EBS storage of ec2 machine

We have a elastic block storage for the ec2 machine which is of three types :

1) SSD – solid state drive …fastest but costly
2) HDD – hard disk drive …. Is slowed and comparatively cheaper
3) Magnetic storage – Slowest storage

SSD:

HDD:

Magentic :

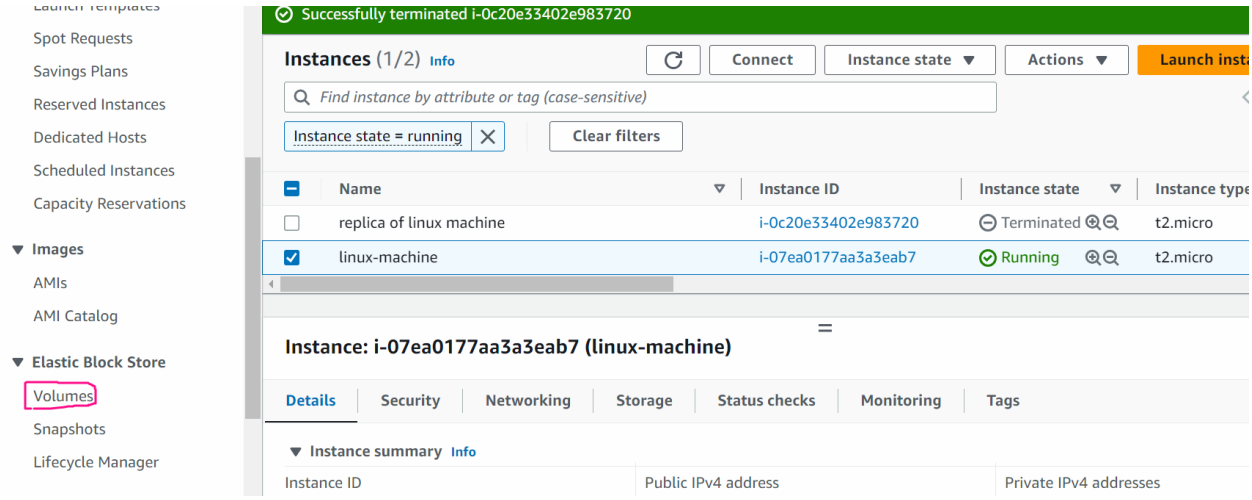
Now in our machine we have attach any kind of storage as per the need and requirement

Now if we shut down the machine by default the storage is intact and the machine is deleted . and we restart the machine the new machine is now attached and same storage is used so that your data is not deleted. Whereas terminating the machine deletes the data .

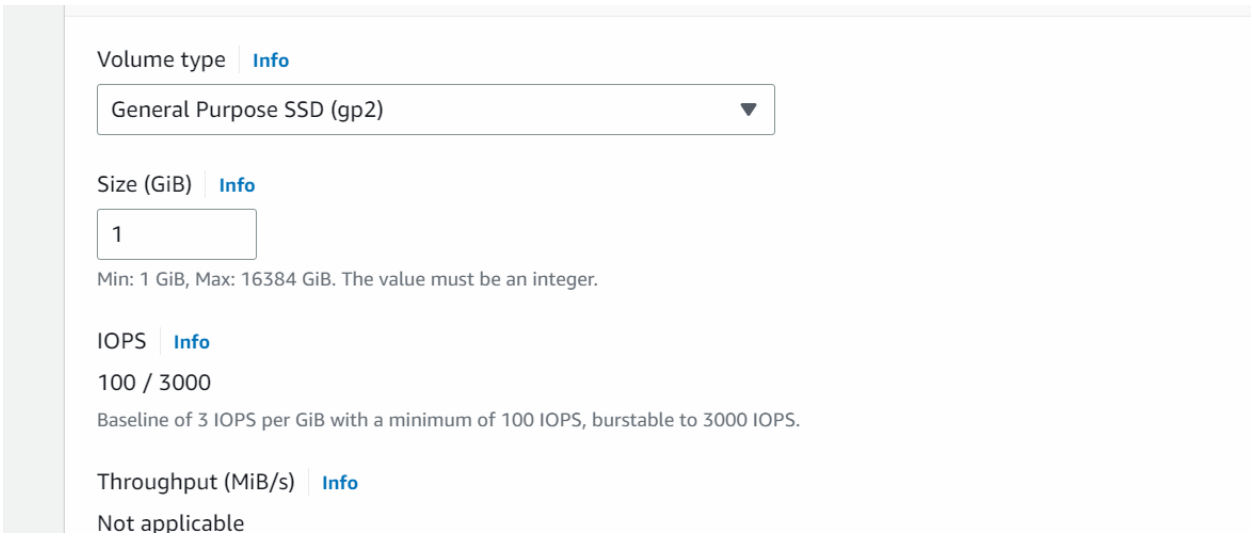
For this reason , the public ip of the machine changes when we restart the machine because the ip address is associated with the machine

