## Introduction to Linux, I

Introduction to Programming

EE231002

Oct. 4, 2021

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## Power On a PC

- Power on a PC
- Select the first options
  - Or wait for 10 seconds
  - The lastest version of CentOs Linux will start





• Login using your account and password



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# Open a Terminal

To open a terminal, use the Applications menu on the top-left corner
 Applications -> System Tools -> Terminal



# Open a Terminal, II

- A terminal accepts and processes commands
  - Multiple terminals can be opened



# Open a Terminal, III

- Set terminal width to 80 characters
  - Terminal -> 1. 80 x 24



# Change Password

- To change password: yppasswd
- Type in the original password



• Choose a password that is easy to remember and difficult to break



### Directory

- Right after you logged-in, you are at your home directory.
- pwd: print working directory



[u102061251@ws38 ~]\$ mkdir C\_program [u102061251@ws38 ~]\$ ls C\_program [u102061251@ws38 C\_program]\$ cd C\_program [u102061251@ws38 C\_program]\$ pwd /home/u102/u102061251/C\_program [u102061251@ws38 C\_program]\$ []

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# cp and ls

• Continue to create directory for lab01

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• cp: copy files and directories

```
[u102061251@ws38 lab01]$ cp ~ee2310/lab01.pdf .
[u102061251@ws38 lab01]$ ls
lab01.pdf
[u102061251@ws38 lab01]$ []
```

• 1s: list directory content



#### mv and rm

• General linux command syntax

COMMAND [OPTION1] [OPTION2] [ARGUMENT1] [ARGUMENT2] ···

- cp: copy files and directories
  - Syntax: cp SOURCE ··· DIRECTORY
  - Purpose: copy SOURCE or multiple SOURCE(s) to DIRECTORY
- mv: move a file to a different name
  - Can move files and directories also
  - Syntax: mv SOURCE DIRECTORY

• rm: remove a file from a directory



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# Special Directories

- Linux file structure
  - : current directory
  - ··· : directory one-level up
  - $\overline{\sim}$ : home directory





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## Special Directories – Usages

• Example of using special directories



• Note that a file path can consist of multi-levels.

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| Command  | Usage          | Comments                        |
|----------|----------------|---------------------------------|
| yppasswd | yppasswd       | Change password.                |
| mkdir    | mkdir dir      | Create a directory dir.         |
| cd       | cd dir         | Change to directory dir.        |
| pwd      | pwd 2 sta 2    | Show current working directory. |
| ls       | ls g           | List current directory.         |
| rmdir    | rmdir dir 🐝    | Remove directory dir.           |
| rm       | rm file 7      | Remove file file.               |
| ср       | cp file1 file2 | Copy file1 to file2.            |
|          | cp file dir    | Copy file to directory dir.     |
| mv       | mv file1 file2 | Rename file1 to file2.          |
|          | mv file dir 🖤  | Move file to directory dir.     |

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#### Logout

- Please make sure to logout of the PC after class
  - Use the menu on the top right of the screen.

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### Workstation Rules

- 使用規則
  - 1. 請勿攜帶飲料、食物進入。
  - 2. 離開時請確實 logout, 關機關電源。

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# Quick Start for Lab01

- login
- open a terminal then in that terminal
  - \$ yppasswd
  - \$ mkdir C\_program
  - \$ cd C\_program
  - \$ mkdir lab01
  - \$ cd lab01
  - \$ cp ~ee2310/lab01/\*
  - \$ evince linux1.pdf &
  - \$ evince vim1.pdf &
  - \$ evince lab01.pdf &
- After reviewing those materials, you can start working on your lab01.c.

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