

- Administration Linux

TP : 1

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Exercice 1 (Commandes Initiales):

Date : affiche la date et l'heure actuelles du système

Cat : Cat est l'abréviation de concaténat. Cette commande affiche le contenu d'un ou plusieurs fichiers sans avoir à ouvrir le fichier pour le modifier

Touch : est une commande utilisée pour mettre à jour la date d'accès et / ou la date de modification d'un fichier informatique ou d'un répertoire. Il est inclus dans les systèmes d'exploitation de type Unix et Unix

Ls : ls est une commande pour lister les fichiers informatiques dans les systèmes d'exploitation Unix et de type Unix. ls est spécifié par POSIX et la spécification UNIX unique

```
kurapika@DESKTOP-CD0UR15:/mnt/c/Users/KURAPIKA.DLL/desktop$ date
Thu Dec 24 13:45:06 +01 2020
kurapika@DESKTOP-CD0UR15:/mnt/c/Users/KURAPIKA.DLL/desktop$ cat
test
test
khali 1
khali 1
khalil123
khalil123
kurapika@DESKTOP-CD0UR15:/mnt/c/Users/KURAPIKA.DLL/desktop$ touch add.txt
kurapika@DESKTOP-CD0UR15:/mnt/c/Users/KURAPIKA.DLL/desktop$ ls
'$9K-DAY PROFIT FORMULA - Copy.pdf'
'$9K-DAY PROFIT FORMULA.pdf'
'10021275.txt'
'20226X54PBBVKW94.txt'
'Capture.JPG'
'Club Sport et Loisirs'
'DP'
'Face Mask Detection'
'Healing Body Meditations.epub'
'IN102 - rattrapage 2007 corrige.pdf'
'Ideal Blogger Template.xml'
'Khalil ELMAGHRAOUI-GI2.pdf'
'MANAL USA.pdf'
'Machine learning-stanford'
'Manal el maghraoui cv.pdf'
'New'
'New Microsoft Word Document.docx'
'New Text Document (3).txt'
'New Text Document.txt'
'New folder'
'New folder (4)'
'New folder (6)'
'Plan d'action Club Sport et Loisirs.docx'
'Ratt-GI-AD-19-20(1).pdf'
'Ratt-MN-19-20.pdf'
'Storm Blogger Template.xml'
'WATCHED.lnk'
'add.txt'
'code'
'controlsfx-9.0.0.jar'
'cristmas key words.docx'
'cv manal el maghraoui.pdf'
'desktop.ini'
'dwasa'
'développement des applications web.pdf'
'examen rattrapage- khalil elmaghraoui.pdf'
'fontawesomefx-commons-9.1.2.jar'
'fontawesomefx-fontawesome-4.7.0-9.1.2.jar'
'gi2'
'github.txt'
'javascript'
'khalil El Maghraoui XML.pdf'
'mama fl marikan.pdf'
'my xml documentation'
'mysqlclient-1.4.6-cp38-cp38-win32.whl'
'php_tp2'
'python'
's3'
'shopping - Shortcut.lnk'
'signature.pdf'
'tp1 LINUX.docx'
'xml'
'xml devoir.docx'
'~$1 LINUX.docx'
'~$UML_GI1.pptx'
'~$compta.docx'
'~$istmas key words.docx'
'~$1 devoir.docx'
'~$reau Club Sport et loisirs.docx'
'~$w Microsoft Word Document.docx'
```

