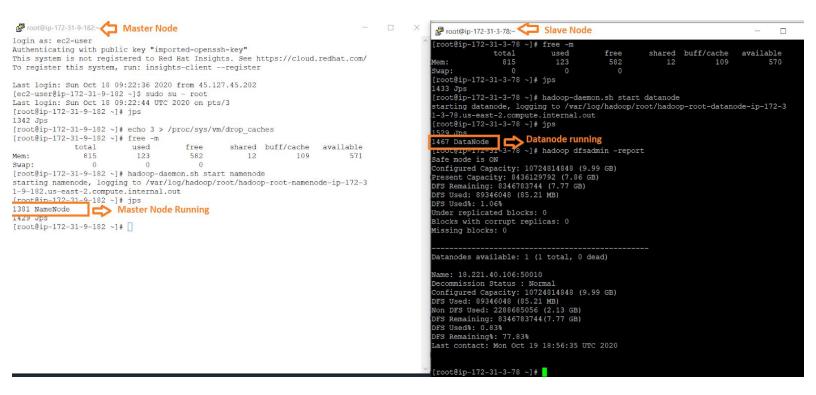
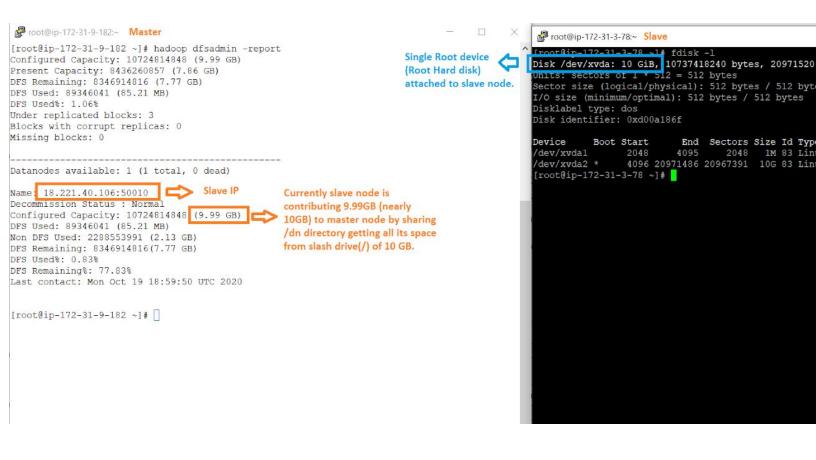
Task 4.1

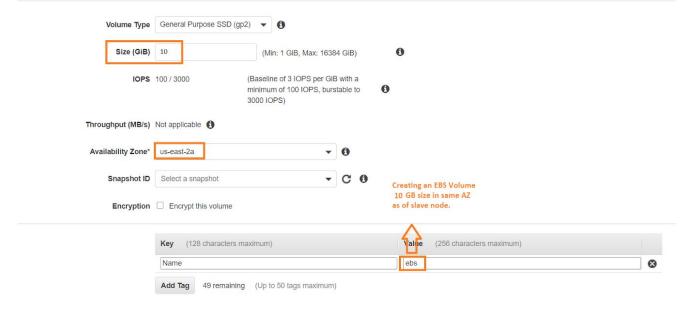
- Question- In a Hadoop cluster, find how to contribute limited/specific amount of storage as slave to the cluster?
- Answer- Create a partition in the hard disk of desired size and mount it o the directory shared to master node.