So ,
lets see if we attach a new volume to existing machine :

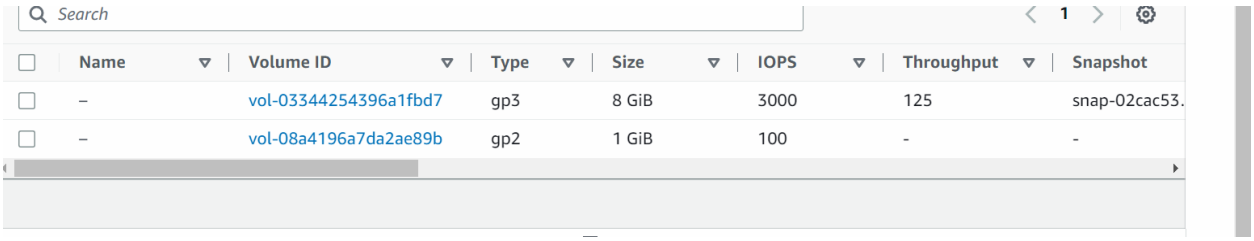
I already have a machine running



Create volume

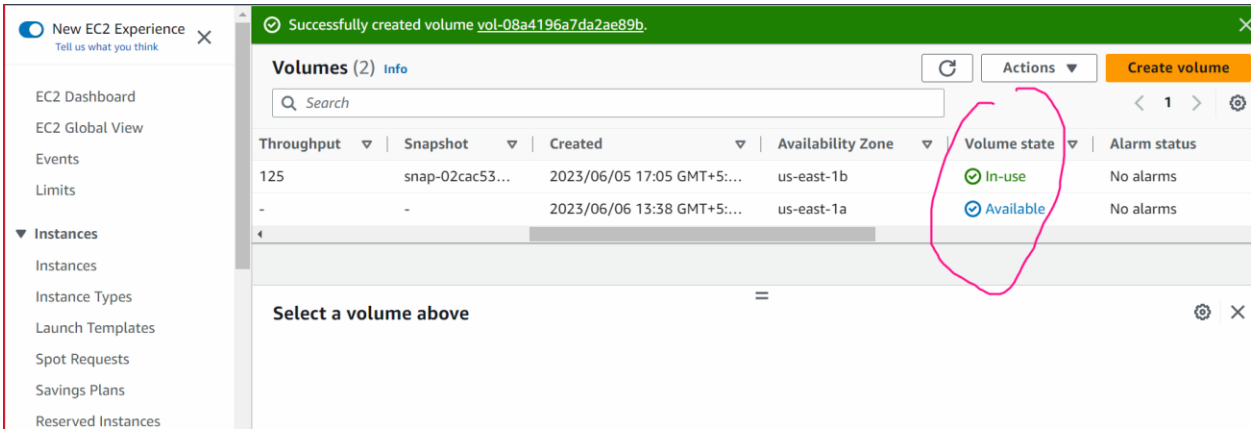


