

Examples of grub usage (as a reminder mostly)

te=0x8ab6e30 [0,0]

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install

Sometimes, `grub-install` won't owerwrite MBR. If that happends, first reinstall MBR and then grub:

```
install-mbr /dev/sda
grub-install /dev/sda
```

If you forget to make `/boot/grub/menu.lst` (as I did), you will have to do a **lot** of typing in grub console, so be sure to also run

```
update-grub
```

LVM gotchas

There is also corner-case when you have `lvm` compiled into kernel and `/boot` partition on LVM. grub will be confused, and simplest solution that I found so far is to move `/boot` to partition. If you don't have any free space handy, you might try to move swap to LVM and `/boot` onto swap partition.

fallback

After you have installed grub, you might want to configure fallback kernels. First configure different kernels, with fail-safe one as last one:

```
/boot/grub/menu.lst
```

```
default          saved
```

```
fallback         1 2
```

```
title            OpenVZ 2.6.18-028test010
root             (hd0,2)
kernel          /vmlinuz-2.6.18-028test018 root=/dev/mapper/vg-root ro
initrd          /initrd.img-2.6.18-028test018
savedefault     fallback
boot
```

```
title            Debian GNU/Linux, kernel 2.6.18-028test007.2-ovz-enterprise
```

```
root                (hd0,2)
kernel              /vmlinuz-2.6.18-028test007.2-ovz-enterprise root=/dev/mapper/vg-root ro
initrd              /initrd.img-2.6.18-028test007.2-ovz-enterprise
savedefault         fallback
boot

title               Debian GNU/Linux, kernel 2.6.18-3-686
root                (hd0,2)
kernel              /vmlinuz-2.6.18-3-686 root=/dev/mapper/vg-root ro
initrd              /initrd.img-2.6.18-3-686
savedefault
boot
```

Here is simpler alternative:

```
default             0
fallback            1

title Debian GNU/Linux
root (hd0,0)
kernel /boot/vmlinuz root=/dev/md0 reboot=warm

title Debian GNU/Linux, with the old kernel
root (hd0,0)
kernel /boot/vmlinuz.old root=/dev/md0 reboot=warm
```

Then setup reset to default kernel (0) upon successful boot. On debian, you can just add following line in /etc/rc.local:

```
grub-set-default 0
```

You might also want to run this once by hand, so that first boot is in first kernel (most recent one presumably).