**1.1 Basic Linux commands**

* **man command\_name : Gets online help for command name.**

1.

130905628@oslab-23:~$ man wc

2.

WC(1) User Commands WC(1)

NAME

wc - print newline, word, and byte counts for each file

SYNOPSIS

wc [OPTION]... [FILE]...

wc [OPTION]... --files0-from=F

DESCRIPTION

Print newline, word, and byte counts for each FILE, and a total line if

more than one FILE is specified. With no FILE, or when FILE is -, read

standard input. A word is a non-zero-length sequence of characters

delimited by white space. The options below may be used to select

which counts are printed, always in the following order: newline, word,

character, byte, maximum line length.

-c, --bytes

print the byte counts

-m, --chars

print the character counts

Manual page wc(1) line 1 (press h for help or q to quit)

3.

130905628@oslab-23:~$ man wc

[1]+ Stopped man wc

* **passwd : Sets (changes) the password.**

130905628@oslab-23:~$ passwd 130905628

Changing password for 130905628.

(current) UNIX password:

Enter new UNIX password:

Retype new UNIX password:

passwd: password updated successfully

* **pwd : Displays the current working directory.**

130905628@oslab-23:~$ pwd

/home/130905628

* **ls : Lists the contents of a directory.**

130905628@oslab-23:~$ ls

Desktop Downloads Music Public Videos

Documents examples.desktop Pictures Templates

130905628@oslab-23:~$ ls -x

Desktop Documents Downloads examples.desktop Music Pictures Public

Templates Videos

130905628@oslab-23:~$ ls -aFx

./ ../ .bash\_logout .bashrc .cache/

.config/ Desktop/ .dmrc Documents/ Downloads/

examples.desktop .gconf/ .gnome2/ .gnome2\_private/ .ICEauthority

.local/ .mozilla/ Music/ Pictures/ .profile

Public/ Templates/ Videos/ .Xauthority .xsession-errors

* **more file\_name : Scrolls through a file. To list the next page, press the space bar. go backwards, press b. To quit from more, press q.**

130905628@oslab-23:~$ more file.txt

how times using style STYLE: full-iso, long-iso, iso,

locale, +FORMAT. FORMAT is interpreted like 'date'; if FORMAT

is FORMAT1<newline>FORMAT2, FORMAT1 applies to non-recent files

and FORMAT2 to recent files; if STYLE is prefixed with 'posix-',

STYLE takes effect only outside the POSIX locale

--More--(100%)

* **mv old\_file\_ name new\_file\_name: Renames a file.**

130905628@oslab-23:~$ mv file.txt newfile.txt

130905628@oslab-23:~$ ls

Desktop Downloads Music Pictures Templates

Documents examples.desktop newfile.txt Public Videos

* **mv file\_name directory\_name: Moves a file to a directory.**

130905628@oslab-23:~$ mv newfile.txt Documents

130905628@oslab-23:~$ ls

Desktop Downloads Music Public Videos

Documents examples.desktop Pictures Templates

* **mv old\_directory name new\_directory\_ name: Renames a directory.**

130905628@oslab-23:~$ mv Documents My\_Documents

130905628@oslab-23:~$ ls

Desktop examples.desktop My\_Documents Public Videos

Downloads Music Pictures Templates

* **rm file name : Deletes(removes) a file.**

130905628@oslab-23:~$ rm newfile.txt

130905628@oslab-23:~$ ls

Desktop examples.desktop My\_Documents Public Videos

Downloads Music Pictures Templates

* **mkdir directory name: Creates a directory.**

130905628@oslab-23:~$ mkdir Documents

130905628@oslab-23:~$ ls

Desktop Downloads Music Pictures Templates

Documents examples.desktop My\_Documents Public Videos

* **rmdir directory name: Removes a directory.**

130905628@oslab-23:~$ rmdir Documents

130905628@oslab-23:~$ ls

Desktop examples.desktop My\_Documents Pictures Templates

Downloads Music newfile.txt Public Videos

* **cd directory name: Changes the current working directory to directory name. If directory name is omitted, the shell is moved to your home directory.**

130905628@oslab-23:~/My\_Documents$ cd /home/130905628

130905628@oslab-23:~$

* **cp file name new file name: Copies a file.**
* **cp file name directory name: Copies a file into directory name**

