Installation guide for Virtualbox and Windows 10 on MacOS machines

System Requirements

- MacOS (Do not attempt anything in this document unless you are using a Mac computer)
- 4 GB RAM
- 20+ GB of free space on your hard drive

In order to install all software requirements for the course with ~2 GB for course files, you need approximately 20 GB of disk space available. To achieve this *minimal install* you need to delete all files that end in `.iso` or `.exe` after they have been installed successfully.

Step 1: Download pre-requisite software packages

- Navigate to the course page for OMIS 105 on Camino
- Download all 4 files that are provided by a Google Drive link
    - Note: Only the Windows 10 `en_windows(...).iso` is required for this installation document.
- Navigate to the website for VirtualBox

- Click the large *Download VirtualBox 6.x* button
- On the following page, click the link labeled *OS X hosts* and save the `.dmg` file where you can find it again.
- Alternatively, you can just follow this link directly. Although, it may be broken or not point to the newest version of VirtualBox when you read this.

Step 2: Installing VirtualBox

- Find the `.dmg` file you just downloaded (likely in `Downloads` by default with most browsers)
- Double-click this file which will open a window that looks like this:

- Double-click the icon shown under *1.* that is labeled `VirtualBox.pkg`
- Click *Install for all users on this computer*
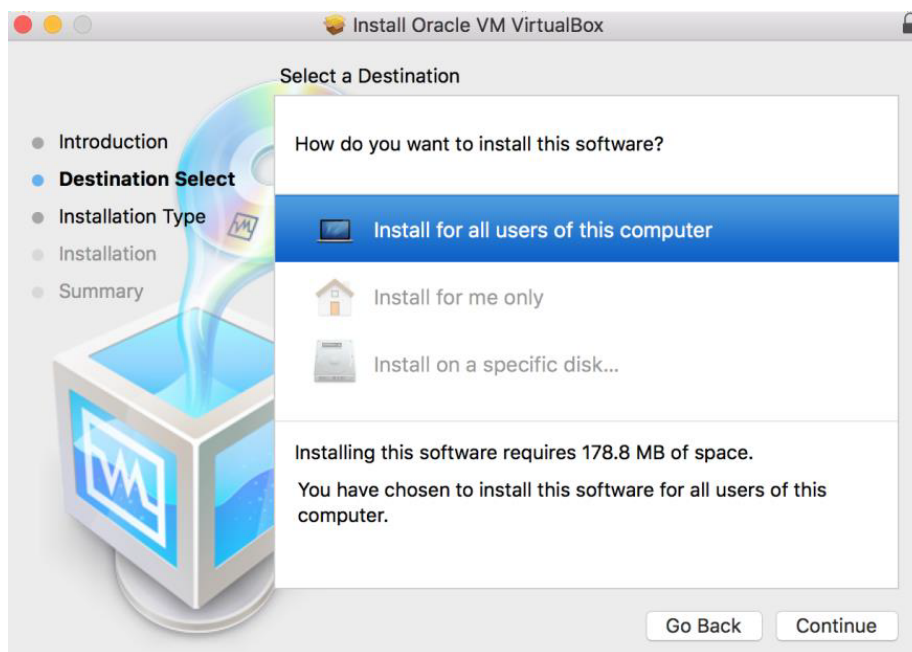
Figure 1: VirtualBox install splash screen

