

Cal State Fullerton

# CPSC 254

Software Development With Open Source  
Systems

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# Download And Install Linux

1. Download
2. Installing Linux
  - a. Download appropriate version of Ubuntu:  
<https://ubuntu.com/download/desktop>
  - b. Install on Virtual Box (Very similar for VMware)
    - i. Move download to an appropriate folder
    - ii. In Virtual Box, click Machine -New
    - iii. Point to correct folder
    - iv. Create a Hard Disk (VDI) at least 16 GB Dynamically Allocated
    - v. Settings
      1. System-Processors-2 or more
      2. Display – Vbox SVGA
      3. Network-Bridged
    - vi. Add appropriate location of downloaded file - Start

1. Navigating Linux depends somewhat on the version:

a. Demo Ubuntu GUI

i. Applications on the left

ii. Settings

1. Install a printer

iii. File Manager

1. How to use

a. Access to Windows drives

b. Discuss file system

c. Show important files

i. /etc.

ii. Passwd

iii. Shadow

iv. Grub

v. Home

vi. Var/log

iv. A few other apps

1. How to install an existing app

2. How to install a foreign app

3. How to use terminal ctrl-alt-f1 thru f6

4. How to exit back to gui ctrl-alt-f7

1. Navigating command line
  - a. Demo navigation commands
    - i. cd
    - ii. pwd
      1. . and ..
    - iii. ls, ls-l, ls -a includes hidden files
      1. explain meaning of results of ls -l
      2. explain . and ..
  - b. Demo file commands
    - i. How to make a file
      1. Vi or similar editor
      2. cat, less
      3. Copy an existing file cp
      4. touch makes an empty file or changes timestamp on existing file
      5. Remove, move files – rm
      6. Remove directories rmdir
      7. Change permissions on a file chmod
        - a. Explain octal system
      8. Change owner chown
      9. cmp – compare 2 files

a. Other commands

- i. Chkconfig
- ii. Crontab
- iii. ftp
- iv. gzip
- v. ifconfig
- vi. kill
- vii. nslookup
- viii. su
- ix. who, whoami