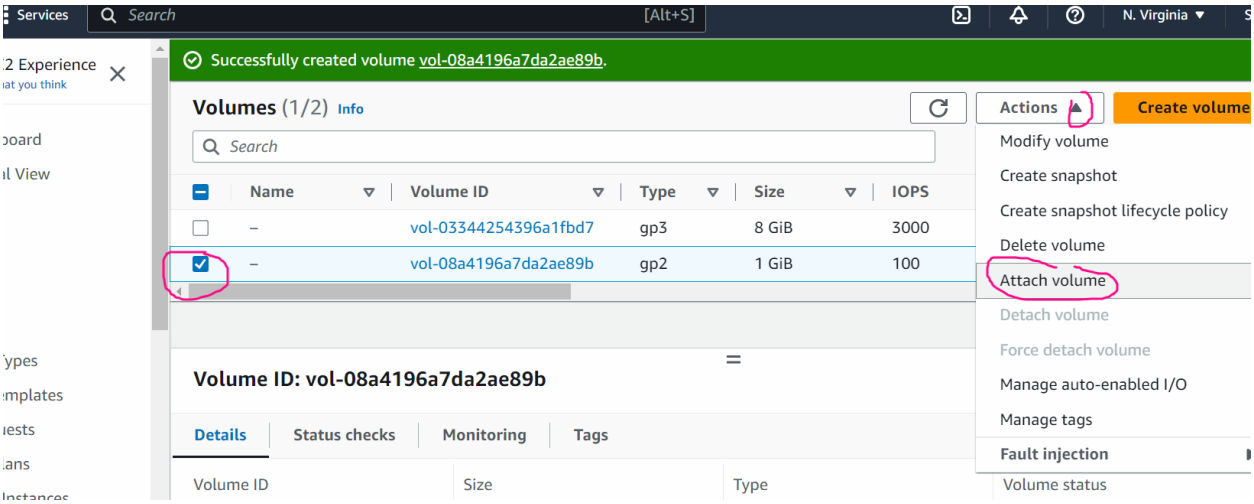
Create volume

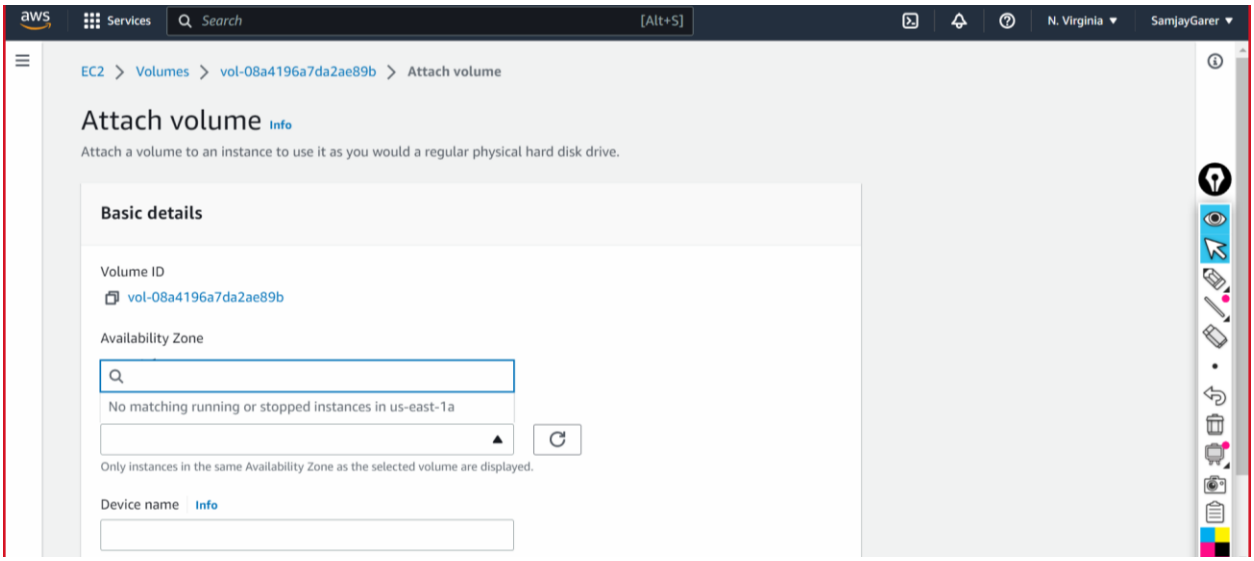


Now you will see two volume …one volume is the volume which is associated with the existing machine

