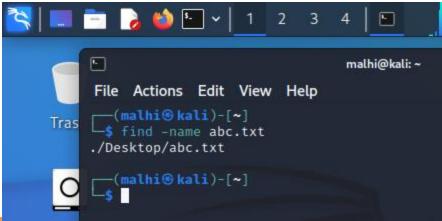


Searching the File System

- Use command- **find**
 - It search for files in a directory hierarchy under Linux and all other UNIX like operating systems.
 - Examples:
 - find . name thisfile.txt. ...
 - find /home -name *.jpg. Look for all





Searching the File System contd..

Use command- grep

• Grep is an acronym that stands for Global Regular Expression Print.

The grep command searches through the file, looking for matches to the pattern specified.

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Grep is case-sensitive.

Example:

grep myname biodata

• Here biodata is file and myname is specific pattern for searching in biodata file

(malhi@kali)-[~/Desktop]



Use of grep

Execute the following command to use grep to search for every line that contains the word GNU:

```
$ grep "GNU" GPL-3
                                                                                Copy
                                                                                        Run
```

The first argument, GNU, is the pattern you're searching for, while the second argument, GPL-3, is the input file you wish to search.

The resulting output will be every line containing the pattern text:

```
Output
                     GNU GENERAL PUBLIC LICENSE
   The GNU General Public License is a free, copyleft license for
 the GNU General Public License is intended to guarantee your freedom to
 GNU General Public License for most of our software; it applies also to
   Developers that use the GNU GPL protect your rights with two steps:
   "This License" refers to version 3 of the GNU General Public License.
   13. Use with the GNU Affero General Public License.
 under version 3 of the GNU Affero General Public License into a single
                                               (malhi⊛kali)-[~/Desktop]
On some systems, the pattern yo
```

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Administration

Administration Administration

www.lpu.in

Administration Lovely Professional University



Use of grep contd..

Search for each instance of the word license (with upper, lower, or mixed cases) in the same file as before with the following command:

\$ grep -i "license" GPL-3 Copy Run

The results contain: LICENSE, license, and License:

```
Output

GNU GENERAL PUBLIC LICENSE

of this license document, but changing it is not allowed.

The GNU General Public License is a free, copyleft license for

The licenses for most software and other practical works are designed the GNU General Public License is intended to guarantee your freedom to GNU General Public License for most of our software; it applies also to price. Our General Public Licenses are designed to make sure that you (1) assert copyright on the software, and (2) offer you this License

"This License" refers to version 3 of the GNU General Public License.

"The Program" refers to any copyrightable work licensed under this control of the control of the
```

(malhi@ kali)-[~/Desktop]
\$ grep -i "Engineering" ab
Computer Scinece and Engineering"

Computer Scinece and

Computer Scinece and Engineerin

Computer Scinece and Engineering computer scinece and engineering

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Kill command

- The **killall** is a Linux only command. It kills processes by names.
- Examples:
 - killall {Process-Name-Here}
 - killall -9 {Process-Name-Here}
 - killall-15 {Process-Name-Here}
- kill the process using a PID (Process ID)
 - # kill 3486

PID can be searched using pgrep command



Path Variable

- It displays or set a search path for executable files at the command line.
- Syntax PATH *pathname* [;*pathname*] [;*pathname*] [;*pathname*]... PATH PATH; Key pathname: drive letter and/or folder; the command 'PATH; will clear the path PATH without parameters will display the current path.
- The %PATH% environment variable contains a list of folders.
- The PATH variable is **an environment variable containing an ordered list of paths** that Linux will search for executables when running a command.
 - For example, if we want to print *Hello*, *world!* in Bash, the command *echo* can be used rather than */bin/echo*, so long as */bin* is in *PATH*:



Adding/Deleting a Path

• Using the export command, new path can be added.



- Activity
- Add to the path in Windows



Other Shell Commands:

- 1s
- cat
- man
- cd
- touch
- cp
- mv

- rmdir
- mkdir
- rm
- chmod
- pwd
- ps
- kill

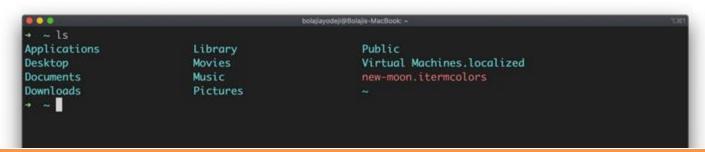


ls command

- The ls command is used to list files or directories in Linux and other Unix-based operating systems.
- Use of ls command as below:

List files in the current working directory

Type the 1s command to list the contents of the current working directory:



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abc.txt

-(malhi⊛kali)-[~/Desktop]



cat command

- Outputs the contents of a text file.
- You can use it to read brief files or to concatenate files together.
- To append file1 onto the end of file2, enter:
 - cat file1 >> file2
- To view the contents of a file named myfile, enter:
 - cat myfile





man command

- The man command is a built-in manual for using Linux commands.
- Displays the user manual of any command that we can run on the terminal. It provides a detailed view of the command which includes NAME, SYNOPSIS, DESCRIPTION, OPTIONS, EXIT STATUS, RETURN VALUES, ERRORS, FILES, VERSIONS, EXAMPLES, AUTHORS.
- Basic Symbol

```
man [option] [section number] [command name]
```

- **option** the search result output.
- **section number** the section in which to look for the man page.
- **command name** the name of the command which man page you want to see.



cd command

- It changes your current directory location.
- By default, your Unix login session begins in your home directory.
- To switch to a subdirectory (of the current directory) named myfiles, enter:
- cd myfiles
- To switch to a directory named /home/dvader/empire_docs, enter:
- cd /home/dvader/empire_docs



Touch

The **touch** command's primary function is to modify a timestamp.

Option	Description
-a	Changes the access time.
-c no-create	Avoids creating a new file.
-d= <string>date=<string></string></string>	Changes a timestamp using a date string.
-f	No effect. In older BSD's the option forces changes.
-h no-dereference	Changes a symbolic link's timestamp.
-m	Changes the modification time.
-r= <file></file>	Changes a timestamp to the referenced file's
reference= <file></file>	timestamp.
-t <stamp></stamp>	Modifies a timestamp, where the stamp is the date/time format.
help	Opens the help menu.
-v version	Prints the program version.



cp

- This command copies a file, preserving the original and creating an identical copy.
 - cp -i oldfile newfile

mv

my stands for move.

my is used to move one or more files or directories from one place to another in a file system like UNIX.

Use it as:

mv [Option] source destination

chmod

• This command changes the permission information associated with a file.



Mkdir

- The mkdir command is used to create (or make) a directory.
- Example:
- # mkdir LPUCSE

rmdir

- The rmdir directory is used to remove directories, but only those that are empty (i.e., contain no files or subdirectories). In order to delete a directory with actual contents, you must use the **rm** -**R** command.
- Example
- To remove an empty directory:
- # rmdir /mike



Rm

Use the rm command to remove files you no longer need.

Example

Removing one file at a time

\$ rm CSEA.txt

Pwd

Simply type pwd into your terminal, and the command will output the absolute path of your print working directory.

The pwd command writes to standard output the full path name of your current directory (from the root directory). All directories are separated by a / (slash). The root directory is represented by the first /, and the last directory named is your current directory.

The ps command, short for Process Status, is a command line utility that is used to display or view information related to the processes running in a wyw. Linux system.



ps

The ps command, short for **Process Status**, is a command line utility that is used to display or view information related to the processes running in a Linux system.

kill

kill command in Linux (located in /bin/kill), is a built-in command which is used to **terminate processes manually**.