

M1 Lab: Learning Environment

CITA 171: OPERATING SYSTEM USE & ADMIN

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3 DOWNLOADING OVA FILE

Download the CITA 171 VM OVA file from Brightspace. (OVA stands for Open Virtualization Appliance, a virtual machine archive format, effectively a zip archive.) One cannot open it by double-clicking it. (See Figure 1).

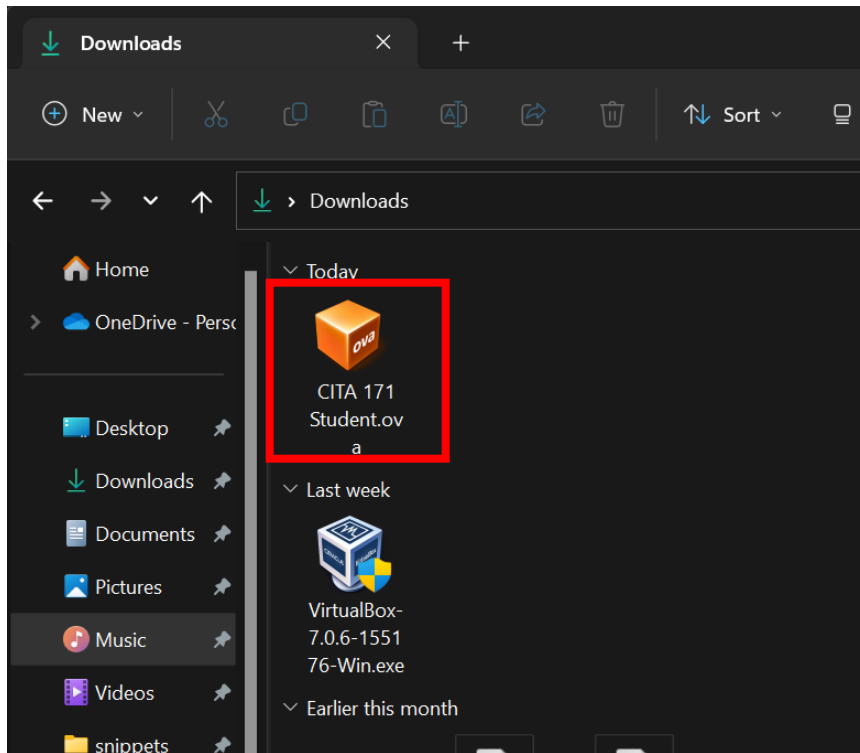


Figure 1 CITA 171 VM OVA File

4 DOWNLOADING AND INSTALLING VIRTUALBOX APPLICATION

Download and install (if not already installed) Oracle VirtualBox from its [home page](#).

5 IMPORTING OVA FILE

1. Launch Oracle VirtualBox Manager
2. From the **File** menu, choose **Import**.
3. Click the **Choose a virtual appliance file to import** icon. Navigate to the OVA file and open it. Click **Next**. (See Figure 2).
4. Modify the appliance settings as needed. This step is optional. Click **Finish**. (See Figure 3).

