MANAGING DIRECTORIES

Α

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

When we open the terminal we are already in the /home/palo directory, but if we weren't this is the command we should use:

```
palo@palo-VirtualBox:/$ cd /home/palo
palo@palo-VirtualBox:~$ ls
D1 Desktop Downloads Music Public Videos
DA Documents FOLDER Pictures Templates
palo@palo-VirtualBox:~$ S
```

2. Create a directory called systems

```
palo@palo-VirtualBox:~$ mkdir systems
palo@palo-VirtualBox:~$ ls
D1 Desktop Downloads Music Public Templates
DA Documents FOLDER Pictures systems Videos
palo@palo-VirtualBox:~$
```

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

```
palo@palo-VirtualBox:~$ mkdir exercises
palo@palo-VirtualBox:~$ cd exercises
palo@palo-VirtualBox:~/exercises$ mkdir programming
palo@palo-VirtualBox:~/exercises$ ls
programming
palo@palo-VirtualBox:~/exercises$
```

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.

```
palo@palo-VirtualBox:~/exercises$ cd ...
palo@palo-VirtualBox:~$ rmdir -p exercises/programming
palo@palo-VirtualBox:~$ ls
D1 Desktop
              Downloads Music
                                   Public
                                            Templates
   Documents FOLDER
                         Pictures systems Videos
DA
palo@palo-VirtualBox:~$ mkdir -p exercises/programming
palo@palo-VirtualBox:~$ ls
D1
        Documents FOLDER
                             Public
                                        Videos
        Downloads Music
                             systems
Desktop exercises Pictures Templates
palo@palo-VirtualBox:~$ cd exercises
palo@palo-VirtualBox:~/exercises$ ls
programming
palo@palo-VirtualBox:~/exercises$
```

5. Print the contents of the root directory

We first go to root using: cd ../.. and then use the command: Is

```
palo@palo-VirtualBox:~$ cd ../..
palo@palo-VirtualBox:/$ ls
bin
             lib64
      etc
                        mnt
                              run
                                    swapfile var
boot
      home
             libx32
                       opt
                             sbin
cdrom lib
                                    tmp
      lib32 media
                        root srv
palo@palo-VirtualBox:/$
```

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

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

```
palo@palo-VirtualBox:~$ ls -l /etc
total 1068
                          4096 feb 9 2021 acpt
drwxr-xr-x 3 root root
-rw-r--r-- 1 root root
                          3028 feb 9 2021 adduser.conf
                         4096 feb 9 2021 alsa
drwxr-xr-x 3 root root
drwxr-xr-x 2 root root
                         4096 oct 9 11:19 alternatives
-rw-r--r-- 1 root root
                          401 jul 16
                                      2019 anacrontab
                          433 oct 2
-rw-r--r-- 1 root root
                                      2017 apg.conf
                          4096 feb
drwxr-xr-x
           5 root root
                                   9
                                      2021 apm
                          4096 feb
                                   q
           3 root root
                                      2021
```

8. Create the empty files called student.txt, student1.txt, student2.txt, list, luggage and last

in the directory named "systems"

```
palo@palo-VirtualBox:~$ cd systems; touch student.txt student
2.txt list luggage last
palo@palo-VirtualBox:~/systems$ ls
last list luggage student2.txt student.txt
palo@palo-VirtualBox:~/systems$
```

9. Print all the files that begin with "I" in the directory "systems"

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

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

11. Create a new directory into \$HOME called "config"

```
palo@palo-VirtualBox:~/systems$ mkdir $HOME/config
```

12. Copy all the files in /etc which begin with "a" into "config"

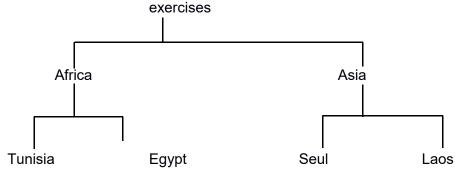
```
palo@palo-VirtualBox:~$ cp /etc/a* config
cp: -r not specified; omitting directory '/etc/acpi'
cp: -r not specified; omitting directory '/etc/alsa'
cp: -r not specified; omitting directory '/etc/alternatives'
cp: -r not specified; omitting directory '/etc/apm'
cp: -r not specified; omitting directory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

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

