

Labs - First Course

Astier Guillaume, Lefebvre Loic, Morit Luca

26/09/2025



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 environnement



User

Group management



Getting started with the shell



The ls command

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

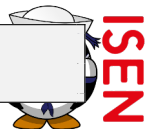
To find the information in the man, type "/" and a string you want to find. To quit man, type 'q'

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



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'

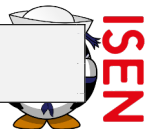
```
isen@name_s_client ~ $ ls -a -l -r -t /home/isen
```

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

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

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

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



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
```

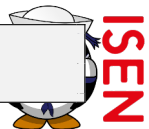
- ▶ Some command allow you to 'concat' the argument. You can do the same with :

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

- ▶ The order is not important for THIS command :

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

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



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
```

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

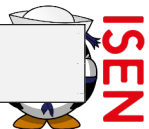
```
isen@name_s_client ~ $ ls -alrt /home/isen
```

- ▶ 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
```



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
```

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

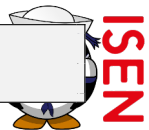
```
isen@name_s_client ~ $ ls -alrt /home/isen
```

- ▶ 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

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
```

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

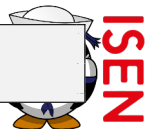
```
isen@name_s_client ~ $ ls -alrt /home/isen
```

- ▶ 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

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

- In absolute path move into the /etc direcorey



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 direcorey
- 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 direcorey to `/home/isen/Notes/C01`



The touch command

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



The touch command

- ▶ change your direcorey 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 direcorey 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 direcorey 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 ?

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 ?
- ▶ what is the group ?

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 ?
- ▶ 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
- ▶ 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

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 ?
- ▶ 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

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 ?
- ▶ 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
- ▶ 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 ?



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 `/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 `/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 `/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 `/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 `/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`



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



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 :

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

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 :



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 :

- ▶ 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
- ▶ 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
- ▶ group : add read and write 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
- ▶ 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
- ▶ group : add read and write 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
- ▶ 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
- ▶ group : add read and write 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
- ▶ 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
- ▶ group : add read and write right



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 used sudo like root without passwd

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

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

▶ type and explain the command **whoami**



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 used sudo like root without passwd

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

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

- ▶ type and explain the command **whoami**
- ▶ with the command **sudo**, execute the command **whoami** from isen



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 used sudo like root without passwd

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

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

- ▶ type and explain the command **whoami**
- ▶ with the command **sudo**, execute the command **whoami** from isen
- ▶ with the command **sudo**, execute the command **touch /tmp/TestFile** from isen



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 used sudo like root without passwd

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

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

- ▶ type and explain the command **whoami**
- ▶ with the command **sudo**, execute the command **whoami** from isen
- ▶ with the command **sudo**, execute the command **touch /tmp/TestFile** from isen
- ▶ with the command **ls -l** what are the rights of the file /tmp/TestFile



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 used sudo like root without passwd

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

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

- ▶ type and explain the command **whoami**
- ▶ with the command **sudo**, execute the command **whoami** from isen
- ▶ with the command **sudo**, execute the command **touch /tmp/TestFile** from isen
- ▶ with the command **ls -l** what are the rights of the file /tmp/TestFile



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



passwd

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



passwd

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



su



- ▶ with the **su** command without sudo, connect to the root account from isen



- ▶ with the **su** command without sudo, connect to the root account from isen
- ▶ Once logged in, what directory are you in? Why ?



- ▶ with the **su** command without sudo, connect to the root account from isen
- ▶ Once logged in, what directory are you in? Why ?
- ▶ with the **su - root** command without sudo, connect to the root account from isen



- ▶ with the **su** command without sudo, connect to the root account from isen
- ▶ Once logged in, what directory are you in? Why ?
- ▶ with the **su - root** command without sudo, connect to the root account from isen
- ▶ Once logged in, what directory are you in? Why ?



root connection environnement



root connection environnement

```
isen@name_s_client ~ $ sudo su
```

► Once logged in, what directory are you in? Why ?

```
isen@name_s_client ~ $ sudo su root
```

```
root@name_s_client ~ # su isen
```

```
root@name_s_client ~ # su - isen
```



root connection environnement

```
isen@name_s_client ~ $ sudo su
```

► Once logged in, what directory are you in? Why ?

```
isen@name_s_client ~ $ sudo su root
```

► Once logged in, what directory are you in? Why ?

```
root@name_s_client ~ # su isen
```

```
root@name_s_client ~ # su - isen
```



root connection environnement

```
isen@name_s_client ~ $ sudo su
```

► Once logged in, what directory are you in? Why ?

