Linux Command Reference

File Commands

1. **ls** Directory listing

2. **ls -al** Formatted listing with hidden files

3. **ls -lt** Sorting the Formatted listing by time modification

4. **cd dir** Change directory to dir

5. **cd** Change to home directory

6. **pwd** Show current working directory

7. **mkdir dir** Creating a directory dir

8. **cat >file** Places the standard input into the file

9. **more file** Output the contents of the file

10. **head file** Output the first 10 lines of the file

11. **tail file** Output the last 10 lines of the file

12. **tail -f file** Output the contents of file as it grows,starting with the last 10 lines

13. **touch file** Create or update file

14. **rm file** Deleting the file

15. **rm -r dir** Deleting the directory

16. **rm -f file** Force to remove the file

17. **rm -rf dir** Force to remove the directory dir

18. **cp file1 file2** Copy the contents of file1 to file2

19. **cp -r dir1 dir2** Copy dir1 to dir2;create dir2 if not present

20. **mv file1 file2** Rename or move file1 to file2,if file2 is an existing directory

21. **ln -s file link** Create symbolic link link to file

Process management

1. **ps** To display the currently working processes

2. **top** Display all running process

3. **kill pid** Kill the process with given pid

4. **killall proc** Kill all the process named proc

5. **pkill pattern** Will kill all processes matching the pattern

6. **bg** List stopped or background jobs,resume a stopped job in the background

7. **fg** Brings the most recent job to foreground

8. **fg n** Brings job n to the foreground

File permission

1. **chmod octal file** Change the permission of file to octal,which can be found separately for user,group,world by adding,
   ● 4-read(r)
   ● 2-write(w)
   ● 1-execute(x)

Searching

1. **grep pattern file** Search for pattern in file
2. **grep -r pattern dir** Search recursively for pattern in dir
3. **command | grep pattern** Search pattern in the output of a command
4. **locate file** Find all instances of file
5. **find . -name filename** Searches in the current directory (represented by a period) and below it, for files and directories with names starting with filename
6. **pgrep pattern** Searches for all the named processes , that matches with the

pattern and, by default, returns their ID

System Info

1. **date** Show the current date and time
2. **cal** Show this month's calendar
3. **uptime** Show current uptime
4. **w** Display who is on line
5. **whoami** Who you are logged in as
6. **finger user** Display information about user
7. **uname -a** Show kernel information
8. **cat /proc/cpuinfo** Cpu information
9. **cat proc/meminfo** Memory information
10. **man command** Show the manual for command
11. **df** Show the disk usage
12. **du** Show directory space usage
13. **free** Show memory and swap usage
14. **whereis app** Show possible locations of app
15. **which app** Show which applications will be run by default

Compression

1. **tar cf file.tar file** Create tar named file.tar containing file
2. **tar xf file.tar** Extract the files from file.tar
3. **tar czf file.tar.gz** files Create a tar with Gzip compression
4. **tar xzf file.tar.gz** Extract a tar using Gzip
5. **tar cjf file.tar.bz2** Create tar with Bzip2 compression
6. **tar xjf file.tar.bz2** Extract a tar using Bzip2
7. **gzip file** Compressed file and renames it to file.gz
8. **gzip -d file.gz** compressed file.gz back to file

Network

1. **ping host** Ping host and output results
2. **whois domain** Get whois information for domains

3. **dig domain** Get DNS information for domain

4. **dig -x host** Reverse lookup host

5. **wget file** Download file

6. **wget -c file** Continue a stopped download

Shortcuts

1. **ctrl+c** Halts the current command

2. **ctrl+z** Stops the current command, resume with fg in the foreground or bg in the background

3. **ctrl+d** Logout the current session, similar to exit

4. **ctrl+w** Erases one word in the current line

5. **ctrl+u** Erases the whole line

6. **ctrl+r** Type to bring up a recent command

7. **!!** Repeats the last command

8. **exit** Logout the current session