```
palo@palo-VirtualBox:~$ rm config/*conf
palo@palo-VirtualBox:~$
```

В

Create the following directory structure in /home/<user>/exercises



14. Create the following files using nano (or another editor): song.doc (write a few lines of

a song) in the directory Egypt; tv.doc (write the name of your favourite TV programs) in

the directory Seul and marks (write the marks you expect to get this year)

```
in the
```

directory Tunisia.

```
palo@palo-VirtualBox:~\$ cd exercises
palo@palo-VirtualBox:~\exercises\$ nano Africa/Egypt/song.doc
palo@palo-VirtualBox:~\exercises\$ nano Asia/Seoul/tv.doc
palo@palo-VirtualBox:~\exercises\$ nano Africa/Tunisia/marks
palo@palo-VirtualBox:~\exercises\$
```

CHANGE THE CURRENT DIRECTORY TO AFRICA AND DO THE FOLLOWING EXERCISES USING RELATIVE PATHS

```
15. Copy the file "song.doc" into "Laos"
```

```
palo@palo-VirtualBox:~/exercises/Africa$ cp Egypt/song.doc ..
/Asia/Laos
```

16. Copy the file "tv.doc" into "Egypt" with the name "radio.txt"

```
palo@palo-VirtualBox:~/exercises/Africa$ cp ../Asia/Seoul/tv.
doc Egypt/radio.txt
palo@palo-VirtualBox:~/exercises/Africa$ tree

Egypt
radio.txt
song.doc
Tunisia
marks
```

17. Rename the file "marks" to "exam.wri" (it is located in the directory named Tunisia)

```
palo@palo-VirtualBox:~/exercises/Africa$ mv Tunisia/marks Tunisia/exam.wri
palo@palo-VirtualBox:~/exercises/Africa$ tree

Egypt
radio.txt
song.doc
Tunisia
exam.wri
```

18. Copy the file "song.doc" (located in "Egypt") inside "Tunisia"

```
palo@palo-VirtualBox:~/exercises/Africa$ cp Egypt/song.doc Tu
nisia
palo@palo-VirtualBox:~/exercises/Africa$ tree

Egypt
radio.txt
song.doc
Tunisia
exam.wri
song.doc
```

19. Print the content of the current directory using long listing format

```
palo@palo-VirtualBox:~/exercises/Africa$ ls -l
total 8
drwxrwxr-x 2 palo palo 4096 nov 24 00:17 Egypt
drwxrwxr-x 2 palo palo 4096 nov 24 00:23 Tunisia
```

20. Rename the file "song.doc" (located in "Laos") to "aa.doc"

palo@palo-VirtualBox:~/exercises/Africa\$ mv ../Asia/Laos/song
.doc ../Asia/Laos/aa.doc

21. Create the directory "Others" in "Laos"

palo@palo-VirtualBox:~/exercises/Africa\$ mkdir ../Asia/Laos/O
thers

22. Rename the directory named "programming" (which you created in the first exercises) to

pro-c.

palo@palo-VirtualBox:~/exercises/Africa\$ mv ../programming ..
/pro-c

23. Create the following directory tree in "exercises" (using as few commands as possible)

ONE

TWO THREE

palo@palo-VirtualBox:~/exercises/Africa\$ mkdir -p ../ONE/TWO;
 mkdir -p ../ONE/THREE

24. Copy the files with txt extension from the directory named "systems" to "exercises".

palo@palo-VirtualBox:~/exercises/Africa\$ cp ../../systems/*tx
t ...

25. Move the files you copied in the exercise above to the directory THREE.

palo@palo-VirtualBox:~/exercises/Africa\$ cp ../*txt ../ONE/TH
REE

26. Delete the directory named THREE, including all the files and, if so, subdirectories

palo@palo-VirtualBox:~/exercises/Africa\$ rm -rf ../ONE/THREE

CHANGE INTO SYSTEMS AND DO THE FOLLOWING EXERCISES USING ABSOLUTE PATHS

To go back to systems we use "cd ../../"

27. Copy the files that end with "txt" of the directory named "systems" to "Tunisia"

palo@palo-VirtualBox:~\$ cp \$HOME/systems/*txt \$HOME/exercises
/Africa/Tunisia

28. Copy the file "tv.doc" (located in "Seul") to the directory named "exercises"

palo@palo-VirtualBox:~\$ cp \$HOME/exercises/Asia/Seoul/tv.doc \$HOME/exercises

- 29. Rename the file student1.txt (located in "Tunisia") to tuition.txt palo@palo-VirtualBox:~\$ mv \$HOME/systems/exercises/Africa/Tunisia/student1.txt \$HOME/systems/exercises/Africa/Tunisia/tuition.txt
- 30. Create a new directory called "earth" into "systems". Create another

