

# INSTALLING (UBUNTU) LINUX IN VIRTUALBOX

---

## Steps:

1. Download required files
2. Install VirtualBox
3. Install a virtual machine
4. Install (Ubuntu) Linux on to the virtual machine

## What you need:

A computer, internet connection, time and patience.

**Step 1.** This step will take the longest, both file can be downloaded at the same time but this may slow down the downloads. This step differs on what operating system you are currently using.

- 1) Go to <https://www.virtualbox.org/wiki/Downloads>
- 2) Download and save the latest version of VirtualBox for your operating system (this corresponds to the type of operating system your computer currently is using, not what type you are going to install).  
(Windows hosts, OS X hosts)
- 3) Go to <https://www.ubuntu.com/#download>
- 4) Click the download button for Ubuntu Desktop **18.04 LTS** and save the file (this may take some time, it is large ~2GB)

**Step 2.** (VirtualBox must be downloaded for this step, but (Ubuntu) Linux can still be downloading at this time)

- 1) Run the installer for VirtualBox. (Oracle V 5.2.18 setup)
- 2) Select the default options as you install it. (it disconnects net while installing)

## Step 3.

- 1) Start VirtualBox if it is not already running
- 2) Click the "New" button
- 3) Choose a name for virtual machine. 4) Give the virtual machine a name. This name has no effect on the system and is just to differentiate virtual machines.
- 5) Change the Operating System type to "Linux".
- 6) Change the Version to "Ubuntu (64bit)". (If there is no 64 bit option, either your current operating system is not a 64 bit OS or Virtualization is not enabled in your computer's BIOS and needs to be enabled. If the latter is true, please refer your computer's online manual on how to enable it.)
- 7) Click "Next".
- 8) Set the Base Memory Size between 1024MB and 2048MB. The more memory you give, the better the virtual machine will run, but too much will starve your host machine of memory.
- 9) Click "Next".
- 10) "Create a virtual hard drive" now.
- 11) Click "Next".
- 12) The default option should have "VD I(VirtualBox Disk Image)" selected. If not, select it.
- 13) Click "Next".
- 14) Select "Fixed Size".

- 15) Click "Next".
- 16) Change the size to 50GB. (You should have this much free space.)
- 17) Click "Create".
- 18) Wait for the virtual disk to be created.
- 19) If another window is shown, click "Create" on it too.
- 20) Wait for the virtual machine to be created.

**Step 4.** (Ubuntu) Linux must be downloaded for this step

- 1) Start VirtualBox if it is not currently running.
  - 2) Click on the virtual machine you created.
  - 3) Click on "Settings".
  - 4) Click on "Storage" on the panel on the left (for Mac users, this will be a tab near the top of the window).
  - 5) Click the icon of a disc in the Storage Tree.
  - 6) In the Attributes click on the icon next to the CD/DVD Drive combo box.
  - 7) Click "Choose a virtual CD/DVD disk file..."
  - 8) Browse to the directory where the (ubuntu) Linux ISO was saved.
  - 9) Selected the ISO and click "Open".
  - 10) Click "OK".
  - 11) Click the "Start" button to start the virtual machine.
  - 12) Click in the virtual machine window and use the arrow keys to select the install option. (You have 10 sec to click a key before the default is selected. If you were too late, close the virtual machine window, select "Power off the machine", and start it again).
- NOTE: If you click in the virtual machine window, the virtual machine may capture your mouse and keyboard. If you need to return control back to your host machine, press the right "ctrl" key.
- 13) Select what language you want to use and click "Continue".
  - 14) If possible, check the checkbox for "Download updates while installing". This will require you to be connected to the internet during installation.
  - 15) Click the checkbox for "Install this third-party software".
  - 16) Click the "Continue" button.
  - 17) Make sure the Erase disk option is selected. (Do not worry, this only effects the virtual disk you created and will not erase anything on your host machine).
  - 18) Click "Continue".
  - 19) Click "Install Now".
  - 20) Select what time zone you are in.
  - 21) Click "Continue".
  - 22) Select what type of keyboard you are using. (The default is what most users are using).
  - 23) Click "Continue".
  - 24) Fill out the your information for the OS.
  - 25) Click "Continue".
  - 26) Click "Restart".