[root@ftport01kf ~]<20190124 16:59:27># fdisk -l|grep "Disk /dev/sd"

Disk /dev/sda: 75.2 GB, 75161927680 bytes, 146800640 sectors

Disk /dev/sdc: 107.4 GB, 107374182400 bytes, 209715200 sectors

Disk /dev/sdb: 32.2 GB, 32212254720 bytes, 62914560 sectors

[root@ftport01kf ~]<20190124 17:00:18>#

[root@ftport01kf ~]<20190124 17:00:45># pvs

PV VG Fmt Attr PSize PFree

/dev/sda2 VolGroup lvm2 a-- 69.00g 11.00g

/dev/sdb1 VolApp lvm2 a-- 30.00g 0

[root@ftport01kf ~]<20190124 17:00:49># fdisk /dev/sdc

Welcome to fdisk (util-linux 2.23.2).

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

Be careful before using the write command.

Device does not contain a recognized partition table

Building a new DOS disklabel with disk identifier 0x8d762503.

Command (m for help): p

Disk //dev/sdc: 107.4 GB, 107374182400 bytes, 209715200 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

Disk label type: dos

Disk identifier: 0x8d762503

Device Boot Start End Blocks Id System

Command (m for help): n

Partition type:

p primary (0 primary, 0 extended, 4 free)

e extended

Select (default p): p

Partition number (1-4, default 1): 1

First sector (2048-209715199, default 2048):

Using default value 2048

Last sector, +sectors or +size{K,M,G} (2048-209715199, default 209715199):

Using default value 209715199

Partition 1 of type Linux and of size 100 GiB is set

Command (m for help): p

Disk //dev/sdc: 107.4 GB, 107374182400 bytes, 209715200 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

Disk label type: dos

Disk identifier: 0x8d762503

Device Boot Start End Blocks Id System

//dev/sdc1 2048 209715199 104856576 83 Linux

Command (m for help): w

The partition table has been altered!

Calling ioctl() to re-read partition table.

Syncing disks.

[root@ftport01kf ~]<20190124 17:05:55># partprobe /dev/sdc

[root@ftport01kf ~]<20190124 17:05:57>#

[root@ftport01kf ~]<20190124 17:05:59># lsblk

NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT

sda 8:0 0 70G 0 disk

├─sda1 8:1 0 1G 0 part /boot

└─sda2 8:2 0 69G 0 part

├─VolGroup-lv\_root 253:0 0 10G 0 lvm /

├─VolGroup-lv\_swap 253:1 0 8G 0 lvm [SWAP]

├─VolGroup-lv\_home 253:2 0 5G 0 lvm /home

├─VolGroup-lv\_var 253:3 0 10G 0 lvm /var

├─VolGroup-lv\_tmp 253:4 0 5G 0 lvm /tmp

├─VolGroup-lv\_opt 253:5 0 10G 0 lvm /opt

└─VolGroup-lv\_var\_crash 253:6 0 10G 0 lvm /var/crash

sdb 8:16 0 30G 0 disk

└─sdb1 8:17 0 30G 0 part

└─VolApp-lv\_app 253:7 0 30G 0 lvm /opt/app

sdc 8:32 0 100G 0 disk

└─sdc1 8:33 0 100G 0 part

sr0 11:0 1 1024M 0 rom

[root@ftport01kf ~]<20190124 17:06:51>#

[root@ftport01kf ~]<20190124 17:07:32># mkfs.xfs /dev/sdc1

meta-data=/dev/sdc1 isize=256 agcount=4, agsize=6553536 blks

= sectsz=512 attr=2, projid32bit=1

= crc=0 finobt=0

data = bsize=4096 blocks=26214144, imaxpct=25

= sunit=0 swidth=0 blks

naming =version 2 bsize=4096 ascii-ci=0 ftype=0

log =internal log bsize=4096 blocks=12799, version=2

= sectsz=512 sunit=0 blks, lazy-count=1

realtime =none extsz=4096 blocks=0, rtextents=0

[root@ftport01kf ~]<20190124 17:07:56>#

[root@ftport01kf ~]<20190124 17:07:57># pvscan

PV /dev/sda2 VG VolGroup lvm2 [69.00 GiB / 11.00 GiB free]

