

Week Report 4

Practice from the presentation The Linux File system:

Practice 1

```
1: evreynoso@cis106: /  ✓  
evreynoso@cis106:/$ pwd  
/  
evreynoso@cis106:/$ cd home/evreynoso/Downloads/  
evreynoso@cis106:~/Downloads$ pwd  
/home/evreynoso/Downloads  
evreynoso@cis106:~/Downloads$ cd ..  
evreynoso@cis106:~$ pwd  
/home/evreynoso  
evreynoso@cis106:~$ cd ../../  
evreynoso@cis106:/$ pwd  
/  
evreynoso@cis106:/$ cd  
evreynoso@cis106:~$ cd -  
/  
evreynoso@cis106:/$ pwd  
/  
evreynoso@cis106:/$
```

Practice 2

```

evreynoso@cis106:~$ wget https://cis106.com/assets/practicels.tar.xz
--2023-10-27 16:57:08-- https://cis106.com/assets/practicels.tar.xz
Resolving cis106.com (cis106.com)... 185.199.108.153
Connecting to cis106.com (cis106.com)|185.199.108.153|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2229212 (2.1M) [application/x-xz]
Saving to: 'practicels.tar.xz'

practicels.tar.xz  100%[=====>]  2.12M  11.5MB/s   in 0.2s

2023-10-27 16:57:09 (11.5 MB/s) - 'practicels.tar.xz' saved [2229212/2229212]

evreynoso@cis106:~$ tar Jxf practicels.tar.xz
evreynoso@cis106:~$ cd practicels/
evreynoso@cis106:~/practicels$ ls
book.txt      history-debian.pdf  movie.mp4      song.mp3      tux-penguin.gif
countries.xml  homework.docx      people.csv     tux-nobg.png
evreynoso@cis106:~/practicels$ ls -a
.      countries.xml      movie.mp4      tux-nobg.png
..     history-debian.pdf people.csv     tux-penguin.gif
book.txt homework.docx      song.mp3
evreynoso@cis106:~/practicels$

```

```

evreynoso@cis106:~/practicels$ ls -l
total 2932
-rw-rw-r-- 1 evreynoso evreynoso  1043 feb 27  2022 book.txt
-rw-rw-r-- 1 evreynoso evreynoso 23972 feb 27  2022 countries.xml
-rw-rw-r-- 1 evreynoso evreynoso 163057 feb 27  2022 history-debian.pdf
-rw-rw-r-- 1 evreynoso evreynoso 111303 feb 22  2022 homework.docx
-rw-rw-r-- 1 evreynoso evreynoso 1570024 feb 27  2022 movie.mp4
-rw-rw-r-- 1 evreynoso evreynoso 284042 feb 27  2022 people.csv
-rw-rw-r-- 1 evreynoso evreynoso 764176 feb 27  2022 song.mp3
-rw-rw-r-- 1 evreynoso evreynoso 21314 feb 27  2022 tux-nobg.png
-rw-rw-r-- 1 evreynoso evreynoso 44299 ene 31  2020 tux-penguin.gif
evreynoso@cis106:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 evreynoso evreynoso 1.1K feb 27  2022 book.txt
-rw-rw-r-- 1 evreynoso evreynoso 24K feb 27  2022 countries.xml
-rw-rw-r-- 1 evreynoso evreynoso 160K feb 27  2022 history-debian.pdf
-rw-rw-r-- 1 evreynoso evreynoso 109K feb 22  2022 homework.docx
-rw-rw-r-- 1 evreynoso evreynoso 1.5M feb 27  2022 movie.mp4
-rw-rw-r-- 1 evreynoso evreynoso 278K feb 27  2022 people.csv
-rw-rw-r-- 1 evreynoso evreynoso 747K feb 27  2022 song.mp3
-rw-rw-r-- 1 evreynoso evreynoso 21K feb 27  2022 tux-nobg.png
-rw-rw-r-- 1 evreynoso evreynoso 44K ene 31  2020 tux-penguin.gif
evreynoso@cis106:~/practicels$

