Grub

From MTU LUG wiki

There are two methods two reinstall grub. These can be used to fix the dreaded GRUB error 15 on boot. These will not help you if you simply get dropped to the grub shell instead of seeing a menu.

Method 1

This method will install the grub bootloader from the live cd onto your hard drive.

NOTE: You can use a 32-bit live cd with a 64-bit installation of linux

- 1. Acquire a live cd with grub on it.
- 2. Boot the live cd
- 3. Open a terminal
- 4. Become root (from now on being root is implied for this guide)

5. Create a temporary working area. I like to use /target, its a debian habit.

mkdir /target

6. Mount your root partition. I'll be assuming its the first partition on sda for my examples

mount /dev/sda1 /target

7. If you have a seperate boot partition (the 2nd partition on sda in my example) then you have to mount that as well. Skip this step otherwise

8. I don't want to catch anyone not drinking

cd /pub; more beer

9. Run the grub installation command (If this command isn't found then switch to Method 2, you can start with step 7. See the NOTE at the start of method 2 though)

10. Unmount your boot partition if you had one

umount /target/boot

11. Unmount your root partition

12. Reboot (make sure to remove the livecd at some point)

Method 2

This method creates a fakeroot containing your actual installed linux distro and then installs the grub from that to your hard disk.

NOTE: If your linux install is 64-bit, then you **must** use a 64-bit live cd!

- 1. Acquire a live cd
- 2. Boot the live cd.
- 4. Become root (from now on being root is implied for this guide)

5. Create a temporary working area. I like to use /target, its a debian habit.

6. Mount your root partition. I'll be assuming its the first partition on sda for my examples

mount /dev/sda1 /target

7. If you have other partitions you'll want to mount them now at the appropriate places under /target. You must have atleast /usr and /boot mounted if they are seperate partitions

8. Now we need to mount some extra virtual partitions

mount - o bind /dev /target/dev mount - o bind /dev/shm /target/dev/st mount - o bind /dev/jsts /target/dev/pts mount - o bind /sys /target/sys mount - o bind /proc /target/proc mount - o bind /proc/bus/usb /target/pr

9. Enter the fakeroot

10. Run the grub installation command (If this command isn't found then see method 2)

grub-install /dev/sda

11. Exit the fakeroot

12. Unmount the virtual partitions

umount /target/proc/bus/usb umount /target/proc umount /target/sys umount /target/dev/shm umount /target/dev/shm umount /target/dev

13. Unmount your other partitions if you have them

14. Unmount your root partition

15. Reboot (make sure to remove the livecd at some point)

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