10.8.3 Real anonymity??

No! You must be aware that internet browsing works thanks to a **physical network of connected machines**. A person with physical access to the different "connection points" will be able to observe the traffic and capture informations immediately, or to store this information for a further consultation.

In addition, computer monitoring is not the only way to identify you and your navigation: video surveillance of public or private places, labeling of machines "for your safety" are only examples of all the possibilities of the authorities and companies to access your valuable data.

It is up to everyone to define his "private life" and not spread it on the web ... Or to move on to more political than technical considerations for the Privacy Protection Θ .



Anonymous

Basic Command Memo



A shell to rule them all

Debian GNU/Linux systems have all the graphical applications needed to perform your daily tasks, so why to use the command line?

- · it's faster,
- · not all options are present in the graphical interfaces,
- using the command line without GUI saves resources,
- it makes learning the Debian GNU/Linux system easier.

This section gathers some basic commands. For a more complete list, visit the Debian documentation: https://wiki.debian.org/ShellCommands.

11.1 Browse directories

#Command	#Action
pwd	Print Working Directory
cd foo	Change Directory to foo
cd	Change Directory to /home/\$USER or ~/
cd	move up to the parent directory
ls foo	List information about file(s) in foo
ls -a	ls with hidden files displayed
ls -l	ls with size and rights

11.2 Action on files or directories

#Command	#Action
#	
mv source target	move the file from source to target
cp source target	copy the file from source to target
cp -R source target	copy the directory source to target (recursively)
ln source link	create a hard link from source to link
ln -s source link	create a symbolic link from source to link
touch foo	create the file foo or update its
	modification date
mkdir dirA	create the directory dirA
mkdir -p dirA/dirB	mkdir with creation of parent directory if needed
rm foo	remove file foo
rm -f file	remove the write-protected file
rmdir dirA	remove the empty directory dirA
rm -R dirB	remove the directory dirB (recursively)
du -h file or dir	display size of the file or the dir

11.3 View/Compare files

#Command	#Action
wc file	Prints byte, word and line counts of file
cat file	displays the contents of a file
more file	displays file page by page. 'Space'=next page,
	'Enter'=next line, 'u'=up
less file	displays file with fine navigation
	Left/Right/Up/Down/PageUp/PageDown
head -n x file	displays 'x' first lines of file
tail -n x file	displays 'x' last lines of file
tail -f file	dynamicaly displays last line of file
diff file1 file2	Displays differences between two text files
diff -u file1 file2	Displays differences between file1 and file2 (patch syntax)
comp file1 file2	compares two binary files
comp file1 file2 n N	compares file1 from the octet n and file2 from octet N

11.4 Users and groups

#Command	#Action
whoami	Print the current user id and name
who	Print all usernames currently logged in
id	Print user and group id's (uid & gid)

id user	Print user and group id's (root only)
finger user	Print informations about user
write user	Print a message on user's terminal
tty	Print the current terminal's name
su – sudo	Switch to administrator mode, superuser
passwd	Change the password of the current user
adduser	add a user
deluser	delete a user
addgroup	add a group
delgroup	delete a group

11.5 Process

#Command	#Action
ps	Process Status. Lists running process
ps ax	Print all running processes
ps aux	Print all process identified by users
pstree	Print all process in a tree
top	List processes running on the system in a
	semi-graphical table
kill signal pid	kill a process using its pid
pkill signal name	kill a process using its name

Signals used by kill/pkill

#Signal	#Mode	#Action
-1	HUP	Reload the process configuration file
-2	INT	Interrupt the process
-3	QUIT	Quit the process
-9	KILL	Kill the process (to avoid, try '-15' first)
-15	TERM	Complete the process properly
-18	ST0P	Freeze the process
-20	CONT	Resume execution of a frozen process

11.6 Hardware

#Command	#Action	
<i>"</i>		
lsusb	Lists connected USB devices	
lspci	Lists connected PCI devices	
<pre>cat /proc/cpuinfo</pre>	Displays processor information	
<pre>cat /proc/partitions</pre>	Displays mounted partitions	
lspci egrep "3D Display VGA"	Display the graphics card model	
lspci grep -i "net" cut -d: -f3	Show the Wifi card model	

11.7 Network

#Command	#Action
#	
hostname	Print or set system name
ping machine	Send a ping to a machine on the network
traceroute machine	Displays a traceroute through machine
netstat	Displays the use of the network by the processes
netstat -a	Netstat with the display of the server processes
lsof	Detailed list of file and network usage
ip address	Displays the config of the interfaces
route	Displays the routing table
curl ifconfig.me	Displays public IP

Example: displays its locap IP on enp0s3

```
ip address show enp0s3 | grep "inet " | tr -s " " ":" | cut -d: -f3
```

11.8 Search

#Command/Option	#Action	
#		
locate pattern	Search for file with a pattern name	
updatedb	Update locate database	
find path options	Search for file corresponding to options in path	
find -name pattern	Search for file with a pattern	
find - type f/d/l	Search by filetype: f=file, d=directory, l=link	
find - exec cmd	Execute *cmd* on the found files	

Example: search for all *png* files in the 'Images' directory, then copy all files to *tmp* directory ('{{}}' stands for found files).

```
find $HOME/Images -name "*.png" -exec cp {} $HOME/tmp/ \;
```

11.9 Archives

#Format	#Compress	#Extract
#		
.tar.bz2, .tbz2	tar -cvjf archive.tar.bz2 directory	tar xvjf
.tar.gz, .tgz	tar -cvzf archive.tar.gz directory	tar xvzf
.bz2	<pre>tar -cvzf archive.tar.gz directory bzip2 file</pre>	bunzip2

.rar	-	unrar x
.gz	gzip file	gunzip
.gz .tar	tar -cvf archive.tar files	tar xvf
.zip .Z	zip -r archive.zip files	unzip
.Z	compress files	uncompress
.7z	7z a files	7z x
.XZ	xz -z directory	unxz

11.10 Kernel

Version of the Linux kernel used, its name, the version of the compiler used:

```
cat /proc/version
```

Version of the Linux kernel used:

```
uname -r
```

List all kernels installed on your machine:

```
dpkg -l | egrep "linux-(header|image)"
```

11.11 Links and references

- Dedicated page on Debian-Facile (fr): https://debian-facile.org/doc:systeme:commandes:gnu_linux
- Dedicated Debian documentation: https://www.debian.org/doc/manuals/debian-reference/ch01.
 html
- Commands list: https://www.epons.org/commandes-base-linux.php
- · Commands list on Debian wiki: https://wiki.debian.org/ShellCommands