Figure 2: Install for all users on this computer

- Click install on the next screen to confirm you would like to install VirtualBox
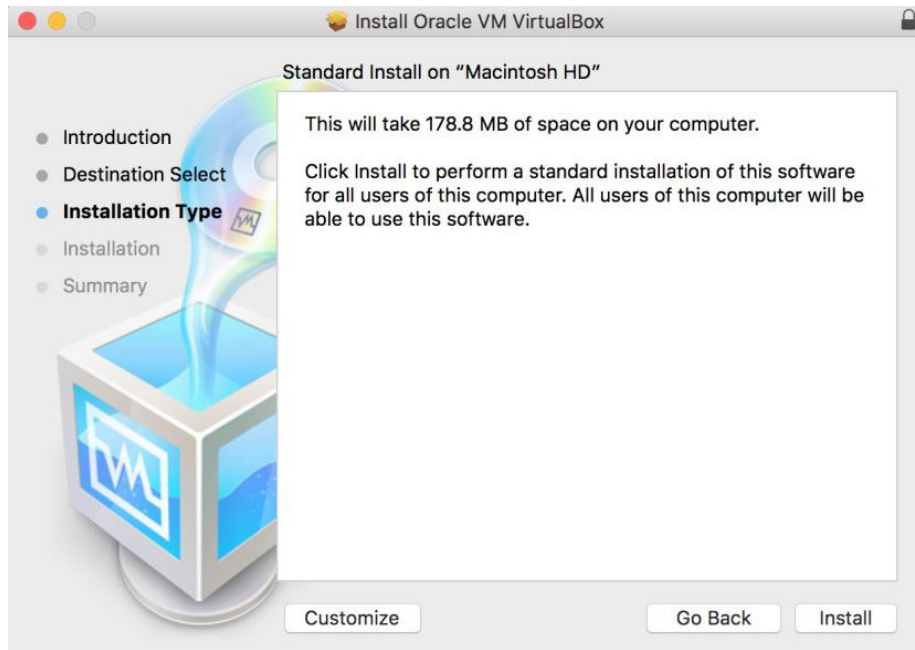

Figure 3: Install

- Wait for the install to finish, this could take a few minutes to complete.
  - **IF YOUR INSTALL FAILS** Please see the *Common Problems* section at the bottom of this document.

Step 3: Creating a Virtual Machine (VM)

- Navigate to your `Applications` folder and double-click the VirtualBox application icon.
  - This should open a window labeled *Oracle VM VirtualBox Manager*
- Click the blue "circle-star" labeled *New* in the top-left corner of the application to create a new virtual machine

- Name your virtual machine
  - This can be anything, but if you type *Windows 10*, the application will automatically populate the type and version fields correctly.
- Specify *Microsoft Windows* for the type and *Windows 10 (64-bit)* for the version.

- On the following screen, select the amount of system memory you would like to allocate.
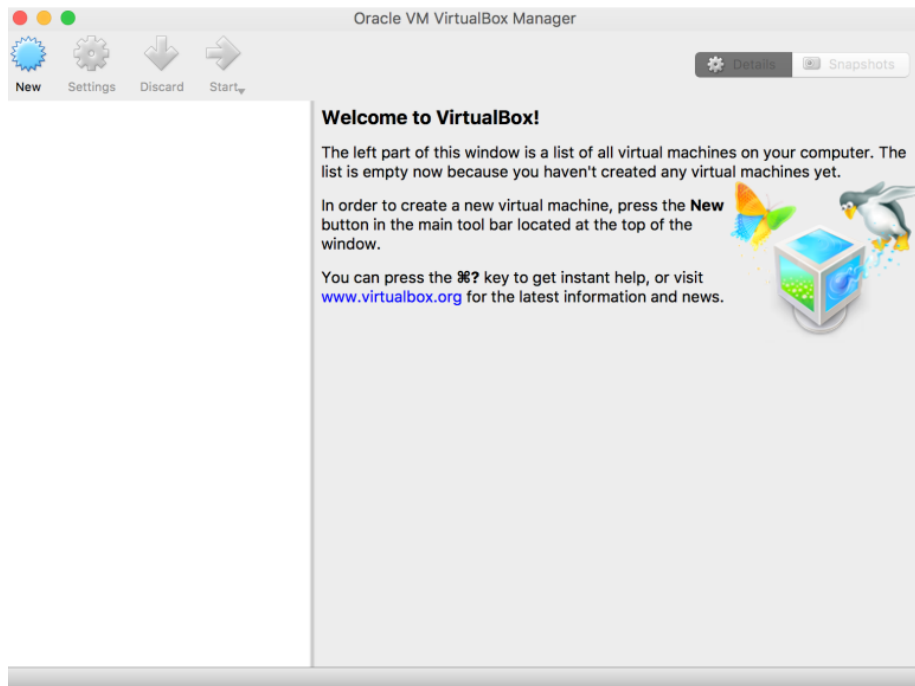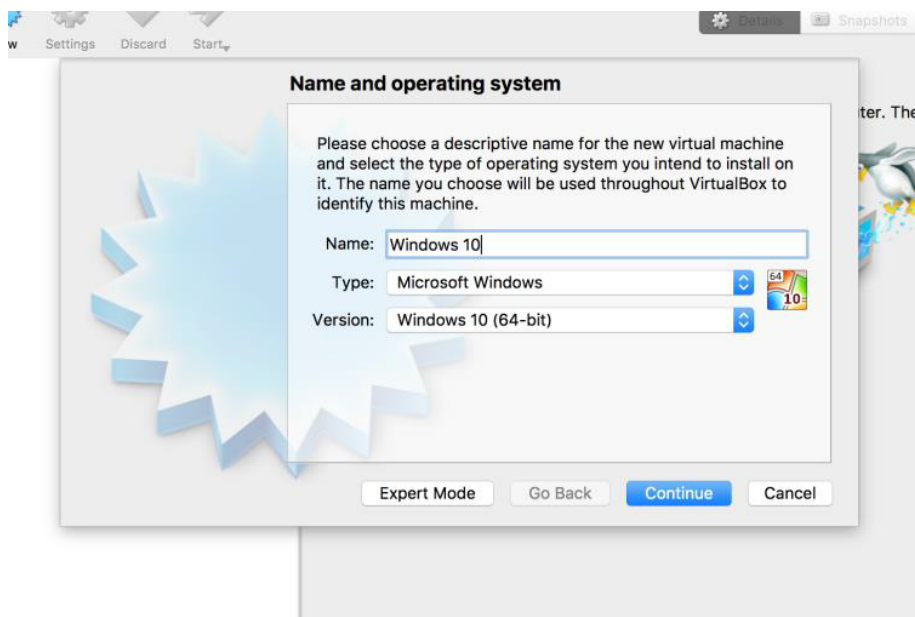
Figure 4: Welcome

