

# Exercises - Directories

10/11/2021

1. Change the current directory to /home/<user>

```
sofi@sofi-VirtualBox:~$ cd /home/sofi
sofi@sofi-VirtualBox:~$ cd /home
sofi@sofi-VirtualBox:/home$ cd /home/sofi
sofi@sofi-VirtualBox:~$
```

2. Create a directory called systems

```
sofi@sofi-VirtualBox:~$ mkdir systems
sofi@sofi-VirtualBox:~$ ls
Desktop  Downloads  Pictures  snap      Templates
Documents Music      Public    systems   Videos
```

3. Create a directory called exercises. Go to this directory and create another new directory called programming

```
sofi@sofi-VirtualBox:~$ cd systems
sofi@sofi-VirtualBox:~/systems$ ls
sofi@sofi-VirtualBox:~/systems$ mkdir programming
sofi@sofi-VirtualBox:~/systems$ ls
programming
sofi@sofi-VirtualBox:~/systems$
```

4. Go back to the user's home directory. Delete the directories "exercises" and "programming" using just one command. Create the directories again with one command.

```
sofi@sofi-VirtualBox:~/systems$ cd ..
sofi@sofi-VirtualBox:~$ rm -r systems
sofi@sofi-VirtualBox:~$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  snap  Templates  Videos
sofi@sofi-VirtualBox:~$ ls -a
.          Documents  snap
..         Downloads  .sudo_as_admin_successful
.bash_history .gnupg     Templates
.bash_logout .local     .vboxclient-clipboard.pid
.bashrc      Music      .vboxclient-display-svga-x11.pid
.cache       Pictures   .vboxclient-draganddrop.pid
.config      .profile   .vboxclient-seamless.pid
Desktop     Public     Videos
sofi@sofi-VirtualBox:~$ cd systems
bash: cd: systems: No such file or directory
sofi@sofi-VirtualBox:~$ cd programming
bash: cd: programming: No such file or directory
sofi@sofi-VirtualBox:~$
```

```
sofi@sofi-VirtualBox:~$ mkdir systems/programming
sofi@sofi-VirtualBox:~$ ls
Desktop  Downloads  Pictures    Public  systems  Videos
Documents Music      programming snap    Templates
sofi@sofi-VirtualBox:~$ cd systems
sofi@sofi-VirtualBox:~/systems$ ls
programming
```

5. Print the contents of the root directory

6. Print all the files and directories that begin with d in the /usr/bin directory

ls /usr/bin/d\*

```
sofi@sofi-VirtualBox:~$ ls /usr/bin/d*
/usr/bin/dash
/usr/bin/date
/usr/bin/dbus-cleanup-sockets
/usr/bin/dbus-daemon
/usr/bin/dbus-launch
/usr/bin/dbus-monitor
/usr/bin/dbus-run-session
/usr/bin/dbus-send
/usr/bin/dbus-update-activation-environment
/usr/bin/dbus-uuidgen
/usr/bin/dc
/usr/bin/dconf
/usr/bin/dd
/usr/bin/ddstdecode
/usr/bin/deallocvt
/usr/bin/debconf
/usr/bin/debconf-apt-progress
/usr/bin/debconf-communicate
/usr/bin/debconf-copydb
/usr/bin/debconf-escape
/usr/bin/debconf-set-selections
/usr/bin/debconf-show
/usr/bin/deb-systemd-helper
/usr/bin/deb-systemd-invoke
/usr/bin/delpart
/usr/bin/delv
/usr/bin/desktop-file-edit
/usr/bin/df
/usr/bin/dfu-tool
/usr/bin/dh_bash-completion
/usr/bin/dh_installxhcatalogs
/usr/bin/dh_perl_openssl
/usr/bin/diff
/usr/bin/diff3
/usr/bin/dig
/usr/bin/dir
/usr/bin/dircolors
/usr/bin/dirmngr
/usr/bin/dirmngr-client
/usr/bin/dirname
/usr/bin/dirsplit
/usr/bin/dmesg
/usr/bin/dnsdomainname
/usr/bin/domainname
/usr/bin/do-release-upgrade
/usr/bin/dpkg
/usr/bin/dpkg-deb
/usr/bin/dpkg-divert
/usr/bin/dpkg-maintscript-helper
/usr/bin/dpkg-query
/usr/bin/dpkg-split
/usr/bin/dpkg-statoverride
/usr/bin/dpkg-trigger
/usr/bin/driverless
```

