

Labs - First Course

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Getting started with the shell

The cd command

The pwd command

The touch command

The mkdir command

The cp command

The rm / rmdir commands

The mv command

The file command

File Permission

The chmod command

root

root disconnection

passwd

su

root connection environment



User

Group management



Getting started with the shell

The ls command

- ▶ Read the 'ls' manual to explain the result of the following command:

To find the information in the man, type "/" and a string you want to find. To quit man, type 'q'

```
isen@name_s_client ~ $ ls -a -l -r -t /home/isen
```

```
isen@name_s_client ~ $ ls -alrt /home/isen
```

```
isen@name_s_client ~ $ ls -tral /home/isen
```

```
isen@name_s_client ~ $ ls -1 /home/isen
isen@name_s_client ~ $ ls -1a /home/isen
```



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- ▶ Some command allow you to 'concat' the argument. You can do the same with :

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- ▶ The order is not important for THIS command :

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isen@name_s_client ~ $ ls -tral /home/isen
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isen@name_s_client ~ $ ls -1 /home/isen
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```

- ▶ Compare this 2 command and explain the difference :

```
isen@name_s_client ~ $ ls -l /home/isen
```

```
isen@name_s_client ~ $ ls -1a /home/isen
```



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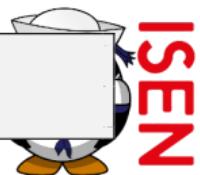
- ▶ The order is not important for THIS command :

```
isen@name_s_client ~ $ ls -tral /home/isen
```

- ▶ Compare this 2 command and explain the difference :

```
isen@name_s_client ~ $ ls -l /home/isen
```

```
isen@name_s_client ~ $ ls -la /home/isen
```



- ▶ Give the size of /bin/cat in a 'human' way (i.e. in KB, MB or GB depending on

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- ▶ Compare this 2 command and explain the difference :

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isen@name_s_client ~ $ ls -l /home/isen
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- ▶ Give the size of /bin/cat in a 'human' way (i.e. in KB, MB or GB depending on

The cd command

The cd command

► Read the simple 'cd' manual to explain the result for each following commands :

```
isen@name_s_client ~ $ cd .
isen@name_s_client ~ $ cd ..
isen@name_s_client /home $ cd /home/isen
isen@name_s_client ~ $ cd ../../
isen@name_s_client / $ cd ./home/isen/
isen@name_s_client ~ $ cd ../../..
isen@name_s_client / $ cd ../../var/log
isen@name_s_client /var/log $ cd ../../home/isen
isen@name_s_client ~ $ cd ../../isen/
isen@name_s_client ~ $ cd ../../isen/
isen@name_s_client ~ $ cd ../../tmp/.../etc/.../var/log/.../tmp/../../..../home/isen
```



The cd command

► Read the simple 'cd' manual to explain the result for each following commands :

```
isen@name_s_client ~ $ cd .
isen@name_s_client ~ $ cd ..
isen@name_s_client /home $ cd /home/isen
isen@name_s_client ~ $ cd ../..
isen@name_s_client / $ cd ./home/isen/
isen@name_s_client ~ $ cd ../../..
isen@name_s_client / $ cd ../../var/log
isen@name_s_client /var/log $ cd ../../home/isen
isen@name_s_client ~ $ cd ../../isen/
isen@name_s_client ~ $ cd ../../isen/
isen@name_s_client ~ $ cd ../../tmp/.../etc/.../var/log/.../tmp/../../..../home/isen
```

► In absolute path move into the /etc direcory



The cd command

► Read the simple 'cd' manual to explain the result for each following commands :

```
isen@name_s_client ~ $ cd .
isen@name_s_client ~ $ cd ..
isen@name_s_client /home $ cd /home/isen
isen@name_s_client ~ $ cd ../..
isen@name_s_client / $ cd ./home/isen/
isen@name_s_client ~ $ cd ../../..
isen@name_s_client / $ cd ../../var/log
isen@name_s_client /var/log $ cd ../../home/isen
isen@name_s_client ~ $ cd ../../isen/
isen@name_s_client ~ $ cd ../../isen/
isen@name_s_client ~ $ cd ../../tmp/.../etc/.../var/log/.../tmp/../../..../home/isen
```

► In absolute path move into the /etc directory

► In relative path go back in your home directory



The pwd command

The **pwd** command

- ▶ Type **pwd** and observed that the Prompt say ‘~’ and the output of the command is /home/isen



The **pwd** command

- ▶ Type **pwd** and observed that the Prompt say ‘~’ and the output of the command is /home/isen
- ▶ With **cd** change your directory to /tmp in absolute way



The **pwd** command

- ▶ Type **pwd** and observed that the Prompt say ‘~’ and the output of the command is /home/isen
- ▶ With **cd** change your directory to /tmp in absolute way
- ▶ Type **pwd** what did you observed in the prompt ?



