



Creating an Ubuntu Virtual Machine



1. Software

What Am I Installing?

What is a Virtual Machine?

A virtual machine (VM) is an emulation of a computer. It allows you to:

- Use a specific operating system without dual booting your computer's hard drives
- Try out specialized software without committing to installing it on your host computer



What is Ubuntu?

- A Linux distribution based on Debian
- Free and open source software
 - No licensing is needed and it is heavily customizable
- The most easily usable Linux distribution out of the box



2. Installation

How Do I Get Set Up?



Download VirtualBox Software

VirtualBox can be found [here](#).

1. Locate the header titled 'VirtualBox 6.1.xx platform packages'
2. Click the download link for your respective host machine operating system
 - a. Note: 'Host machine' refers to the operating system you are currently using, not the one you are trying to create an emulation of

VirtualBox 6.1.26 platform packages

- [Windows hosts](#)
- [OS X hosts](#)
- [Linux distributions](#)
- [Solaris hosts](#)
- [Solaris 11 IPS hosts](#)

Download ISO Image of Ubuntu

An .ISO image is a copy of a default operating system that you are able to load into a VM and use almost immediately. You could also use this .ISO file to dual boot your computer by loading it onto a USB drive

The download can be found [here](#).

1. Locate 'Ubuntu 20.04.3 LTS' and click download
 - a. Note: This may take up to 20 minutes depending on network speed

VirtualBox Installation

1. Run the .exe file that was downloaded from the VirtualBox website and select all defaults
2. Once the installation is complete, the window will look like the image to the right



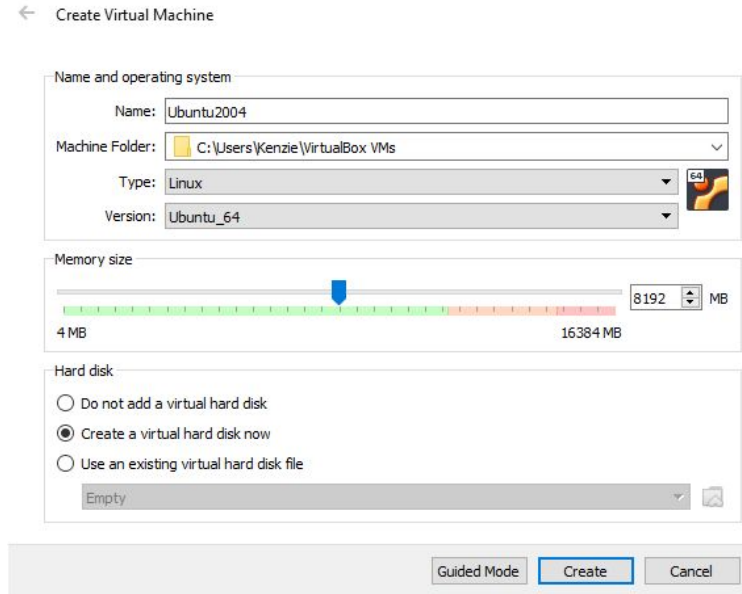
Ubuntu Setup

Click on 'expert mode' and select these options

For memory size, it is good practice to use roughly half of the amount of RAM that is installed on your computer

Keep in mind that Ubuntu requires a minimum of 4GB

Hit 'Create', then use defaults in next pop-up

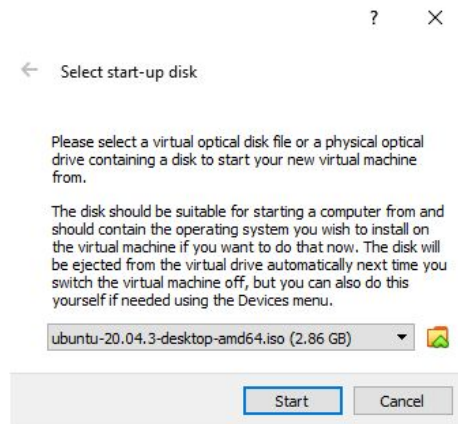


Ubuntu Setup Continued

Select your .ISO file of Ubuntu from the browse option on this window

Note: My computer has some weird stuff enabled that caused the actual VM creation to fail at this final step so, if there are any issues past this point, contact me

After this, it should open your VM and run through generic Ubuntu setup. Use all defaults



Results

From here, you should have a working emulation of Ubuntu that you can open like similarly to an application