ls -l : Pour afficher une longue liste, passez l'option -l à la commande ls. Cela produira des informations détaillées sur la liste des répertoires.

```
kurapika@DESKTOP-CD0UR15:/mnt/c/Users/KURAPIKA.DLL/desktop$ ls -l
total 48977
-rwxrwxrwx 1 root root 11791157 Nov 25 01:15 '$9K-DAY PROFIT FORMULA - Copy.pdf'
-rwxrwxrwx 1 root root 11791157 Nov 25 01:15 '$9K-DAY PROFIT FORMULA.pdf'
-rwxrwxrwx 1 root root 0 Dec 8 21:09 10021275.txt
-rwxrwxrwx 1 root root 0 Oct 22 16:33 20226X54PBBVKW94.txt
-rwxrwxrwx 1 root root 30646 Dec 24 00:49 Capture.JPG
drwxrwxrwx 1 root root 512 Nov 7 13:30 'Club Sport et loisir'
drwxrwxrwx 1 root root 512 Dec 22 15:05 DP
drwxrwxrwx 1 root root 512 Dec 13 21:55 'Face Mask Detection'
-r-xr-xr-x 1 root root 13370961 Mar 21 2020 'Healing Body Meditations.epub'
-rwxrwxrwx 1 root root 167507 Sep 22 12:01 'IN102 - rattrapage 2007 corrige.pdf'
-rwxrwxrwx 1 root root 407433 Dec 4 23:43 'Ideal Blogger Template.xml'
-rwxrwxrwx 1 root root 171875 Oct 15 16:03 'Khalil ELMAGHRAOUI-GI2.pdf'
-rwxrwxrwx 1 root root 95780 Oct 22 16:18 'MANAL USA.pdf'
drwxrwxrwx 1 root root 512 Nov 26 00:46 'Machine learning-stanford'
-rwxrwxrwx 1 root root 182036 Dec 4 18:03 'Manal el maghraoui cv.pdf'
drwxrwxrwx 1 root root 512 Dec 22 15:06 New
-rwxrwxrwx 1 root root 12288 Dec 3 21:46 'New Microsoft Word Document.docx'
-rwxrwxrwx 1 root root 49 Oct 17 00:45 'New Text Document (3).txt'
-rwxrwxrwx 1 root root 416 Dec 22 15:04 'New Text Document.txt'
drwxrwxrwx 1 root root 512 Oct 7 16:56 'New folder'
drwxrwxrwx 1 root root 512 Dec 7 23:34 'New folder (4)'
drwxrwxrwx 1 root root 512 Dec 13 14:48 'New folder (6)'
-rwxrwxrwx 1 root root 3332875 Dec 6 23:04 'Plan d'action Club Sport et Loisirs.docx'
-rwxrwxrwx 1 root root 45461 Sep 19 18:11 'Ratt-GI-AD-19-20(1).pdf'
-rwxrwxrwx 1 root root 43518 Sep 19 18:12 'Ratt-MN-19-20.pdf'
-rwxrwxrwx 1 root root 418532 Dec 9 16:41 'Storm Blogger Template.xml'
-rwxrwxrwx 1 root root 2308 Oct 22 17:16 WATCHED.lnk
-rwxrwxrwx 1 root root 0 Dec 24 13:51 add.txt
drwxrwxrwx 1 root root 512 Dec 14 15:10 Code
-rwxrwxrwx 1 root root 946412 Dec 6 18:33 controlsfx-9.0.0.jar
-rwxrwxrwx 1 root root 0 Nov 12 13:12 'cristmas key words.docx'
-rwxrwxrwx 1 root root 182054 Dec 4 18:06 'cv manal el maghraoui.pdf'
-rwxrwxrwx 1 root root 686 Aug 25 21:56 desktop.ini
drwxrwxrwx 1 root root 512 Dec 12 13:11 dwasa
-rwxrwxrwx 1 root root 718780 Sep 19 17:10 'développement des applications web.pdf'
-rwxrwxrwx 1 root root 3115412 Sep 24 23:08 'examen rattrapage- khalil elmaghraoui.pdf'
-rwxrwxrwx 1 root root 24064 Dec 11 20:40 fontawesomefx-commons-9.1.2.jar
-rwxrwxrwx 1 root root 137226 Dec 11 20:40 fontawesomefx-fontawesome-4.7.0-9.1.2.jar
drwxrwxrwx 1 root root 512 Nov 7 13:28 g12
-rwxrwxrwx 1 root root 404 Oct 12 16:35 github.txt
drwxrwxrwx 1 root root 512 Sep 20 13:05 javascript
-rwxrwxrwx 1 root root 667309 Nov 23 18:23 'khalil El Maghraoui XML.pdf'
-rwxrwxrwx 1 root root 240366 Nov 7 13:16 'mama fl marikan.pdf'
drwxrwxrwx 1 root root 512 Nov 7 13:44 my xml documentation
-rwxrwxrwx 1 root root 1241327 Oct 22 16:43 mysqlclient-1.4.6-cp38-cp38-win32.whl
drwxrwxrwx 1 root root 512 Apr 14 2020 php_tp2
drwxrwxrwx 1 root root 512 Dec 23 22:07 python
drwxrwxrwx 1 root root 512 Nov 15 13:28 s3
-rwxrwxrwx 1 root root 967 May 16 2020 'shopping - Shortcut.lnk'
-rwxrwxrwx 1 root root 511675 Dec 14 17:59 signature.pdf
-rwxrwxrwx 1 root root 52527 Dec 24 01:27 'tp1 LINUX.docx'
drwxrwxrwx 1 root root 512 Dec 12 13:18 xml
-rwxrwxrwx 1 root root 397858 Nov 22 01:34 'xml devoir.docx'
-rwxrwxrwx 1 root root 162 Dec 24 13:44 '~$1 LINUX.docx'
-rwxrwxrwx 1 root root 165 Sep 18 11:20 '~$UML_GI1.pptx'
-rwxrwxrwx 1 root root 162 Apr 12 2020 '~$compta.docx'
-rwxrwxrwx 1 root root 162 Nov 12 13:21 '~$istmas key words.docx'
-rwxrwxrwx 1 root root 162 Nov 23 14:14 '~$1 devoir.docx'
-rwxrwxrwx 1 root root 162 Nov 1 11:52 '~$reau Club Sport et loisirs.docx'
```

