

# Extend disk with vsphere

Add disk space to the vm on vsphere first then run:

```
fdisk -l
```

Enter then follow the instruction bellow to format the newly space added:

```
[root@ubuntu ~]# fdisk /dev/sda
```

```
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.
```

```
Command (m for help): n
```

```
Partition type:
```

```
  p   primary (3 primary, 0 extended, 1 free)
```

```
  e   extended
```

```
Select (default e): p
```

```
Selected partition 4
```

```
First sector (62914560-104857599, default 62914560):
```

```
Using default value 62914560
```

```
Last sector, +sectors or +size{K,M,G} (62914560-104857599, default 104857599):
```

```
Using default value 104857599
```

```
Partition 4 of type Linux and of size 20 GiB is set
```

```
Command (m for help): t
```

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

```
Hex code (type L to list all codes): 8e
```

```
Changed type of partition 'Linux' to 'Linux LVM'
```

```
Command (m for help): w
```

```
The partition table has been altered!
```

```
Calling ioctl() to re-read partition table.
```

```
WARNING: Re-reading the partition table failed with error 16: Device or resource busy.
```

The kernel still uses the old table. The new table will be used at the next reboot or after you run `partprobe(8)` or `kpartx(8)`

Syncing disks.

Then add this new space to the partition

```
fdisk -l  
partprobe  
vgdisplay  
vgextend <vg> <partition>  
pvscan  
lvextend /dev/mapper/<lv> <partition>
```

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