# Working with Elastic Block Store

EBS

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Elastic Block Store

Its a block storage which is used for our EC2 instance.

Block Storage

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provides the volume which we can easily attach and detach to our EC2 instance.

These volumes are like unformatted block devices you can simply understand like physical hard drives.

SnapShots

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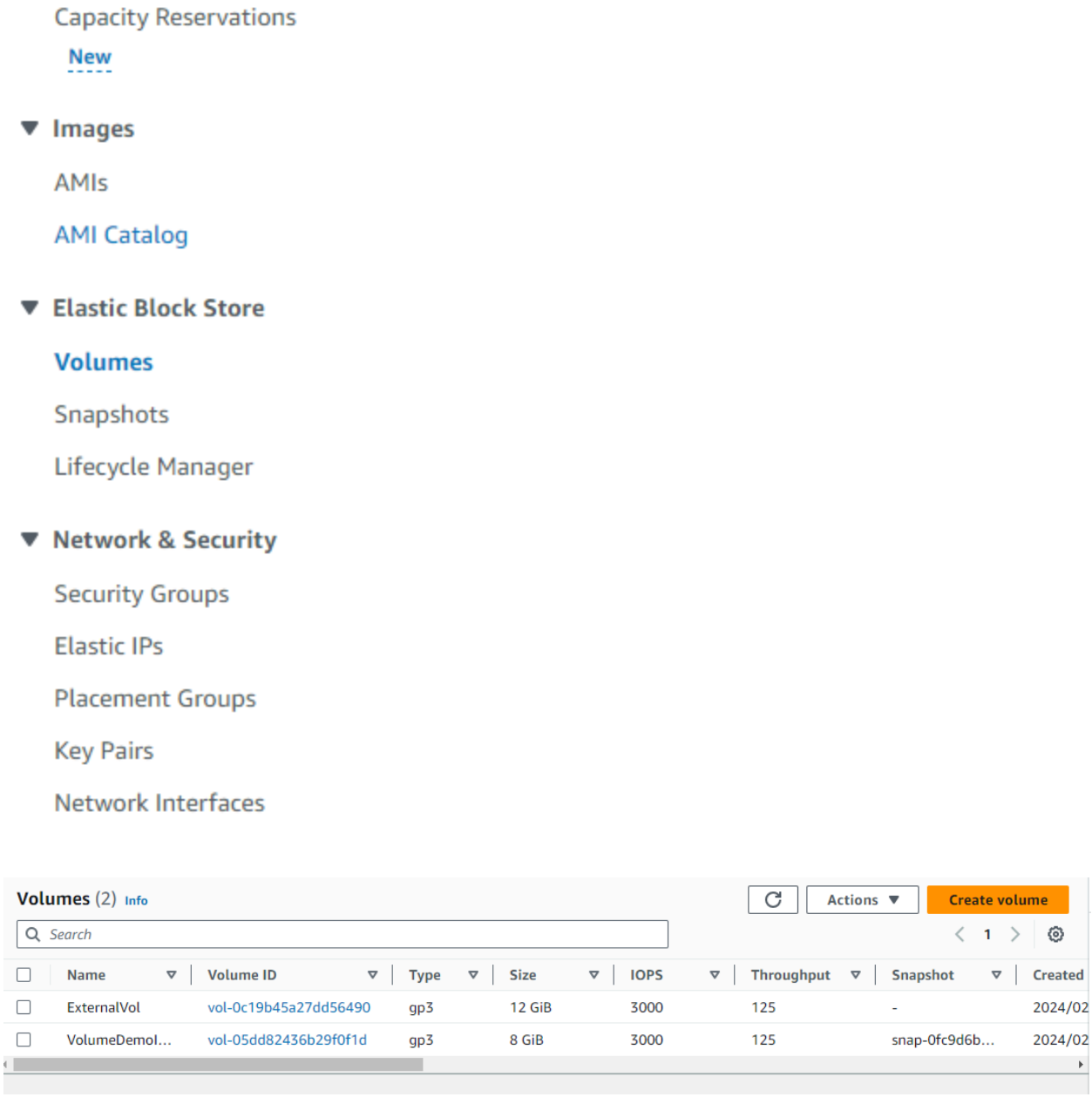
we can create snapshots which works as a backup of your block storage.

so the backup you are taking in the forms blocks, partial backup..

whenever you required you can restore the same.