Dd : son but est de convertir et de copier des fichiers.

Man -k ls :


```

kurapika@DESKTOP-CD0UR15:/mnt/c/Users/KURAPIKA.DLL/desktop$ dd
s3
^C0+1 records in
0+0 records out
0 bytes copied, 25.5458 s, 0.0 kB/s

kurapika@DESKTOP-CD0UR15:/mnt/c/Users/KURAPIKA.DLL/desktop$ man -k ls
add-shell (8)      - add shells to the list of valid login shells
blockdev (8)      - call block device ioctls from the command line
credentials (7)    - process identifiers
dircolors (1)     - color setup for ls
eatmydata (1)     - transparently disable fsync() and other data-to-disk synchronization calls
false (1)         - do nothing, unsuccessfully
git-credential (1) - Retrieve and store user credentials
git-credential-cache-daemon (1) - Temporarily store user credentials in memory
git-credential-store (1) - Helper to store credentials on disk
git-difftool (1)  - Show changes using common diff tools
git-ls-files (1)  - Show information about files in the index and the working tree
git-ls-remote (1) - List references in a remote repository
git-ls-tree (1)   - List the contents of a tree object
git-mailsplit (1) - Simple UNIX mbox splitter program
git-mergetool (1) - Run merge conflict resolution tools to resolve merge conflicts
git-mktree (1)    - Build a tree-object from ls-tree formatted text
gitcredentials (7) - providing usernames and passwords to Git
grub-menulst2cfg (1) - transform legacy menu.lst into grub.cfg
initramfs-tools (7) - an introduction to writing scripts for mkinitramfs
intro (2)        - introduction to system calls
ip (8)          - show / manipulate routing, network devices, interfaces and tunnels
libvmttools (3)  - vmware shared library
logrotate (5)    - rotates, compresses, and mails system logs
logrotate (8)    - rotates, compresses, and mails system logs
logrotate.conf (5) - rotates, compresses, and mails system logs
ls (1)          - list directory contents
lsattr (1)       - list file attributes on a Linux second extended file system
lsb_release (1)  - print distribution-specific information
lsblk (8)        - list block devices
lscpu (1)        - display information about the CPU architecture
lshw (1)         - list hardware
lsinitramfs (8)  - list content of an initramfs image
lsipc (1)        - show information on IPC facilities currently employed in the system
lslocks (8)      - list local system locks
lslogins (1)     - display information about known users in the system
lsmem (1)        - list the ranges of available memory with their online status
lsmod (8)        - Show the status of modules in the Linux Kernel
lsns (8)         - list namespaces
lspci (8)        - list all PCI devices
lspgpot (1)      - extracts the ownertrust values from PGP keyrings and list them in GnuPG ownertrust format.
lsusb (8)        - list USB devices
luit (1)         - Locale and ISO 2022 support for Unicode terminals
lvm (8)          - LVM2 tools
man (1)          - an interface to the system reference manuals
md5sum.textutils (1) - compute and check MD5 message digest
tc-mpls (8)      - mpls manipulation module
nstat (8)        - network statistics tools.
ntfsls (8)       - list directory contents on an NTFS filesystem
ntfsprogs (8)    - tools for doing neat things with NTFS
openssl-s_client (1ssl) - SSL/TLS client program
openssl-s_server (1ssl) - SSL/TLS server program
openssl-s_time (1ssl) - SSL/TLS performance timing program
openssl-sess_id (1ssl) - SSL/TLS session handling utility
pacat (1)        - Play back or record raw or encoded audio streams on a PulseAudio sound server
pacmd (1)        - Reconfigure a PulseAudio sound server during runtime
pactl (1)        - Control a running PulseAudio sound server

