notes2.md 2024-03-07

Notes 2: The Linux FS

- Presentation
- article

Each of the commands used for navigating the file system

Here is an example from the previous notes! Use the same format for the commands to navigate the file system!

Echo

Definition:

Display a line of text

Usage

```
echo + option + string
```

Examples:

- Display a line of text without the new line
 - echo -n "hello world"
- Display a line of text that includes a horizontal tab
 - echo -e "\thello world"
- Display 2 lines of text in a single echo command
 - echo -e "Line 1\nLine2"
- Display 2 lines of text in a single echo command, with the second line starting with a tab
 - echo -e "Line 1\n\tLine 2"
- Display 2 lines of text in a single echo command that starts with a tab
 - echo -e "\tLine 1\tLine 2"

Definitions of the following terms:

- File system
 - The way files are stored and organized.
- pathname
 - Part of a file in a filesystem that operates like an adress. It indicates the location of a file in the filesystem.
- Absolute path
 - The location of a file starting at the root of the filesystem.
- Relative path
 - The location of a file starting from the current working directory or a directory that is located inside the current directory.
- The difference between YOUR HOME directory and THE HOME directory

notes2.md 2024-03-07

• Your home directory is refers to the user's directory and the home directory is located in the root.

parent directory

• A directory containing one or more directories and files.

child directory or subdirectory

 A better name for this is a subdirectory or subfolder. This is a directory inside another directory.

Bash special characters

- single period
- 2 consecutive periods
- tilde character
- one forward slash
- hyphen-minus
- hash or number sign
- single exclamation mark
- 2 consecutive exclamaton marks

environment variables

- \$USER
- \$HOME
- \$PWD
- \$OLDPWD

· user defined variables

• Created by the user and exist only in the script and subshell that runs the script. They allow you to temporarily store data and use it throughout the script.

• Why do we need use \$ for referencing the value of a variable (using a variable) in a shell script

• The dollar sign is needed so that the shell can distinguish between regular text and variable names. When the shell encounters the dollar sign, it knows that it is for a variable and needs to be replaced with a value.