The **pwd** command

- ▶ Type **pwd** and observed that the Prompt say ‘~’ and the output of the command is /home/isen
- ▶ With **cd** change your directory to /tmp in absolute way
- ▶ Type **pwd** what did you observed in the prompt ?
- ▶ Type **cd** with no argument. What happened ?



The **pwd** command

- ▶ Type **pwd** and observed that the Prompt say ‘~’ and the output of the command is /home/isen
- ▶ With **cd** change your directory to /tmp in absolute way
- ▶ Type **pwd** what did you observed in the prompt ?
- ▶ Type **cd** with no argument. What happened ?
- ▶ With **cd** change your directory to /tmp and type **cd ~isen ..** What happened ?



The touch command

The touch command

- ▶ change your direcory to /home/isen/Notes/C01



The touch command

- ▶ change your directory to /home/isen/Notes/C01
- ▶ With **pwd**, check you are in the good directory



The touch command

- ▶ change your directory to `/home/isen/Notes/C01`
- ▶ With **pwd**, check you are in the good directory
- ▶ With **touch** create the files `MyFirstFile` in `/home/isen/Notes/C01` with the absolute way



The touch command

- ▶ change your directory to /home/isen/Notes/C01
- ▶ With **pwd**, check you are in the good directory
- ▶ With **touch** create the files MyFirstFile in /home/isen/Notes/C01 with the absolute way
- ▶ With **touch** create the files MySecondFile in /home/isen/Notes/C01 with the relative way



The touch command

- ▶ change your directory to `/home/isen/Notes/C01`
- ▶ With **pwd**, check you are in the good directory
- ▶ With **touch** create the files `MyFirstFile` in `/home/isen/Notes/C01` with the absolute way
- ▶ With **touch** create the files `MySecondFile` in `/home/isen/Notes/C01` with the relative way
- ▶ With **stat** check the file `MyFirstFile`



The touch command

- ▶ change your directory to /home/isen/Notes/C01
- ▶ With **pwd**, check you are in the good directory
- ▶ With **touch** create the files MyFirstFile in /home/isen/Notes/C01 with the absolute way
- ▶ With **touch** create the files MySecondFile in /home/isen/Notes/C01 with the relative way
- ▶ With **stat** check the file MyFirstFile
- ▶ Read the 'touch' manual to change the modification time of MyFirstFile and check with **stat** to compare



The mkdir command

The `mkdir` command

- ▶ Create with **`mkdir`** the directory `/tmp/C01`



The mkdir command

- ▶ Create with **mkdir** the directory `/tmp/C01`
- ▶ Try to create the directory `'/tmp/TP01/sample'`, what is the message



The **mkdir** command

- ▶ Create with **mkdir** the directory `/tmp/C01`
- ▶ Try to create the directory `'/tmp/TP01/sample'`, what is the message
- ▶ Find in the man of **mkdir** the way to create this directory in one command and create the directory `'/tmp/TP01/sample'`



The cp command

The cp command

- ▶ Go back in your home directory with **cd**



The cp command

- ▶ Go back in your home directory with **cd**
- ▶ With the **cp** command, copy the file `/home/isen/Notes/C01/MyFirstFile` into `/tmp/TP01/sample/` with the absolute way



The cp command

- ▶ Go back in your home directory with **cd**
- ▶ With the **cp** command, copy the file `/home/isen/Notes/C01/MyFirstFile` into `/tmp/TP01/sample/` with the absolute way
- ▶ With the **cp** command, copy the file `/home/isen/Notes/C01/MySecondFile` into `/tmp/TP01/sample/` with the relative way



The cp command

- ▶ Go back in your home directory with **cd**
- ▶ With the **cp** command, copy the file `/home/isen/Notes/C01/MyFirstFile` into `/tmp/TP01/sample/` with the absolute way
- ▶ With the **cp** command, copy the file `/home/isen/Notes/C01/MySecondFile` into `/tmp/TP01/sample/` with the relative way
- ▶ With the **cp** command, copy the file `/etc/hostname` into `/tmp/TP01/sample/` with the absolute way and rename the target file to `MyHostName`



