

# How to Auto Mount Partitions On Boot in Linux Easily

In order to mount a particular partition automatically on boot up, you just have to add its entry into the **fstab** file. You can do this by directly writing to the file, or graphically using some tool like Gnome Disks.

Here, I am going to discuss about editing the **fstab** file directly. You won't need a "how to" on doing it graphically.

## Let's get started

First, create a backup of your original **fstab** file. It can be removed later if file systems mount properly. The **fstab** file is present in */etc/* directory. To do this, open a terminal window and type:

```
sudo cp /etc/fstab /etc/fstab.original
```

The **fstab** file stores entries in the following format:

```
<UUID or Label> <Mount point> <File system type> <Mount options> <fs_freq>  
<fs_passno>
```

The fifth and sixth field are used by **dump** and **fsck** utility respectively. These determine which file system needs to be dumped, and the order of mounting of file systems. These are given a 0 value generally.

It is also recommended that you should use UUID to identify partition rather than label, as labels can mismatch.

## Finding UUID of partition:

To get the UUID of desired partition, type:

```
sudo blkid
```

This would show a list of partitions with their labels and UUID. You can identify a partition by its Label. Or use **lsblk** to identify the partition by its size. Copy the UUID of desired partition.

## Creating an entry in fstab:

Open the file `/etc/fstab` in a text editor with root privileges. At the end of file, append a line representing the partition's details.

The mount point is generally a folder in `/mnt/` directory, like `/mnt/windows`. You need to create a folder there prior to mounting. The type of partition can be determined from the **blkid** command given above. A **default** should suffice in the mount option field. You can provide other mount options like `uid`, `gid`, `umask` etc in a comma separated list after **default**. After that, specify the `<fs_freq>` and `<fs_passno>` as 0 (or 1,2.., if you are sure to change dump or mount order options). You can use previous entries in the `fstab` file as a reference, or the image below.

```
# /dev/sda4 LABEL=WindowsOS_8
UUID=5EA04A11A049EFD7 /media/windows ntfs defaults,dmask=003,fmask=002,rw 0 0
# /dev/sda5 LABEL=Stuff
UUID="C8B43B7AB43B6A58" /media/stuff ntfs defaults,uid=1000,gid=1000,umask=003,rw 0 0
```

**Note:** After updating the `fstab` file, unmount manually mounted partitions and type `sudo mount -a` in the terminal. If you get unwanted results, like wrong permissions, you can update the file accordingly. So next time you boot up the system you'll get the desired results.

**DO NOT MODIFY PREVIOUS ENTRIES IN THE FSTAB FILE.** It may lead to an unbootable system. Then you'll have to replace the updated file with the **fstab.original** file created in first step.

## A note for windows users

If you're dual booting with Microsoft Windows 8 (or above), you will have to disable fast startup first, otherwise your Linux might display an error on startup. There is an option in the **control panel > power options**, to disable fast startup.

Try this out and if you find some difficulty, comment down your queries.

Recommended for you: [Linux Windows Dual Boot and More: Multi-booting Up to Five OS](#)