

File Commands

ls - List the content of the current directory

ls -R - List the subdirectories recursively

ls -a - List all the content, including hidden files

ls -l - List the content and its information

pwd - Output the current directory that you are in

cd folder1 – Change the working directory to *folder1*

cd - Return to the \$Home directory

cd .. - Go up a directory

cd - - Return to the previous directory

cp source destination – Copy *source* to *destination*

cp -r source destination – Copy a folder recursively from *source* to *destination*

mv source destination - Move (or rename) a file from *source* to *destination*

rm file1 - Remove *file1*

rm -f file1 - Remove *file1* without prompt

rm -r folder - Remove a folder and its content recursively

mkdir foldername – Create a new folder *foldername*

rmdir foldername – Remove an empty folder

file file1 – Show the file type of *file1*

cat file1 file2 – Concatenate *file1* to *file 2*

cat > file1 – Concatenate standard input to *file1*

less file1 - View and paginate *file1*

head file1 - Show first 10 lines of *file1*

tail file1 - Show last 10 lines of *file1*

chmod 777 file - Change file permission of *file* to 777

chown user:group file - Change ownership of *file* to *user* and group *group*

ln -s source destination – Create a symbolic link from *source* to *destination*

File Encryption and Compression

gpg -c file - Encrypt *file*

gpg file.gpg - Decrypt *file.gpg*

tar -cf archive.tar foo bar - Create *archive.tar* from files *foo* and *bar*

tar -xf archive.tar - Extract all files from *archive.tar*.

System Commands

uname -a - Show system and kernel

head -n1 /etc/issue - Show distribution

mount - Show mounted filesystems

date - Show system date

uptime - Show system uptime

whoami - Show your username

w - Display who is online

man command - Show manual for *command*

mount -o loop cdrom.iso /mnt/dir - Mount *cdrom.iso* at */mnt/dir*

cat /proc/partitions - Show all partitions registered on the system

grep MemTotal /proc/meminfo - Show RAM total seen by the system

grep "model name" /proc/cpuinfo - Show CPU(s) info

lspci -tv - Show PCI info

lsusb -tv - Show USB info

!! - Repeat the last command

exit – Log out of current session

File Searching Commands

grep pattern files - Search for *pattern* in *files*

grep -i - Case insensitive search

grep -r - Recursive search

grep -v - Inverted search

grep -o - Show matched part of file only

locate file1 - Find *file1*

whereis command - Find binary/source /manual for *command*

which app – Locate a command for the *app*

look string file1 - Display any lines in *file1* which contain *string* as a prefix.

find /dir/ -user name - Find *files* owned by name in *dir*

find /dir/ -mmin num - Find *files* modified less than *num* minutes ago in *dir*

find /dir/ -name name* - Find *files* starting with *name* in *dir*

<p>tar -czf archive.tar.gz foo bar - Create <i>archive.tar.gz</i> from files <i>foo</i> and <i>bar</i>, with Gzip compression</p> <p>tar -xzf archive.tar.gz - Extract a tar using Gzip</p> <p>tar -cjf archive.tar.bz2 foo bar - Create <i>archive.tar.bz2</i> from files <i>foo</i> and <i>bar</i>, using Bzip2 compression.</p> <p>tar -xjf archive.tar.bz2 – Extract a tar using Bzip2</p> <p>gzip file1 – Compress <i>file1</i> and rename it to <i>file1.gz</i></p> <p>gzip -d file1.gz – Decompress <i>file1.gz</i></p>
SSH
<p>ssh \$USER@\$HOST – Connect to <i>\$Host</i> as <i>\$USER</i></p> <p>ssh \$USER@\$HOST command - Run <i>command</i> on <i>\$HOST</i> as <i>\$USER</i></p> <p>ssh \$USER@\$HOST -p 1234 – Connect to <i>\$HOST</i> as <i>\$USER</i> on port <i>1234</i></p> <p>scp file1 \$USER@\$HOST:file1 – Secure copy <i>file1</i> from local machine to <i>file1</i> at remote <i>\$HOST</i></p> <p>scp \$USER@\$HOST:file1 file1– Secure copy <i>file1</i> from remote <i>\$HOST</i> to <i>file1</i> at local machine</p> <p>scp -r foo \$USER@\$HOST:/bar – Secure copy the folder <i>foo</i> from local machine to the folder <i>bar</i> at remote <i>\$HOST</i></p>
Package Installation
<p>dpkg -i package.deb - Install a deb package</p> <p>rpm -Uvh package.rpm – Install a rpm package</p>

Process Management
<p>ps - Show snapshot of processes</p> <p>top - Show real time processes</p> <p>kill pid - Kill process with id <i>pid</i></p> <p>pkill name - Kill process with name <i>name</i></p> <p>killall name - Kill all processes with names beginning <i>name</i></p>
Keyboard Shortcuts
<p>Ctrl + Shift + c - Copy a highlighted text</p> <p>Ctrl + Shift + v – Paste a copied text</p> <p>Ctrl + z - Sleep program</p> <p>Ctrl + c – Stop current command</p> <p>Ctrl + r – Start a search</p> <p>Ctrl + u – Cut from start of line</p> <p>Ctrl + k – Cut to end of line</p> <p>Ctrl + a – Go to start of line</p> <p>Ctrl + e – Go to end of line</p>
Disk Space
<p>df -h - Show free space on mounted filesystems</p> <p>df -i - Show free inodes on mounted filesystems</p> <p>du -h folder – Show file usage of each folder in <i>folder</i></p> <p>du -sh folder – Show the total file size of <i>folder</i></p> <p>fdisk -l - Show disks partitions sizes and types (run as root)</p> <p>free – Show memory and swap usage</p>

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