

## 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*

**tar -czf archive.tar.gz foo bar** - Create *archive.tar.gz* from files *foo* and *bar*, with Gzip compression

**tar -xzf archive.tar.gz** - Extract a tar using Gzip

**tar -cjf archive.tar.bz2 foo bar** - Create *archive.tar.bz2* from files *foo* and *bar*, using Bzip2 compression.

**tar -xjf archive.tar.bz2** - Extract a tar using Bzip2

**gzip file1** - Compress *file1* and rename it to *file1.gz*

**gzip -d file1.gz** - Decompress *file1.gz*

## SSH

**ssh \$USER@\$HOST** - Connect to *\$Host* as *\$USER*

**ssh \$USER@\$HOST command** - Run *command* on *\$HOST* as *\$USER*

**ssh \$USER@\$HOST -p 1234** - Connect to *\$HOST* as *\$USER* on port *1234*

**scp file1 \$USER@\$HOST:file1** - Secure copy *file1* from local machine to *file1* at remote *\$HOST*

**scp \$USER@\$HOST:file1 file1** - Secure copy *file1* from remote *\$HOST* to *file1* at local machine

**scp -r foo \$USER@\$HOST:/bar** - Secure copy the folder *foo* from local machine to the folder *bar* at remote *\$HOST*

## Package Installation

**dpkg -i package.deb** - Install a deb package

**rpm -Uvh package.rpm** - Install a rpm package

## Process Management

**ps** - Show snapshot of processes

**top** - Show real time processes

**kill pid** - Kill process with id *pid*

**pkill name** - Kill process with name *name*

**killall name** - Kill all processes with names beginning *name*

## Keyboard Shortcuts

**Ctrl + Shift + c** - Copy a highlighted text

**Ctrl + Shift + v** - Paste a copied text

**Ctrl + z** - Sleep program

**Ctrl + c** - Stop current command

**Ctrl + r** - Start a search

**Ctrl + u** - Cut from start of line

**Ctrl + k** - Cut to end of line

**Ctrl + a** - Go to start of line

**Ctrl + e** - Go to end of line

## Disk Space

**df -h** - Show free space on mounted filesystems

**df -i** - Show free inodes on mounted filesystems

**du -h folder** - Show file usage of each folder in *folder*

**du -sh folder** - Show the total file size of *folder*

**fdisk -l** - Show disks partitions sizes and types (run as root)

**free** - Show memory and swap usage

Do you like this cheat sheet?

Visit [MakeTechEasier.com](https://www.maketecheasier.com) for more useful tech tutorials, tips and tricks