```

```
evreynoso@cis106:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 evreynoso evreynoso 24K feb 27 2022 countries.xml
-rw-rw-r-- 1 evreynoso evreynoso 278K feb 27 2022 people.csv
-rw-rw-r-- 1 evreynoso evreynoso 747K feb 27 2022 song.mp3
-rw-rw-r-- 1 evreynoso evreynoso 1.5M feb 27 2022 movie.mp4
-rw-rw-r-- 1 evreynoso evreynoso 160K feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 evreynoso evreynoso 21K feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 evreynoso evreynoso 1.1K feb 27 2022 book.txt
-rw-rw-r-- 1 evreynoso evreynoso 109K feb 22 2022 homework.docx
-rw-rw-r-- 1 evreynoso evreynoso 44K ene 31 2020 tux-penguin.gif
evreynoso@cis106:~/practicels$ ls -lhGS
total 2.9M
-rw-rw-r-- 1 1.5M feb 27 2022 movie.mp4
-rw-rw-r-- 1 747K feb 27 2022 song.mp3
-rw-rw-r-- 1 278K feb 27 2022 people.csv
-rw-rw-r-- 1 160K feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 109K feb 22 2022 homework.docx
-rw-rw-r-- 1 44K ene 31 2020 tux-penguin.gif
-rw-rw-r-- 1 24K feb 27 2022 countries.xml
-rw-rw-r-- 1 21K feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 1.1K feb 27 2022 book.txt
evreynoso@cis106:~/practicels$
```

```
evreynoso@cis106:~/practicels$ ls -mr
tux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx,
history-debian.pdf, countries.xml, book.txt
evreynoso@cis106:~/practicels$ ls -IX
book.txt      history-debian.pdf  movie.mp4  song.mp3      tux-penguin.gif
countries.xml homework.docx       people.csv tux-nobg.png
evreynoso@cis106:~/practicels$
```

Practice 3

```

evreynoso@cis106:~$ pwd
/home/evreynoso
evreynoso@cis106:~$ cd
evreynoso@cis106:~$ cd /
evreynoso@cis106:/$ cd usr/share/themes
evreynoso@cis106:/usr/share/themes$ cd ../../
evreynoso@cis106:/usr$ ls -A ~
.bash_history  .gitconfig      .ssh
.bash_logout   .gnupg          .sudo_as_admin_successful
.bashrc        Imágenes        Templates
.cache         lab4files       ubuntu
cis106         .lessht        .vboxclient-clipboard-tty2-control.pid
.cis106.png    .local          .vboxclient-clipboard-tty2-service.pid
.claws-mail    Mail            .vboxclient-draganddrop-tty2-control.pid
.config        Music           .vboxclient-draganddrop-tty2-service.pid
Descargas     .pam_environment .vboxclient-hostversion-tty2-control.pid
Desktop       Pictures        .vboxclient-seamless-tty2-control.pid
Documentos    .pki            .vboxclient-seamless-tty2-service.pid
Documents     practicels      .vboxclient-vmvga-session-tty2-control.pid
.dotnet        practicels.tar.xz .vboxclient-vmvga-session-tty2-service.pid
Downloads     .profile        Videos
Escritorio    Public          .vscode
.fonts        snap
evreynoso@cis106:/usr$

```

```

1. evreynoso@cis106: ~
evreynoso@cis106:~$ ls -rR ~/cis106/
/home/evreynoso/cis106/:
WeeksReports labs CheatSheets

/home/evreynoso/cis106/WeeksReports:
wr4.practice3.png  wr4.practice2.2.png  wr4.md
wr4.practice2.png  wr4.practice2.1.png  'wr3.pdf'
wr4.practice2.3.png wr4.practice1.png    'wr3.md'

/home/evreynoso/cis106/labs:
lab4 lab3 lab2 lab1

/home/evreynoso/cis106/labs/lab4:
lab4.pdf  lab4.5.1.png  lab4.4.3.png  lab4.2.3.png  lab4.2.1png
lab4.md   lab4.4.5.png  lab4.4.2.png  lab4.2.2.png  lab4.1.png
lab4.5.2.png lab4.4.4.png  lab4.4.1.png  lab4.2.2.nextpart.png lab4.1.2.png

/home/evreynoso/cis106/labs/lab3:
q2.1.png q1.1.png LibreOffice.pdf Libreimpress.odp lab3.pdf lab3.md

/home/evreynoso/cis106/labs/lab2:
Screenshot_9.png Screenshot_6.png Screenshot_10.png lab2.md
Screenshot_7.png Screenshot_5.png lab2.pdf

/home/evreynoso/cis106/labs/lab1:
whatisubuntu.txt  what-is-ubuntu.pdf  johndoe.jpeg
what_is_ubuntu_submission.pdf ubuntu-logo.png johndoeinfo.txt

