Objective

Create and attach an additional **EBS volume** to an existing **EC2 instance**, then **resize and verify** it.

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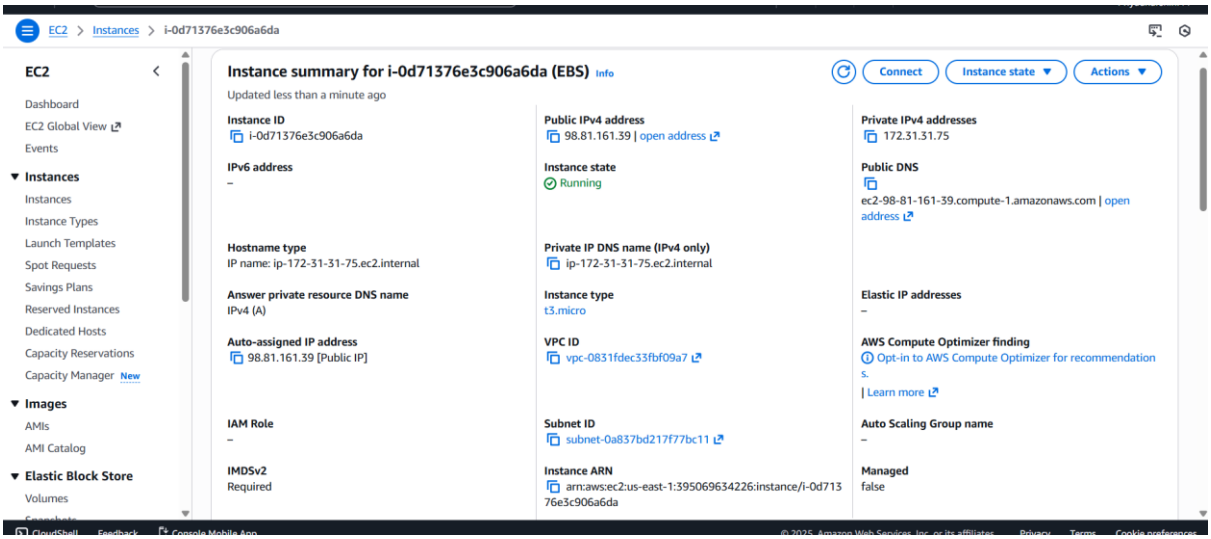
1. Launch EC2 Instance

- **Region:** us-east-1 (N. Virginia)
- **AMI:** Ubuntu Server 22.04 LTS
- **Instance Type:** t2.micro
- **Security Group:** Allow SSH (port 22)
- **Key Pair:** Use existing or create a new .pem file



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2. Connect to the Instance

ssh -i "your-key.pem" ubuntu@<Public-IP>

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3. Create an EBS Volume

In AWS Console → **EC2** → **Elastic Block Store** → **Volumes** → **Create Volume**

- **Volume Type:** General Purpose SSD (gp3)
- **Size:** 20GB
- **Availability Zone:** Must match your EC2 instance's AZ
  (e.g., us-east-1a)

- Click **Create Volume**

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4. Attach the Volume to the Instance

- Select the newly created volume
- Click **Actions → Attach Volume**
- Choose your **instance name**
- Click **Attach Volume**

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5. Verify Volume Attachment

In your EC2 terminal:

Lsblk

```
Last login: Mon Nov 10 04:58:32 2025 from 60.243.83.175
ubuntu@ip-172-31-31-75:~$ lkbls
lkbls: command not found
ubuntu@ip-172-31-31-75:~$ lsblk
NAME         MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0          7:0    0 27.6M  1 loop /snap/amazon-ssm-agent/11797
loop1          7:1    0 73.9M  1 loop /snap/core22/2133
loop2          7:2    0 50.8M  1 loop /snap/snapd/25202
nvme0n1      259:0    0    8G  0 disk
├─nvme0n1p1  259:1    0    7G  0 part /
├─nvme0n1p14 259:2    0    4M  0 part
├─nvme0n1p15 259:3    0  106M  0 part /boot/efi
└─nvme0n1p16 259:4    0  913M  0 part /boot
nvme1n1      259:5    0   20G  0 disk
ubuntu@ip-172-31-31-75:~$
```

6.)Resize the Volume

If you resized the volume in AWS Console:

- Go to **Volumes → Modify Volume → Increase Size → Save**

Then verify in EC2:

lsblk

```
ubuntu@ip-172-31-31-75:~$ lsblk
NAME         MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0          7:0    0 27.6M  1 loop /snap/amazon-ssm-agent/11797
loop1          7:1    0 73.9M  1 loop /snap/core22/2133
loop2          7:2    0 50.8M  1 loop /snap/snapd/25202
nvme0n1      259:0    0    8G  0 disk
├─nvme0n1p1  259:1    0    7G  0 part /
├─nvme0n1p14 259:2    0    4M  0 part
├─nvme0n1p15 259:3    0  106M  0 part /boot/efi
└─nvme0n1p16 259:4    0  913M  0 part /boot
nvme1n1      259:5    0   40G  0 disk
ubuntu@ip-172-31-31-75:~$
```