```

Exercice 2 (Système de Gestion des Fichiers SGF) :

2.1

```
>:mkdir GI2
```

```
> cd GI2
```

2.2 :

```
> mkdir Linux Python
```

2.3 :

```
> mkdir Linux/TP1 Linux/TP2
```

2.4 :

```
> cp -R Linux/TP1 Linux/TP2 Python
```

2.5 :

```
> mkdir Linux/TP1/seance1 Linux/TP1/seance2
```

2.6 :

```
> touch Linux/TP1/seance1/exo1 Linux/TP1/seance1/exo2
```

2.7 :

```
> cp Linux/TP1/seance1/exo1 Linux/TP1/seance1/exo2 Python/TP2 .
```

2.8

```
> rmdir Python/TP1
```

2.9

```
> rmdir Python/TP2 (la commande ne fonctionne pas car le dossier est plein)
```

```
> rm -R TP2
```

2.10

```
> mv Linux/TP1/seance1/exo1 Linux/TP1/exo1
```

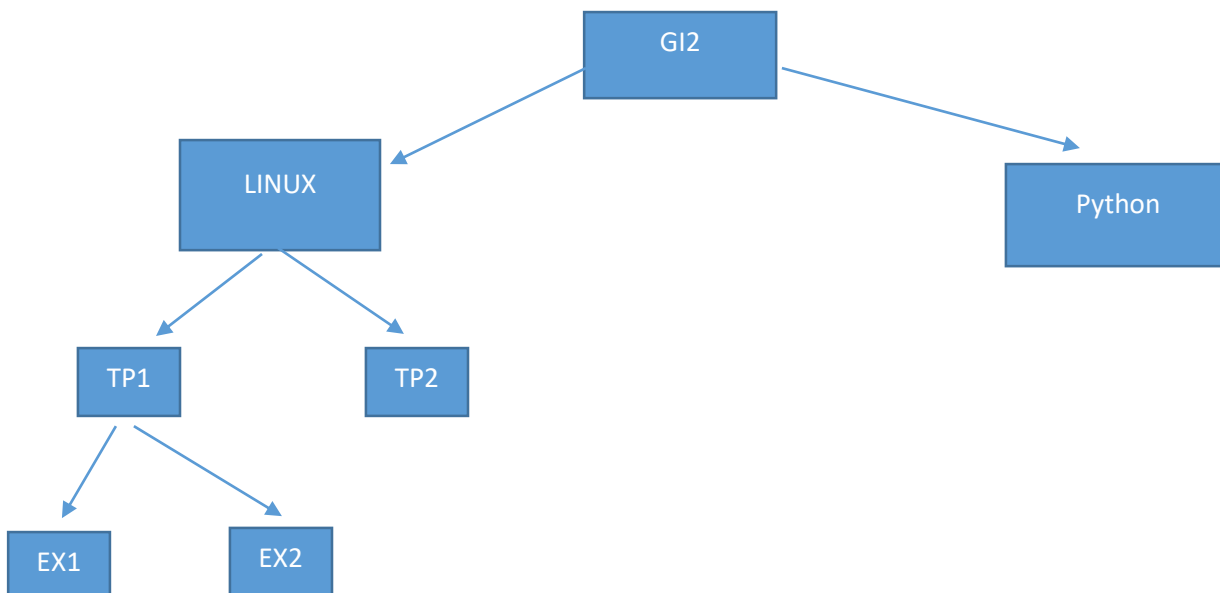
```
> rm -R Linux/TP1/seance1 Linux/TP1/seance2
```

