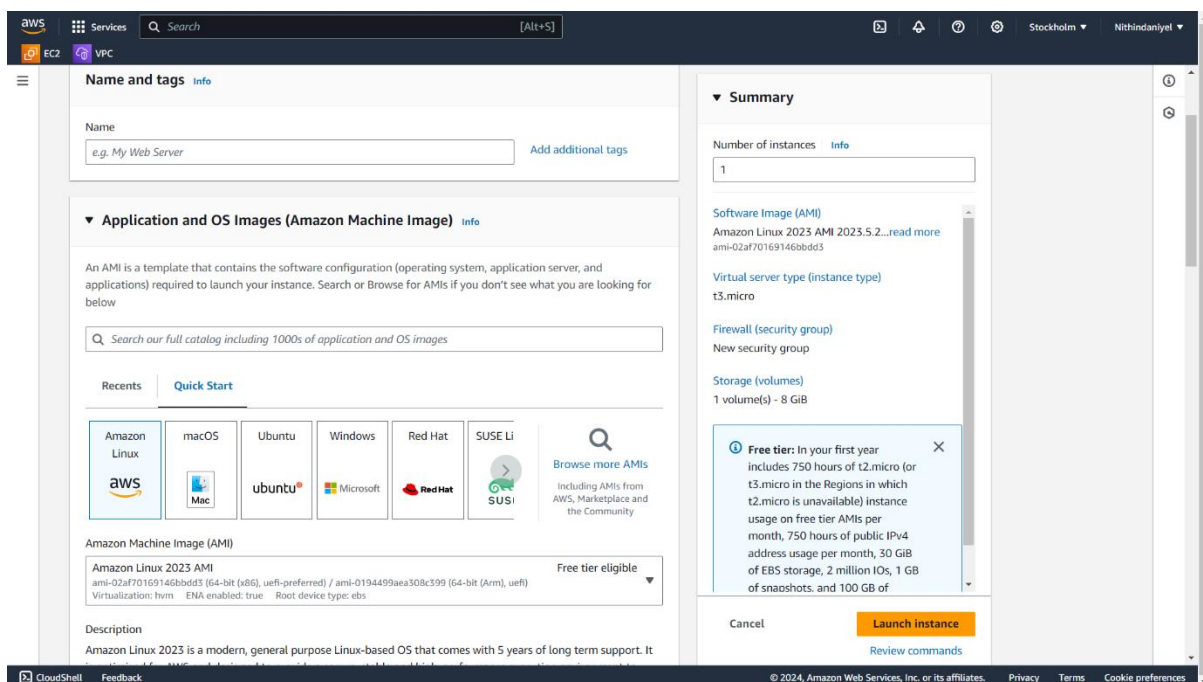
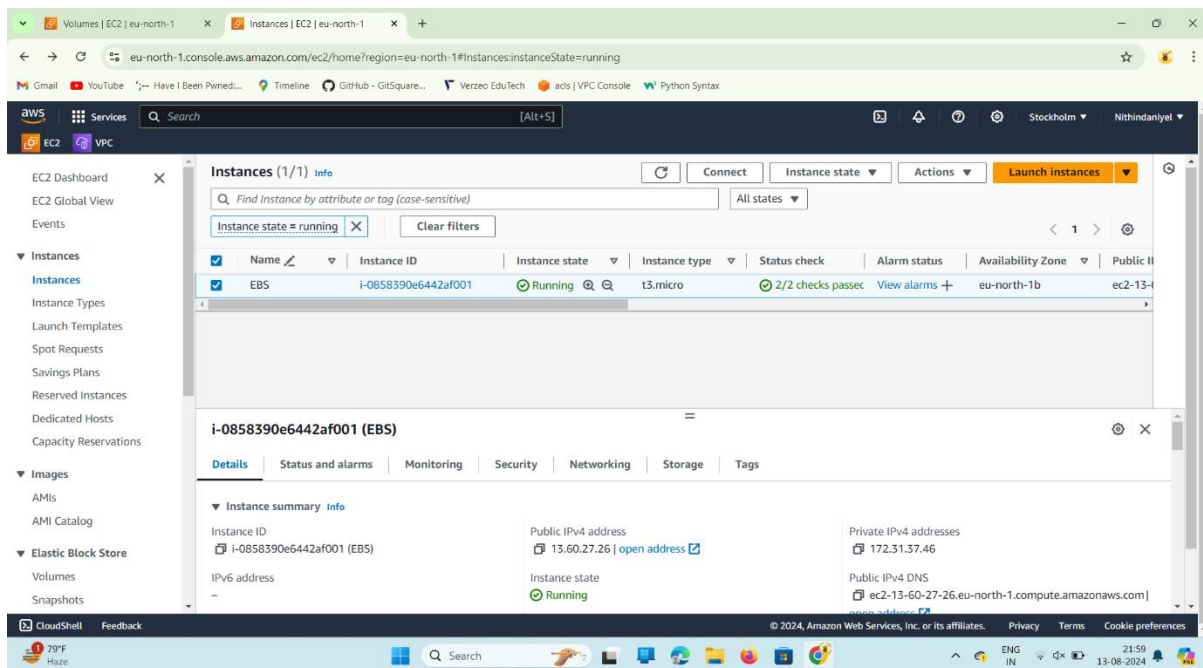
