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Author : Subham Pal (Siriuslight) BASIC FILE/FOLDER COMMANDS cd : Change directory 1. Syntax : cd <directoryurl> ls : list files and directories 2. Syntax : ls <options> Options : -a : include hidden files(starting with dot). -l : detailed long list -i : print inode of each file -h : size in human readable -r : reverse sorting order -t : sort by modification time(newest first) -S : sort by file size(largest first) mv : move a directory/file(can also used to rename) Syntax : mv <initial location> <final location> 4. rm : remove a file Syntax : rm <options> <filename> Options : -r : recursive remove -f : forceful -i : prompt before removal -v : verbose(show every action performed) 5. mkdir : create a new directory Syntax: mkdir <options> <directoryname> Options : -m : with permission 6. rmdir : remove a directory Syntax : rmdir <directoryname> 7. touch : create a new file and modify acceiss and modification time Syntax : touch <options> <filename> Options : -a : change access time -m : change modification stat : gives file/folder details 8. Syntax : stat <file/folder name> 9. alias : list all alias 10. cat : concat/view data in a file cat filename (view file contents) 11. chmod : change file permissions Syntax : chmod <octal1> <octal2> <octal3> <filename> chmod <permission> filename USER/GROUP PERMISSIONS MANAGEMENT 12. useradd : create a new user Syntax : useradd <options> <username> Options : -b : set DEFAULT base directory -d : set base directory -g : set primary group -G : set secondary groups -s : set default shell -u : set userID -p : set password -e : set expiry date for user[YYYY-MM-DD] 13. usermod : modify user Syntax : usermod <options> <username> Options : -d : change base directory -g : change primary group

-G : change list supplmentary groups(separated by comma wi

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thout spaces)

-s : change default shell

-u : change userID

-e : change expiry date for user[YYYY-MM-DD]

14. groupadd : create a new group

Syntax : groupadd <options> <group name>

Options : -g : set groupID -p : set password

groupmod : modify group 15.

Syntax : group <options> <groupname> Options : -g : modify groupID -p : modify password

16. groups : prints all the groups the user belongs to

Syntax : groups <username>

17. id : show user details Syntax : id <username>

18. ps : shows snapshot of processes

Syntax : ps <options>

Options : -e : list all processes

-p : snapshot of specific process by its PID. -u: snapshot of processes created by a userID.

-1 : long detailed format

19. kill: send a signal to a process Syntax : kill <options> <PID>

20. nice : start a process with custom nice value

Syntax : nice -n <nice value> <process>

21. renice: modify the nice value of a running process

Syntax : renice -n <nice value> <option> <value>

Options : -g : value as groupID -u : value as userID

-p : value as processID(default if no option is given)

22. pstree : show process tree Syntax : pstree <option>

Options : -p : show PID as well

23. crontab : create, view and modify crontab files used for scheduling recurrin

q tasks

Syntax : crontab <option>

Options : -1 : view crontab file -e : edit crontab file -r : remove crontab file

-u : mention user name of crontab file owner

Syntax of each crontab entry.

<min> <hour> <day> <month> <year> command

Each out of five can be replaced by <*> for every.

setfacl : set file access control list 24.

Syntax : setfacl <option>

Options : -R : recursively apply to sub files and folder

-x : remove the facl of given entity

25. getfacl : prints all facl entries of the file.

Syntax : getfacl <filename>

26. Turn on/off firewall

Command : sudo systemctl stop/start/status firewalld

27. ifup: bring a network interface up.

28. ifdown: bring a network interface down. sheet.txt Page 3

- 31. df: shows file system disk space usage by a file Syntax: df <filename>
 If no filename is given disk usage of all mounted filesystem.
- 32. fuser: list the processes using a particular file.

 Syntax: fuser <option> <filename/foldername>

 Options: -k: kill all processes using the file.
- 33. telinit: change the run level(0-5) of system

TODO: gpasswd, umask, suid, guid, sticky-bit, groups, wget