OPERATING SYSTEM 1

Lecture 3

Eng. Joud Khattab

LINUX COMMANDS

Advance

- 1. man : **man**ual
 - The man command is short for manual and provides n depth information about the requested command or allows users to search for commands related to a particular keyword.
 - **Syntax:** man [-] [-k keywords] topic
 - Displays the manual without stopping.
 - -k keywords Searches for keywords in all of the manuals available.
 - **Topic** Displays the manual for the topic or command typed in.
 - Examples:
 - man mkdir
 - man ls
 - Note: press 'q' to exist from man page.

- 2. more
 - Displays text one screen at a time.
 - **Syntax:** more [option] [file]
 - Examples:
 - more myfile.txt

- 3. touch
 - Change file access and modification time, it will create empty file if it's not exist.
 - Syntax: touch [option] [file]
 - Examples:
 - touch myfile.txt

- 4. Vİ
 - vi is a screen-oriented (visual) display editor.
 - **Syntax:** vi [filename]
 - Those option inside the vi screen
 - i start editing mode
 - Esc start command mode
 - q quit
 - w write
 - wq write and quit
 - q! discard and quit
 - Examples:
 - vi myfile.txt

- 5. date
 - Print the current time and date.
 - Syntax: date
 - Examples:
 - date
 - date > time.txt
 - more time.txt
 - date >> time.txt

- 6. cut
 - Cut out selected fields of each line of a file.
 - **Syntax:** cut [-f list][-d 'delimiter'] [file]
 - -f2 copy the second field only
 - -f1,7 copies the first and seventh field only
 - -f3-6 copies fields from 3 to six
 - -d 'delimiter' separated by a delimiter character
 - Examples:
 - cut -f2 -d',' myfile.txt

- 7. pipe
 - Called a pipeline, it allows you to pump the output of one program directly into another.
 - Syntax:
 - Examples:
 - date
 - date | cut -f2 -d' \
 - date | cut –f4 –d' \
 - date | cut -f4 -d' \ | cut -f1 -d':'

Mon Oct 22 09:12:34 EET 2012

Oct

09:12:34

09

- 8. find
 - Finds one or more files assuming that you know their approximate filenames.
 - **Syntax:** find [PATH] –name 'filename' –type[f/d]
 - **PATH** Where to search
 - -type f Search for a file
 - -type d Search for a directory
 - Examples:
 - find /home –name `*.txt' –type f

- 9. grep
 - Finds text within a file.
 - **Syntax:** grep [options] [FILE]
 - -c Print a count of matching lines for each input file
 - -n Prefix each line of output with the line number within its input file
 - Examples:
 - grep 'ypu' myfile.txt
 - grep 'ypu' myfile.txt

10. wc: word count

• wc displays a count of lines, words, and characters in a file.

• **Syntax:** wc [-c][-w][-l] [FILE]

• -c Count characters

• -w Count words

• -l Count lines

- Examples:
 - wc -l /home/ypu/myfile.txt

- 11. poweroff
 - Sends a signal which instructs the system to power down.
 - Syntax: poweroff
 - Examples:
 - poweroff

12. exit

- Issuing the exit command at the shell prompt will cause the shell to exit.
- Syntax: exit
- Examples:
 - exit

- 13. whoami
 - It is used to find out the current user of the terminal.
 - Syntax: whoami
 - Examples:
 - whoami

14. Sudo

• It allows a permitted user to execute a command as the super user or another user.

15. SU

- It is used to run shell with substitute user and group IDs.
- It helps to change login session's owner without the owner having to first logout of that session.
- Syntax: su user
- Example:
 - su user1

16. expr

- Evaluates an expression and outputs the corresponding value.
- Example:
 - expr 3 + 2 1
 - expr\(3+4-1\)
 - expr\(3+4-1\)*7
 - expr\(3+4-1\)*7
 - expr\(3+4-1\)/4

Exercise

- 1. Go to the home directory.
- 2. Fetch all files and folders.
- 3. Cut owners for these files.
- 4. Save them in new file 'out.txt'.
- 5. Print how many files and folders found in 'out.txt' (the count).
- 6. Search for how many files and folders "Lab2" user own (is owner to).