

How to Recover Grub after installing windows or how to recover linux after windows re-install

The steps are as follows:

- a. Launch a linux live CD
- b. Start a terminal
- c. Login as root

Sudo su

- d. Make a list of partitions on the local hard disk

fdisk -l

This will show your partition table.

- e. Make a new directory to hold the mounted partition that will be your Linux partition.

Sudo mkdir /mnt/system

- f. Mount your Linux partition to this new directory so we can access all the files on your Linux Operating System.

sudo mount /dev/xxxx /mnt/system

In my case, 'xxxx' would be 'sda7'. Your Linux partition may be different.

- g. The next few steps involve "chroot'ing" into this new mounting partition. When you 'chroot' to a mounted device, you are literally changing the root directory of the LiveCD system to the root directory of the mounted device. What this does is it allows you to run commands directly on the Linux partition that you specify instead of running the commands on the LiveCD.

The first thing you need to do is take control of the root user.

sudo -i

- h. bind the /dev tree from the LiveCD file tree to the mounted Linux Partition using the following command:

mount -o bind /dev /mnt/system/dev

- i. chroot into our partition.

chroot /mnt/system

- j. We are inside our Linux partition. We have one more command left. What this command does is reinstall and configure our Grub Bootloader so that we can boot into either Windows or Linux when we restart.

grub-install /dev/xxx

or grub-install /dev/sda

'xxx' refers to the three character description representing our hard-drive.

We are finally finished!

All you have to do is restart! We now have choices when we boot up our computer!

By Fokwa Divine

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