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Need help?	
man comman- dname	Open the help manual
apropos keyword	Searches the keyword inside the help manual
apropos -a keyword	Searches for multiple keywords inside the help manual
comman- dname help	Displays help for the command
whatis comman- dname	One line description of a command
linuxconf	Linux configuration
aspell	Spell checker
alias	To create simple commands
* Alias example: alias armas ='grep -inT	

* Alias example: alias armas ='grep -inT armas Um.txt' --> This defines the command armas to execute the grep command.

* Typing only alias will display the already created commands

Wildcards: (set of characters of arbitrary lenghts); ? (any character); [numbers] (range of characters)

Basic commands		
whoami	To learn your username	
clear	Clears the screen	
exit	Exits the terminal	
echo "rand- omwords"	Returns what you wrote	
expr number + number	To perform basic math operations	
date	Dipslays the date and time of the system	
nano	Opens nano, the linux text editor	

Basic commands (cont)

sqlite3	Example of a vesion of sql to use from linux
soofice	See files on Libreoffice
gedit	Opens text/code editor Gedit
gedit filename	Opens the file on Gedit
cal	Displays the calender and easter date
seq	Prints a numeral sequence

Permissions	
ls -l	Displays permissions to filesand directories
ls -la	Displays permissions to files and directories, including hidden files
chmod	Change permissions to files and directories
sudo	Temporarily grants elevated permissions
sudo useradd	Adds a user to the system
sudo useradd - g groupname username	Sets the user's default group
sudo userass - G group(- s)name username	Adds the user to additional groups
sudo usermod	Modifies existing user accounts

Permissions (cont)

sudo usermod -g	Changes thhe primary group		
sudo usermo - G	Changes the secondary group		
sudo usermode -d path username	Changes the user's home directory		
sudo usermode -l	Changes the user login name		
sudo usermod -L	Locks the account		
sudo userdel	Deletes user		
sudo chown user/grou- pname file	Commands changes to the ownership of a file or directory		

Permissions in Linux look like drwxrwxrwx. 1st char is a d (for directory) or - (for regular files). The 3 sets refer to user-group-other.The options for characters are: u (indicats changes will be made to user permissions); g (indicates changes will be made to the group permissions), o (indicates changes will be made to other permissions); + (adds permissions to them); - (removes permissions from them); = (assigns permissions to them)

Directories & Files

tree	Lists the directory conten on a tree format
pwd	Prints the current working directory path
ls	Displays the names of the directories and files in the current directory
ls - a	Displays hidden files

By iddd

cheatography.com/iddd/

Not published yet. Last updated 15th December, 2023. Page 1 of 4.

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Directories & Files (cont)		
cd direct- oryname	Changes directory	
cd /	Back to the root directory	
cd ~	Changes to the home directory	
cd	Changes to the preceding directory	
mkdir newdir- ect- oryname	Create new directories	
touch	Creates a new empty file	
rmdir direco- tyname	Delete directories	
rmdir -r	Deletes the directory and files	
rm filename	Deletes a file	
cp [options] origin destiny	Copie files and directories	
mv file/d- irecto- ryname /path	Moves directories and files to a new location. Can also be used to rename files.	
tar -xf filename	Extracts files	
stat filename	Displays info about an file	
stat -f	Displays info about the system file (not the file)	

Direct	tories & Files (cor	nt)
find fil	lename	To find a file
sessio - Wor the m	oment.	
	re needed to have	e spaces on the
*rmdii	r only works in en	npty directories
*hidde beggi	en files will have a ning	an . (dot) at the
	can be used with me filename)	multiple files (stat
Proce	esses	
top	Shows the exec Linux	uting processes on
ps	Shows the activ processes on the	0
ps - e	Lists all the proc	cesses in order
ps - f	Shows the same	e as ps but in a table
ps - e-f	Shows the proc table	esses in order, on a
ps tree	Shows the proc	esses in tree
kill	Ends the proces	SS
kill - 9	ls used when ki	ll doesn't work
kill - 1	Restarts the pro	cess
* kill - 1)	9 and kill -1 can k	be combined (kill -9-

