

### Integration week – TAF DCL

#### Integration week - Shell

#### Résumé

You can complete this lab session on any machine running Linux. You can use your own machine if you wish. Some questions require administrator access to your machine (to use the apt install command), which is not available on a school computer. Go at your own pace. Use the man, help commands when you have questions.

### 1 Création de répertoire et de fichier / Directory and file creation

2.	Create the following folder hierarchy inside your home directory (you may use a sing mkdir command): ~/Europe/France/Bretagne/Finistere
3.	Create a file ville.txt inside the Finistere directory, while remaining in your hom directory ~, i.e. without using cd to enter Finistere directory (use the touch command)

2.	Copy the ${\tt ville.txt}$ file to ${\tt Le}$ Conquet.txt (use the ${\tt cp}$ command and quotes where necessary) :
3.	Copy the folder Finistere and name the copy Morbihan (use the cp -r command):
4.	Inside the $\sim$ /Europe/France/Bretagne/Morbihan/ folder, rename the file Brest.txt to Quimper.txt (use the mv command):
5.	Remove the file ville.txt from the ~/Europe/France/Bretagne/Morbihan/ folder (use the rm command):
6.	Navigate to the Bretagne folder, and remove the Morbihan folder located inside it (use the rm -rf command; see the meaning of these options using man rm):

## 3 Navigation dans le système de fichiers / File system navigation

1.	Navigate to the ~/Europe/ directory (use the cd command).
2.	Move the ~/Europe/France/Bretagne directory into the ~/Europe directory.
3.	Navigate to the ~/Europe/France/ directory.
	cd France
4.	Move the ~/Europe/Bretagne directory back into the ~/Europe/France directory :
	mv/Bretagne .
5.	Print your current working directory (use the pwd command):
6.	Navigate into the ~/Europe directory using an absolute path (the absolute path starts at the root directory /):
7.	Inside the Europe directory, create the directories Germany, Italy and Spain (all with a single mkdir command):
8.	Inside the <b>Europe</b> folder, navigate into its subfolder whose name contains exactly 6 letters (use the wildcard symbol "?"):
	You should have found yourself in the France folder. Why?
9.	From the <b>France</b> folder, navigate one level above and then try to navigate into a directory whose name contains exactly 5 letters (use the wildcard symbol "?"):
	This command failed, with the error : bash: cd: too many arguments
	Why?
10.	Still from the <b>France</b> folder, navigate one level above and then try to navigate into a directory whose name contains exactly 5 letters and ends with the letter $\bf n$ (use the wildcard symbol "?"):

You should have found yourself in the Spain folder. Why?

11. From the **Spain** folder, navigate one level above and then try to navigate into a directory whose name ends with the letter **y** (use the wildcard symbol "\*"):

You should have found yourself in the **Spain** folder. Why?

#### 4 Recherche de fichier / File search

whose name ends with the letter  $\mathbf{n}$ :

1.	Inside the ~/Europe/ directory, find the file whose name starts with Brest (use the find command; see the manual for appropriate options).  Use the following syntax: find <location> -type f -name <filename>.  Example: find ~/ -type f -name myFile.txt</filename></location>
2.	Inside the ~/Europe/ directory, find the file whose name starts with Brest and which has a size bigger than 1 megabyte (use the find command):
	You should have obtained an empty result. Why?

3. Inside the ~/Europe/ directory, find the directory with the name Finistere (use the find command):

If the command returns some "Permission denied" errors, remove the error messages by adding

-print 2>/dev/null to the end of your command.

4. Suppose we want to navigate directly to the result of a find command. If your previous command found a single folder named Finistere, you can use the path resulting from this command in another command. Use the following syntax to do it: cd \$(YourFindCommandHere). The \$() syntax forces the shell to first interpret the content between the parentheses.

Tip: You can use the ↑ arrow on your keyboard to retype your previous command.

