01 - Installation of Virtual Machine for the Project

VM Download Link: https://tinyurl.com/CSE331VM

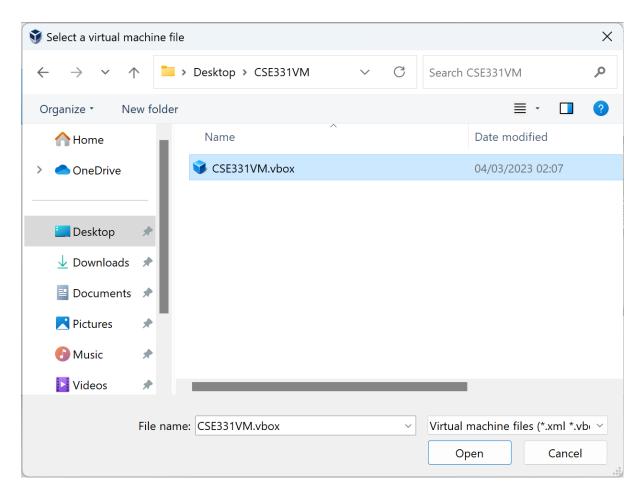
Full Link: https://drive.google.com/file/d/1hrOVbML-6cyxK0zPp4TH4J7AyDqVLMgb

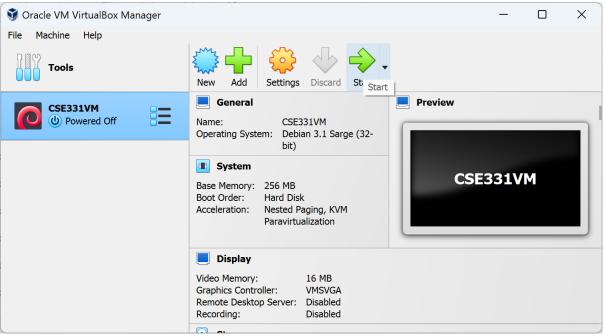
Intel processor instructions

If you are using an Intel-based computer, whether Windows, Linux or Mac. You can download Virtualbox according to your OS, from https://www.virtualbox.org/wiki/Downloads page.



Extract the downloaded CSE331VM.zip file. Then, in VirtualBox, use the "Add" button to select the .vbox file from the extracted folder.





AMD or M1/M2 Macs

If you are using an AMD processor or new M1/M2 Macs, then you should use QEMU to use emulation instead of virtualization software.

For AMD, using Windows, you can follow this guide (You can ignore "How to make a machine in QEMU" part):

https://linuxhint.com/gemu-windows/

For AMD, using Ubuntu derivatives, you can follow this guide **from Step 2**:

https://www.tecmint.com/install-qemu-kvm-ubuntu-create-virtual-machines/#:~:text=Step%20 2%3A%20Install%20QEMU/KVM%20on%20Ubuntu%2020.04/22.04

For M1/M2 Macs:

- 1. You should first download Xcode Command Line tools. So open a Terminal and type "xcode-select --install" and follow on-screen instructions.
- 2. Then, you can download Homebrew from https://brew.sh website.
- 3. Use the "brew install qemu" command to install QEMU emulation software.

The command to run QEMU emulation is as follows;

- 1. First, you should extract the CSE331VM.zip file in a location.
- 2. Use the "cd" command to navigate to the directory using Terminal
- 3. Run this command for Linux/Mac;

qemu-system-i386 -nodefaults -smp cores=1 -m 256 -vga std -net nic -net user,hostfwd=tcp::2222-:22 -drive media=disk,file=CSE331VM.vdi

4. Run this command for AMD Windows;

qemu-system-i386.exe -nodefaults -smp cores=1 -m 256 -vga std -net nic -net user,hostfwd=tcp::2222-:22 -drive media=disk,file=CSE331VM.vdi

5. You should allow any prompts by saying yes, if asked.