Where is the volume which is 1 GIB is not associated with any machine as of now



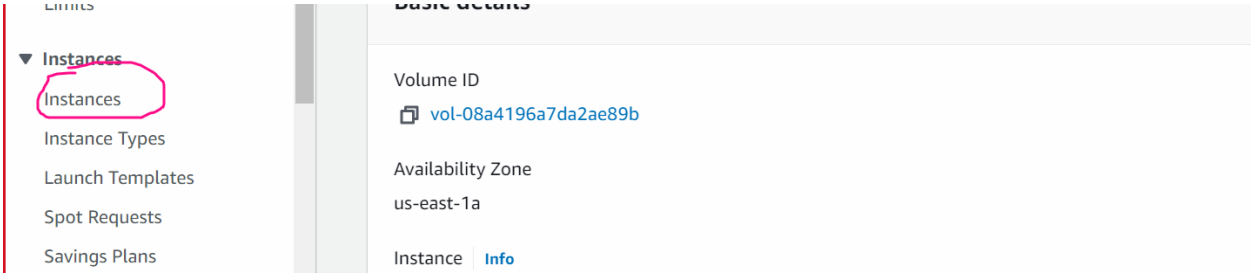


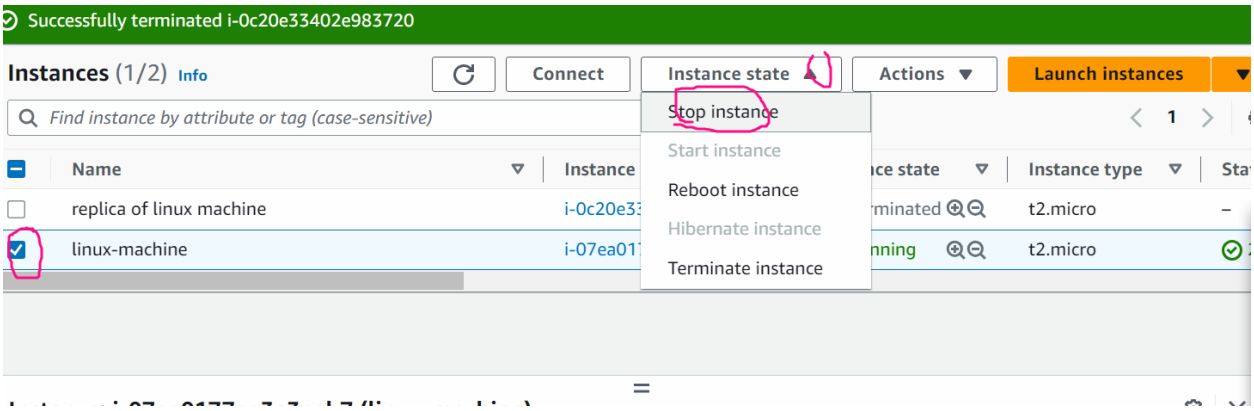


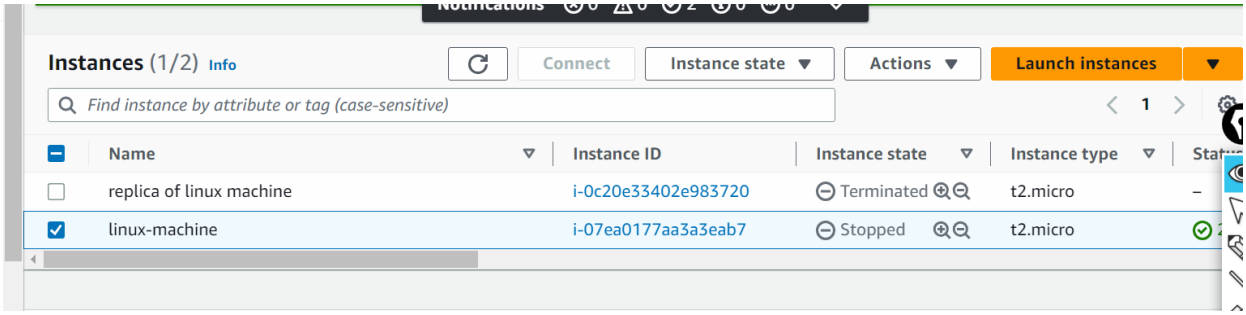
You will not see any instance because first you need to stop the machine then only you can attach the volume with your machine

Lets do it ...