The cp command

- ▶ Go back in your home directory with **cd**
- ▶ With the **cp** command, copy the file `/home/isen/Notes/C01/MyFirstFile` into `/tmp/TP01/sample/` with the absolute way
- ▶ With the **cp** command, copy the file `/home/isen/Notes/C01/MySecondFile` into `/tmp/TP01/sample/` with the relative way
- ▶ With the **cp** command, copy the file `/etc/hostname` into `/tmp/TP01/sample/` with the absolute way and rename the target file to `MyHostName`
- ▶ Try to copy with the **cp** command the directory `/tmp/TP01/sample/` into your `/home/isen/Notes/C01/` directory. What is the message



The cp command

- ▶ Go back in your home directory with **cd**
- ▶ With the **cp** command, copy the file `/home/isen/Notes/C01/MyFirstFile` into `/tmp/TP01/sample/` with the absolute way
- ▶ With the **cp** command, copy the file `/home/isen/Notes/C01/MySecondFile` into `/tmp/TP01/sample/` with the relative way
- ▶ With the **cp** command, copy the file `/etc/hostname` into `/tmp/TP01/sample/` with the absolute way and rename the target file to `MyHostName`
- ▶ Try to copy with the **cp** command the directory `/tmp/TP01/sample/` into your `/home/isen/Notes/C01/` directory. What is the message
- ▶ Find in the man of **cp** the way to copy directory and the verbose option and



The rm / rmdir commands

The rm / rmdir commands

- ▶ With the **rm** command, delete the file /tmp/TP01/sample/MyFirstFile



The rm / rmdir commands

- ▶ With the **rm** command, delete the file /tmp/TP01/sample/MyFirstFile
- ▶ With the **rm** command, try to delete the directory /tmp/TP01/sample/



The rm / rmdir commands

- ▶ With the **rm** command, delete the file /tmp/TP01/sample/MyFirstFile
- ▶ With the **rm** command, try to delete the directory /tmp/TP01/sample/
- ▶ Find in the man of **rm** the way to delete directories and files recursively.

The mv command

The mv command

- ▶ With the **mv** command, move the file
`/home/isen/Notes/C01/sample/MyHostName` into `/home/isen/Notes/C01/` with
the absolute way



The mv command

- ▶ With the **mv** command, move the file
`/home/isen/Notes/C01/sample/MyHostName` into `/home/isen/Notes/C01/` with
the absolute way
- ▶ With the **mv** command, move the file `/home/isen/Notes/C01/MyHostName` into
`/home/isen/Notes/C01/sample/` with the absolute way and rename the target file
to `HostName`



The file command

The file command

With the **file** command check the file type of :



The file command

With the **file** command check the file type of :

- ▶ /
- ▶ /home/isen



The file command

With the **file** command check the file type of :

- ▶ /
- ▶ /home/isen
- ▶ /home/isen/Notes/C01/MyFirstFile



The file command

With the **file** command check the file type of :

- ▶ /
- ▶ /home/isen
- ▶ /home/isen/Notes/C01/MyFirstFile
- ▶ /usr/bin/uptime



The file command

With the **file** command check the file type of :

- ▶ /
- ▶ /home/isen
- ▶ /home/isen/Notes/C01/MyFirstFile
- ▶ /usr/bin/uptime
- ▶ /etc/init.d/ssh



File Permission

Files Rights

with the **ls** command and the option **-l -d** print the right of /home/isen/Notes/C01

- ▶ find in the man what is the **-d** option

with the **ls** command and the option **-l** print the right of
/home/isen/Notes/C01/MyFirstFile



Files Rights

with the **ls** command and the option **-l -d** print the right of /home/isen/Notes/C01

- ▶ find in the man what is the **-d** option
- ▶ who is the owner ?

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with the **ls** command and the option **-l -d** print the right of /home/isen/Notes/C01

- ▶ find in the man what is the **-d** option
- ▶ who is the owner ?
- ▶ what is the group ?

with the **ls** command and the option **-l** print the right of
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Files Rights

with the **ls** command and the option **-l -d** print the right of /home/isen/Notes/C01

- ▶ find in the man what is the **-d** option
- ▶ who is the owner ?
- ▶ what is the group ?
- ▶ Explain what is the read access for a directory

with the **ls** command and the option **-l** print the right of
/home/isen/Notes/C01/MyFirstFile



Files Rights

with the **ls** command and the option **-l -d** print the right of `/home/isen/Notes/C01`

- ▶ find in the man what is the **-d** option
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- ▶ Explain what is the read access for a directory
- ▶ Explain what is the write access for a directory

