

Linux





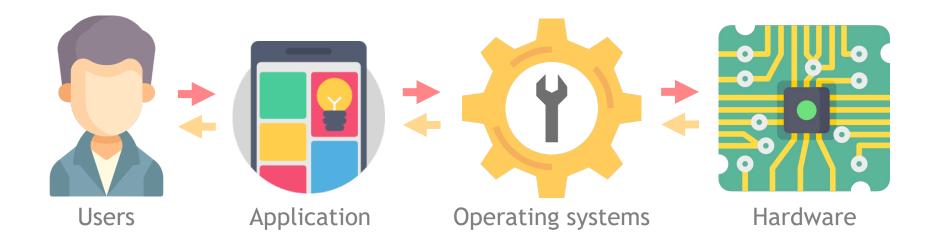
What is an Operating System?

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What is an Operating system?









What is Linux?



What is Linux?

Linux is a set of open source Operating systems. It as simple as that, just like windows and mac, linux based OS provide us an interface to use specific programs with help of the hardware.





Linux History

Linux was a UNIX based kernel developed by Linus Torvald in 1991. He was driven by the lack of open source UNIX based systems that people could use.













Open Source

Highly Flexible

Lightweight







Highly configurable

Fewer Malware

Awesome for Development

Benefits of using Linux







Linux & Unix

- What's the difference?

What's the difference?



What is UNIX?

Its an operating system developed by Ken Thompson, Dennis Ritchie in 1970. It is written in C. It influenced the development of other popular Operating systems such as: MAC, solaris, AIX.

It was a paid OS that At&T sold after it's development.

What is Linux?

It is a also an Operating system. It is a **UNIX** like operating system. It does not share any source code with UNIX, but it shares the design principles with UNIX.

It promotes the use of open source software.

What's the difference?



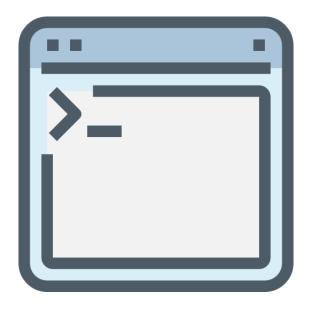
What is UNIX?

What is Linux?

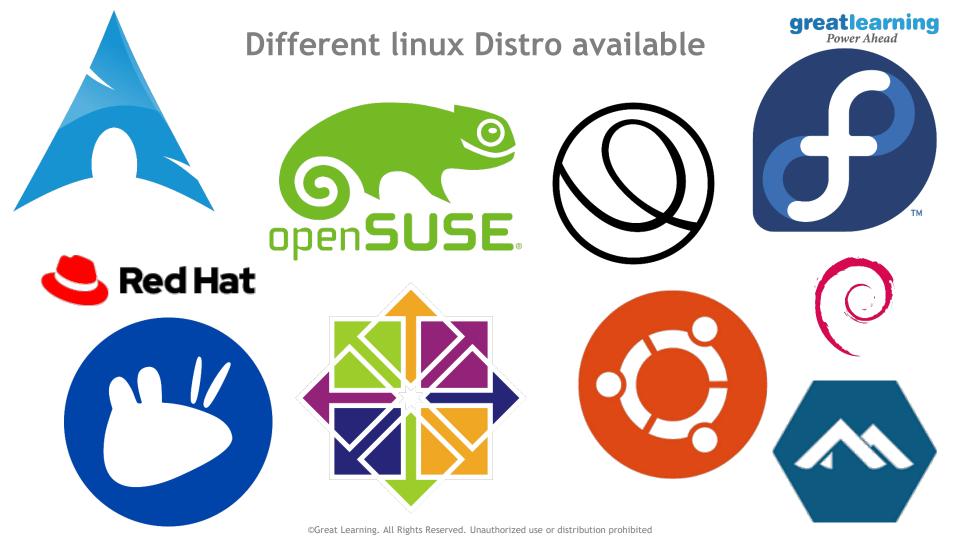
UNIX is a complete Operating system.

Linux is a kernel, when it is packaged with different distributions it becomes a complete operating system of that flavor.

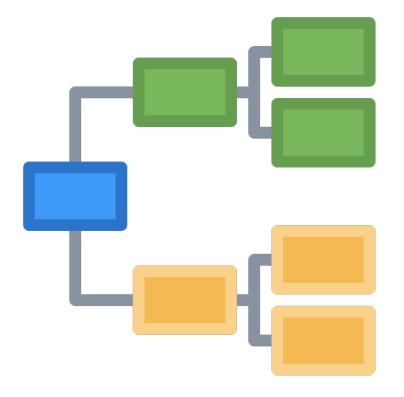




Different Linux Distros







Linux Architecture & Components

Linux Architecture



Applications

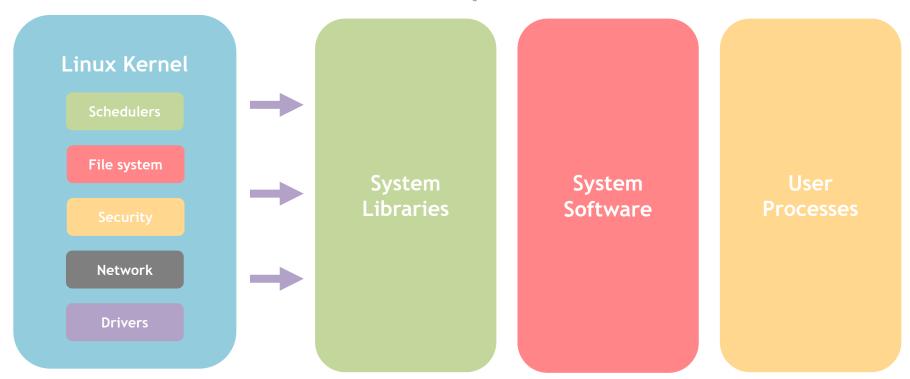
Shell

Linux Kernel

Hardware

Linux Components





Hardware





Linux Basic Concepts

Linux Basic Concepts









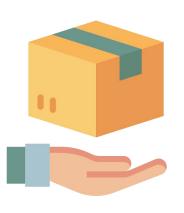
Kernel

Shell

File system

Linux Basic Concepts





Package Manager



Users



Processes





Linux FileSystem





Linux Installation & Setup

Linux Installation & setup - Requirements





At least 4 GB of Ram & 20 GB of free hard-drive space

Linux Installation & setup - Requirements

Or Just Lauch a VM on a Cloud (AWS, Azure, GCP) - Easy & Free