2.11

```
> mv Linux/TP1/exo1 Linux/TP1/exercice1
```

```
> mv Linux/TP1/exo2 Linux/TP1/exercice2
```

```
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL$ cd desktop/
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop$ mkdir GI2
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop$ cd GI2
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ mkdir GI2/Linux GI2/Python
mkdir: cannot create directory 'GI2/Linux': No such file or directory
mkdir: cannot create directory 'GI2/Python': No such file or directory
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ mkdir Linux Python
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ mkdir Linux/TP1 Linux/TP2
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ cp -R
cp: missing file operand
Try 'cp --help' for more information.
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ cp -R
cp: missing file operand
Try 'cp --help' for more information.
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ cp -R Linux/TP1 Linux/TP2 Python
cp: target 'Python' is not a directory
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ cp -R Linux/TP1 Linux/TP2 Python
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ mkdir Linux/TP1/seance Linux/TP1/seance2
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ cp Linux/TP1/seance/exo1 Linux/TP1/seance2/exo2 Python/TP2
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ rmdir Python/TP1
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ rmdir Python/TP2
rmdir: failed to remove 'Python/TP2': Directory not empty
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ rm -R TP2
rm: cannot remove 'TP2': No such file or directory
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ rm -R Python/TP2
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ mv Linux/TP1/seance/exo1 Linux/TP1/exo1
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ rm -R Linux/TP1/seance Linux/TP1/seance2
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ mv Linux/TP1/exo1 Linux/TP1/exercice1
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ mv Linux/TP1/exo2 Linux/TP1/exercice2
mv: cannot stat 'Linux/TP1/exo2': No such file or directory
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ ls -R
.:
Linux Python
./Linux:
TP1 TP2
./Linux/TP1:
exercice1
./Linux/TP2:
./Python:
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$
```



Exercise 3 :

```
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL$ cd desktop/
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop$ mkdir GI2
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop$ cd GI2
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ mkdir GI2/Linux GI2/Python
mkdir: cannot create directory 'GI2/Linux': No such file or directory
mkdir: cannot create directory 'GI2/Python': No such file or directory
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ mkdir Linux Pyhton
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ mkdir Linux/TP1 Linux/TP2
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ cp -R
cp: missing file operand
Try 'cp --help' for more information.
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ cp -r
cp: missing file operand
Try 'cp --help' for more information.
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ cp -R Linux/TP1 Linux/TP2 Python
cp: target 'Python' is not a directory
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ cp -R Linux/TP1 Linux/TP2 Pyhton
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ mkdir Linux/TP1/seance Linux/TP1/seance2
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ cp Linux/TP1/seance/exo1 Linux/TP1/seance2/exo2 Pyhton/TP2
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ rmdir Pyhton/TP1
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ rmdir Pyhton/TP2
rmdir: failed to remove 'Pyhton/TP2': Directory not empty
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ rm -R TP2
rm: cannot remove 'TP2': No such file or directory
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ rm -R Pyhton/TP2
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ mv Linux/TP1/seance/exo1 Linux/TP1/exo1
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ rm -R Linux/TP1/seance Linux/TP1/seance2
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ mv Linux/TP1/exo1 Linux/TP1/exercice1
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ mv Linux/TP1/exo2 Linux/TP1/exercice2
mv: cannot stat 'Linux/TP1/exo2': No such file or directory
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$ ls -R
.:
Linux Python

./Linux:
TP1 TP2

./Linux/TP1:
exercice1

./Linux/TP2:

./Pyhton:
kurapika@DESKTOP-CD0UR15:/mnt/c/users/KURAPIKA.DLL/desktop/GI2$
```