when the state of the sail (Terminal Emulator) shell > {Command line Interface} interpret commands and tell 03 what to do. How does shell run command's ? python .. G Runs an executable associated with python Stored in path. (pwd) -> Print working a -> lists hidden files alm ls) - list Directories. LA-R-> all Subdirectories too mkdi) -> make directory. cat -> See what is in the (cd) -> go to Path: when a command is ran,

program checks for the executable of that command in all the paths

Three permissions - Read, write, execute for files

Three Group :- Super user, war, others

Change Permissions: climed

wast -> Download, from internet

tile:

Linux :-

Kernel: - Brain of the Linux os.

controls the hardware and makes the hardware interact with applications.

* Core part of OS

* Software, system process

to machine Code.

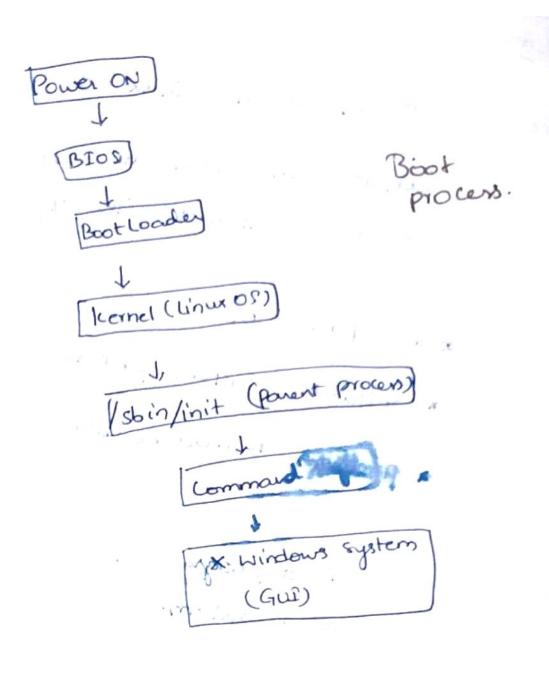
pothoder: Is a program that boots the operating System.

Service: - Program that runs are a background process

Shell: - Command Line INTERPRETER

Interprets the command line Input and instructs the os to do necessary operation

bosh, zsh, etc.



Partition: - A section of a disk

system: - A method of storing/finding files on a hand disk.

العرب الماميلات

4

/bin/ Essential user Command biranies 1 dev1 device files letc/ host specified system Configuration / home/ wer home directories 10pt/ Add-on application Software packages (Sbin) System binaries. Root directory

In Linux, all application programs we are running are processes.

A Process is simply an instance of one or more related tasks (threads) executing on your system.

Need to be started by the user, Interactive Processes: - either through command line or GUT.

Automatic process which are scheduled These are implemented in FIPO orde Batch Processes:

Dagmons: - Server processes that run continuosly.

Threads: - Lightweight processes, Rundunder main process.

Threads or by the keinel that wented Kernel Threads : man little to no control over.

Command on any boy

A critical kernel function called Scheduler comtanty shifts processes on and off the CPU.

* Running State

* Sleep State

*At any given time, there are multiple processes being executed. The Os keeps track of them using unique Process ID (PID) number.

* Terminating a process uning, kill command.

12% utilized on average Load Averages :for the last 15 mins (0.45, 0.17, 0.12)

For last minute;

45 / utilized on average

For last 5 minutes,

17/ utilized on average

Background and Foreground processes:

10b -> command launched from shell.

Foreground jobs -> Run directly from shell -> only

Background jobs: Push foreground to background to run on a low priority.

Gen push to background by suring Command on uning

pstree Command - Display processes in tree structure.

BASH Shell Scripting! -

Bridge Interface:
Acts as a network switch between the network interfaces on a host.