```
directory called
    "countries" inside "earth"
    palo@palo-VirtualBox:~$ mkdir -p $HOME/systems/earth/countrie
```

31. Rename "Africa" (located in "exercises") to "Afri"
palo@palo-VirtualBox:~\$ mv \$HOME/exercises/Africa \$HOME/exe

NOW YOU CAN BE PLACED IN THE DIRECTORY YOU WANT

32. Move the file "song.doc", which is located in Egypt, to "Laos" with the name "bb.doc"

```
palo@palo-VirtualBox:~/exercises$ mv Afri/Egypt/song.doc Asia
/Laos/bb.doc
palo@palo-VirtualBox:~/exercises$ tree
    Afri
       - Egypt
        radio.txt
         Tunisia
           - exam.wri
           - song.doc

    student2.txt

           · student.txt
           tuition.txt
    Asia
        Laos
           - aa.doc
           - bb.doc
           - Others
```

33. Copy the files whose name contains the letter "u" from "systems" to "exercises"

```
palo@palo-VirtualBox:~/exercises$ cd $HOME
palo@palo-VirtualBox:~$ cp systems/*u* exercises
palo@palo-VirtualBox:~$
```

34. Print the content of the /etc directory, including subdirectories, in reverse alphabetical

order

```
palo@palo-VirtualBox:~$ ls -rR /etc
zsh_command_not_found
                         logrotate.conf
                          login.defs
                         loacheck
                         localtime
xattr.conf
X11
                         locale.gen
                         locale.alias
wpa_supplicant
                         libpaper.d
wgetrc
                         libnl-3
vulkan
                         libblockdev
vtrgb
                         libaudit.conf
vmware-tools
```

35. How can you print the name of the current directory?

```
palo@palo-VirtualBox:~$ pwd
/home/palo
```

36. Copy the folder "Afri" including files and subdirectories to "Asia" palo@palo-VirtualBox:~\$ cd exercises palo@palo-VirtualBox:~/exercises\$ cp -R Afri Asia palo@palo-VirtualBox:~/exercises\$ tree - Afri Egypt — radio.txt Tunisia - exam.wri song.doc student2.txt student.txt tuition.txt Asia Afri - Egypt - radio.txt Tunisia - exam.wri song.doc student2.txt student.txt tuition.txt

37. Move all the files and subdirectories of "Laos" to "Seul" and rename it to "Seul2"

```
palo@palo-VirtualBox:~/exercises$ cd Asia
palo@palo-VirtualBox:~/exercises/Asia$ mv Laos Seoul/Seoul2
palo@palo-VirtualBox:~/exercises/Asia$ tree
    Afri
        Egypt

    radio.txt

         Tunisia
            exam.wri

    song.doc

            - student2.txt

    student.txt

    tuition.txt

    Seoul
        Seoul2
           - aa.doc
            - bb.doc
            Others
        tv.doc
```