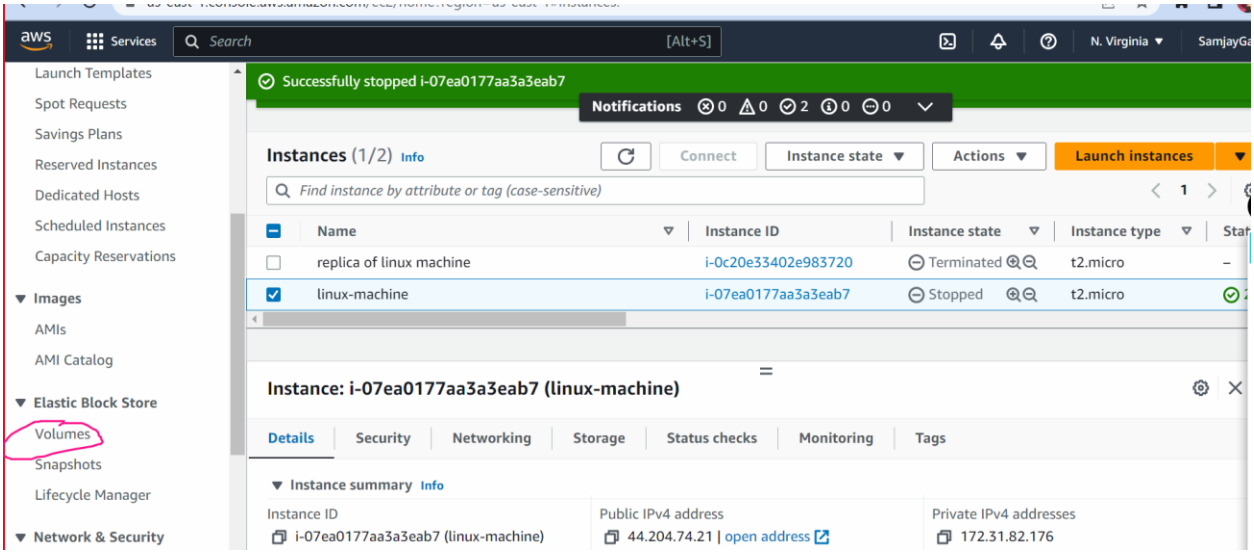
Go back to ec2 -> instances

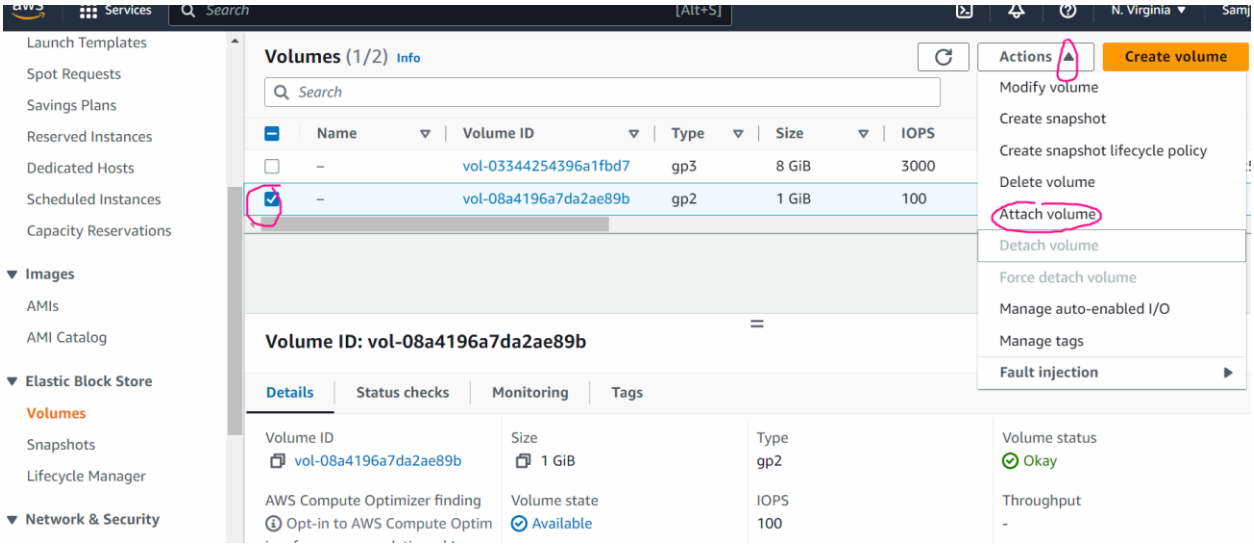




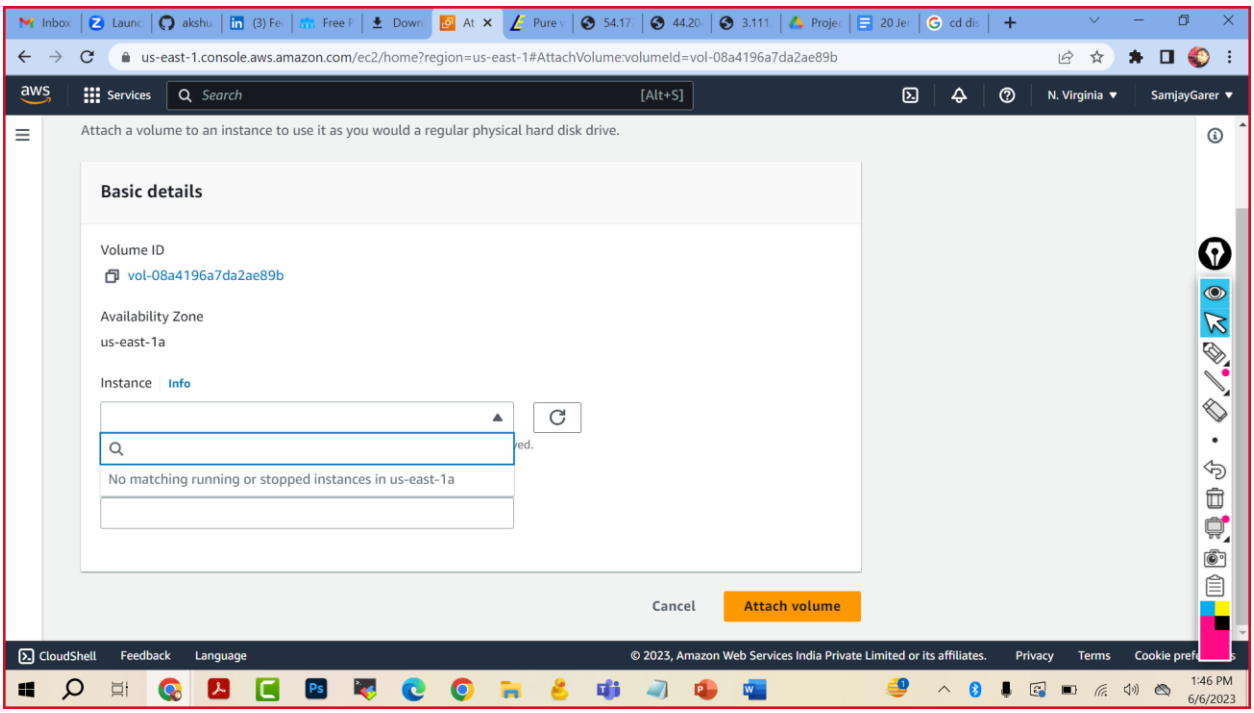


Now we can go back to ebs



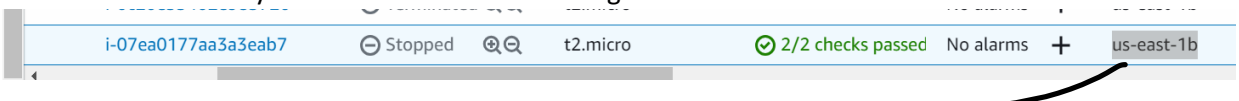


If you instance is in different AZ then also you will not be able to find instance . Still we will not be able to find the instance .



We have again recreate the volume but in the same availability zone as your machine

Go to instances select your machine …scroll left to right



Go back to volumes again and create a new volume us-east-1b

General Purpose SSD (gp2)

Size (GiB) Info

2

Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

IOPS Info

100 / 3000

Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS.