```
isen@name_s_client ~ $ sudo su root
```

► Once logged in, what directory are you in? Why ?

```
root@name_s_client ~ # su isen
```

► Once logged in, what directory are you in? Why ?

```
root@name_s_client ~ # su - isen
```



root connection environnement

```
isen@name_s_client ~ $ sudo su
```

► Once logged in, what directory are you in? Why ?

```
isen@name_s_client ~ $ sudo su root
```

► Once logged in, what directory are you in? Why ?

```
root@name_s_client ~ # su isen
```

► Once logged in, what directory are you in? Why ?

```
root@name_s_client ~ # su - isen
```

► Once logged in, what directory are you in? Why ?



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?



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?
- ▶ With the **grep** command and the `/etc/passwd` file How to list all the accounts who can connect ?



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?
- ▶ 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.



useradd command

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

- ▶ Create an **eleve1** account with the command and define a password for it.
- ▶ Connect with this user, what do you notice?



useradd command

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

- ▶ Create an **eleve1** account with the command and define a password for it.
- ▶ Connect with this user, what do you notice?
- ▶ In **root**, create the home directory of **eleve1** with the commands **mkdir** and **chown**



useradd command

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

- ▶ Create an **eleve1** account with the command and define a password for it.
- ▶ Connect with this user, what do you notice?
- ▶ In **root**, create the home directory of **eleve1** with the commands **mkdir** and **chown**
- ▶ Create a new **eleve2** account in order to automatically create your **home directory**.



useradd command

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

- ▶ Create an **eleve1** account with the command and define a password for it.
- ▶ Connect with this user, what do you notice?
- ▶ In **root**, create the home directory of **eleve1** with the commands **mkdir** and **chown**
- ▶ Create a new **eleve2** account in order to automatically create your **home directory**.
- ▶ Compare the contents of the **eleve1** and **eleve2** user directories. (don't forget to print the hidden files)



useradd command

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

- ▶ Create an **eleve1** account with the command and define a password for it.
- ▶ Connect with this user, what do you notice?
- ▶ In **root**, create the home directory of **eleve1** with the commands **mkdir** and **chown**
- ▶ Create a new **eleve2** account in order to automatically create your **home directory**.
- ▶ Compare the contents of the **eleve1** and **eleve2** user directories. (don't forget to print the hidden files)
- ▶ Now compare with the contents of the `/etc/skel` directory.



useradd command

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

- ▶ Create an **eleve1** account with the command and define a password for it.
- ▶ Connect with this user, what do you notice?
- ▶ In **root**, create the home directory of **eleve1** with the commands **mkdir** and **chown**
- ▶ Create a new **eleve2** account in order to automatically create your **home directory**.
- ▶ Compare the contents of the **eleve1** and **eleve2** user directories. (don't forget to print the hidden files)
- ▶ Now compare with the contents of the `/etc/skel` directory.
- ▶ Create a new **eleve3** account in order to automatically create your **home directory** and the shell of connection.



useradd command

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

- ▶ Create an **eleve1** account with the command and define a password for it.
- ▶ Connect with this user, what do you notice?
- ▶ In **root**, create the home directory of **eleve1** with the commands **mkdir** and **chown**
- ▶ Create a new **eleve2** account in order to automatically create your **home directory**.
- ▶ Compare the contents of the **eleve1** and **eleve2** user directories. (don't forget to print the hidden files)
- ▶ Now compare with the contents of the `/etc/skel` directory.
- ▶ Create a new **eleve3** account in order to automatically create your **home directory** and the shell of connection.



Group management



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?

```
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]
```



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.

```
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]
```



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.

```
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]
```



Group management

- ▶ To which groups do the “elevel” and “evelev2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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]
```



Group management

- ▶ To which groups do the “elevel” and “evelev2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “evelev2” user.



Group management

- ▶ To which groups do the “elevel” and “evelev2” accounts belong?
- ▶ With the **groupadd** command, create an “evelevs” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “evelevs” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “evelev2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “evelev2”.



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “evelev2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “evelev2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “evelev2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “evelev2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “evelev2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “evelev2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “evelev2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “evelev2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “evelev2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “evele2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “evele2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “evele2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary



Group management

- ▶ To which groups do the “elevel” and “eveve2” accounts belong?
- ▶ With the **groupadd** command, create an “eleves” group with a GID equal to 600.
- ▶ Create a group “teachers” with a GID of 700.
- ▶ By modifying the appropriate file, put the group “eleves” in the primary group of the user “elevel”. You have to use the command **micro**

```
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 “eveve2” user.
- ▶ With the command **groupdel**, delete the groups “elevel” and “eveve2”.
- ▶ Create an account “prof1” having as primary group “teachers” and as secondary

