

Verificación pre-silicio Primavera 2022

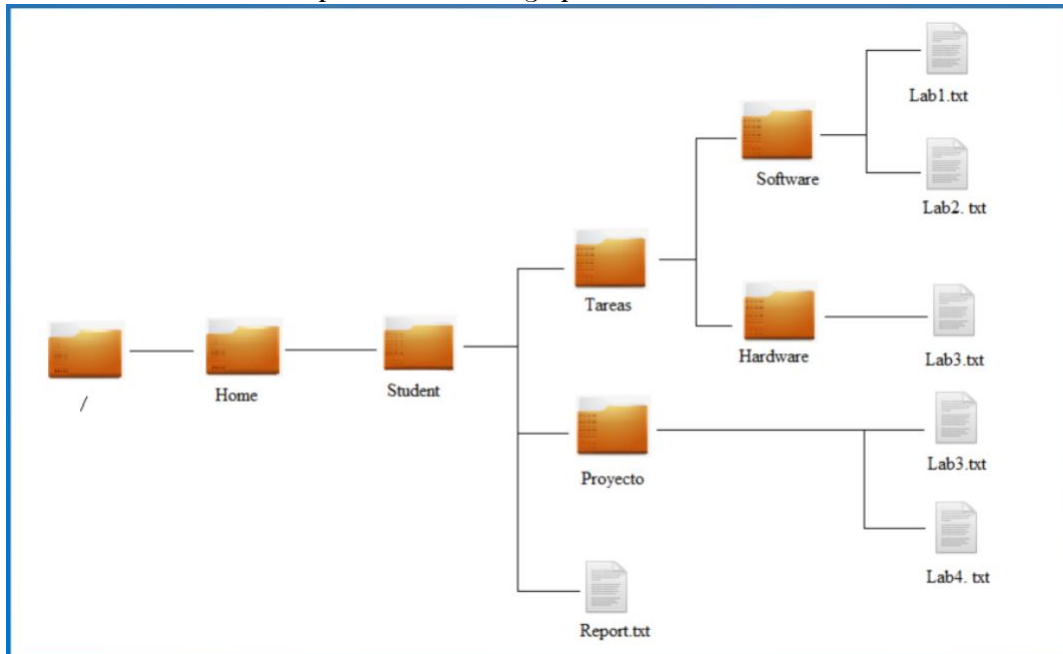
Lab#2: Linux introduction



Professor: **Rogelio Hernández Hernández**
Work made by: **Christian Aaron Ortega Blanco**
Hermosillo, Son. 24 de mayo de 2022.

Follow the points of the activity in order to understand the basics of the Linux interface.

1. Make the file tree that represents the image presented in class.



Procedure:

Enter in the home directory

```
chris@DESKTOP-8LCLCKD /  
$ cd /home
```

List the content on /home

```
chris@DESKTOP-8LCLCKD  
$ ls  
Student
```

Enter into the student directory

```
chris@DESKTOP-8LCLCKD  
$ cd Student
```



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Create directions Tareas & Proyecto

```
chris@DESKTOP-8LCLCKD  
$ mkdir Tareas  
  
chris@DESKTOP-8LCLCKD  
$ mkdir Proyecto
```

Generate a txt file called Report.txt

```
chris@DESKTOP-8LCLCKD  
$ touch Report.txt
```

list the resulting content

```
chris@DESKTOP-8LCLCKD /cygdrive/c/cygwin64/home/Student  
$ ls  
Proyecto  Report.txt  Tareas
```

Enter to /Tareas

```
chris@DESKTOP-8LCLCKD  
$ cd Tareas
```

Create directions Software & Hardware

```
chris@DESKTOP-8LCLCKD  
$ mkdir Software  
  
chris@DESKTOP-8LCLCKD  
$ mkdir Hardware
```

List the result

```
chris@DESKTOP-8LCLCKD /cygdrive/c/cygwin64/home/Student/Tareas  
$ ls  
Hardware  Software
```

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Go to Software

```
chris@DESKTOP-8LCLCKD  
$ cd Software
```

Create the files Lab1.txt & Lab2.txt

```
chris@DESKTOP-8LCLCKD  
$ touch Lab1.txt  
  
chris@DESKTOP-8LCLCKD  
$ touch Lab2.txt
```

List the result

```
chris@DESKTOP-8LCLCKD /cygdrive/c/cygwin64/home/Student/Tareas/Software  
$ ls  
Lab1.txt  Lab2.txt
```

Go one step back from Software

```
chris@DESKTOP-8LCLCKD  
$ cd ..
```

Enter in the Hardware direction

```
chris@DESKTOP-8LCLCKD  
$ cd Hardware
```

Create a Lab3 file

```
chris@DESKTOP-8LCLCKD  
$ touch Lab3.txt
```

Go home

```
chris@DESKTOP-8LCLCKD  
$ cd /home
```

Go Student

```
chris@DESKTOP-8LCLCKD /home  
$ cd Student
```

Go project

```
chris@DESKTOP-8LCLCKD /home/Student  
$ cd Proyecto
```



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Create Lab3 & Lab4 files.

```
chris@DESKTOP-8LCLCKD
$ touch Lab3.txt

chris@DESKTOP-8LCLCKD
$ touch Lab4.txt
```



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2. Do the following steps
 - A. Use relative and absolute paths to navigate inside the tree.
cd /home/.. to navigate with absolute paths.
cd [present directions] to navigate with relative paths.

```
chris@DESKTOP-8LCLCKD /home
$ cd Student/Tareas/Hardware

chris@DESKTOP-8LCLCKD /home/Student/Tareas/Hardware
$ cd /home/Student/Proyecto

chris@DESKTOP-8LCLCKD /home/Student/Proyecto
$
```

