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| 1021 | Assignment -1 |
|----------|--|
| | The state of the product of the state of the |
| | Book Priser - 6 Stuyer |
| 2,414.24 | Power up / Reset |
| | System startup |
| | Blos - Basic i/p/o/p System excuse MBR |
| 1985 | MBR - Master Boot Record encurses GRUB |
| | GRUB - Grappe Unified Bookloader en encutes |
| See V | Kernel de la |
| ALL | Kernel - Kennel encule / sbin / in it |
| | Inle - Inle executes runlevel programs |
| | Runlevel - Reinlevel programs erre enculed from |
| 41,000 | /eli/rc.d/rc*.d/ |
| Laure | BIOS: Basic Input / Output System |
| | -> Perform some system integrity checks |
| | - Searches boardy & eneuly boot boarder |
| | Program |
| | - I The looks for boot loader in fleppy, |
| | cd-rom or hardware |
| | - BIOS bouls & enewly MBR buder |
| | Maal |
| rul Jun | MRR: |
| | 5xvB boot bouler. |
| | - Its bouled in 1st Sector of bookall |
| | dik |
| | -> MBR is by them 5/2 bykes in Stre |
| . Mrs. | and has 3 comp. |
| | Chains for enample of which saw |
| | TORUB: |
| L. | - GRUB stands for Grand Unified |
| 199 | Bookloader. |
| | |

- S BRUB duplays a splash screen, walk for few seconds, if we donk enter anything it louds the default kenned image as specified in the grade grade configuration file. Specified in the root file system on -s Kernel execute the /shin/ init program - inited Steeneds for Inited RAM Disk -> Looks up the /ele/initedads file to cleviele the Cinum run lovel - Following are the available run levels > 0 - halt > 1 - Single user mode > 2 - Mulium mode > 7 - Full muldlum mode > 4 - Unyar > 6 - Report > 6 - Rebook > 6 - Kebook

-) Inst identifies the default initelevel

from /ets/instelate and uses that to local all ceppropriate program & Runlevel Programs when the Linum system is booking up, you might see various services getting started for enample, it might say "starting Sendmall ... OK" -> Depending on your default in it level selling. . the system will encute the program

Functions of Operating System 1) Security
- The operating system uses presimond protection to protect uses detu and and similer officer tellingus. It also prevents unauthorized access to programs and user data. 2) Control over system preferences -> Monikou overall system houth health - This can help improve performance by proulding important information needed to trouble shoot problems 3) Job centring -s Operating System keeps truck of time and rejource used by various basks & users this information can be used to prach resource maye for a particular user or group of users. 4) From detecting and - The operating system constantly monder they system to delect too on every and avoid malfunctioning of a computer system

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5) lo-ordination b/w offer s/w & users -) Operating System celso coordinate and cessey interpreters, compilers, assemblers and Ofter 1/w to the various uses of the computer system. 6 Memory Management -s The operating System musages the Primary Memory or Main Memory. Main Jerman memon. 7) Procesor Management -> In a multi programming environment, the os clevides the order in which processes have aller to the processor. -s keeps track of the primary Memon States of process 8 Device Management - An Os manuy devia communication Via Hier respective drivers. - Keep brush of devery connected to 9) File Management I A file system is organized into directoris for efficient or easy nouty dion and usuge.

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3) With a neat diagram. Explain the difference blue Monolithis & Mon Murskemed Typu: Monlolethic Murokernel Vsw of Application Application Sylem VFs, System lall Application UNIX Device | File IPC, File System Kern Server Driver Server Scheduler, Virtual Memory Deviu Drwer, Basic IEC, Virtual Memory, Scheckyling Dis pakeher Hardware Hardware > Smaller in Sire > Larger in Size > Slow execution > Fast execution) easily entendible > Hard to extend > In minokerna user) In monolithic kernel, services and kernel, both wer services & serving are kept in Kernel services one seperale aldres speen Rept in separate same addres spau) More cale is required > Les pode is requires > QNX Symbian, L4 Linux) Exi- 10 Linux, Solaris, Singularity. HURD . . BSPs., Open VM .

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| | | EDG3 |
|---------------------------------------|---|--|
| | Difference b/w UEF | |
| | Legany Book | UEFI |
| | 2 Legay Boot is the | > VEFI shands for |
| · · · · · · · · · · · · · · · · · · · | Blos firmware | Unéfieu Extensible Fismware Interfau |
| | المستان | |
| | > Slower bootlinge Computar to Legacy Boot | 2 taster Boot sime |
| | > M Less User Friendly | > Morter User friendy |
| 1 | > Uses the MBR partition | > Uses the GTP |
| 1 | | partitioning scheme. > Ver URFI fir mware |
| | Juses Blos firmware for Boot process | for boot proces. |
| | | |
| | | |
| | | |
| • | | |
| | | |
| | | |
| 5 4 | | |
| | | |

3) Piran on the operating Window & Mar Os. System Linux, Linux Windows

> Oper Source > Clased Source Mar Os > Closed Sorva > Does not have > Regulary is a a specific master database regulary of its which it stores all Selvings in a serie, of plat files. own the settings > Provides desminal > Terminas is > Provides Console > Fary to switch > Not interchangule > has a facility to interface till bridge virtual windows 8 notwork interfaces. Commandy on Windows OJ to Chark

dish partitions Step1: Open Command prompt Step2: Use diskpart Command. Active: Mark the seletted partition as active.

Add: Add a minor to a simple volume.

Albributes: Manipulates disk! Volume attributes Break : Break a mirror set Clear information of the clink Delete: Pelete an object
Detail : Debail of an object Extend: Extend a Volume Import. ;. Import. clish group....

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List the command to chak service in Ly services ms (
L Press enter. List the steps to check disk partitions in Step 1: Open File Employer

Step 2: Right click on "This pe"

Step 7: Choose 'Manage" from the pop-up

menu Step 4: Navyale to storage - Disk management in navyadion pand List the steps to start or stop Services in windows Step1: Mik Window Key + R to open the run window. Step 2: Type in sor services muc in the Step 3: Servicy dialog bon / window will open Step 4: Select the service to seart stop step 5: Choose the relevant option to operat

find: Search for files in a directory hierarchy,
find -H: Lists all the file # cut: Removes section from each time of file

-b bytes cut -d -b 1 2 3 +1. Int

-d # grep: To securch for pattern in each file
grep Add \$1.4mt # seed: Stream editor for fillering and transforming text

\$ seed 's/unin/linun/fillerame'

replace with this this # sort: Write Sorted Concutenation of all files
to standard output

Sort - n filename # here to supply the first part of files
here file name but # tall: output the last part of files
tall file.lnt #folish: manipulatu disk partition table

\$ such folish #journald: used to query the contents of the

Systemate as Written by systema-journald-service

\$ journal at

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wontab: is prog used to install, univitall
or list the tables used to drive
the won deemon in view won. #dmay: print or control the kenned ring buffer. Its also called driverney". domesy grap "sant to sourch" # Zeil: Outpars lust 10 lines of the file