```



```

1: evreynoso@cis106: ~ ▾

evreynoso@cis106:~$ pwd
/home/evreynoso
evreynoso@cis106:~$ ls -lh ~
total 2.2M
drwxrwxr-x 6 evreynoso evreynoso 4.0K oct 12 23:21 cis106
drwxr-xr-x 2 evreynoso evreynoso 4.0K sep 24 02:03 Descargas
drwxr-xr-x 2 evreynoso evreynoso 4.0K oct 12 23:21 Desktop
drwxr-xr-x 2 evreynoso evreynoso 4.0K oct 9 02:34 Documentos
drwxr-xr-x 2 evreynoso evreynoso 4.0K oct 10 19:39 Documents
drwxr-xr-x 2 evreynoso evreynoso 4.0K oct 23 22:59 Downloads
drwxr-xr-x 3 evreynoso evreynoso 4.0K oct 9 04:18 Escritorio
drwxr-xr-x 2 evreynoso evreynoso 4.0K oct 10 19:42 Imágenes
drwxrwxr-x 2 evreynoso evreynoso 4.0K feb 22 2022 lab4files
drwx----- 7 evreynoso evreynoso 4.0K oct 12 01:35 Mail
drwxr-xr-x 2 evreynoso evreynoso 4.0K oct 10 19:39 Music
drwxr-xr-x 2 evreynoso evreynoso 4.0K oct 12 00:26 Pictures
drwxrwxr-x 2 evreynoso evreynoso 4.0K feb 27 2022 practicels
-rw-rw-r-- 1 evreynoso evreynoso 2.2M oct 14 11:22 practicels.tar.xz
drwxr-xr-x 2 evreynoso evreynoso 4.0K oct 10 19:39 Public
drwx----- 5 evreynoso evreynoso 4.0K sep 24 02:04 snap
drwxr-xr-x 2 evreynoso evreynoso 4.0K oct 10 19:39 Templates
drwxrwxr-x 3 evreynoso evreynoso 4.0K sep 25 01:04 ubuntu
drwxr-xr-x 2 evreynoso evreynoso 4.0K oct 10 19:39 Videos
evreynoso@cis106:~$

