- 1. Begin the download of the Ubuntu iso file. This could take over an hour.
- 2. Download VirtualBox and launch installer, accept all default preferences

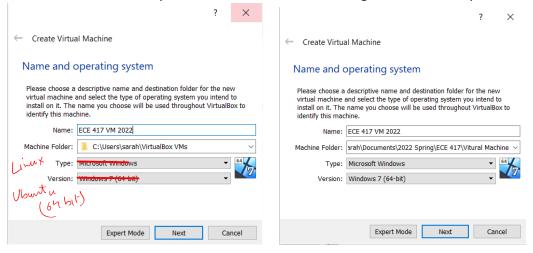


3. To setup a virtual machine from the VirtualBox Manager, click the green Add button

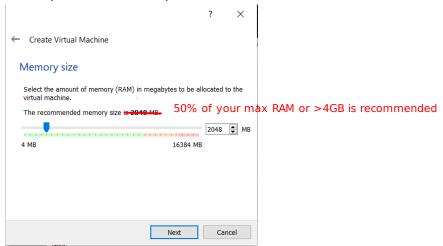


4. Create a virtual machine. The Type refers to the Operating System of your computer, most likely Windows

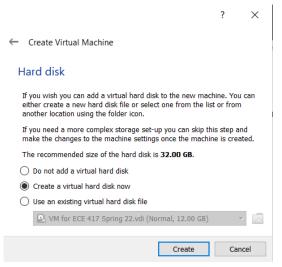
The default location is in your user folder. Feel free to change the location to your class folder:



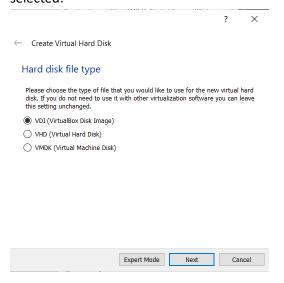
5. Memory size default is okay:



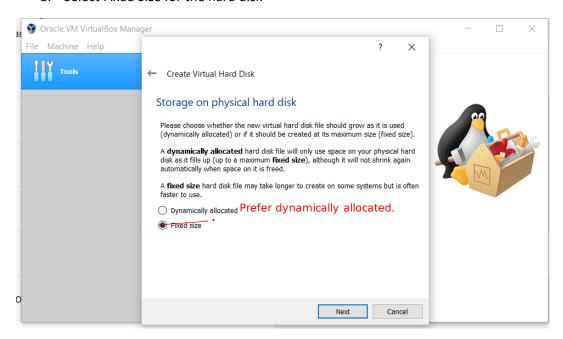
6. Create a new virtual hard disk



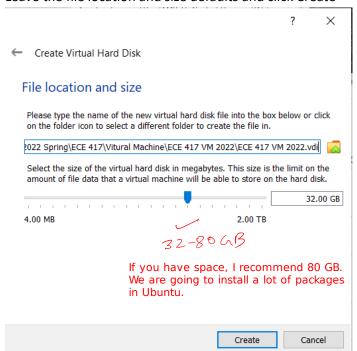
7. Since we downloaded a desktop image file for Ubuntu, verify that the VDI disk file type is selected:



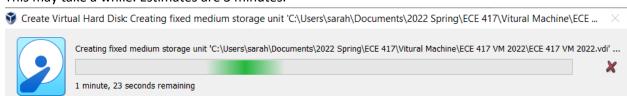
8. Select Fixed Size for the hard disk



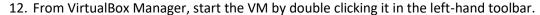
9. Leave the file location and size defaults and click Create

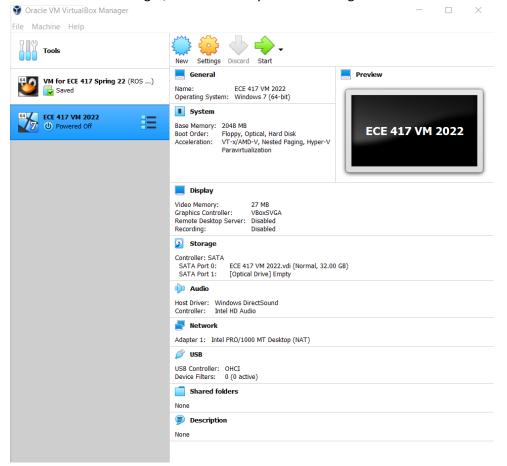


10. This may take a while. Estimates are 3 minutes.

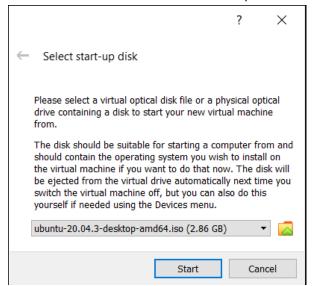


11. On your base machine, move the downloaded iso file into your class folder or wherever you saved the VM's virtual hard drive