Figure 5: Name & OS

– This will take memory away from your normal OSX system and give it to the Windows 10 VM, so the more memory (RAM) you allocate, the better the performance of your VM will be.
– Start with a quarter of your available RAM and move this value up as you see fit.
– Picking a value that is too high can lead to system instability or crashes, stay out of the region that is red in this window at all times.
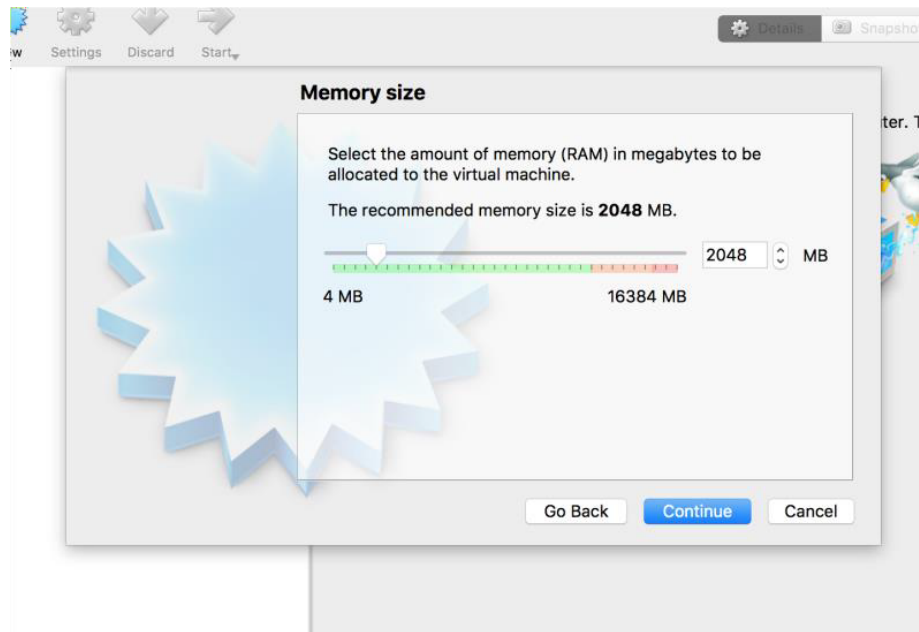

