Command Line Interface:
mastering the terminal and its tools
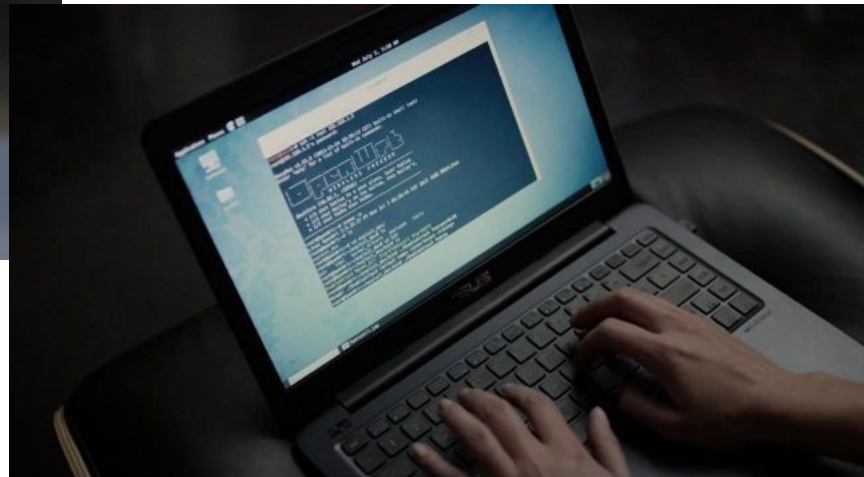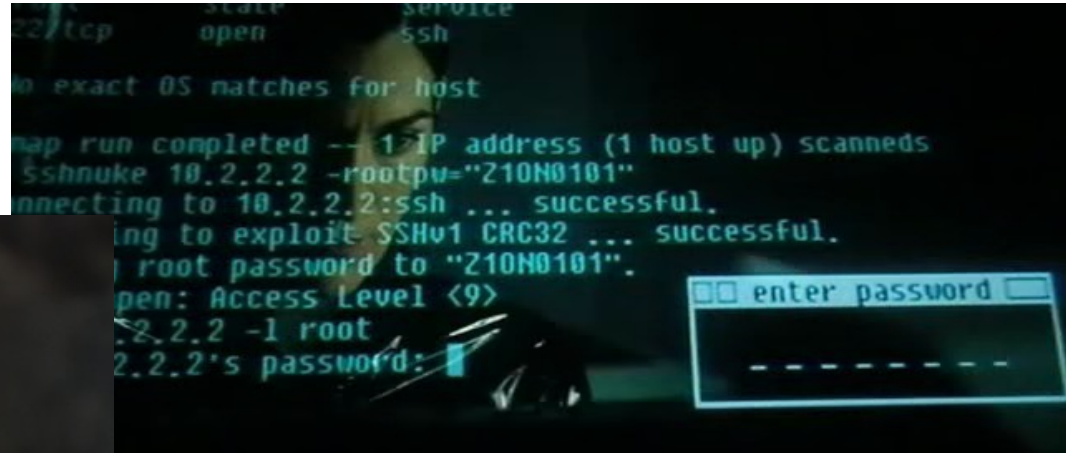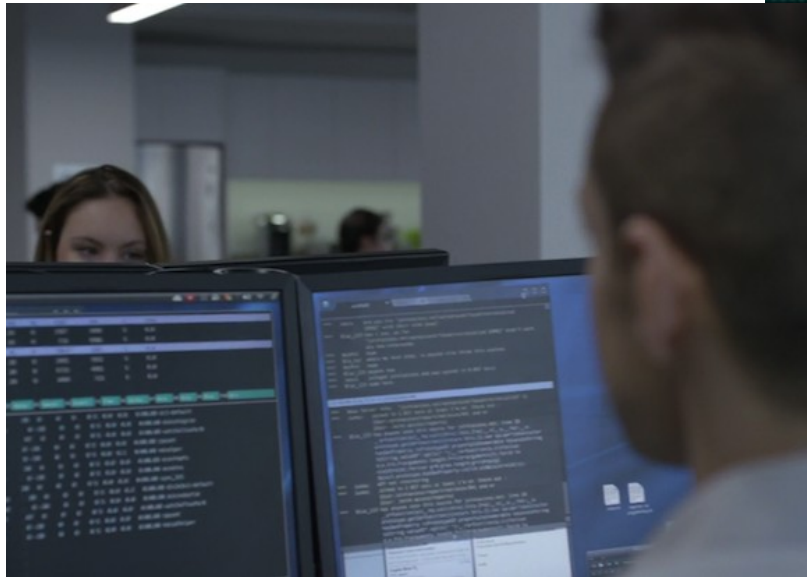
The Command Line Interface

- ## An Interface
  - Enables interaction between the computer and the user
    - User give orders to the computer
    - Computer displays results to the user

- ## Command Line
  - All interactions are done through text
    - User write commands (orders) through the keyboard
    - Computer display results in text format
  - No button, no menu, … the mouse is not used

```
cunche@snoopy:/proc/tty$ ls -l
total 0
dr-x------ 2 root root 0 sept. 16 14:05 driver
-r--r--r-- 1 root root 0 sept. 16 14:05 drivers
dr-xr-xr-x 2 root root 0 sept. 16 14:05 ldisc
-r--r--r-- 1 root root 0 sept. 16 14:05 ldiscs
cunche@snoopy:/proc/tty$ 
```

The Command Line Interface

- As seen in Hacker movies / TV shows

The Command Line Interface

- ## What is a command ? Ex: `ls -l document.txt`
  - The name of the command : **ls**
  - Followed by (optional)
    - **-l** : enable long print option
    - **document.txt** : name of a file

- ## Writing and executing a command
  - Type the command using the keyboard
  - Press **<enter>** to execute the command

- ## Commands for everything
  - Create a directory, rename/copy a file, compress/extract archives, read/edit text file

- ## See ***Command Line Reference* document** for basic commands and examples

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The terminal

- ## Terminal: a program implementing the CLI (command line interface)
  - Available on all system (GNU/Linux, MacOS, Windows …)
  - *xterm, terminator, qterminal ….*