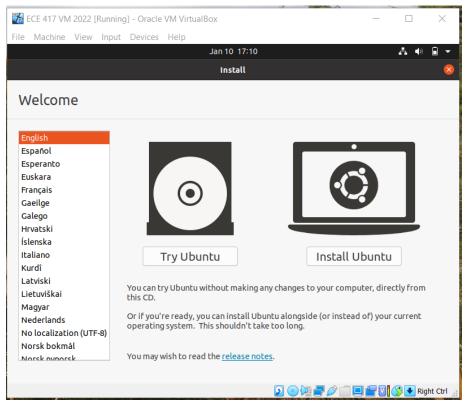


13. Select the Ubuntu iso file for the start-up disk

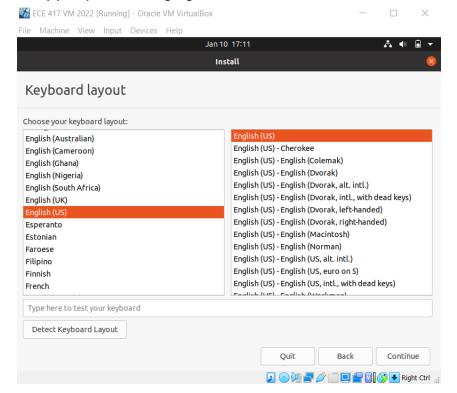


Ubuntu OS will begin startup. This may take a few minutes.

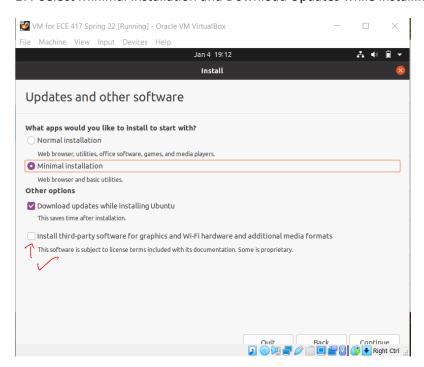
- 14. Verify your preferred language is selected
- 15. Click Install Ubuntu



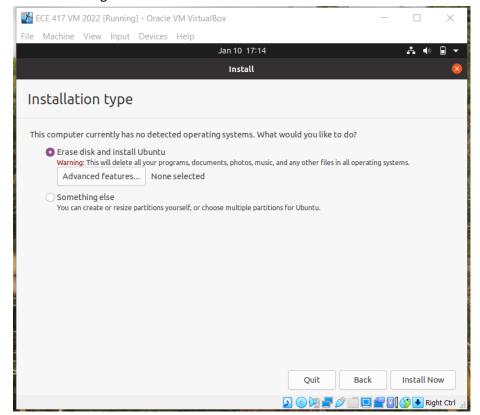
16. Verify your preferred language and dialect are selected and click continue



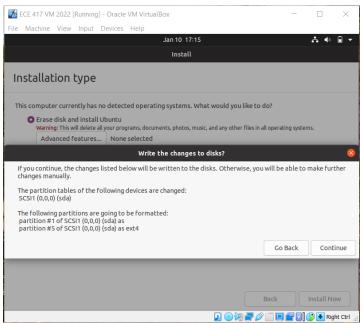
17. Select Minimal Installation and Download Updates while installing



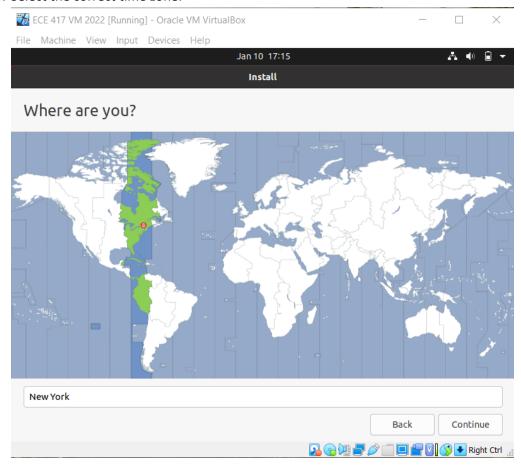
18. Select Erase disk and install Ubuntu. Since we created a new virtual hard disk, it is blank and there is nothing that will be lost.