Let’s Create one Volume

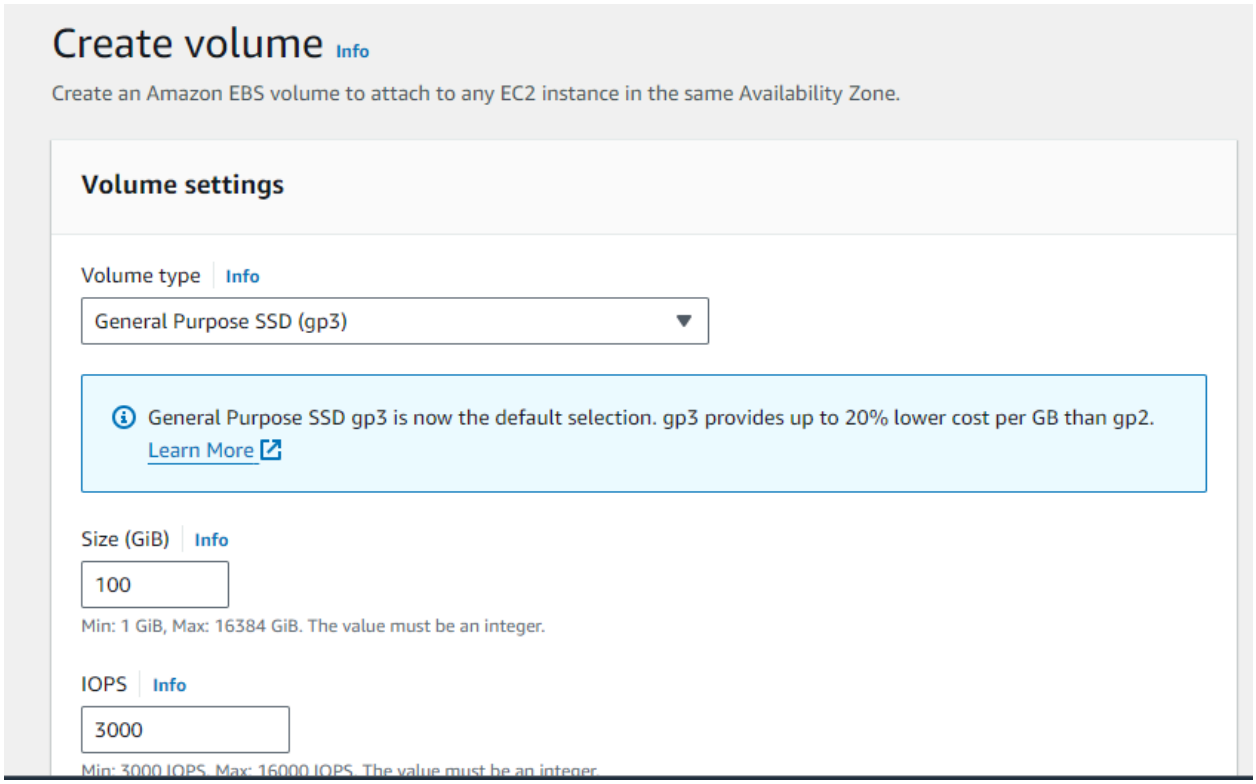
In EC2 services you can see the EBS option there click on Volume.