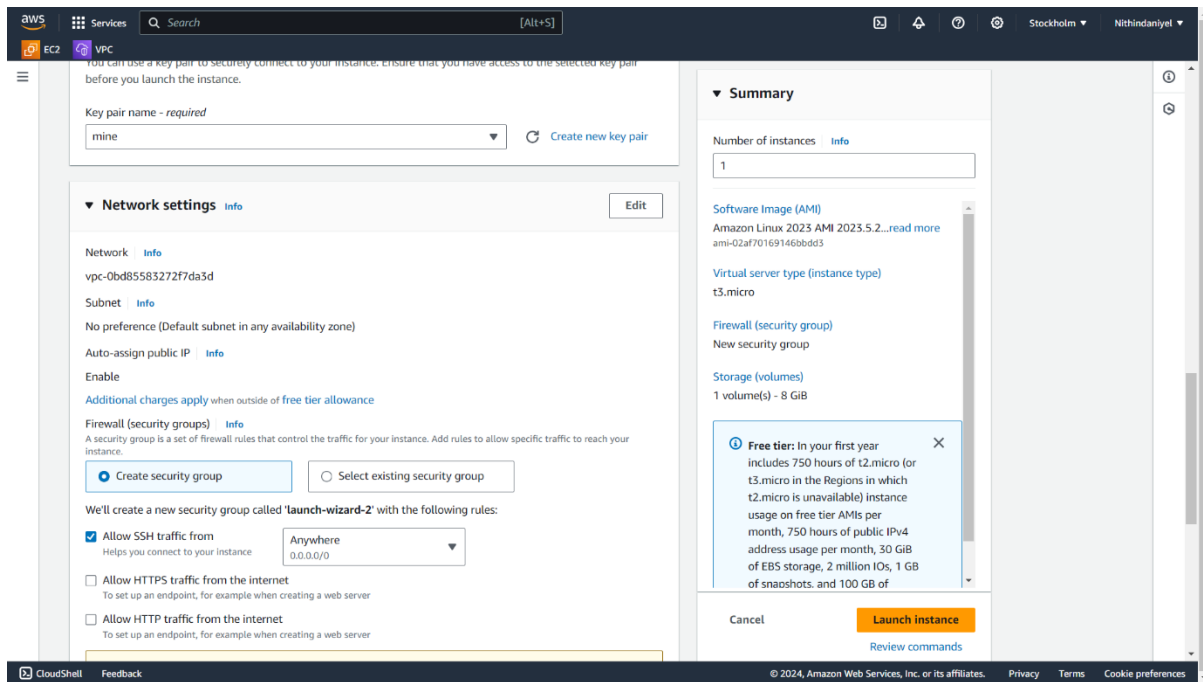


