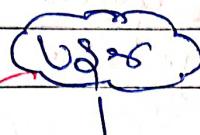


## Session - 08

\* Agenda → Package managers

\*



OS

As a user in any OS we can use only in OS file, folders

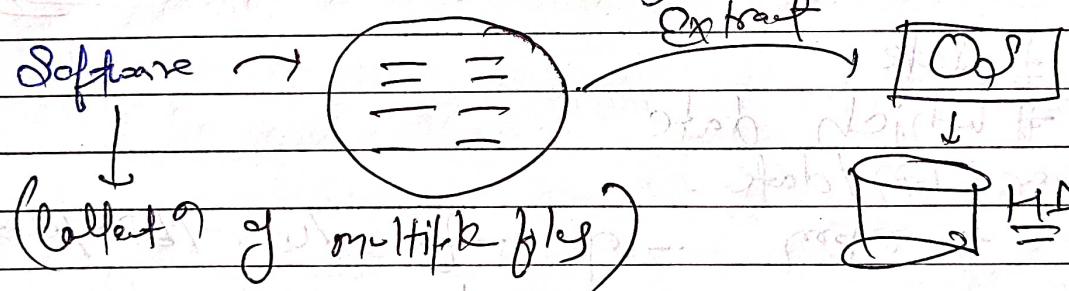
→ file → text, mp4, video

→ folders (directory) → folders

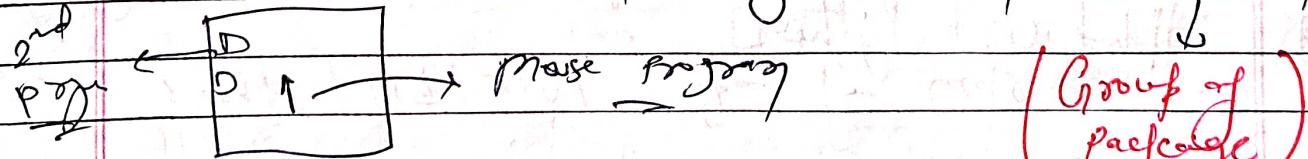
\* In our OS we have 1000 files & folders who create this files /folders.

\* Most files come from 99% files/folders comes from Software.

\* Software → package of multiple file/folders



\* OS → Multiple Software when we install / Extract in any OS that is OS



\* 99% → files /folders by some Software

\* 1% → hel package

\* Every OS has different way to manage the package / software, in different way in OS.

\* In Linux we have one package manager that manages → rpm (redhat package manager)



80-1809880

Date \_\_\_\_\_  
Page \_\_\_\_\_# rpm -q ~~name~~ - shows

L (Recs)

Asking rpm, software installed or not

# rpm -q firefox

# rpm -q -a (Show all the installed software in OS)

\* Find specific software → # rpm -q -a | grep

# date  
→ program file  
→ Located somewhere

# date

# which date

/usr/bin/date

# rpm -q -f /usr/bin/date

(asking rpm giving you file name please query)

# which python3

# rpm -q -f /usr/bin/python3

\* All file come from Software, those Software managed by RPM.

\* Whatever you do in just by running the program

\* # which firefox  
 # rpm -q -f /usr/bin/firefox

→ We have firefox installed in our system →

(installed == Copy) → in OS of file/folder:

\* Uninstall software → remove → delete from HD

# rpm -e firefox

Uninstall → (erase)

# firefox, # which firefox  
 (not there)

# history (show all previous command)

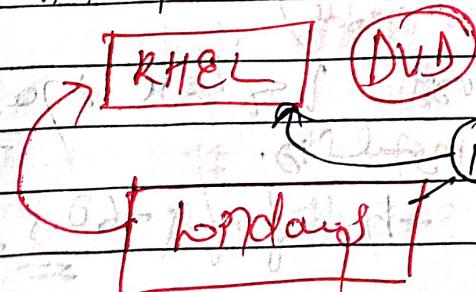
\* for install the Software we need Software, then  
 they install copy, extract.  
 (Software == Setup == RPM)

\* Open Jarfile → Software have Code but some  
 Company do some modifications  
 create License.

\* we use DVD/iso, redhat ~ 85 (6k files)  
 (85 files)

\* for install any Software first take that Software  
 & copy that Software in OS,

\* Attach iso file → Redhat (now we get all  
 files/get software)



→ Attach iso file  
 means collect DVD.

\* Tab key → help you to complete the file  
(for better file name)  
 auto complete file name.

\* If we want to install any software we need some .dvd / iso should be attached bcz they only contains all the software packages.

\* When we attach .dvd → go to file/folders → RHES directory that here all the software in RHEL-8 most of the software comes from BaseOS & AppStream folders.

\* Open that folder & left click open directory to search for it, then see terminal with find that location.

# rpm -q firefox (Tab key)  
 (auto complete name)

# rpm -q firefox-60.5.2-0.8.1

→ (model) ↓ (extension)

→ behind the scheme they model, extension will be seen.

→ want to see how they are model,

# rpm -q -V firefox-60.5.2  
 (verbose mode)

→ some program self print verbose mode.  
 want to see % of models.

# rpm -q -V -h firefox-60.5.2

\* # option -i -v -h

-i -v -h

firefox

↓  
Command arguments (arguments)

→ Options (option/field)/  
Switches (switches)

\* ls -l we can also use this to verify the  
cmd is available or not.

# ls -l vimal.txt

→ Some more options we have →

# ls -l vimal.txt

# ls -l (list of all files → long list).

\* option →

-e  
-i

ls →

-l  
-i

→ Don't memorize just see the manual.

\* # option (manual of option)

# option -q -i firefox (name, version, )  
not all optn

\* Not all the cmd, source code is not available,  
if we see date cmd the code is in  
Compiled form they save the space of os.

\* The code of date is in binary form.

# date

# which date

# option -q -f user/binary/date

# option -q coreutils

# xpm -q -i coreutils

↳ (Type name of Software such as  
See file source code of def twore)

# xpm -q -l firefox

→ & now all file files are created.

# xpm /usr/share/icons .png

(cmd to open the file)

\* whenever we install firefox these files

one installed / copied to our os.

\* we have firefox logo we can change  
the logo of firefox.

\* when we double click the mouse behind  
the scene files are very same (cmd)  
(program → b)

To firefox # xpm -q l firefox

/usr/share/applications/firefox.desktop

gedit

# xpm .desktop

→ multiple files files are already one  
cmd firefox.

\* This is the way how go I open  
intentionally (program) behind the scene user.