Throughput (MiB/s) Info

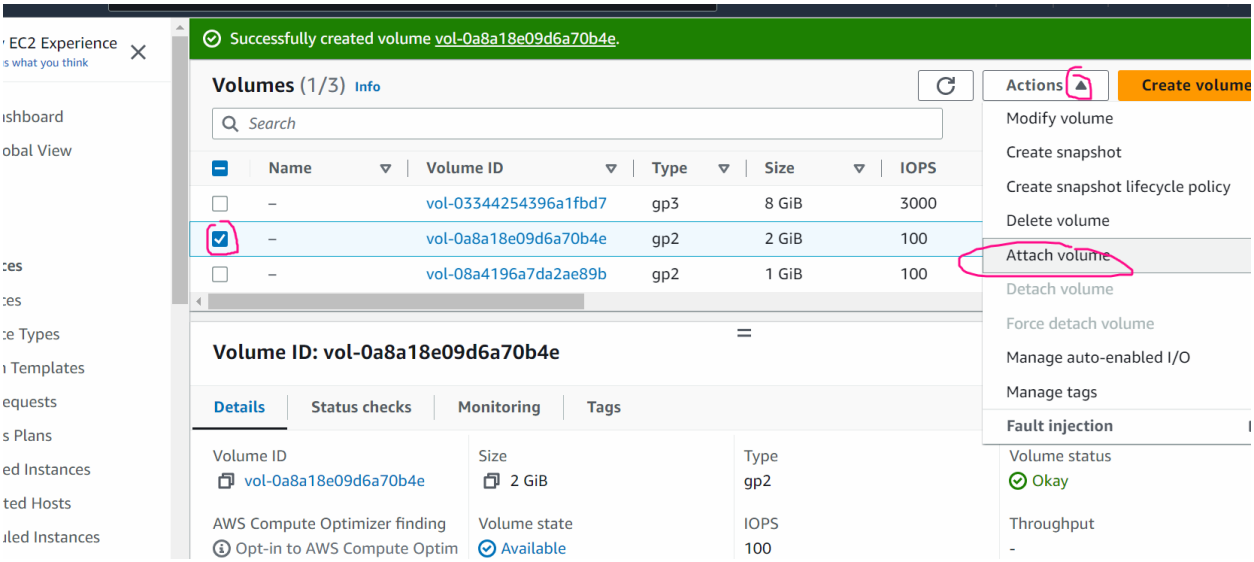
Not applicable

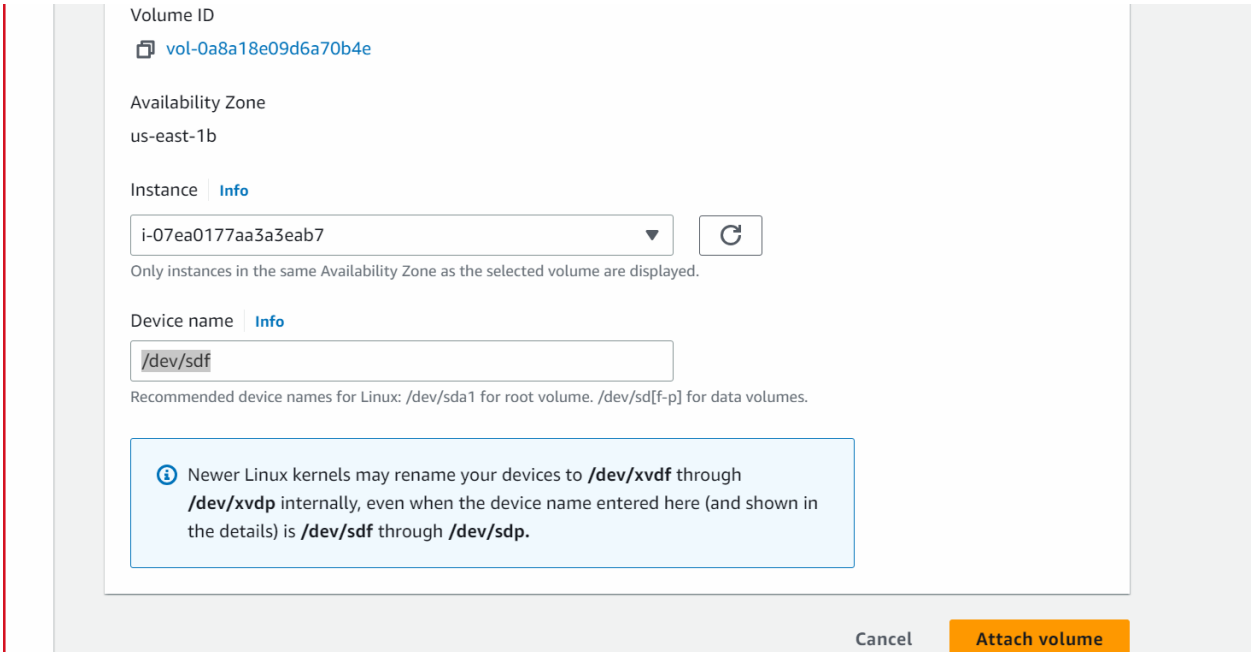
Availability Zone Info

us-east-1b

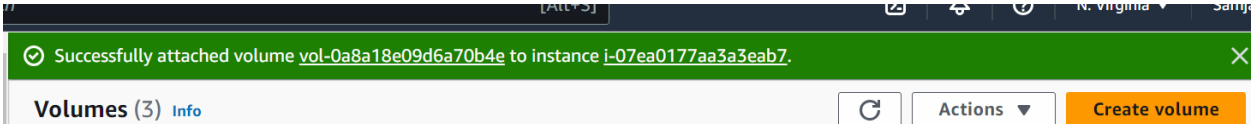
Snapshot ID - *optional* Info

Create volume



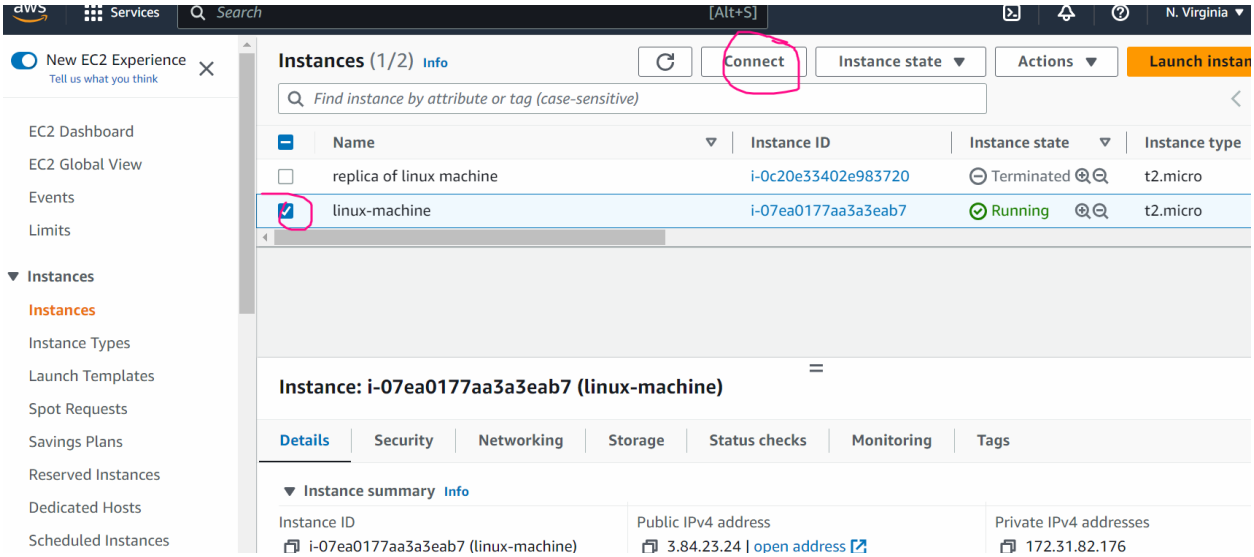


Click on attach volumes



Lets start the machine

Now lets connect to the machine



Connect to your instance i-07ea0177aa3a3eab7 (linux-machine) using any of these options

EC2 Instance Connect | Session Manager | SSH client | EC2 serial console

Instance ID
i-07ea0177aa3a3eab7 (linux-machine)

Public IP address
3.84.23.24

User name
Enter the user name defined in the AMI used to launch the instance. If you didn't define a custom user name, use the default user name, ec2-user.

ec2-user

Note: In most cases, the default user name, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel Connect