- B. Copy hardware directory into project directory.
cp -r to copy entire directories.

```
chris@DESKTOP-8LCLCKD /home/Student
$ cd Tareas

chris@DESKTOP-8LCLCKD /home/Student/Tareas
$ ls
Hardware  Software

chris@DESKTOP-8LCLCKD /home/Student/Tareas
$ cp -r Hardware /home/Student/Proyecto
```



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```
chris@DESKTOP-8LCLCKD /home/Student/Proyecto
$ ls
Hardware  Lab3.txt  Lab4.txt

chris@DESKTOP-8LCLCKD /home/Student/Proyecto
$ cd Hardware

chris@DESKTOP-8LCLCKD /home/Student/Proyecto/Hardware
$ ls
Lab3.txt
```

- C. Delete the original hardware directory.
rm -r to remove entire directories.

```
chris@DESKTOP-8LCLCKD /home/Student/Tareas
$ ls
Hardware  Software

chris@DESKTOP-8LCLCKD /home/Student/Tareas
$ rm -r Hardware

chris@DESKTOP-8LCLCKD /home/Student/Tareas
$ ls
Software
```

- D. Go back to home directory and list the present files.

```
chris@DESKTOP-8LCLCKD /home/Student/Tareas
$ cd /home

chris@DESKTOP-8LCLCKD /home
$ ls
Student
```

- E. Now list all files.
Ls -a to list all directions on the current path.

```
chris@DESKTOP-8LCLCKD /home
$ ls -a
.  ..  Student
```

- F. View the content of the student directory in detail without changing the working



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directory.

```
chris@DESKTOP-8LCLCKD /home
$ ls -R
.:
Student

./Student:
Proyecto Report.txt Tareas

./Student/Proyecto:
Hardware Lab3.txt Lab4.txt

./Student/Proyecto/Hardware:
Lab3.txt

./Student/Tareas:
Software

./Student/Tareas/Software:
Lab1.txt Lab2.txt
```

- G. View the tree of files contained in Software with Absolut path

```
chris@DESKTOP-8LCLCKD /home/Student/Proyecto
$ ls -R /home/Student/Tareas/Software
/home/Student/Tareas/Software:
Lab1.txt Lab2.txt
```

3. Use 'man' command for looking information about these commands and their options.



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```
/home/Student/Proyecto
CAT(1) User Commands

NAME
    cat - concatenate files and print on the standard output

SYNOPSIS
    cat [OPTION]... [FILE]...

DESCRIPTION
    Concatenate FILE(s) to standard output.

    With no FILE, or when FILE is -, read standard input.

    -A, --show-all
        equivalent to -vET

    -b, --number-nonblank
        number nonempty output lines, overrides -n

    -e
        equivalent to -vE

    -E, --show-ends
        display $ at end of each line

    -n, --number
        number all output lines

    -s, --squeeze-blank
        suppress repeated empty output lines

    -t
        equivalent to -vT

    -T, --show-tabs
        display TAB characters as ^I

    -u
        (ignored)

    -v, --show-nonprinting
        use ^ and M- notation, except for LFD and TAB

    --help display this help and exit

    --version
        output version information and exit

EXAMPLES
    cat f - g
        output f's contents, then standard input, then g's contents.

    cat
        Copy standard input to standard output.

AUTHOR
    Written by Torbjorn Granlund and Richard M. Stallman.

REPORTING BUGS
    GNU coreutils online help: <http://www.gnu.org/software/coreutils/>
    Report cat translation bugs to <http://translationproject.org/team/>

SEE ALSO
    tac(1)

    Full documentation at: <http://www.gnu.org/software/coreutils/cat>
    or available locally via: info '(coreutils) cat invocation'

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GNU coreutils 8.26 CAT(1) November 2016
~
```


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```
/home/Student/Proyecto
UNLINK(1) User Commands

NAME
  unlink - call the unlink function to remove the specified file

SYNOPSIS
  unlink FILE
  unlink OPTION

DESCRIPTION
  Call the unlink function to remove the specified FILE.

  --help display this help and exit

  --version
    output version information and exit

AUTHOR
  written by Michael Stone.

REPORTING BUGS
  GNU coreutils online help: <http://www.gnu.org/software/coreutils/>
  Report unlink translation bugs to <http://translationproject.org/team/>

SEE ALSO
  unlink(2)

  Full documentation at: <http://www.gnu.org/software/coreutils/unlink>
  or available locally via: info '(coreutils) unlink invocation'

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GNU coreutils 8.26 November 2016
~
```

```
PWD(1) User Commands PWD(1)

NAME
  pwd - print name of current/working directory

SYNOPSIS
  pwd [OPTION]...

DESCRIPTION
  Print the full filename of the current working directory.

  -L, --logical
    use PWD from environment, even if it contains symlinks

  -P, --physical
    avoid all symlinks

  --help display this help and exit

  --version
    output version information and exit

  If no option is specified, -P is assumed.

  NOTE: your shell may have its own version of pwd, which usually supersedes the version described here. Please refer to your shell's documentation for details about the options it supports.

AUTHOR
  written by Jim Meyering.

REPORTING BUGS
  GNU coreutils online help: <http://www.gnu.org/software/coreutils/>
  Report pwd translation bugs to <http://translationproject.org/team/>

SEE ALSO
  getcwd(3)

  Full documentation at: <http://www.gnu.org/software/coreutils/pwd>
  or available locally via: info '(coreutils) pwd invocation'

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GNU coreutils 8.26 November 2016
Manual page pwd(1) line 1/47 (END) (press h for help or q to quit)
```