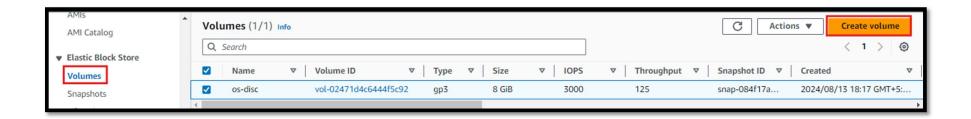


Launched instance (web server)

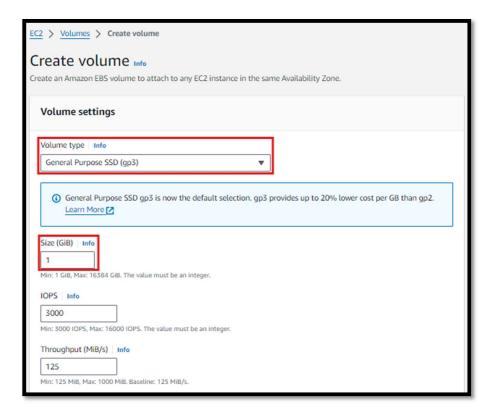
Instances >> web server

```
[root@ip-10-10-1-184 ~]# lsblk
          MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
NAME
                                                       Can see only root disc here
          202:0
                             0 disk
xvda
 -xvda1
          202:1
                         8G
                             0 part /
                             0 part
 -xvda127 259:0
                         1M
 -xvda128 259:1
                       10M
                             0 part /boot/efi
[root@ip-10-10-1-184 ~]#
```

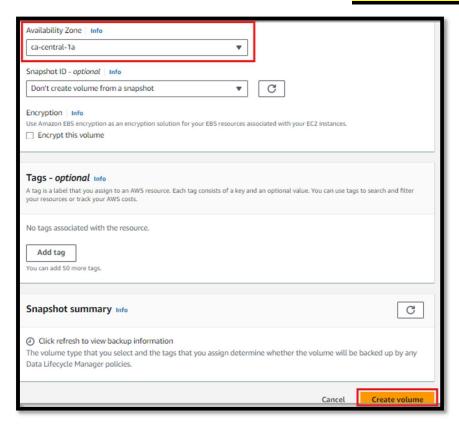


Note:

- > Creating concat LV
- For this we need minimum one disk
- > So, here we creating a volume to attach to the instance.



- \rightarrow Taken volume type = gp3
- \gt Size = 1 GiB



Availability Zone = ca-central-1a

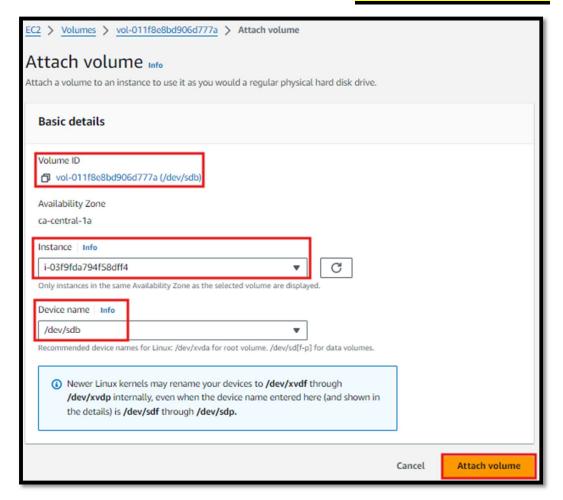
Finally, create the volume



Volumes >> select the volume created (/dev/sdb)



