

=> Linux OS?

Heart + Brain  
OS + Processor

What is an Operating System?

↳ s/w  $\Rightarrow$  mediator b/w users & machine (computer)

↳ User communicates with computer using OS

$\rightarrow$  Without OS we cannot run or use any computer

ex - Linux OS, Windows, Mac, Android - - - - -

Windows :- (Microsoft)

$\rightarrow$  GUI based OS (Graphical User Interface)

↳ user friendly

$\rightarrow$  single user based OS

$\rightarrow$  Paid (commercial OS)

$\rightarrow$  Less security features (Anti-virus usually required)

$\rightarrow$  Windows is more preferred for personal use.

$\Rightarrow$  Servers, application deployed  $\rightarrow$  business use Windows not recommended.

Linux OS :-

$\Rightarrow$  Linus Torvalds  $\Rightarrow$  unix OS  $\rightarrow$  challenges  $\rightarrow$  did not accept his suggestion.

$\Rightarrow$  minux OS  $\rightarrow$  similar to his ideas

Linux + Linux + minux

↳ Linux  $\rightarrow$  released in market

(CLI)

Free + open source

$\rightarrow$  multiuser OS

$\rightarrow$  provides High security  
(in Linux, everything is permission-based)

→ CLI based OS (Command Line Interface)

→ Highly recommended for App / projects operations.

To setup the infrastructure of s/w project Linux OS is used.

windows 1	Redhat linux	} <u>200 +</u> distributions   flavours
- 11 - 2	Amazon linux	
- 11 - 3	Ubuntu linux	
7	Fedora linux	
10	=====	
windows 11	=====	

Linux Torvalds made Linux free & open source.

⇒ Many big companies they modified Linux with their requirement & released in market with diff names.

⇒ Ubuntu, Redhat Linux, Amazon Linux - - - - -

⇒ Amazon linux, Ubuntu linux

AWS cloud → 1 year → 750 hours / per month.

↓  
Virtual machine  
(Linux)

File Based Operations

Text Editors

Text Filters

Users Management

File Permission

File Ownership

Archives

Networking

Sudoers file

sshd\_config

Package Managers

Static Website Hosting (httpd)

Linux Architecture

Shell Scripting

→ Create an Account on AWS (free tier)

→ Login to AWS Account

→ AWS EC2 service to create Linux virtual machine } 4

