CSE 471: Introduction to Artificial Intelligence

Fall 2020

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Homework 0: Step 1, option A



Objectives

 The steps listed in this presentation will help you setup your system as required for all the programming assignments in this course.

- You'll be able to
 - Install a Virtual Machine such as VirtualBox and
 - Use Ubuntu 18.04 on it.

Step 1: Install VirtualBox

- VirtualBox is a cross-platform compatible Virtual Machine.
- Install VirtualBox from here.

- Other alternative virtual machines are listed below:
 - a. VMware Workstation Pro (Linux/Windows) is available to ASU students free for 1 year (link).
 - b. VMware Fusion Pro (Mac) is available to ASU students free for 1 year (<u>link</u>).
 - c. VMWare Workstation Player (Linux/Windows) is available for free (<u>link</u>).

Step 2: Import the Virtual Machine file

 Download the VM file from the Google drive link <u>here</u>. (It has ROS Melodic and TurtleBot3 packages already installed in it, which you will learn to use shortly!)

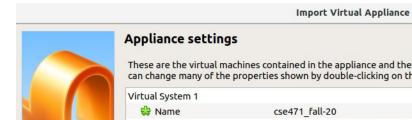
Next, open VirtualBox and import the VM file using instructions found <u>here</u>.

The instructions are:

- a. Click Import Appliance from File,
- b. Choose downloaded VM file,
- c. Click on *next/continue* and stop at the appliance setting page.

Step 3: Change the RAM to meet your PC specifications

- Adjust the RAM or/and the number of processors to make the VM compatible with your system. VirtualBox may not allow you to start the VM otherwise.
 - Make sure to allocate just enough RAM for the VM to start and spare enough RAM for your computer.
 - You can also change these settings later (after importing the VM) in the settings of the VirtualBox (system settings).
- Finally, click on import



These are the virtual machines contained in the appliance and the suggested settings of the imported VirtualBox machines. You can change many of the properties shown by double-clicking on the items and disable others using the check boxes below. VM for the Fall 2020 offering of CSE 471 Description ■ Guest OS Type Ubuntu (64-bit)

CPU

8192 MB DVD

USB Controller Sound Card ✓ ICH AC97

Network Adapter ✓ Intel PRO/1000 MT Desktop (82540EM) Storage Controller (IDE) PIIX4

Storage Controller (IDE) PIIX4 ▼ Storage Controller (SATA) AHCI Virtual Disk Image cse471 fall-20-disk001.vmdk

Base Folder /home/rkaria/VirtualBox VMs @ Primary Group

MAC Address Policy: Include only NAT network adapter MAC addresses

Appliance is not signed

Additional Options: ✓ Import hard drives as VDI

Restore Defaults < Back Import Cancel

Step 4: Start the VM

Username is cse471,

Password is cse471

