Cheatography

Linux Cheat Sheet
by iddd via cheatography.com/197744/cs/41738

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 exam	ole: 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)

Dasic commands (conty		
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)

Permissions (cor	it)
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

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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)

Directories & Files (cont)

find file	name	7 To find a file
sessior - Worki the mo	ment.	
	e needed to have ry name	e spaces on the
*rmdir (only works in em	pty directories
*hidder beggini	n files will have a ing	n . (dot) at the
	an be used with le filename)	multiple files (stat
Proces	ses	
	Shows the exect Linux	uting processes on
	Shows the active processes on the	÷
ps - e	Lists all the proc	esses in order
ps - f	Shows the same	as ps but in a table
	Shows the proce table	esses in order, on a
ps tree	Shows the proce	esses in tree
kill	Ends the proces	S
kill - 9	Is used when kill	doesn't work
kill - 1	Restarts the proc	cess
* kill -9	and kill -1 can b	e combined (kill -9-

nina

Networks

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

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Networks (cont)

scp Securely copie files between different machines

- ping -c 4 apps .fe.up.pt

- nslookup moodle.up.pt or nslookup 193.137.35.211

- telnet towel.clinkenlights.nl.

-ssh -X gnomo.fe.up-pt or ssh -X mccarthv.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 username

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

wc -w Counts words

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Reading files content (cont)

nl	counts the number of lines
nl -a	numbers
sort	reorganizes the file by lines, so that they are ordered by number and alphabeticaly
sort -r	like sort but in reverse
grep -n	Prints all lines according to the condition and numerates them
grep -t	All the lines will start on the same place
grep -i	Looks for the condition, ignoring the letter capitalization
grep -w	searches only for the complete word and not for words that contain part of the chosen word

Joining commands

There are several ways to combine commands on a single line. Running commands one after the other: ; or && or ||. && If the command that precedes && completes sccessfully, the following is run. || If the command that precedes || fails, the following runs.

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	Removes a package
remove	
apt	updats the whole system
upgrade	
apt	Upgrades the repository
update	
- It might be necessary to use sudo to use	
apt	



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