parted /dev/sdb LVM

parted /dev/sdb LVM 3

parted   /dev/sdb   LVM

:   */dev/sdb*   .
,   .

1. `parted`   LVM

/dev/sdb   LVM   .
              .

1. **`parted`   :**

```
sudo parted /dev/sdb
```

2. **   (   ):**
   * **GPT (   ):**   2TB   .

```
(parted) mklabel gpt
```

- **MSDOS (MBR):**   .

```
(parted) mklabel msdos
```

            //Yes//   .

3. **   :**
                   ,   LVM
    .

```
(parted) mkpart primary 0% 100%
```

- *primary*: (MBR . GPT
  , .)
- *0%*:
- *100%*: ( )

4. ** :**

```
(parted) print
```

(Number) . **1**
.

5. ** ( ) LVM :**
(: **1**) LVM .

```
(parted) set 1 lvm on
```

6. ** `parted` :**

```
(parted) quit
```

/dev/sdb1 ( ) LVM . `lsblk` `fdisk -l /dev/sdb` .

2. PV(Physical Volume)

`parted` (*/dev/sdb1*) LVM Physical Volume .

```
sudo pvcreate /dev/sdb1
```

.

```
sudo pvs
#
sudo pvdisplay /dev/sdb1
```

3. VG(Volume Group)

PV Volume Group . VG PV
.

```
sudo vgcreate <      _VG_    > /dev/sdb1
```

- `<        _VG_     >`: VG   (: `myvg`, `datavg`).

   :

```
sudo vgcreate my_volume_group /dev/sdb1
```

                                         .

```
sudo vgs
#
sudo vgdisplay <       _VG_    >
```

4. LV(Logical Volume)

VG   Logical Volume   .

- **   LV   ** :

```
sudo lvcreate -L <     > -n <       _LV_      > <VG_        >
```

- `<      >`: `10G` (10   ), `500M` (500   )
- `<         _LV_     >`: LV   (: `mylv`, `webdata_lv`).
- `<VG_      > `:   VG

     (10GB   LV   ):

```
sudo lvcreate -L 10G -n logical_volume1 my_volume_group
```

- **VG   LV   ** :

```
sudo lvcreate -l 100%FREE -n <       _LV_     > <VG_      >
```

    :

```
sudo lvcreate -l 100%FREE -n data_lv my_volume_group
```

                                 .

```
sudo lvs
#
sudo lvdisplay /dev/<VG_     >/<LV_     >
```

LV   /dev/<VG_   >/<LV_   >   /dev/mapper/<VG_   >-<LV_   >
          .

5.

LV   .   `xfs`   `ext4`   .

- **XFS**   :

```
sudo mkfs.xfs /dev/<VG_     >/<LV_    >
```

      :

```
sudo mkfs.xfs /dev/my_volume_group/logical_volume1
```

- **EXT4**   :

```
sudo mkfs.ext4 /dev/<VG_     >/<LV_    >
```

      :

```
sudo mkfs.ext4 /dev/my_volume_group/logical_volume1
```

6.

.

1. **   :**

```
sudo mkdir /mnt/<      _       _      _      >
```

      :

```
sudo mkdir /mnt/my_lvm_data
```

2. **   :**

```
sudo mount /dev/<VG_     >/<LV_    > /mnt/<       _       _      _      >
```

      :

```
sudo mount /dev/my_volume_group/logical_volume1 /mnt/my_lvm_data
```

3. **   :**

```
df -h
lsblk
```

(   )

/etc/fstab   .

1. **LV   UUID   :**

```
sudo blkid /dev/<VG_    >/<LV_    >
```

     `UUID="..."`   .

2. **// /etc/fstab //   :**

```
sudo nano /etc/fstab
#      sudo vi /etc/fstab
```

                                       .

```
UUID=<      _UUID>  /mnt/<      _      _      >  <        _    >  defaults
0  0
```

  - `<        _    >`: `xfs`   `ext4`

     (XFS):

```
UUID="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx"  /mnt/my_lvm_data  xfs  defaults
0  0
```

3. **fstab   (   ):**
                    (   )

```
sudo umount /mnt/my_lvm_data
```

      , fstab

```
sudo mount -a
```

                         `df -h`   .

—

                `parted`   */dev/sdb*   LVM   ,   LVM
                              .   `<VG_    >`, `<LV_    >`,

.