7. List all the files and directories in /etc, including subdirectories

ls -R /etc

```
sofi@sofi-VirtualBox:~$ ls -R /etc
/etc:
acpi
adduser.conf
alsa
alternatives
anacrontab
apg.conf
apm
apparmor
apparmor.d
hdparm.conf
host.conf
hostid
hostname
hosts
hosts.allow
hosts.deny
hp
ifplugd
polkit-1
popularity-contest.conf
ppp
profile
profile.d
protocols
pulse
python3
python3.8
```

8. Create the empty files called student.txt, student1.txt, student2.txt, list, luggage and last in the directory named “systems”.

mkdir systems → cd systems → touch student.txt student2.txt list luggage last  
si estamos en otro directorio tendríamos que poner touch systems/student.txt  
systems/student2.txt

```
sofi@sofi-VirtualBox:~$ cd systems
sofi@sofi-VirtualBox:~/systems$ touch student.txt student2.txt list luggage last
sofi@sofi-VirtualBox:~/systems$ ls
luggage last list programming student2.txt student.txt
sofi@sofi-VirtualBox:~/systems$
```

9. Print all the files that begin with “l” in the directory “systems”  
ls systems/l\*

```
sofi@sofi-VirtualBox:~$ ls systems/l*
systems/luggage systems/last systems/list
sofi@sofi-VirtualBox:~$
```

10. Print all the files that end with “txt” in the directory “systems”  
cd systems → ls \*txt

```
sofi@sofi-VirtualBox:~/systems$ ls *txt
student2.txt student.txt
sofi@sofi-VirtualBox:~/systems$
```

11. Create a new directory into \$HOME called “config”  
/home /systems cd \$HOME → mkdir config

```
sofi@sofi-VirtualBox:~$ cd $HOME
sofi@sofi-VirtualBox:~$ mkdir config
sofi@sofi-VirtualBox:~$ ls
config Documents Music Public systems Videos
Desktop Downloads Pictures snap Templates
sofi@sofi-VirtualBox:~$
```

12. Copy all the files in /etc which begin with “a” into “config”  
cp /etc/a\* config

```
sofi@sofi-VirtualBox:~$ cp /etc/a* config
cp: -r not specified; omitting directory '/etc/acpi'
cp: -r not specified; omitting directory '/etc/alsa'
cp: -r not specified; omitting directory '/etc/alternatives'
cp: -r not specified; omitting directory '/etc/apm'
cp: -r not specified; omitting directory '/etc/apparmor'
cp: -r not specified; omitting directory '/etc/apparmor.d'
cp: -r not specified; omitting directory '/etc/appport'
cp: -r not specified; omitting directory '/etc/apt'
cp: -r not specified; omitting directory '/etc/avahi'
```

```
sofi@sofi-VirtualBox:~$ cd config
sofi@sofi-VirtualBox:~/config$ ls
adduser.conf anacrontab apg.conf appstream.conf
sofi@sofi-VirtualBox:~/config$
```

13. Delete all the files in “config” which end with “conf”

rm config/\*conf

```
sofi@sofi-VirtualBox:~$ rm config/*conf
sofi@sofi-VirtualBox:~$ ls
config  Documents  Music      Public  systems  Videos
Desktop Downloads  Pictures   snap    Templates
sofi@sofi-VirtualBox:~$ ls /config
ls: cannot access '/config': No such file or directory
sofi@sofi-VirtualBox:~$ cd config
sofi@sofi-VirtualBox:~/config$ ls
anacrontab
sofi@sofi-VirtualBox:~/config$
```