130905628@oslab-23:~/My\_Documents$ cp newfile.txt /home/130905628

* **chmod who op-code permission file or directory name: Changes the file access permissions. who: u user, g group, o other users, a all; op-code: + add permission, − remove permission; permission: r read, w write, x execute.**

130905628@oslab-23:~$ chmod 644 newfile.txt ; ls -l newfile.txt

-rw-r--r-- 1 130905628 130905628 299 Jan 12 09:44 newfile.txt

130905628@oslab-23:~$ chmod 666 newfile.txt ; ls -l newfile.txt

-rw-rw-rw- 1 130905628 130905628 299 Jan 12 09:44 newfile.txt

130905628@oslab-23:~$ chmod go-r newfile.txt ; ls -l newfile.txt

-rw--w--w- 1 130905628 130905628 299 Jan 12 09:44 newfile.txt

130905628@oslab-23:~$ chmod a-x newfile.txt ; ls -l newfile.txt

-rw--w--w- 1 130905628 130905628 299 Jan 12 09:44 newfile.txt

130905628@oslab-23:~$ chmod o+wx newfile.txt ; ls -l newfile.txt

-rw--w--wx 1 130905628 130905628 299 Jan 12 09:44 newfile.txt

* **ps: Process status report.**

130905628@oslab-23:~$ ps

ps

PID TTY TIME CMD

4975 pts/1 00:00:00 bash

4990 pts/1 00:00:00 man

5000 pts/1 00:00:00 pager

5094 pts/1 00:00:00 man

5104 pts/1 00:00:00 pager

5110 pts/1 00:00:00 man

5120 pts/1 00:00:00 pager

5827 pts/1 00:00:00 ssh

5950 pts/1 00:00:00 man

5960 pts/1 00:00:00 pager

5966 pts/1 00:00:00 ps

* **kill PID: Terminates the process with a process ID PID.**

130905628@oslab-23:~$ ps

PID TTY TIME CMD

6025 pts/9 00:00:00 bash

6041 pts/9 00:00:00 ps

130905628@oslab-23:~$ kill 6025

* **Ctrl-c : Terminates a command before it is finished.**

130905628@oslab-23:~$ more newfile.txt^C

130905628@oslab-23:~$

* **cmp file1 file2: Compares file1 and file2 byte by byte.**

130905628@oslab-23:~$ cmp newfile.txt My\_Documents/newfile.txt

newfile.txt My\_Documents/newfile.txt differ: byte 299, line 6

* **grep keyword file(s): Search the file(s) and outputs the lines containing the keyword.**

130905628@oslab-23:~$ grep "how times using style STYLE: full-iso," newfile.txt

how times using style STYLE: full-iso, long-iso, iso,

130905628@oslab-23:~$ grep "how times using style STYLE: ful-iso," newfile.txt

300, length 64

11:26:22.571363 IP 172.16.59.10 > 172.16.59.109: ICMP echo reply, id 2446, seq 300, length 64

11:26:23.571070 IP 172.16.59.109 > 172.16.59.10: ICMP echo request, id 2446, seq 301, length 64

11:26:23.571357 IP 172.16.59.10 > 172.16.59.109: ICMP echo reply, id 2446, seq 301, length 64

11:26:24.571073 IP 172.16.59.109 > 172.16.59.10: ICMP echo request, id 2446, seq 302, length 64

11:26:24.571370 IP 172.16.59.10 > 172.16.59.109: ICMP echo reply, id 2446, seq 302, length 64

11:26:25.571067 IP 172.16.59.109 > 172.16.59.10: ICMP echo request, id 2446, seq 303, length 64

11:26:25.571373 IP 172.16.59.10 > 172.16.59.109: ICMP echo reply, id 2446, seq 303, length 64

11:26:25.574229 ARP, Request who-has 172.16.59.109 tell 172.16.59.10, length 46

11:26:25.574238 ARP, Reply 172.16.59.109 is-at 6c:f0:49:90:4d:fe (oui Unknown), length 28

^C

523 packets captured

523 packets received by filter

0 packets dropped by kernel

130905628@oslab-23:~$