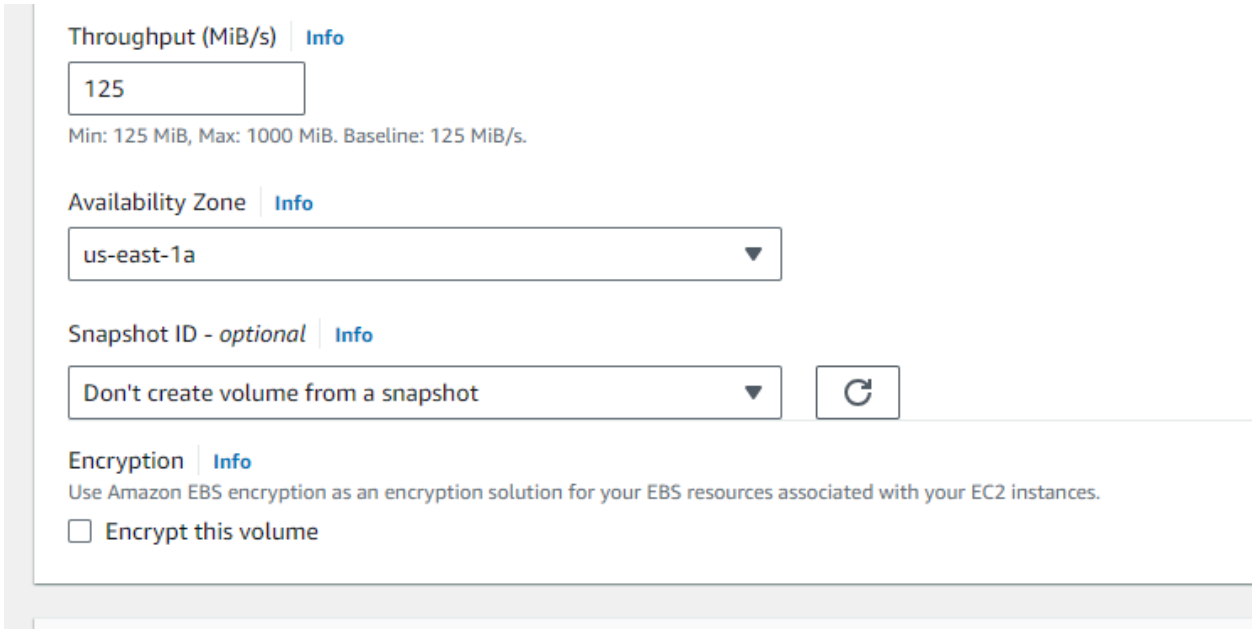




Here you can click on create-volume button.

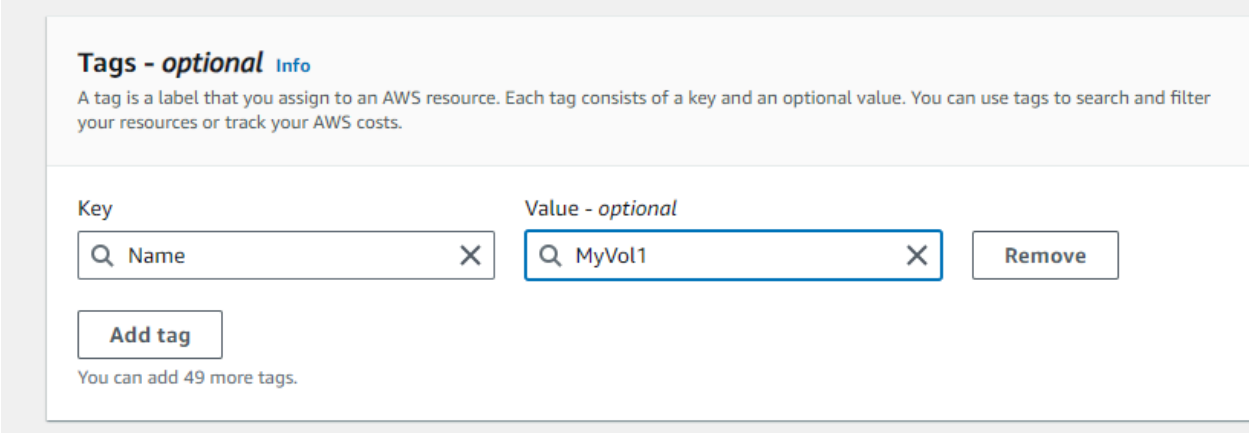



You can give size as per your Req, IOPS is showing no of I/O handled in one Sec.