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- ▶ Explain what is the read access for a directory
- ▶ Explain what is the write access for a directory
- ▶ Explain what is the execute access for a directory

with the **ls** command and the option **-l** print the right of
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- ▶ find in the man what is the **-d** option
- ▶ who is the owner ?
- ▶ what is the group ?
- ▶ Explain what is the read access for a directory
- ▶ Explain what is the write access for a directory
- ▶ Explain what is the execute access for a directory
- ▶ Is anybody can read the contain of the directory ? (other)

with the **ls** command and the option **-l** print the right of
`/home/isen/Notes/C01/MyFirstFile`



Files Rights

with the **ls** command and the option **-l -d** print the right of `/home/isen/Notes/C01`

- ▶ find in the man what is the **-d** option
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- ▶ Explain what is the execute access for a directory
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with the **ls** command and the option **-l** print the right of
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- ▶ who is the owner ?



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with the **ls** command and the option **-l -d** print the right of `/home/isen/Notes/C01`

- ▶ find in the man what is the **-d** option
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with the **ls** command and the option **-l** print the right of
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- ▶ who is the owner ?



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- ▶ find in the man what is the **-d** option
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- ▶ Explain what is the read access for a directory
- ▶ Explain what is the write access for a directory
- ▶ Explain what is the execute access for a directory
- ▶ Is anybody can read the contain of the directory ? (other)

with the **ls** command and the option **-l** print the right of
`/home/isen/Notes/C01/MyFirstFile`

- ▶ who is the owner ?



Files Rights

with the **ls** command and the option **-l -d** print the right of `/home/isen/Notes/C01`

- ▶ find in the man what is the **-d** option
- ▶ who is the owner ?
- ▶ what is the group ?
- ▶ Explain what is the read access for a directory
- ▶ Explain what is the write access for a directory
- ▶ Explain what is the execute access for a directory
- ▶ Is anybody can read the contain of the directory ? (other)

with the **ls** command and the option **-l** print the right of
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- ▶ who is the owner ?



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- ▶ find in the man what is the **-d** option
- ▶ who is the owner ?
- ▶ what is the group ?
- ▶ Explain what is the read access for a directory
- ▶ Explain what is the write access for a directory
- ▶ Explain what is the execute access for a directory
- ▶ Is anybody can read the contain of the directory ? (other)

with the **ls** command and the option **-l** print the right of
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- ▶ who is the owner ?



Files Rights

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- ▶ find in the man what is the **-d** option
- ▶ who is the owner ?
- ▶ what is the group ?
- ▶ Explain what is the read access for a directory
- ▶ Explain what is the write access for a directory
- ▶ Explain what is the execute access for a directory
- ▶ Is anybody can read the contain of the directory ? (other)

with the **ls** command and the option **-l** print the right of
`/home/isen/Notes/C01/MyFirstFile`

- ▶ who is the owner ?



The grep command

The **grep** command searches for PATTERNS in each FILE.

With the command **grep** find the string DEFAULT_HOME in the file /etc/login.defs



UMASK

The UMASK determines the settings of a mask that controls how file permissions are set for newly created files.

- ▶ to get current UMASk : `umask`



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The UMASK determines the settings of a mask that controls how file permissions are set for newly created files.

- ▶ to get current UMASk : `umask`
- ▶ convert the right of `/home/isen/Notes/C01/MyFirstFile` in octal mode



UMASK

The UMASK determines the settings of a mask that controls how file permissions are set for newly created files.

- ▶ to get current UMASK : `umask`
- ▶ convert the right of `/home/isen/Notes/C01/MyFirstFile` in octal mode
- ▶ Analyse the octal mode and the UMASK we find.



The chmod command

octal chmod

- ▶ With **ls -l** print the right of `/home/isen/Notes/C01/MyFirstFile`

Change with the **chmod** command in **octal** mode the right of `/home/isen/Notes/C01/MyFirstFile` to :



octal chmod

- ▶ With **ls -l** print the right of `/home/isen/Notes/C01/MyFirstFile`

Change with the **chmod** command in **octal** mode the right of `/home/isen/Notes/C01/MyFirstFile` to :

- ▶ owner : all right



octal chmod

- ▶ With **ls -l** print the right of `/home/isen/Notes/C01/MyFirstFile`

Change with the **chmod** command in **octal** mode the right of `/home/isen/Notes/C01/MyFirstFile` to :

- ▶ owner : all right
- ▶ group : nothing



octal chmod

- ▶ With **ls -l** print the right of `/home/isen/Notes/C01/MyFirstFile`

Change with the **chmod** command in **octal** mode the right of `/home/isen/Notes/C01/MyFirstFile` to :

