

Disk Linux LVM Disk  
Filesystem Disk  
Format

Concept

1. Physical Disk PV (Physical Volume) Disk hda1

```
# fdisk /dev/hda1
```

format LVM type

```
# pvcreate /dev/hda1
```

2. PV VG (Volume Group)

```
# vgcreate -s 16M vg0 /dev/hda1
```

3. VG Volume (partition) volume LV (Logical Volume)

```
# lvcreate -L 1000M -n lv0 vg0
```

#### 4. `lv` `format` `ext3` Filesystem

```
# mkfs -t ext3 -m 1 -v /dev/vg0/lv0
```

#### 5. `lv` `format` `mount`

```
# mkdir /mnt1
```

```
# mount /dev/vg0/lv0 /mnt1
```