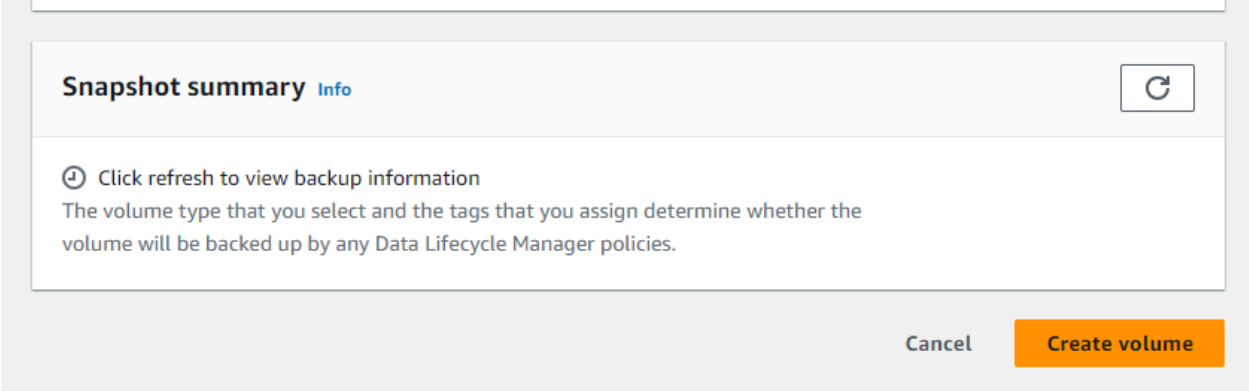



Make sure you select the same zone where your instance was created.

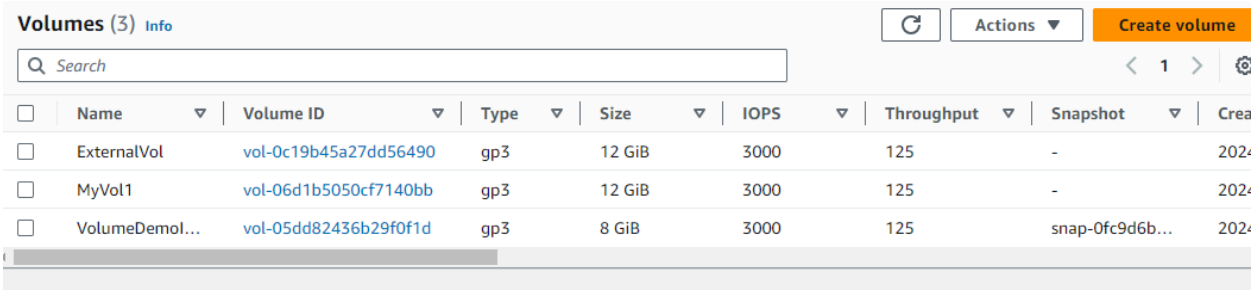
Snapshot you can select If you want to take Backup for your Volume.




Tags are optional but If you want to give Name to your volume use key as Name and volume name you can give in Value.




If you have created a snapshot then check the summary and then create Volume.

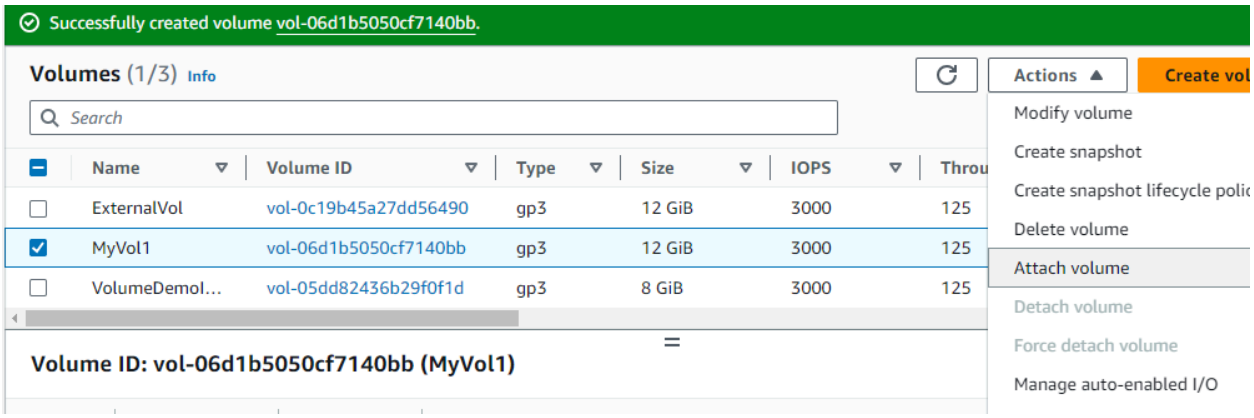



MyVol1 is created.

To use your volume first refresh by clicking on refresh Icon and check the volume availability.

If it's available then perform the next operations.

