## Notes 4

Commands used for navigating the file system.

# File System

Definition:

The way files are stored and organized.

Usage:

Used to organize our directory in the linux file system.

Examples:

/home/,/root/,/bin/

## Pathname

Definition:

Indicates the location of the file in the filesystem (like an address).

Usage:

/home/+/user/+/pathname/

**Examples:** 

/home/mauricio/Downloads/

## Absolute Path

Definition:

The location of a file starting at the root of the file system.

Usage:

/home/+/user/+/pathname/+filename.ext

Examples:

/home/mauricio/Downloads/song3.mp3

## Relative Path

#### Definition:

The location of a file starting from the current working directory or a directory that is located inside the current working directory.

Usage:

/pathname/+filename.ext

**Examples:** 

/Downloads/song3.mp3

# Difference between YOUR HOME directory and THE HOME directory

Definition:

**YOUR HOME** directory refers as the user's personal directory, meanwhile **THE HOME** directory contains all users' home directory.

Usage:

/home/+/username/ for **YOUR HOME**. /~/ you can use the tilde character to navigate **THE HOME** directory.

**Examples:** 

/home/mauricio/home

# Parent Directory

Definition:

A directory containing one or more directories and files.

Usage:

/+/home/+/user/ (if necessary)

**Examples:** 

/home/user (which can be the parent directory of "Downloads")

# Child Directory or Subdirectory

Definition:

A child directory or subdirectory is a directory inside another directory.

#### Usage:

/home/+/user/+/pathname/

#### Examples:

/home/mauricio/Downloads

## Bash special characters

#### Definition:

Special characters are function like commands that tell the shell to perform a specific action without having to type the complete command.

### Usage:

~!...

#### **Examples:**

~ represents the current users home directory. ! used for repeating command from the history.

## **Environment Variables**

#### Definition:

Environment variables sotre values of a user's environment and can be used in commands in the shell. These values can be unique to the users' environment which makes them ideal when using the computer.

#### Usage:

\$+Environment Variable

### **Examples:**

\$USER = Stores the current's user username. \$HOME = Stores the absolute path of the current's user home directory.

### User defined variables

#### Definition:

User-defined variables are created by the user and assigned values using the assignment operator (=).

#### Usage:

name of variable + = + any name you want it to display

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name=John Doe

Why do we need to use \$ with variables in bash shell scripting?

Definition:

Used for accessing the value stored in a variable in Bash.

Usage:

\$+User defined variable

Examples:

name="John" "\$name" will display the the variable name with its assigned value.