Create Volume

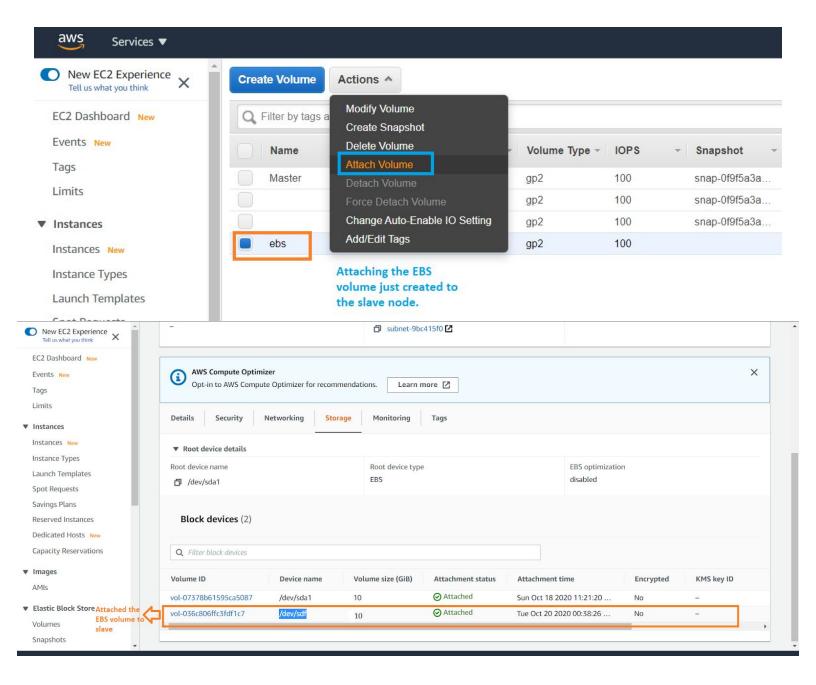


Volumes > Create Volume

Create Volume

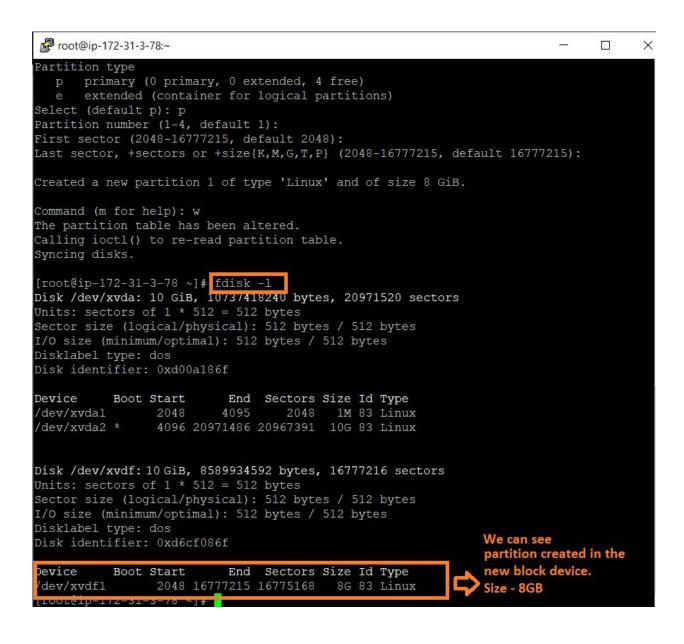


Close



```
root@ip-172-31-3-78:~
                                                                              П
     [root@ip-172-31-3-78 ~]# fdisk -l
     Disk /dev/xvda: 10 GiB, 10737418240 bytes, 20971520 sectors
     Units: sectors of 1 * 512 = 512 bytes
     Sector size (logical/physical): 512 bytes / 512 bytes
     I/O size (minimum/optimal): 512 bytes / 512 bytes
     Disklabel type: dos
     Disk identifier: 0xd00a186f
              Boot Start
                             End Sectors Size Id Type
                                  2048 1M 83 Linux
     /dev/xvda1
                    2048
     /dev/xvda2 *
                     4096 20971486 20967391 10G 83 Linux
     low we can see the volume as an available block device.
     Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
     I/O size (minimum/optimal): 512 bytes / 512 bytes
     [root@ip-172-31-3-78 ~]#
root@ip-172-31-3-78:~
                                                                                   X
Disklabel type: dos
Disk identifier: 0xd00a186f
Device
          Boot Start
                          End Sectors Size Id Type
/dev/xvda1 2048
                         4095 2048 1M 83 Linux
                                                                 Created partition in the
               4096 20971486 20967391 10G 83 Linux
/dev/xvda2 *
                                                                 new storage device
                                                                 attached to slave(EBS
                                                                 volume) of size 8 GB
Disk /dev/xvdf: 10 GiB, 8589934592 bytes, 16777216 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
root@ip-172-31-3-78 ~]# fdisk /dev/xvdf
hanges will remain in memory only, until you decide to write them.
e careful before using the write command.
evice does not contain a recognized partition table.
reated a new DOS disklabel with disk identifier 0xd6cf086f.
command (m for help): n
artition type
      primary (0 primary, 0 extended, 4 free)
  e extended (container for logical partitions)
elect (default p): p
artition number (1-4, default 1):
irst sector (2048-16777215, default 2048):
ast sector, +sectors or +size{K,M,G,T,P} (2048-16777215, default 16777215): -8G
reated a new partition 1 of type 'Linux' and of size 8 GiB.
ommand (m for help): w
he partition table has been altered.
alling ioctl() to re-read partition table.
yncing disks.
```

[root@ip-172-31-3-78 ~]#



```
root@ip-172-31-3-78:~
                                                                               [root@ip-172-31-3-78 ~] # fdisk -1
Disk /dev/xvda: 10 GiB, 10737418240 bytes, 20971520 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0xd00a186f
Device
          Boot Start
                           End Sectors Size Id Type
                          4095
/dev/xvda1
                 2048
                                   2048
                                        1M 83 Linux
                 4096 20971486 20967391
/dev/xvda2 *
                                        10G 83 Linux
Disk /dev/xvdf: 8 GiB, 8589934592 bytes, 16777216 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0xd6cf086f
          Boot Start
                         End Sectors Size Id Type
               2048 16777215 16775168 8G 83 Linux Formatted the partition
/dev/xvdf1
[root@ip-172-31-3-78 ~]# mkfs.ext4 /dev/xvdf1 | -
mke2fs 1.45.4 (23-Sep-2019)
Creating filesystem with 2096896 4k blocks and 524288 inodes
Filesystem UUID: 0126a9f9-1bfa-44a3-a965-412e164fc98a
Superblock backups stored on blocks:
        32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632
Allocating group tables: done
Writing inode tables: done
Creating journal (16384 blocks): done
Writing superblocks and filesystem accounting information: done
[root@ip-172-31-3-78 ~]#
🧬 root@ip-172-31-3-78:~
                                                                             X
[root@ip-172-31-3-78 ~] # df -h
Filesystem
               Size Used Avail Use% Mounted on
devtmpfs
               386M
                          386M
                                  0% /dev
               408M
                           408M
                                  0% /dev/shm
tmpfs
               408M
                      11M
                          398M
tmpfs
                                  3% /run
tmpfs
               408M
                           408M
                                  0% /sys/fs/cgroup
```