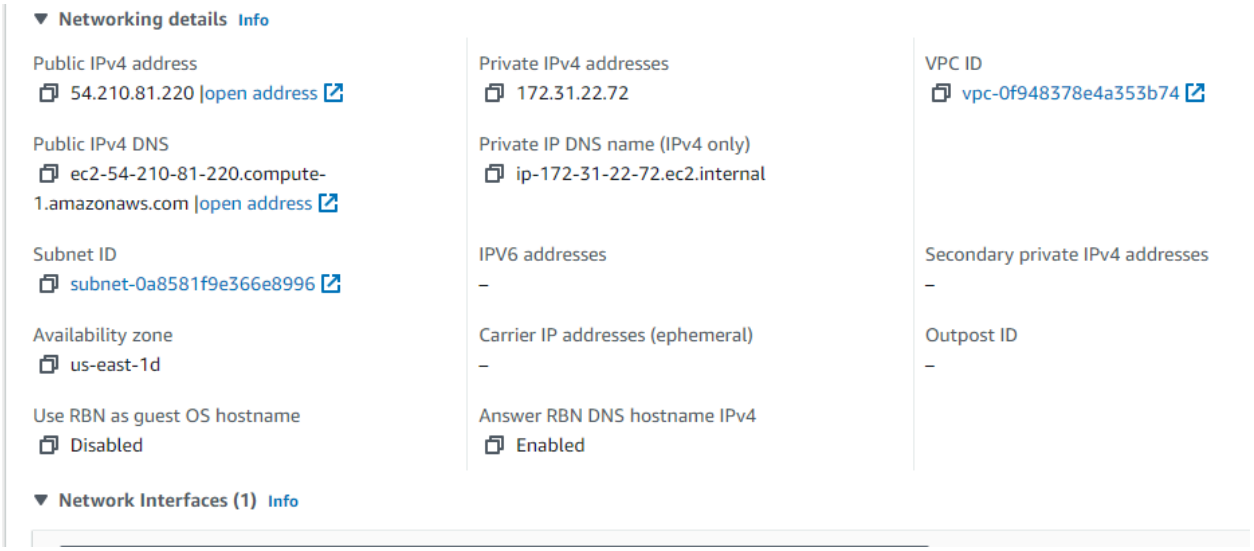
Now select Volume and click on actions and you can see multiple options like attach, detach, delete etc..




Click on attach volume.

When I am trying to select an instance it is not showing any instance so let's check our instance availability zone.

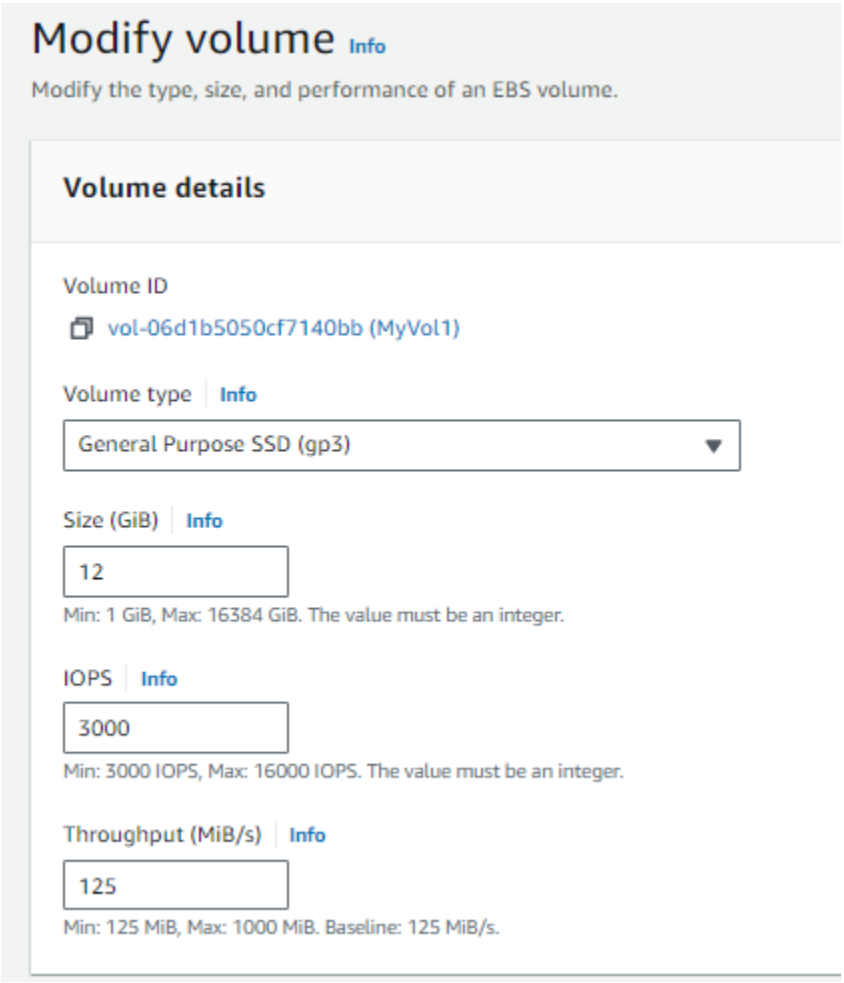
Click on your instance and check details.



