ❖ List Block Devices: `lsblk`
- ❖ Create a Directory to Mount the Volume: `mkdir -p /var/recovery-disk`
- ❖ Mount the Volume: `mount -o nouuid /dev/xvdf1 /var/recovery-disk/`
- ❖ Copy the Key Pair Files: `cat /home/ec2-user/.ssh/authorized_keys >>`
- ❖ `/var/recovery-disk/home/ec2-user/.ssh/authorized_keys`

- ❖ Unmount the Directory: umount /var/recovery-disk/
- ❖ Check Disk Usage: df -h

```
root@ip-172-31-42-156/home ~$ ssh -o StrictHostKeyChecking=no root@ip-172-31-42-156 https://aws.amazon.com/linux/amazon-linux-2023
Last login: Sun Nov 10 09:52:00 2024 from 223.185.42.241
[ec2-user@ip-172-31-42-156 ~]$ sudo su
[root@ip-172-31-42-156 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   8G  0 disk 
└─xvdf1     202:81    0   8G  0 part /var/recovery-disk
├─xvdf127   259:2    0   1M  0 part 
└─xvdf128   259:3    0  10M  0 part 
[root@ip-172-31-42-156 ec2-user]# mount -o nouuid /dev/xdf /var/recovery-disk/

[root@ip-172-31-42-156 ec2-user]# ls /var/recovery-disk/home
ec2- ec2-user
[root@ip-172-31-42-156 ec2-user]# ls /var/recovery-disk/home/ec2-user/.ssh
authorized_keys
[root@ip-172-31-42-156 ec2-user]# cat /home/ec2-user/.ssh/authorized_keys >> /var/recovery-disk/home/ec2-user/.ssh/autho
rized_keys
[root@ip-172-31-42-156 ec2-user]# chmod 700 /var/recovery-disk/home/ec2-user/.ssh
[root@ip-172-31-42-156 ec2-user]# chmod 600 /var/recovery-disk/home/ec2-user/.ssh/authorized_keys
[root@ip-172-31-42-156 ec2-user]# umount /var/recovery-disk/
[root@ip-172-31-42-156 ec2-user]# 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 464K  190M   1% /run
/dev/xvda1       8.0G  1.6G   6.4G  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-172-31-42-156 ec2-user]#
```

Step7: Detach Old Volume from Temp Instance

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

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Volumes (1/2) Info

Search

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created
<input checked="" type="checkbox"/>	vol-0492f822734b47dce	gp3	8 GiB	3000	125	snap-057c6d2...	2024/11/10 13:54 GMT+5:...
<input type="checkbox"/>	vol-0f4eb157ef4ac073b	gp3	8 GiB			snap-057c6d2...	2024/11/10 15:03 GMT+5:...

Actions: Create volume, 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-0492f822734b47dce

Details | Status checks | Monitoring | Tags

Volume ID: vol-0492f822734b47dce

Size: 8 GiB

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

Fast snapshot restored: No

Volume state: **In-use**

Availability Zone: ap-south-1a

IOPS: 3000

Throughput: 125

Created: Sun Nov 10 2024 13:54:03 GMT+0530 (India Standard Time)

Volume status: **Okay**

Multi-Attach enabled: No

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

Services Search [Alt+S]

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Successfully detached volume.

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<input checked="" type="checkbox"/>	vol-0492f822734b47dce	gp3	8 GiB	3000	125	snap-057c6d2...	2024/11/10 13:54 GMT+5:...
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Volume state: **In-use**

Availability Zone: ap-south-1a

IOPS: 3000

Throughput: 125

Created: Sun Nov 10 2024 13:54:03 GMT+0530 (India Standard Time)

Volume status: **Okay**

Multi-Attach enabled: No

Step8: Attach old volume to Original Instance

Step9: Start Old Instance