5. Locate the Finistere folder using the locate command:

6.	Locate the Finistere folder using the locate command, specifying that it should be	,
	located inside the ~/Europe folder (use wildcards):	

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# ${\small 5\quad \text{Lecture et edition d'un fichier / Reading and editing file} \\ {\small \text{contents}}$

1.	Navigate into the Finistere directory. Edit the content of Brest.txt, by replacing its content with the phrase "Brest is a beautiful city. ". Use the command echo and the > redirection symbol:
2.	Read the content of the file Brest.txt using the more command:
3.	Replace the content of the file Brest.txt with the phrase "Brest is a modern city.". Use the command echo and the > redirection symbol:
4.	Read again the content of the file Brest.txt, this time using the less command (press Q key afterwards to return to the terminal):
5.	Add to the content of the file Brest.txt the phrase "It is located in Finistere. ".  Use the command echo and the » redirection and concatenation symbol:
6.	Use a text editor (nano, gedit, vim, etc.) to modify the content of the file Brest.txt. Add the phrase "Brest lies on the atlantic coast. ", then save and quit the text editor to return back to the terminal. Use the following syntax to open a file with your text editor (\$ <texteditorname> <filename>):</filename></texteditorname>
7.	Read the content of the file Brest.txt using the cat command:
	Archivage / Archiving and Compression  Navigate to the ~/Europe/ directory. Create a (non-compressed) archive file containing the directories France and Germany using the tar command, and name it Europe.tar (see the manual for appropriate options):
2.	Tar files are not compressed! They occupy the same space on your filesystem as their contents.  List the contents of the Europe.tar achive file that we just created (use the tar command; see the manual for appropriate options):

3.	Add the Italy and Spain directories to your archive.
4.	Navigate to the ~/Europe/ directory. This time create a compressed archive file containing the directories France and Germany using the tar -czvf command, and name it FraGer.tar.gz (see the manual for appropriate options):
5.	Use the ls command to verify that the archive was created. As the name suggests, a compressed archive usually occupies at most the same size as its contents.  List the contents of the FraGer.tar.gz achive file that we just created (use the tar -tf command; see the manual for appropriate options):
6.	Create a directory called tmp and extract the contents of the FraGer.tar.gz archive into it (use the tar -xvf command; see the manual for appropriate options):
	Check that the tmp directory really contains the contents extracted from the archive.
	Gestion des droits sur un fichier / File permissions  See the file permissions for the Europe.tar archive that you created (use the ls -1 command).
2.	Change the permissions to the <b>Europe.tar</b> archive allowing only the file author to read and write it (use the <b>chmod</b> command; use the octal mode):
3.	Verify if you succeeded using the ls command.  Change the permissions to the Europe.tar archive allowing no permissions to anyone (use the chmod command):
4.	List the contents of the Europe.tar archive using tar -tvf command.
	What do you observe? Is it normal?
5.	Inside the <b>Europe</b> directory, create a new file called <b>newFile</b> (use the <b>touch</b> command). See what permissions are set for this file using the <b>ls</b> -1 command.
	Why are these specific permissions set for this file?

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## 9 Installation de nouveaux logiciels et des librairies / Installation of software and libraries

To install a Python library, you can use the <b>pip</b> package manager. Try install the <b>numpy</b>
library:
To see which executable of Python you are using, use the command which:
Environment
Identify the name of the shell that you are using (use the <b>echo</b> command):
This will output the content of the <b>\$SHELL</b> variable of your environment.
Display the variables present inside your shell environment (use the <b>env</b> command):
Using the echo command, display the content of the following variables: \$TERM, \$MAIL, \$PATH, \$LOGNAME, \$SHELL.
Define a new variable called VAR1, and set its content to abc (use the export command):
Check if your variable was added to the environment using the <b>env</b> command (you can also use <b>grep</b> command to filter the result of <b>env</b> ):
Open a new terminal window, and check if your variable exists in the environment of that terminal as well.
Normally, the VAR1 variable is not present in this new terminal. Why?
Display the tree of processes by using the <b>pstree</b> -h command. Understand the implication of this tree structure: the variables declared on a branch will not be available on neighbouring branches.

8.	To declare a variable in every new terminal that you open, you can add the declaration of that variable to your ~/.bashrc file, by adding the following line to its content: export VAR1= <value>. The .bashrc file is executed before each bash shell that you open, so a variable declared in this file will be available in that shell.</value>
11	Processes
1.	Use the <b>ps</b> command) to print the list of processes being executed on your computer (see the manual for identifying appropriate options) :
2.	Notice that each process has a process identifier (a PID).  Launch an application such as <b>xeyes</b> in background mode (use & symbol):
3.	Identify the PID of this <b>xeyes</b> process (use <b>ps</b> and filter the result using <b>grep</b> ):
4.	Stop this process using the command kill and the PID of the xeyes process :
5.	You can see which processes consume most of your processing capacity using the command top:
6.	You can send a process to execute in the background using the CTRL+Z key combination. You can bring it back to foreground using the fg command. Try it using the xeyes command.