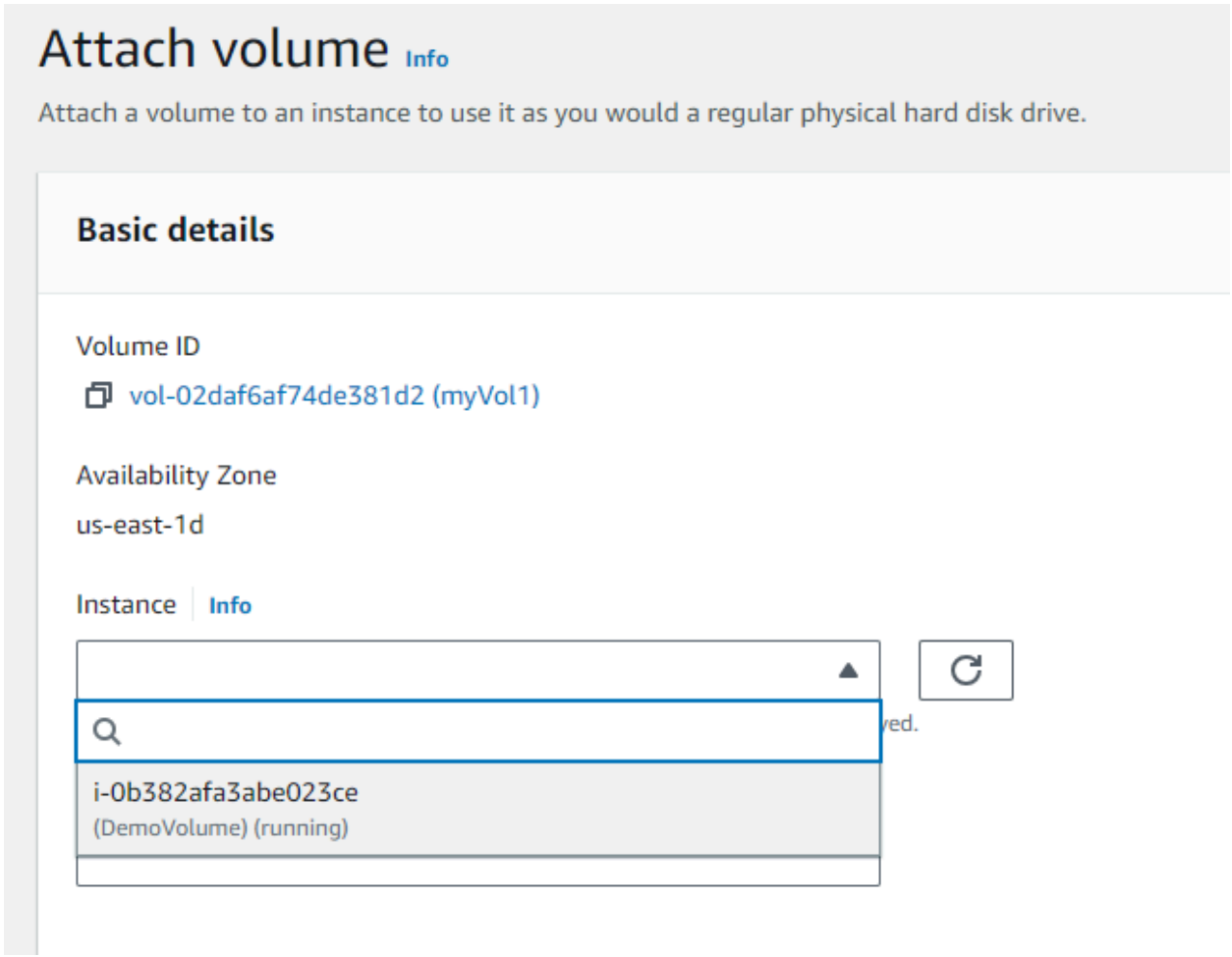

The zone is us-east-1d because of that I can not apply us-east-1a zone volume to it.