PV /dev/sdb1 VG VolApp lvm2 [30.00 GiB / 0 free]

Total: 2 [98.99 GiB] / in use: 2 [98.99 GiB] / in no VG: 0 [0 ]

[root@ftport01kf ~]<20190124 17:08:12>#

[root@ftport01kf ~]<20190124 17:08:14># pvcreate /dev/sdc1

WARNING: xfs signature detected on /dev/sdc1 at offset 0. Wipe it? [y/n]: y

Wiping xfs signature on /dev/sdc1.

Physical volume "/dev/sdc1" successfully created

[root@ftport01kf ~]<20190124 17:08:30>#

[root@ftport01kf ~]<20190124 17:08:33># pvscan

PV /dev/sda2 VG VolGroup lvm2 [69.00 GiB / 11.00 GiB free]

PV /dev/sdb1 VG VolApp lvm2 [30.00 GiB / 0 free]

PV /dev/sdc1 lvm2 [100.00 GiB]

Total: 3 [198.99 GiB] / in use: 2 [98.99 GiB] / in no VG: 1 [100.00 GiB]

[root@ftport01kf ~]<20190124 17:08:49>#

[root@ftport01kf ~]<20190124 17:09:03># vgextend VolGroup /dev/sdc1

Volume group "VolGroup" successfully extended

[root@ftport01kf ~]<20190124 17:09:13>#

[root@ftport01kf ~]<20190124 17:09:16># pvscan

PV /dev/sda2 VG VolGroup lvm2 [69.00 GiB / 11.00 GiB free]

PV /dev/sdc1 VG VolGroup lvm2 [100.00 GiB / 100.00 GiB free]

PV /dev/sdb1 VG VolApp lvm2 [30.00 GiB / 0 free]

Total: 3 [198.99 GiB] / in use: 3 [198.99 GiB] / in no VG: 0 [0 ]

[root@ftport01kf ~]<20190124 17:09:18>#

[root@ftport01kf ~]<20190124 17:10:27># lvextend -L +90G /dev/VolGroup/lv\_root

Size of logical volume VolGroup/lv\_root changed from 10.00 GiB (2560 extents) to 100.00 GiB (25600 extents).

Logical volume lv\_root successfully resized.

[root@ftport01kf ~]<20190124 17:11:47>#

[root@ftport01kf ~]<20190124 17:11:51># df -h /usr

Filesystem Size Used Avail Use% Mounted on

/dev/mapper/VolGroup-lv\_root 10G 2.7G 7.4G 27% /

[root@ftport01kf ~]<20190124 17:12:13>#

[root@ftport01kf ~]<20190124 17:12:15># xfs\_growfs /dev/VolGroup/lv\_root

meta-data=/dev/mapper/VolGroup-lv\_root isize=256 agcount=4, agsize=655360 blks

= sectsz=512 attr=2, projid32bit=1

= crc=0 finobt=0

data = bsize=4096 blocks=2621440, imaxpct=25

= sunit=0 swidth=0 blks

naming =version 2 bsize=4096 ascii-ci=0 ftype=0

log =internal bsize=4096 blocks=2560, version=2

= sectsz=512 sunit=0 blks, lazy-count=1

realtime =none extsz=4096 blocks=0, rtextents=0

data blocks changed from 2621440 to 26214400

[root@ftport01kf ~]<20190124 17:12:26>#

[root@ftport01kf ~]<20190124 17:12:27># df -h /usr

Filesystem Size Used Avail Use% Mounted on

/dev/mapper/VolGroup-lv\_root 100G 2.7G 98G 3% /

[root@ftport01kf ~]<20190124 17:12:29>#