Volumes >> select the volume created (/dev/sdb) >> Actions >> Attach volume



- > Can see the volume ID
- > Select the instance (we-server) seeing the instance ID.
- > Select the device name (/dev/sdb).

```
[root@ip-10-10-1-184 ~]# lsblk
NAME
          MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
xvda
          202:0
                         8G 0 disk
          202:1
                            0 part /
-xvda1
                         8G
 -xvda127 259:0
                        1M 0 part
 -xvda128 259:1
                    0
                       10M
                             0 part /boot/efi
xvdb
          202:16
                         1G 0 disk
                    0
                                                          Created physical volume on the added volume
[root@ip-10-10-1-184 ~]# pvcreate /dev/xvdb
-bash: pvcreate: command not found
                                                                         As lym package was not
                                                                         installed it is showing as
[root@ip-10-10-1-184 ~]#
                                                                         command not found.
```

```
[root@ip-10-10-1-184 ~]#
```

```
[root@ip-10-10-1-184 ~]# pvcreate /dev/xvdb
                                                                Created physical volume on the added volume
 Physical volume "/dev/xvdb" successfully created.
[root@ip-10-10-1-184 ~]#
[root@ip-10-10-1-184 ~]# vgcreate vg1 /dev/xvdb
                                                                 Creating volume group (vg)
 Volume group "vg1" successfully created
[root@ip-10-10-1-184 ~]#
[root@ip-10-10-1-184 ~]# pvs
                                                                        Checking the physical volume status.
  PV
             VG Fmt Attr PSize
                                      PFree
 /dev/sdb
             vq1 lvm2 a-- 1020.00m 1020.00m
[root@ip-10-10-1-184 ~]#
[root@ip-10-10-1-184 ~]# vgs
                                                                    Checking the volume group status.
 VG #PV #LV #SN Attr
                          VSize
                                    VFree
 vq1
                0 wz--n- 1020.00m 1020.00m
[root@ip-10-10-1-184 ~]#
```

```
[root@ip-10-10-1-184 ~]#
[root@ip-10-10-1-184 ~]# vgdisplay vg1
                                                     Can see complete information of the volume group.
  --- Volume group ---
  VG Name
                          vg1
  System ID
  Format
                          lvm2
  Metadata Areas
                          1
  Metadata Sequence No 1
                          read/write
  VG Access
  VG Status
                          resizable
  MAX LV
                          0
  Cur LV
                          0
  Open LV
                          0
  Max PV
                          0
  Cur PV
                          1
                                                           Can see VG size and physical extends
 Act PV
                          1020.00 MiB
                                                           (PE) (Total, allocated and Free).
 VG Size
  PE Size
                          4.00 MiB
                                                           Based on this we will create logical
  Total PE
                          255
                                                           volume.
  Alloc PE / Size
                          0 / 0
                          255 / 1020.00 MiB
  Free PE / Size
  VG UUID
                          4mby8y-6xRm-ZDek-u8TA-OBcF-eokh-fvGx7f
```

```
[root@ip-10-10-1-184 ~]#
[root@ip-10-10-1-184 ~]# | lvcreate -L +1020M -n lv1 vg1 | Logical volume "lv1" created.
[root@ip-10-10-1-184 ~]#
[root@ip-10-10-1-184 ~]# | lvscan | command | c
```

```
[root@ip-10-10-1-184 ~]# mkfs -t ext4 /dev/vg1/lv1
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 261120 4k blocks and 65280 inodes
Filesystem UUID: 2298bb93-e75c-4bf9-bc60-9af34af8cc52
Superblock backups stored on blocks:
                                                               Creating file system on the created LV.
        32768, 98304, 163840, 229376
                                                               Creating mount point.
Allocating group tables: done
                                                               Temporary mounting of the file system
Writing inode tables: done
Creating journal (4096 blocks): done
Writing superblocks and filesystem accounting information: done
                          mkdir /data
[root@ip-10-10-1-184 ~]#
[root@ip-10-10-1-184 ~]#
[root@ip-10-10-1-184 ~]#
[root@ip-10-10-1-184 ~]# mount -t ext4 /dev/vg1/lv1 /data
```

```
[root@ip-10-10-1-184 ~]#
[root@ip-10-10-1-184 ~]# df -h
Filesystem
                      Size Used Avail Use% Mounted on
                                                             Checking mounted file system information.
devtmpfs
                               0 4.0M
                                         0% /dev
                      4.0M
tmpfs
                      475M
                               0 475M
                                         0% /dev/shm
tmpfs
                                         1% /run
                      190M 452K 190M
/dev/xvda1
                      8.0G
                           1.6G
                                 6.4G
                                        20% /
tmpfs
                               0 475M
                                         0% /tmp
                      475M
                                        13% /boot/efi
/dev/xvda128
                       10M
                           1.3M 8.7M
tmpfs
                                         0% /run/user/1000
                       95M
                               0
                                   95M
                                                              Checking how many disks participated
/dev/mapper/vg1-lv1
                                  919M
                     986M
                             24K
                                         1% /data
                                                              in the logical volume.
[root@ip-10-10-1-184 ~]#
[root@ip-10-10-1-184 ~]#
[root@ip-10-10-1-184 ~]# lvs -a -o +devices
                                Pool Origin Data% Meta% Move Log Cpy%Sync Convert Devices
       VG Attr
                       LSize
  lv1 vg1 -wi-ao---- 1020.00m
                                                                                       /\text{dev/sdb}(0)
[root@ip-10-10-1-184 ~]#
```