You need to create a new volume with zone us-east-1d and then you can attach.

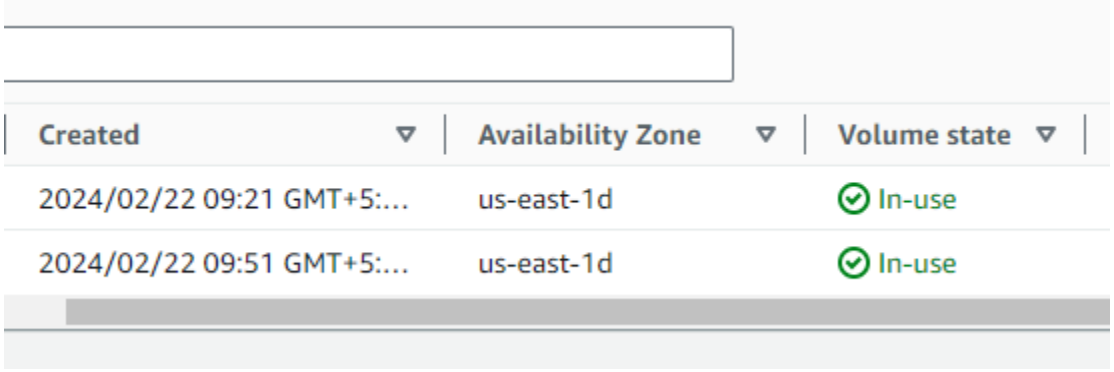
Once the volume is created you can not edit its zone you can modify only below mentioned details.



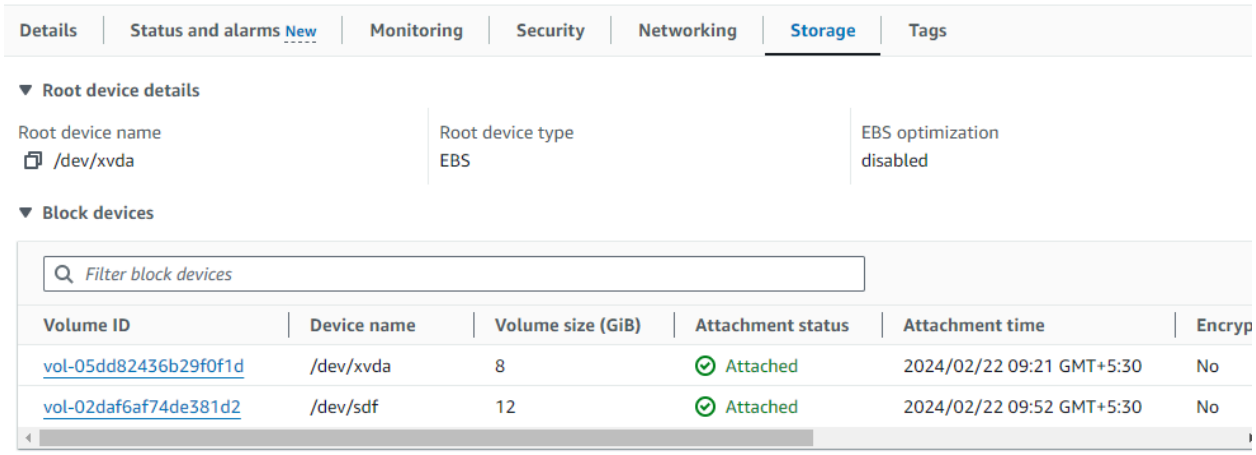

Let’s create another volume with the same zone and try to attach volume to instance.




If it's attached successfully you can see the volume status to inuse.




In instance storage details you can find below details.




Here /xvda is the default volume and /sdf is the externally attached volume to my instance.