Linux.

LINUX: name given to US built around the open source linux kernel.

linux distributions: Different Os that use linux kernel

Free, open-source = s source code can be viewed, edited! changed to suit our needs.

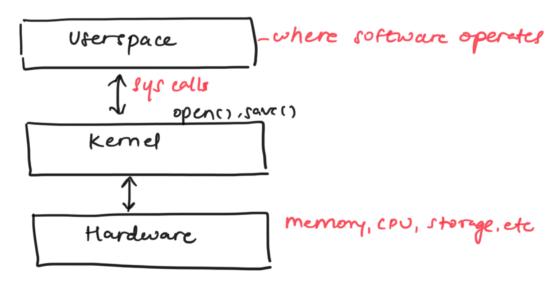
Linux - think of it as kernel of OS

Linux Kemel:

- lore of linux distributions
- Opensie, with many contributors
- Originally released by Linus Torvalde in 1991
- l'emissive licensing enables broad use

Kemel

- is a software that communicates with computer hardware so that they can do whatever they want
- can run on its own, but not very useful that way.
- -we cant run programs without a keenel taking requests and information and tounelating them to the system's hardware.



Linux kernel can run on a wide runge of hardware

Source code- kernel.org

A linux system -

- requires inux kernel
- additional softwere to control the system's boot process and manage running programs.

when a linux system starts, kernel's Loaded and software called initialization system's called that starts programs - networking, storage etc.

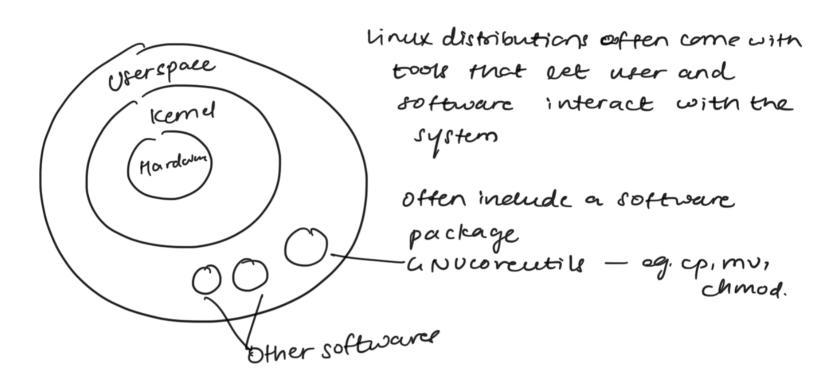
Interaction — 1) Des ktop environment

y Text bossed shell - console

Chash, zeh, csh, fish, ksh)

Shell 's a software u use to type commands and view returned text.

Secure shell (SSH) - enables remote connections to a text based console or terminal



Linux file System

- consists of files and directories
- filelystem therarchy standard (FHS) describes how the file system is organized
- The top level of file system is called root and is represented by a / (slash)
- -linux systems have only one file system—Root

 (windows-Coptedir etc)

Vier and system security:
-multiwer, each wer can have their files
-can't access files outside their space

-Superuser (100t) has all priviledges Su/sudos to use roots priviledges if the user is allowed

Permissions numeric

755

symbolic

User Curoup others

menual/man page man command name.

eg man 15. f, B → L Q-Quit

un ame - a kernel version cat lete/* release distribution info