NetworkspingVerify if an

ping	Verify if an server is available
traceroute	Shows the network route
nslookup	Lets you find info about the computer in the network through DNS
telnet	Log in securely on a remote computer
ssh -X	Log in securely on a remote computer
Xfce4 session	Start an graphical session on a remote computer
exit	Leave the remote session
quit	Leave the remote session
who	Shows who has an active session on this machine
who -w	Know some more info
finger	Shows info about an user
write username	Send messages to other users
talk	Also used to communciate with other users. In this case, thy msut accept the connection with the same command
mesg n	Indicates that I don't want to receive more messages
mesg y	Indicates that I'm available
at	Schedules the execution of commands on the computer

By iddd

cheatography.com/iddd/

Not published yet. Last updated 15th December, 2023. Page 2 of 4.

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counts the number of lines

reorganizes the file by lines, so that

they are ordered by number and

Prints all lines according to the

condition and numerates them

All the lines will start on the same

Looks for the condition, ignoring the

searches only for the complete word

and not for words that contain part of

Reading files content (cont)

alphabeticaly

like sort but in reverse

letter capitalization

the chosen word

There are several ways to combine commands on a single line.

&& If the command that preeceds &&

Running commands one after the other: ; or

completes sccessfully, the following is run.

|| If the command that precedes || fails, the

numbers

nl

nl -a

sort

sort

grep

grep

grep

grep

&& or ||.

following runs.

-w

place

Joining commands

-n

-t

-i

-r

Networks (cont)

scp	Securely copie files between different	
	machines	
- ping	g -c 4 apps .fe.up.pt	
- nslo	ookup moodle.up.pt or nslookup	
193.1	137.35.211	
- telnet towel.clinkenlights.nl.		
-ssh -X gnomo.fe.up-pt or ssh -X mccart-		
hy.fe.up.pt		
- at 11:15 commandstobeexecuted ctrl+d		
-scp user@mccarthy.fe.up.pt:/usr/SCCOM/-		
ola.txt copiado.txt		
*when using write, use ctrl+c to send the		
message or use echo mensagem write		
userr	name	
Read	ling files content	
cat	Concatenate and display the	
filona	me content of files	

filename	content of files
tac	Like cat but in reverse
grep filename	Returns all lines of a file that contain a specified string
head filename	Dispalys the first 10 lines of the file
head - number	Displays the n first lines
tail filename	Displays the last 10 lines
tail - number filename	Displays the last n number of lines
less	Displays the content of a file one page at a time
more filename	Displays the file
WC	Counts characters, words and lines
WC -C	Counts bytes
wc -m	Counts characters
WC -W	Counts words



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Not published yet. Last updated 15th December, 2023. Page 3 of 4.

Joining commands (cont)

Run more than one command concurrently (the output from the first command is piped to the next as the first command is runnign): | or a filter with a |

Using ; : cd mydir ; Is

Using && : command && command Using || : command || command Using || : history | grep "cp" (displays all the cp commands that are recorded among the 16 most recently recorded command in history file). Is -I | grep "Jan" (displays the files that were last changed in January). ps -e | grep cc | wc -I (lists all o the processes active in the system and pipes the output to grep, which searches for every instace of the string cc. The output of the grep is then piped to wc, which counts every line in which the string cc occurs and sends the number of lines to standard output).. ------

 > : redirects the output of a command to an file (the result of the command will appear on the file and not on the shell. When there's content on the file, it will repace it.
When there's no file it will create a new one).

>>> : adds to the file

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Administration		
apt	Search for and install software packages	
apt-get	Search for and install software packages	
apt remove	Removes a package	
apt upgrade	updats the whole system	
apt update	Upgrades the repository	
- It might b apt	e necessary to use sudo to use	



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Not published yet. Last updated 15th December, 2023. Page 4 of 4.