- ▶ owner : all right
- ▶ group : nothing
- ▶ other : nothing



letter chmod

- With **ls -l** print the right of `/home/isen/Notes/C01/MyFirstFile`

Change with the **chmod** command in **letter** mode the right of `/home/isen/Notes/C01/MyFirstFile` to :

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letter chmod

- ▶ With **ls -l** print the right of `/home/isen/Notes/C01/MyFirstFile`

Change with the **chmod** command in **letter** mode the right of `/home/isen/Notes/C01/MyFirstFile` to :

- ▶ owner : delete the execution right

Change with the **chmod** command in **letter** mode the right of `/home/isen/Notes/C01/MyFirstFile` to :



letter chmod

- ▶ With **ls -l** print the right of `/home/isen/Notes/C01/MyFirstFile`

Change with the **chmod** command in **letter** mode the right of `/home/isen/Notes/C01/MyFirstFile` to :

- ▶ owner : delete the execution right
- ▶ group : no change

Change with the **chmod** command in **letter** mode the right of `/home/isen/Notes/C01/MyFirstFile` to :



letter chmod

- ▶ With **ls -l** print the right of `/home/isen/Notes/C01/MyFirstFile`

Change with the **chmod** command in **letter** mode the right of `/home/isen/Notes/C01/MyFirstFile` to :

- ▶ owner : delete the execution right
- ▶ group : no change
- ▶ other : no change

Change with the **chmod** command in **letter** mode the right of `/home/isen/Notes/C01/MyFirstFile` to :



letter chmod

- ▶ With **ls -l** print the right of /home/isen/Notes/C01/MyFirstFile

Change with the **chmod** command in **letter** mode the right of /home/isen/Notes/C01/MyFirstFile to :

- ▶ owner : delete the execution right
- ▶ group : no change
- ▶ other : no change
- ▶ With **ls -l** print the right of /home/isen/Notes/C01/MyFirstFile

Change with the **chmod** command in **letter** mode the right of /home/isen/Notes/C01/MyFirstFile to :



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- ▶ With **ls -l** print the right of /home/isen/Notes/C01/MyFirstFile

Change with the **chmod** command in **letter** mode the right of /home/isen/Notes/C01/MyFirstFile to :

- ▶ owner : delete the execution right
- ▶ group : no change
- ▶ other : no change
- ▶ With **ls -l** print the right of /home/isen/Notes/C01/MyFirstFile

Change with the **chmod** command in **letter** mode the right of /home/isen/Notes/C01/MyFirstFile to :

- ▶ owner : add execution right



letter chmod

- ▶ With **ls -l** print the right of /home/isen/Notes/C01/MyFirstFile

Change with the **chmod** command in **letter** mode the right of /home/isen/Notes/C01/MyFirstFile to :

- ▶ owner : delete the execution right
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- ▶ With **ls -l** print the right of /home/isen/Notes/C01/MyFirstFile

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root



sudo

Some commands can only be used by the root user

Usually the root access is secured. Here, we have voluntarily facilitated access to this account for the purposes of practical work.

The user isen is allowed to use sudo like root without passwd

BE CAREFUL !!! BE CAREFUL !!! BE CAREFUL !!!

the **sudo** command allows you to do command in substitution of another user (Switch User DO)

- ▶ type and explain the command **whoami**



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root disconnection



root disconnection

You can disconnect from the root account with the **exit** command or with the key combination : “CTRL+D”



passwd



passwd

- ▶ with the command **passwd** change the password of isen with the isen account



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su



SU

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root connection environment

root connection environement

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isen@name_s_client ~ $ sudo su
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- ▶ Once logged in, what directory are you in? Why ?

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isen@name_s_client ~ $ sudo su root
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root@name_s_client ~ # su isen
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User



cat command

The **cat** command concatenate files and print on the standard output

- ▶ With the **cat** command and the /etc/passwd file, are there other accounts on this machine?



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- ▶ With the **cat** command and the /etc/passwd file, are there other accounts on this machine?
- ▶ With the **grep** command and the /etc/passwd file How to list all the accounts who can connect ?
- ▶ With the **cat** command and the file /etc/shadow, how many users can login using a password?



useradd command

The **useradd** command can create user with CLI.

- ▶ Create an **eleve1** account with the command and define a password for it.



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Group management

Group management

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- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “eleve1”. You have to use the command **micro**

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micro is a simple terminal text editor
to have some help type : micro --help
to save and quit a file you are editing use the key combination :

[ALT+s]
```

- ▶ Using the “usermod” command, do the same for the “eleve2” user.
- ▶ With the command **groupdel**, delete the groups “eleve1” and “eleve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “eleve1” and “eleve2” accounts belong?
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