EBS

- EBS – Elastic Block Storage.
- It Provide Scalable, Block storage resources.
- Create EBS and attach EBS to three different instances.
- ✓ Create an ec2 instance with name EBS.



- ✓ Enable the auto assign public ip.
- ✓ Select an key pair for instance.
- ✓ Set the default values and launch the instance.



- ✓ After create an volume with details:
 - Type: General purpose SSD
 - Volume:10 GIB
 - IOPS:3000
- ✓ Remaining as default values.

- ✓ Remind that availability zone should be same as instance.
- ✓ If you give different zones, the instance will not appear.

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#CreateVolume:

aws Services Search [Alt+S]

EC2 VPC

Create volume [Info](#)

Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone.

Volume settings

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

General Purpose SSD gp3 is now the default selection. gp3 provides up to 20% lower cost per GB than gp2. [Learn More](#)

Size (GiB) [Info](#)
10
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/s, Max: 1000 MiB, Baseline: 125 MiB/s

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79°F Haze

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#CreateVolume:

aws Services Search [Alt+S]

EC2 VPC

Create volume [Info](#)

Select an Availability Zone

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

Encryption [Info](#)
Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.
☐ Encrypt this volume

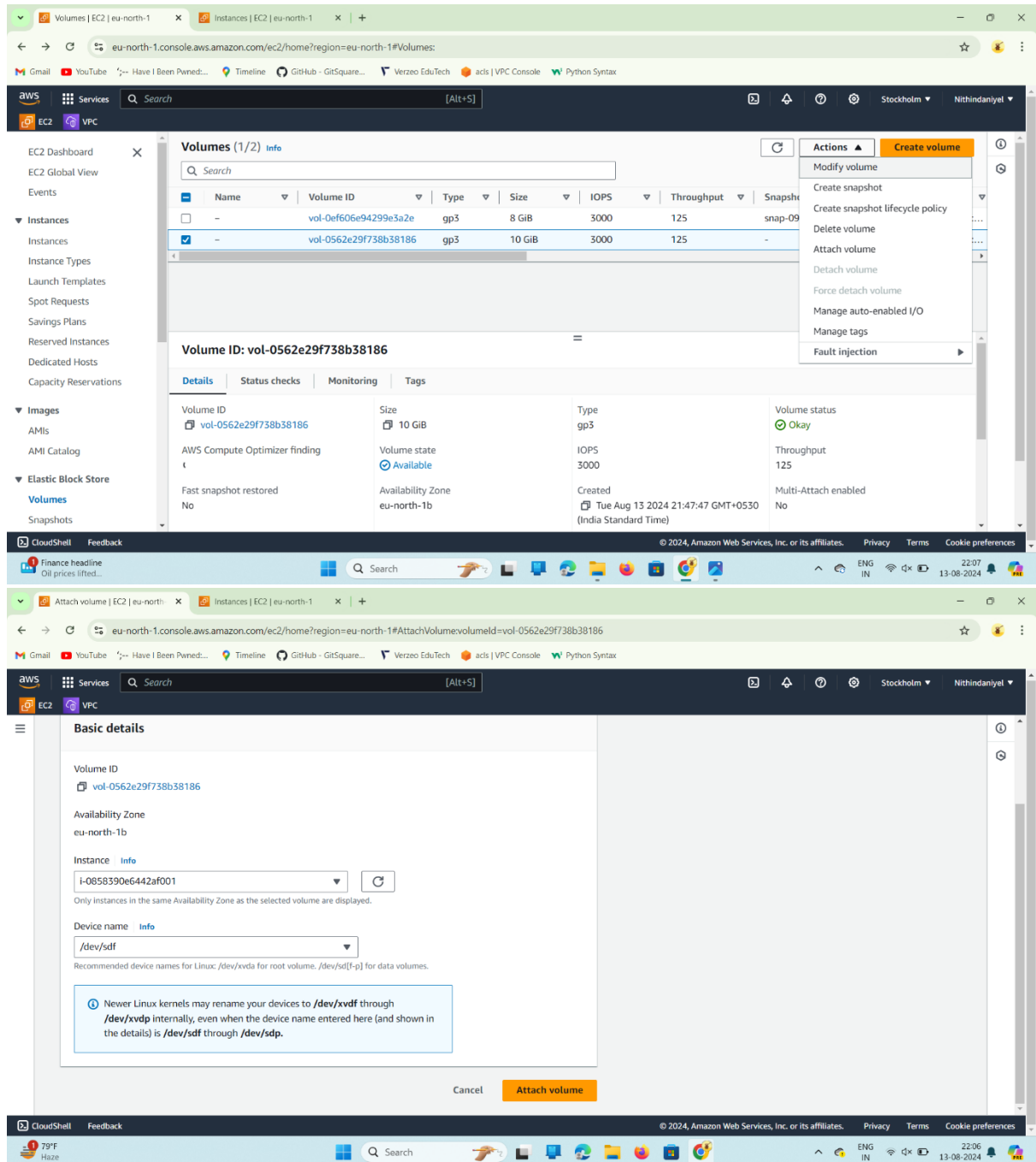
Tags - optional [Info](#)
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.
No tags associated with the resource.
[Add tag](#)
You can add 50 more tags.

