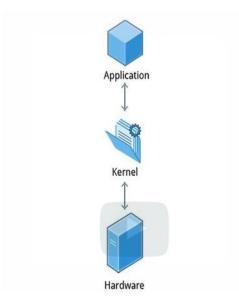
Linux Terminology

- 1. Before we begin using Linux, we need to be aware of some basic terms such as the below:
 - Kernel
 - Distribution
 - boot loader
 - service
 - filesystem
 - X Window system
 - desktop environment
 - Command line.
- 2. The above are the very commonly used terms by the Linux community.

Kernel:

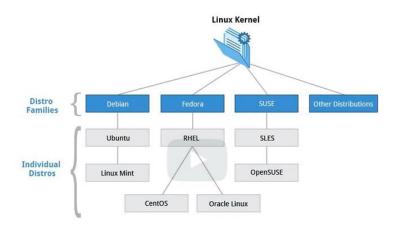
- 1. The kernel is considered the brain of the Linux operating system.
- 2. It controls the hardware and makes the hardware interact with the applications.
- 3. Example: Linux kernel.
- 4. The most recent Linux kernel, along with past Linux kernels, can be found at the kernel.org web site.



Kernel: Glue between hardware and applications

Distribution:

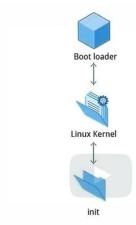
- 1. A distribution also known as Distros is a collection of programs combined with the Linux kernel to make up a Linux-based operating system.
- 2. Some common examples of a distribution are Red Hat Enterprise Linux, Fedora, Ubuntu, and Gentoo.



Distribution: Collection of software making up a Linux-based OS

Boot Loader:

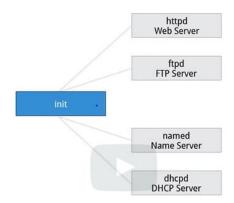
- 1. As the name implies, boot loader is a program that boots the operating system.
- 2. Examples: GRUB and ISOLINUX



Boot loader: Program that boots the operating system

Service:

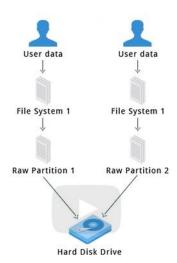
- 1. A service is a program that runs as a background process.
- 2. Some examples of the service are httpd, nfsd, ntpd, ftpd and named.



Service: Program that runs as a background process

File System:

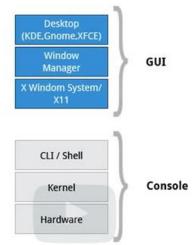
- 1. A filesystem is a method for storing and organizing files in Linux.
- 2. Some examples of filesystems are ext3, ext4, FAT, XFS, NTFS and Btrfs.



Filesystem: Method for storing and organizing files

X Window system:

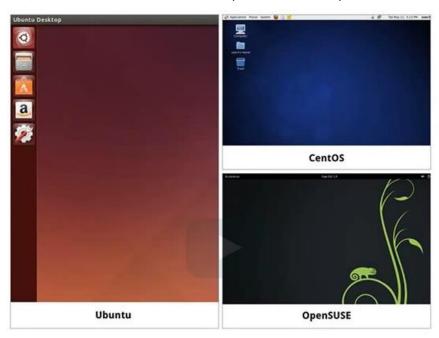
1. The X Window System provides the standard toolkit and protocol to build graphical user interfaces on nearly all Linux systems.



X Window System

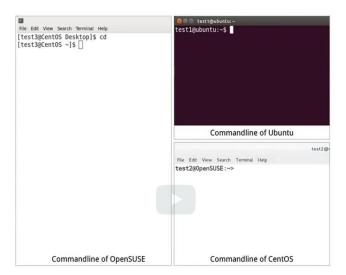
Desktop Environment:

- 1. The desktop environment is a graphical user interface on top of the operating system.
- 2. GNOME, KDE, Xfce and Fluxbox are some examples of the desktop environment.



Command Line:

- 1. The command line is an interface for typing commands on top of the operating system.
- 2. The Shell is the command line interpreter that interprets the command line input and instructs the operating system to perform any necessary tasks and commands.
- 3. For example, bash, tcsh(spelled as tc shell) and zsh(spelled as g shell).



Command line: Interface for typing commands on top of the operating system