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# ``` LVM: Logical Volume Management ===== ```

- ```
1. create 3 partitions
/dev/sda3  5000M
/dev/sda4  5000M
/dev/sda5  5000M
```

## ``` useful commands ===== ```

- ```
1. fdisk -l
2. fdisk /dev/sda
   m : get help
   p : print all information about
       partition
   n : create new partition
       e : extends
       p : primary partition(1-4)
       l : logical partitions
   t : used to change Partition type
```

```
       hex_code: 8e, fd
```

- ```
w : write and quit
partprobe
reboot or init 6
2. Creating Physical volume
```

```
pvcreate /dev/sda5 /dev/sda6 /dev/sda7
pvdisplay : just for displaying
```

- ```
3. create groupe volume
```

```
vgcreate /dev/vg0 /dev/sda5 /dev/sda6 /dev/sda7
```

- ```
4. Create Logic volume lv1, lv2
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```
lvcreate -L 5000m -n /dev/vg0/lv1
lvcreate -L 5000m -n /dev/vg0/lv2
```

```
// checking file
e2fsck /dev/vg0/lv1
```

```
//change file system
```

```
mkfs.ext4 /dev/vg0/lv1
```

```
mount /dev/vg0/lv1 /myData      // for justing mounting
umount /dev/vg0/lv1
```

```
>> Extending & Reducing
```

```
lvextend -L +2000m /dev/vg0/lv1
```

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Gracius
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