Figure 6: RAM

- Once you have selected a value, click *Continue*
- On the next screen, ensure that *Create a virtual hard disk now* is selected and click create
- On the following screen, select *VDI (VirtualBox Disk Image)* and click *Continue*
- On the following screen, select *Dynamically allocated* and click *Continue*
  – This makes it such that your virtual hard drive will only occupy as much room as it needs on your system, rather that constantly occupying the size you select on the next screen
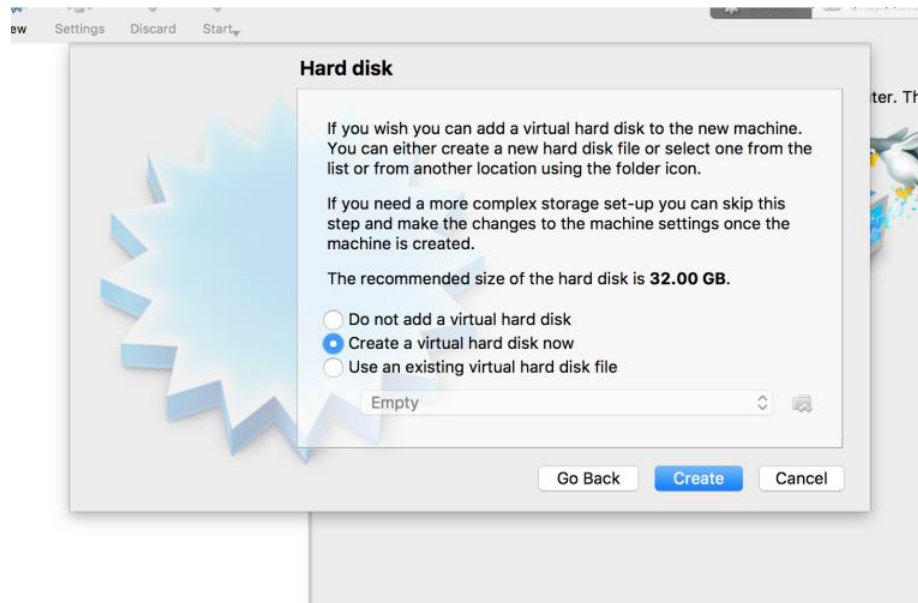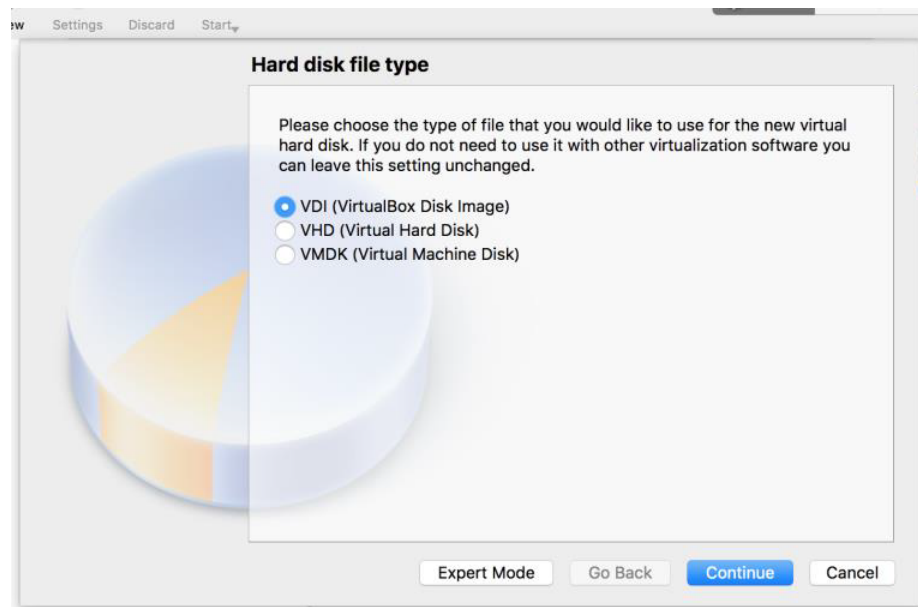
Figure 7: Virtual Hard Disk

Figure 8: VDI

Figure 9: Dynamically Allocated