

Howto add and format your new HDD in Linux ?

Problem:

Your HDD is full and you want to expand it ? Simply add a new HDD, format it and mount to your file system. You can follow this article step by step

FDISK

At first, you need to use fdisk in order to make different partition on the HDD. Your primary HDD would be named sda if it is S-ATA and hda if IDE. The second HDD will be sdb or hdb (in this case is your new HDD).

Example:

```
[rev0001:/ # fdisk /dev/hdb
```

Changes will remain in memory only, until you decide to write them. After that, of course, the previous content won't be recoverable.

Command (m for help): n

Command action

e extended

p primary partition (1-4)

p

Partition number (1-4): 1

First cylinder (1-4865, default 1): 1

Last cylinder or +size or +sizeM or +sizeK (1-4865, default 4865): 4865

Command (m for help): t

Partition number (1-4): 1

Hex code (type L to list codes): 83

Command (m for help): w

The partition table has been altered!

Calling ioctl() to re-read partition table.

Syncing disks.

Format the HDD

```
[rev0001:/# mkfs.ext3 -b 4096 /dev/hdb1
```

-b 4096 will make the block size = 4096 bytes

Mount the HDD

Now you should create a directory on your file system like `mkdir /var/www/vhosts/yoursite.com/httpdocs/space`

Edit the fstab file in /etc with `vi /etc/fstab`

Insert o line like this:

```
/dev/hdb1          /var/www/vhosts/yoursite.com/httpdocs/space          ext3  defaults    1  1
```

Save this file with `SHIFT + ZZ`

Now mount the disk

```
[rev0001:/# mount /var/www/vhosts/yoursite.com/httpdocs/space
```

Use `df -hT` to check it. You are done.