

T02-01. OS

Linux

0. Require

- Estimate time: 2 days
- Raise any questions when problem occurs

1. Concept

- Terminal & Shell
 - [Linux Command Line tutorial](#)
 - [Linux Command Line Cheatsheet](#)
 - [The linux command line for beginners](#)
 - [Basic Command \(Video\)](#)
 - [Basic Command \(Docs\)](#)
 - [Bash, Zsh & Fish](#)
 - [Terminal emulator](#)
 - [Install zsh on ubuntu \(Can use on another debian-base distros\)](#)
 - [Install fish on ubuntu \(Can use on another debian-base distros\)](#)
- [Linux Directory Structure](#)
- [Linux permission](#)
 - [File permission](#)

2. Exercise

a. Research

- Learn about basic linux command, includes:
 - apt
 - sudo
 - ls, cd, mkdir, touch,...
 - tail, head,...
 - chmod
 - >, >> command
 - symlink (ln command)
 - ...
- Learn about concept: Permission, run command from file.
- Install other terminals than the default terminal.
- Install other shell than the default shell.
- Neovim.
- File permission.

b. Practice

Environment

1. Install other terminal/shell than the default.
2. Do some job with shell:
 - a. install **neofetch**.
 - b. install **neovim**.
 - c. create new directory name: homework.
 - d. create new file name `system_information` in homework directory.
 - e. Write down the neofetch information into `system_information`.
 - f. create directory name `system` in homework directory.
 - g. move file `system_information` into `system` folder.
 - h. duplicate `system` folder.
 - i. set new folder name `archived`.
 - j. create new directory name: `script` into `system`.
 - k. create new file name `echo`
 - l. write some `echo` command into `echo` file with **neovim**.
 - m. set permission `execute` for `echo` file.
 - n. run `echo` file.

- o. create new folder name `command_meaning` in `system` folder.
- p. writedown the user manual of any command (`man command`) you learn into file. (Ex: The `ls` manual command will be written to the file name `ls`). **Automatic this step will get big bonus point**
- q. Move the `command_meaning` folder to archived folder.

Advanced homework:

- Write a bash file to install all necessary tools, includes:
 - Update latest package via "Package manager"(apt)
 - Terminal (yakuake/tmux)
 - Shell (Zsh/Fish)
 - Git
 - Text editor
 - Browser
 - Zulip
 - Ibus-bamboo
 - ...

Use parallel is a bonus point