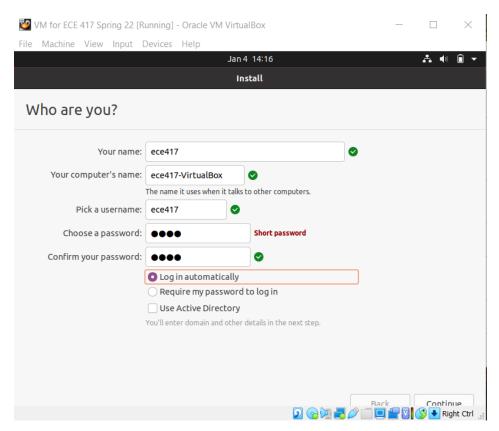
19. Press continue.



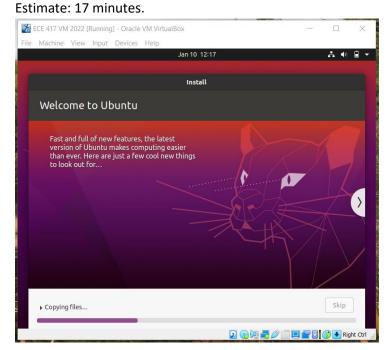
20. Select the correct time zone:



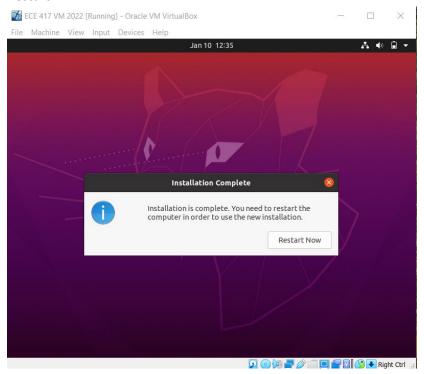
21. Create an account for the new OS. Make it easy to remember, and a password that is short and easy to input (you will have to input the password regularly for ROS setup commands). Select "Log in Automatically". All other defaults are okay.



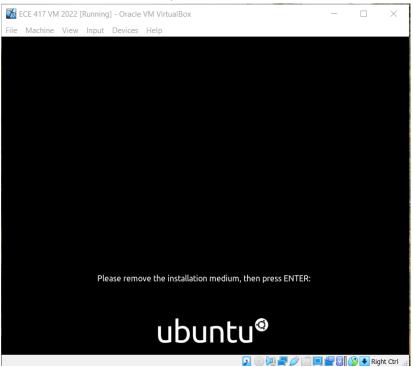
22. Wait for VirtualBox to finish setting up Ubuntu! This may take several minutes.



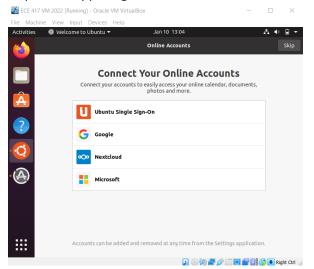
23. Restart



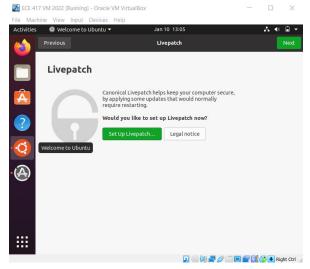
24. Click inside the window and press enter:



25. Skip in the upper right hand corner of Online Accounts



26. Click next



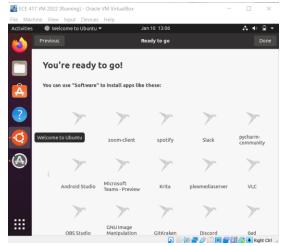
27. Click next again



28. Leave location off



29. Press done to close



30. Feel free to update ubuntu. However you must let the update finish before downloading ROS to ensure all tools are available for the ROS download. Estimated time: 20 minutes