```

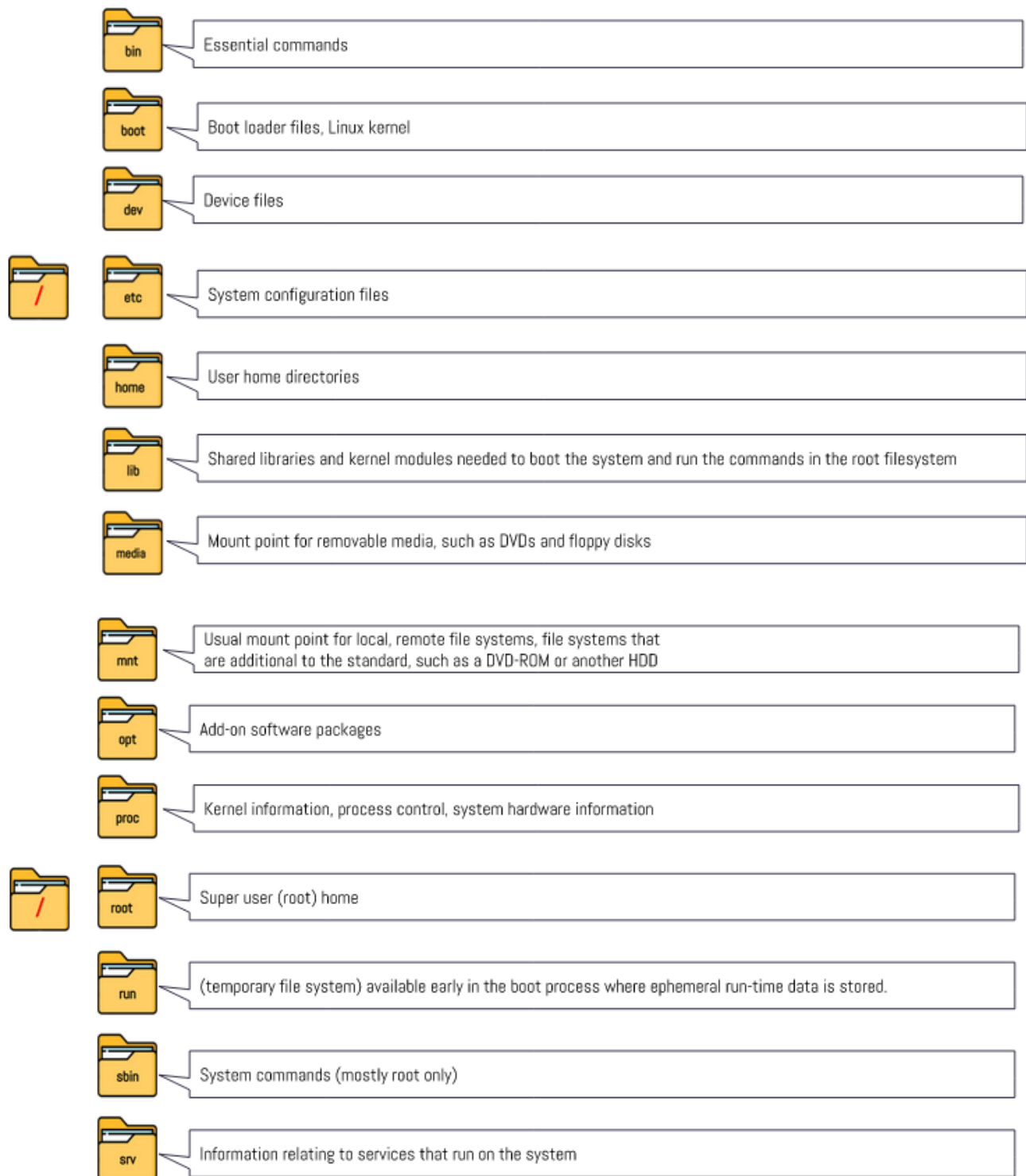
```

1: evreynoso@cis106: ~ ▾

evreynoso@cis106:~$ ls -lgG --full-time ~
total 2252
drwxrwxr-x 6 4096 2023-10-12 23:21:46.409266308 -0400 cis106
drwxr-xr-x 2 4096 2023-09-24 02:03:32.556643327 -0400 Descargas
drwxr-xr-x 2 4096 2023-10-12 23:21:46.409266308 -0400 Desktop
drwxr-xr-x 2 4096 2023-10-09 02:34:06.446081454 -0400 Documentos
drwxr-xr-x 2 4096 2023-10-10 19:39:14.004127927 -0400 Documents
drwxr-xr-x 2 4096 2023-10-23 22:59:11.526343377 -0400 Downloads
drwxr-xr-x 3 4096 2023-10-09 04:18:59.274081454 -0400 Escritorio
drwxr-xr-x 2 4096 2023-10-10 19:42:27.503329850 -0400 Imágenes
drwxrwxr-x 2 4096 2022-02-22 14:18:06.000000000 -0500 lab4files
drwx----- 7 4096 2023-10-12 01:35:38.454481319 -0400 Mail
drwxr-xr-x 2 4096 2023-10-10 19:39:14.004127927 -0400 Music
drwxr-xr-x 2 4096 2023-10-12 00:26:09.290940342 -0400 Pictures
drwxrwxr-x 2 4096 2022-02-27 13:46:18.000000000 -0500 practicels
-rw-rw-r-- 1 2229212 2023-10-14 11:22:44.000000000 -0400 practicels.tar.xz
drwxr-xr-x 2 4096 2023-10-10 19:39:14.000129926 -0400 Public
drwx----- 5 4096 2023-09-24 02:04:03.864289330 -0400 snap
drwxr-xr-x 2 4096 2023-10-10 19:39:14.000129926 -0400 Templates
drwxrwxr-x 3 4096 2023-09-25 01:04:37.485353470 -0400 ubuntu
drwxr-xr-x 2 4096 2023-10-10 19:39:14.008125927 -0400 Videos
evreynoso@cis106:~$

```

The Linux File system directories and their purpose:



All the commands for navigating the filesystem:

Command	What it does	Syntax	Example
<code>pwd</code>	Print the full filename of the current working directory.	<code>pwd [OPTION]...</code>	<code>pwd</code>
<code>cd</code>	Command for change directory.	<code>cd Directory_name</code>	<code>cd /home/</code>
<code>ls</code>	List information about the files (the current directory by default).	<code>ls [OPTION]...</code> <code>[FILE]...</code>	<code>ls -l /home</code>

Basic terminology

- **File system:** *The way files are stored and organized*
- **Current directory:** *is the directory where commands and file operations are currently executed in a file system.*
- **parent directory:** *a directory that contains more folders subdirectories*
- **the difference between your home directory and the home directory:** *"Your Home Directory" refers to the home directory associated with the currently logged in user. and "The Home Directory" is a more general reference to the concept of home directories on the system*
- **pathname:** *a pathname is a string that specifies the location of a file or directory within the file system.*
- **relative path:** *the location of a file relative to the current working directory*
- **absolute path:** *the location of a file or directory from the root directory*