

# **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 ([link](#)).
  - c. VMWare Workstation Player (Linux/Windows) is available for free ([link](#)).

## Step 2: Import the Virtual Machine file

- Download the VM file from the Google drive link [here](#). (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 [here](#).

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



## Appliance settings

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.

### Virtual System 1

 Name	cse471_fall-20
 Description	VM for the Fall 2020 offering of CSE 471
 Guest OS Type	 Ubuntu (64-bit)
 CPU	4
 RAM	8192 MB
 DVD	<input checked="" type="checkbox"/>
 USB Controller	<input checked="" type="checkbox"/>
 Sound Card	<input checked="" type="checkbox"/> ICH AC97
 Network Adapter	<input checked="" type="checkbox"/> 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	/

Machine Base Folder:

MAC Address Policy:

Additional Options: ☒ Import hard drives as VDI

Appliance is not signed

Restore Defaults

< Back

Import

Cancel

# Step 4: Start the VM

Username is **cse471**,  
Password is **cse471**

