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Logical Volume Manager

VM

- physical Volume(PV)
- Volume Group(VG)
- Logical Volume(LV)

Phsyscal Volume

* Size 10G

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```
[root@localhost ~]# fdisk -l
Disk /dev/sdb: 21.5 GB, 21474836480 bytes, 41943040 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: 0x522ca171
```

Device	Boot	Start	End	Blocks	Id	System
/dev/sdb1		2048	20973567	10485760	8e	Linux LVM

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```
[root@localhost ~]# pvcreate -h
pvcreate: Initialize physical volume(s) for use by LVM
```

pvcreate

```
  [--norestorefile]
  [--restorefile file]
  [-d|--debug]
  [-f[f]|--force [--force]]
  [-h|-?|--help]
  [--labelsector sector]
  [-M|--metadatatype 1|2]
  [--pvmetadatacopies #copies]
  [--bootloaderareasize BootLoaderAreaSize[bBsSkKmMgGtTpPeE]]
  [--metadatasize MetadataSize[bBsSkKmMgGtTpPeE]]
  [--dataalignment Alignment[bBsSkKmMgGtTpPeE]]
  [--dataalignmentoffset AlignmentOffset[bBsSkKmMgGtTpPeE]]
  [--setphysicalvolumesize PhysicalVolumeSize[bBsSkKmMgGtTpPeE]]
  [-t|--test]
```

```
[-u|--uuid uuid]
[-v|--verbose]
[-y|--yes]
[-Z|--zero {y|n}]
[--version]
PhysicalVolume [PhysicalVolume...]
```

```
[root@localhost ~]# pvcreate /dev/sdb1
Physical volume "/dev/sdb1" successfully created
```

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```
[root@localhost ~]# pvs
PV          VG   Fmt  Attr PSize  PFree
/dev/sda2   rhel lvm2 a--  29.51g    0
/dev/sdb1           lvm2 a--  10.00g 10.00g
[root@localhost ~]# pvdisplay
--- Physical volume ---
PV Name                /dev/sda2
VG Name                rhel
PV Size                29.51 GiB / not usable 3.00 MiB
Allocatable            yes (but full)
PE Size                4.00 MiB
Total PE               7554
Free PE                0
Allocated PE           7554
PV UUID                Ub2hjb-BUuv-ffkk-ytkD-0p9D-3coH-GfcyLu
"/dev/sdb1" is a new physical volume of "10.00 GiB"
--- NEW Physical volume ---
PV Name                /dev/sdb1
VG Name
PV Size                10.00 GiB
Allocatable            NO
PE Size                0
Total PE               0
Free PE                0
Allocated PE           0
PV UUID                7WPUaF-0t00-KCfn-oHkB-vL7d-qMTE-2itl4i
```

Volume Group

- Volume Group

```
[root@localhost ~]# vgcreate -h
vgcreate: Create a volume group
```

```
vgcreate
```

```
[ -A|--autobackup {y|n}]
[ --addtag Tag]
[ --alloc AllocationPolicy]
[ -c|--clustered {y|n}]
[ -d|--debug]
[ -h|--help]
[ -l|--maxlogicalvolumes MaxLogicalVolumes]
[ -M|--metadatatype 1|2]
[ --[vg]metadataacopies #copies]
[ -p|--maxphysicalvolumes MaxPhysicalVolumes]
[ -s|--physicalextentsize PhysicalExtentSize[bBsSkKmMgGtTpPeE]]
[ -t|--test]
[ -v|--verbose]
[ --version]
[ -y|--yes]
[ PHYSICAL DEVICE OPTIONS ]
VolumeGroupName PhysicalDevicePath [PhysicalDevicePath...]
```

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