

### click on 'linux online'

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Getting on with the basics.

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#### WAP present's LINUX ONLINE

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What is Linux

Linux is recognised as one of the best operating system in the world because of its simplicity, its ability to run on different machines, open standard design. If we compare Linux with Windows, Linux is more reliable, secure and cheap.

**Files** 

Style: background •

## What is Linux INTRODUCTION

Linux is a reliable, multiuser and secure operating system. Linux implemented the concept of cross platform standardisation, due to which you can find Linux on massive mainframes, on distributed clusters, on PCs, on Apples, on tablets, on smartphones, on wristwatches, in automobiles etc.

Linux continues to dominate web and application hosting landscape.

While Linux is adored by academicians, Linux has a great commercial domination. Linux is open source unlike other UNIX clones.



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## BASIC STRUCTURE OF LINUX

Linux System Architecture

- 1. Hardware layer
- 2. Kernel
- 3. Shell
- 4. Utilities







This layer is not part of UNIX operating system. This layer consists of all peripheral devices like RAM, hard disk, CPU.

CPU

#### **KERNEL**

Kernel is the core component of Operating System where actual code and functionality of operating system lies. The kernel interacts with the hardware layer and provides services to user. If a user program/ application needs to access the hardware, it ask's kernel, which performs the job on user behalf. The user programs access the kernel through a set of functions called system calls.

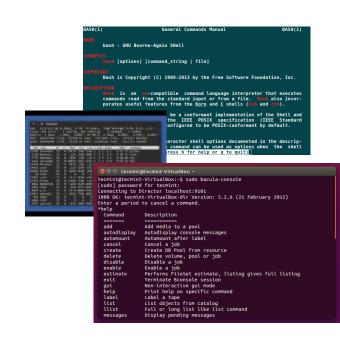
#### kernel handles the following operations

- Scheduling running of user and other processes.
- Allocating memory.
- Managing the swapping between memory and disk.
- Moving data to and from the peripherals.

It receives service requests from the processes and honours them. All these services are provided by the kernel through a call to a system utility(command shells as we will see later).

#### Shell

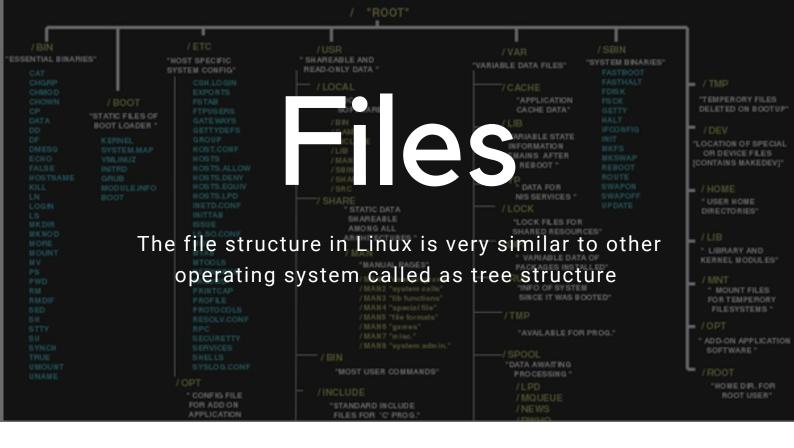
An interface for the user through which he can interact with the operating system. A shell environment allows you to run commands, programs, and shell scripts.



#### **Utilities**

Utility programs are the commands that perform a single task like printing date and time or searching a file in given directory. Different commands can be combined.





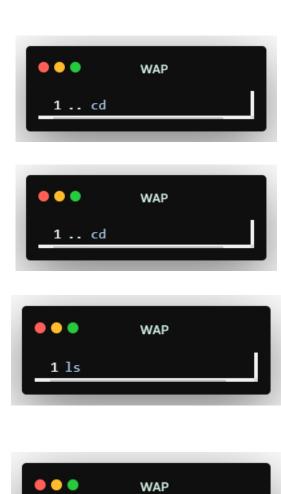
### Lets learn about the file structure with some commands.

Follow along the instructions in this lesson

First click on Learn Linux in the Home page and let the page load out Now for your first command type <...cd> twice

Now to too look at file type

Cool right ?!, these are file of the Linux system and you can go and explore them by using the above commands where ".. cd" is used to go back, and "Is" is used to display or list the files. you can use cd (Enter the filename) to open the files



1 cd {FileName}

#### Clear

This will clean all the clutter above

#### clear

#### CAT

Refresh the page cuz now we will look how to display files with CAT. The three basic functions of cat are: displaying files, combining copies of them and creating new ones

File Creation

cat > filename

Displaying Files/Reading Files

cat filename

Copy Original to copy file

cat filecopy >filename

Disk Related command
How do I check free disk space in Linux
operating system? UNIX offers two
commands for checking out free disk
space:

- (a) df command Report file system disk space usage.
- (b) du command: Estimate file space usage.

#### Vi Editor

To make a txt file

Type the 'vi ' command with a file name like its givin below and then the vi cmd open's up that let you type what you want. After typing press escape and type the next command ':wq'. Now to check type cat filename.





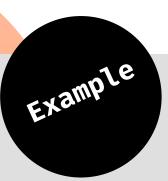




to check web connection

PING (WEBSITE NAME)

Example



WANT TO KNOW MORE ABOUT SYSTEM YOU ARE USING

## UNAME

COMMAND FOR SYSTEM INFO

uname -s

uname -m

uname -a

Example