Snapshot summary [Info](#)

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News for you
Breathtaking anc...

- ✓ Attach volume to the instance.



- ✓ Connect the ec2 instance.
- ✓ Copy the SSH client.
- ✓ Device name/dev/sdf for data volumes.

Instances | EC2 | eu-north-1

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#Instances:instanceState=running

Instances (1/1) info

Find Instance by attribute or tag (case-sensitive)

Instance state = running

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
EBS	i-0858390e6442af001	Running	t3.micro	2/2 checks passed	View alarms	eu-north-1b	ec2-13-

i-0858390e6442af001 (EBS)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary info

Instance ID: i-0858390e6442af001 (EBS)

Public IPv4 address: 13.60.27.26 | open address

Private IPv4 addresses: 172.31.37.46

Public IPv4 DNS: ec2-13-60-27-26.eu-north-1.compute.amazonaws.com

Instance state: Running

CloudShell Feedback

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Connect to instance | EC2 | eu-north-1

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#ConnectToInstance:instanceId=i-0858390e6442af001

Connect to your instance i-0858390e6442af001 (EBS) using any of these options

EC2 Instance Connect Session Manager SSH client EC2 serial console

Instance ID: i-0858390e6442af001 (EBS)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is mine.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 "mine.pem"
4. Connect to your instance using its Public DNS:
ec2-13-60-27-26.eu-north-1.compute.amazonaws.com

Command copied

ssh -i "mine.pem" ec2-user@ec2-13-60-27-26.eu-north-1.compute.amazonaws.com

Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel

CloudShell Feedback

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- ✓ Use the lsblk command to check the storage.
- ✓ For File system ->file -s/dev/nvme1n1
- ✓ Creating File system ->mkfs -t xfs/dev/nvme1n1
- ✓ For nested directory ->mkdir -p nithin/danny
- ✓ Mounting the storage,we use -> /dev/nvme1n1
nithin/danny.
- ✓ This is for only one instance.

```

[ec2-user@ip-172-31-37-46 ~]$ sudo -i
[root@ip-172-31-37-46 ~]# file -s /dev/xvdf
/dev/xvdf: cannot open '/dev/xvdf' (No such file or directory)
[root@ip-172-31-37-46 ~]# file -s /dev/nvme1n1
/dev/nvme1n1: data
[root@ip-172-31-37-46 ~]# mkfs -t xfs /dev/nvme1n1
meta-data=/dev/nvme1n1      isize=512    agcount=16, agsize=163840 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=2621440, imaxpct=25
                =                       sunit=1    swidth=1 blks
naming    =version 2          bsize=4096   ascii-ci=0, ftype=1
log       =internal log      bsize=4096   blocks=16384, version=2
                =                       sectsz=512   sunit=1 blks, lazy-count=1
realtime  =none              extsz=4096   blocks=0, rtextents=0
[root@ip-172-31-37-46 ~]# mkdir -p nithin/danny
[root@ip-172-31-37-46 ~]# Mount /dev/nvme1n1 nithin/danny
-bash: Mount: command not found
[root@ip-172-31-37-46 ~]# mount /dev/nvme1n1 nithin/danny
[root@ip-172-31-37-46 ~]# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
nvme0n1      259:0    0    8G  0 disk
├─nvme0n1p1  259:1    0    8G  0 part /
├─nvme0n1p127 259:2    0    1M  0 part
├─nvme0n1p128 259:3    0   10M  0 part /boot/efi
└─nvme1n1    259:4    0   10G  0 disk /root/nithin/danny
[root@ip-172-31-37-46 ~]#

```

- ✓ It can be done 3 instances at a time.
- ✓ One after one we can attach volumes.