

# Linux Loader



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# Loader

- ❖ There are many different ways to boot linux.

You can boot linux from a floppy disk, directly from CD-ROM via a network or mostly from a specific partition on an installed hard drive.

- ❖ In each case ,to boot linux requires an installed program called boot loader.

Boot loader is used to load the kernel into the computer.

- ❖ Once the partitions are prepared , you can install a boot loader. Boot loader allow you to choose when and how to boot bootable operating systems installed on your computers hard disk.

- ❖ You can choose either Linux Loder (LILO) or Grand Unified Boot Loader(GRUB).

After Red Hat Linux 7.2 the default boot loader changed from LILO to GRUB.

## LILO [Linux Loader]

- ❖ LILO is a small boot loader usually installed in the Master Boot Record(MBR) of an IDE hard drive , the root partition or on a floppy disk.
- ❖ It also allows to give special options to modify how the o.s. is booted.
- ❖ This loader can be used to pass essential kernel arguments to the kernel for use during the boot process.
- ❖ Eg. Some arguments includes disk geometry ,additional network interfaces or installed RAM values.
- ❖ The file /etc/lilo.conf contains all the configuration information for LILO.

# GRUB (Grand Unified Boot Loader)

- ❖ GRUB is multiboot boot loader used for most linux distributions.
- ❖ With GRUB ,users can select operating systems to run from a menu interface displayed when a system boots up.
- ❖ After Red Hat Linux 7.2 ,GRUB is the default loader for later versions.

## Features:

- ❖ It supports menuing ,command lines ,installed RAM detection and diskless and remote network booting.
- ❖ It supports multiple executable formats.
- ❖ Supports for multiboot operating systems eg. Linux,Unix.
- ❖ It supports for non- multiboot operating systems.  
eg. Windows 95, windows 98, windows NT, windows ME,  
windows xp ,os/2.

- ❖ Grub supports for multiple file system types.
- ❖ Typically installed in the the MBR of the first IDE hard drive in a PC.
- ❖ There are two version of GRUB.
  - i> Legacy GRUB – Used for most distributions.
  - ii> GRUB2 - It is still under development.
- ❖ The file `/boot/grub.conf` contains all the configuration information for GRUB.

# Thanks For Watching!

**ANY QUESTIONS?**

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