



Linux

What Is Linux

Linux is an open-source operating system like other operating systems such as Microsoft [Windows](#), Apple Mac OS, iOS, Google android, etc.

What is an Operating system?

An operating system is a software that enables the communication between computer hardware and software. It conveys input to get processed by the processor and brings output to the hardware to display it. This is the basic function of an operating system.

Linux is around us since the mid-1990s . It can be used from wristwatches to supercomputers. It is everywhere in our phones, laptops, PCs, cars and even in refrigerators. It is very much famous among developers and normal computer users.

Evolution of Linux OS

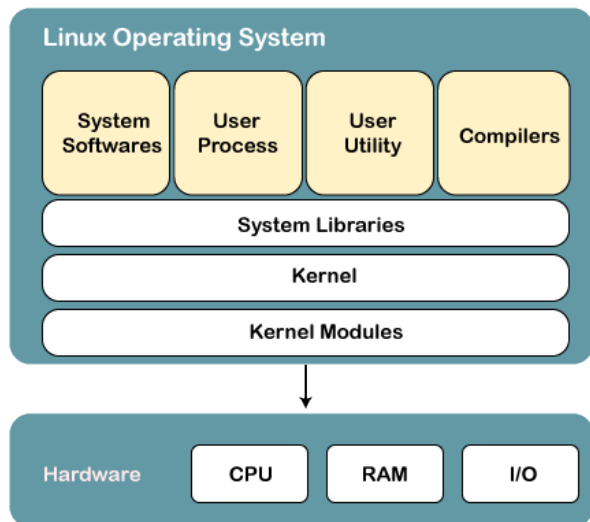


The [Linux OS](#) was developed by Linus Torvalds in 1991, to improve the UNIX OS. He suggested improvements but was rejected by UNIX designers. Therefore, he thought of launching an OS, designed in a way that could be modified by its users.

Structure Of Linux Operating System

An operating system is a collection of software, each designed for a specific function.

Linux OS has following components:



Why use Linux?

There are various **features of Linux** systems that make it completely different and one of the most used operating systems. Linux may be a perfect operating system *if you want to get rid of viruses, malware, slowdowns, crashes, costly repairs*, and many more. Further, it provides various **advantages over other operating systems**, and we don't have to pay for it.

Let's have a look at some of its special features that will attract you to switch your operating system.

1. Free & Open Source Operating System
2. It is secure
3. Favorable choice of Developers : it supports almost all of the most used programming languages such as C/C++, Java, Python, Ruby, and more
4. A flexible operating system :
It can be used for desktop applications, embedded systems, and server applications. It can be used from wristwatches to supercomputers. It is everywhere in our phones, laptops, PCs, cars and even in refrigerators.

Advantages of Linux

1. Open source
2. Secure
3. Free
4. Lightweight
5. Stability
6. Performance
7. Flexibility
8. Software Updates
9. Distributions /Distros
10. Live CD/USB

11. GUI
12. Suitable for Programmers
13. Community support
14. Privacy
15. Networking
16. Compatibility
17. Quick Installation
18. Multiple desktop Support
19. Multitasking
20. Heavily documented for beginners

What are linux commands?

Linux commands are just simple programs like a program in windows. Typing command is like clicking an icon in windows.

A command can also be called as Program/ Application /software/ App depending on the situation where it is used.

NOTE: Linux commands and File names are case sensitive

Command	Description	Example
ls	list directory contents	\$ ls
	Options: -a, --all -d, --directory list directories themselves, not their contents -l long listing -r reverse listing (list in reverse sorted order)	Ls -a ls -d ls -l ls -r
clear	clear the terminal screen	clear ctrl + L also clears the screen
mkdir	Create the DIRECTORY(ies), if they do not already exist.	mkdir July28 mkdir d1 d2 This command create two directories d1,d2
rmdir	remove empty directories. If the directory is not empty it will not remove.	rmdir d1 (No file should be in d1)
cd	Change directory to the specified directory	cd d2 cd .. Go to the parent directory


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ravindhren@ravindhren:~/LinuxClass/July28
File Edit View Search Terminal Help
[ravindhren@ravindhren July28]$ cat
F0r Linux installation
F0r Linux installation
1) Bootable CD -- CD drive
1) Bootable CD -- CD drive
2) Bootable pendrive
2) Bootable pendrive
3)rufus
3)rufus
you make a bootable pendrive
you make a bootable pendrive
TO learn LINUX you need NOT to install Linux
TO learn LINUX you need NOT to install Linux
You an use LIVE CD or LIVE USB
You an use LIVE CD or LIVE USB
Without experience if you install LINUX in your computer you will loose the data
Without experience if you install LINUX in your computer you will loose the data
It is not advisable to install Linux by your own without previsous experience
It is not advisable to install Linux by your own without previsous experience
[ravindhren@ravindhren July28]$
```