```
cisc220 [Running]
kevin@cisc220:~$ df -h
Filesystem
                                   Used Avail Use% Mounted on
                             Size
udev
                             981M
                                      0
                                         981M
                                                0% /dev
tmpfs
                             201M 3.3M 197M
                                                2% /run
                              17G 2.7G
/dev/mapper/cisc220--vg-root
                                          13G
                                              17% /
tmpfs
                            1001M 4.0K 1001M
                                               1% /dev/shm
tmpfs
                                      0 5.0M
                                                0% /run/lock
                             5.0M
tmpfs
                                      0 1001M
                            1001M
                                                0% /sys/fs/cgroup
/dev/sda1
                             472M 198M 250M
                                              45% /boot
                                      0 201M
                                                0% /run/user/1000
tmpfs
                             201M
/home/kevin/.Private
                              17G 2.7G
                                          13G 17% /home/kevin
kevin@cisc220:~$
kevin@cisc220:~$
kevin@cisc220:~$
kevin@cisc220:~$
kevin@cisc220:~$ lsblk
NAME
                      MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
sda
                        8:0
                               0
                                   50G 0 disk
                               0 487M 0 part /boot
 -sda1
                        8:1
                        8:2
                               0
 -sda2
                                    1K 0 part
                        8:5
                               0 49.5G
 -sda5
                                        0 part
  -cisc220--vg-root
                      252:0
                               0 16.6G 0 lum
  -cisc220--vg-swap 1 252:1
                                    2G 0 lum
                               0
    Cruptswap1
                      252:2
                                    2G 0 crupt [SWAP]
                               0
                        8:16
                                       0 disk
sdb
                                    1G
sr0
                               1 1024M 0 rom
                       11:0
kevin@cisc220:~$
```

This is the new disk, and it only shows up after using lsblk, not df -h. We see that the new disk's name is sdb.



kevin@cisc220:~\$ sudo fdisk /dev/sdb

Welcome to fdisk (util-linux 2.27.1).

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): p

Disk /dev/sdb: 1 GiB, 1076813824 bytes, 2103152 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: 0xf146d77b

 Device
 Boot
 Start
 End Sectors
 Size Id Type

 /dev/sdb1
 2048 2103151 2101104
 1G 5 Extended

 /dev/sdb5
 4096 1028095 1024000
 500M 83 Linux

 /dev/sdb6
 1030144 2054143 1024000
 500M 83 Linux

Command (m for help): _

2



```
cisc220 [Running]
kevin@cisc220:~$ df -h
Filesystem
                             Size Used Avail Use% Mounted on
udev
                             981M
                                      0
                                         981M
                                                0% /dev
tmpfs
                             201M 3.3M 197M
                                                2% /run
                              17G 2.7G
/dev/mapper/cisc220--vg-root
                                          13G
                                               17% /
tmpfs
                             1001M 4.0K 1001M
                                               1% /dev/shm
tmpfs
                                      0 5.0M
                                                0% /run/lock
                             5.0M
tmpfs
                            1001M
                                      0 1001M
                                                0% /sys/fs/cgroup
/dev/sda1
                             472M 198M 250M
                                               45% /boot
                                                0% /run/user/1000
tmpfs
                             201M
                                      0 201M
/home/kevin/.Private
                              17G 2.7G
                                          13G 17% /home/kevin
kevin@cisc220:~$
kevin@cisc220:~$
kevin@cisc220:~$
kevin@cisc220:~$ lsblk
                      MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
NAME
sda
                                   50G 0 disk
                        8:0
                               0
                               0 487M 0 part /boot
 -sda1
                        8:1
                        8:2
                                    1K 0 part
 -sda2
                        8:5
                               0 49.5G 0 part
 -sda5
  -cisc220--vg-root
                      252:0
                               0 16.6G 0 lum
  _cisc220--vg-swap_1 252:1
                               0
                                    2G 0 lum
                                    2G 0 crypt [SWAP]
    Cryptswap1
                      252:2
                               0
sdb
                        8:16
                               0
                                    1G 0 disk
                        8:17
                                    1K 0 part
 -sdb1
 -sdb5
                        8:21
                               0 500M 0 part
                                                   Only Isblk shows the new hard disk and partitions
                        8:22
                               0 500M 0 part
 -sdb6
sr0
                       11:0
                               1 1024M 0 rom
kevin@cisc220:~$
```