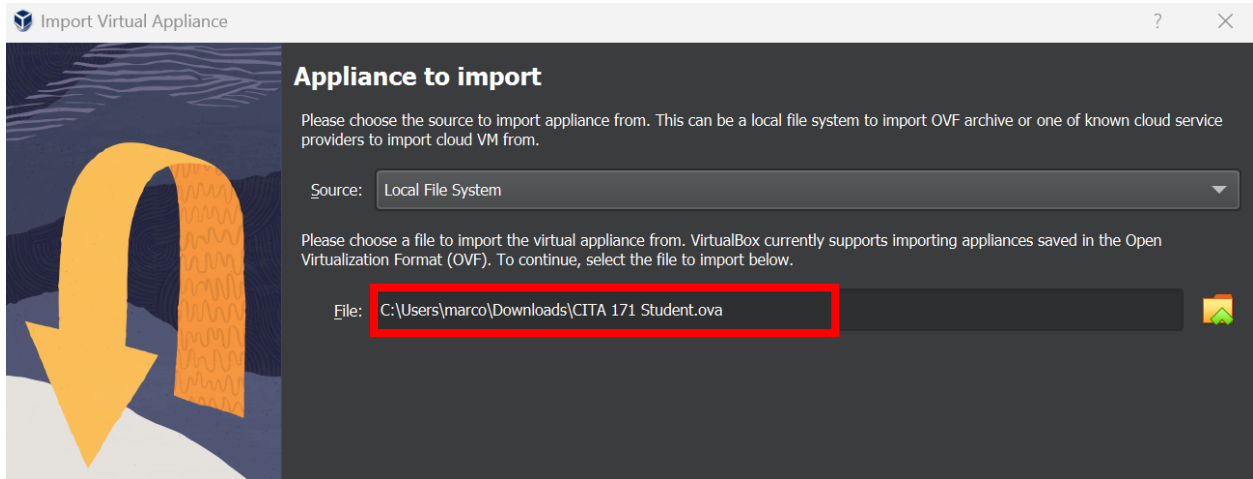


Figure 2 OVA File Selection

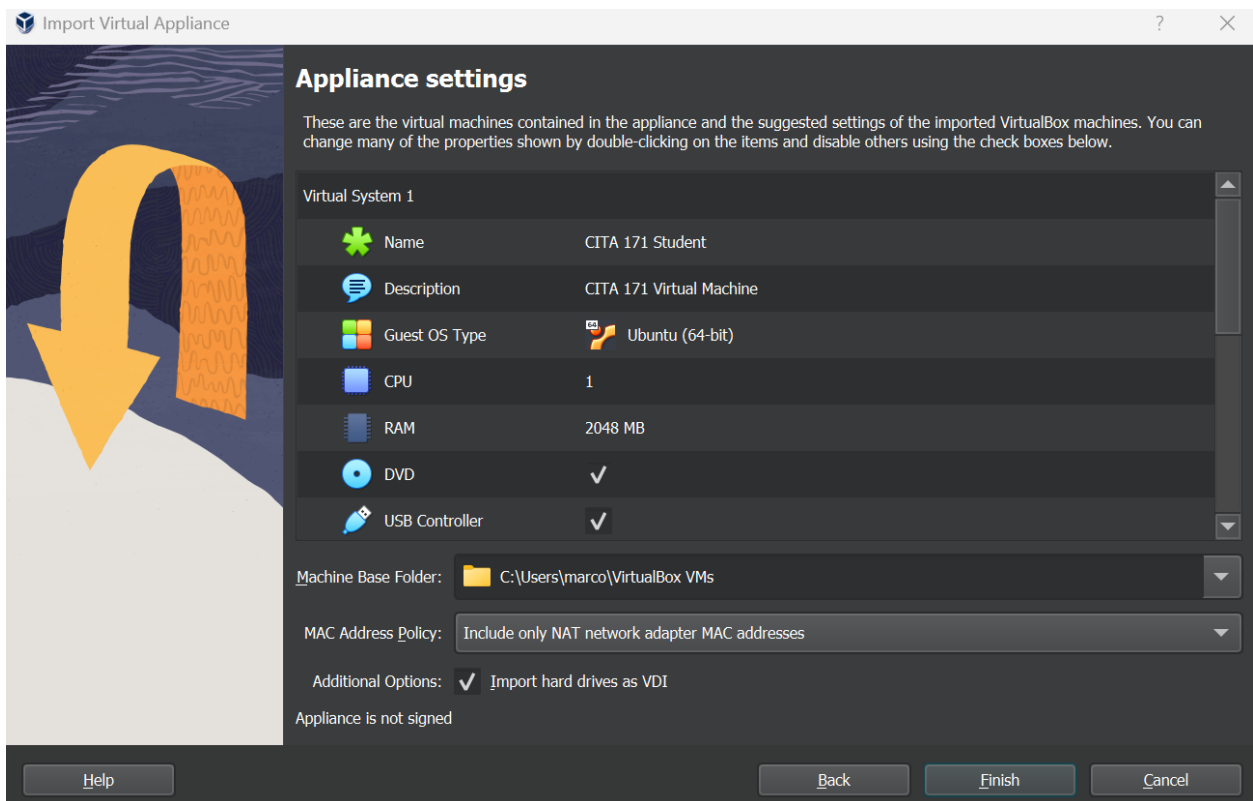


Figure 3 Appliance Modification (optional)

6 VIRTUAL MACHINE FILES

A virtual machine consists of two files: a vbox and vdi files. They are in **C:\Users\<username>\Virtualbox VMs** folder. (See Figure 4).

1. **vbox**: This file contains the configuration of the virtual machine.
2. **vdi**: This file contains the data on the virtual machine.

The vi file is much bigger than the vbox file.

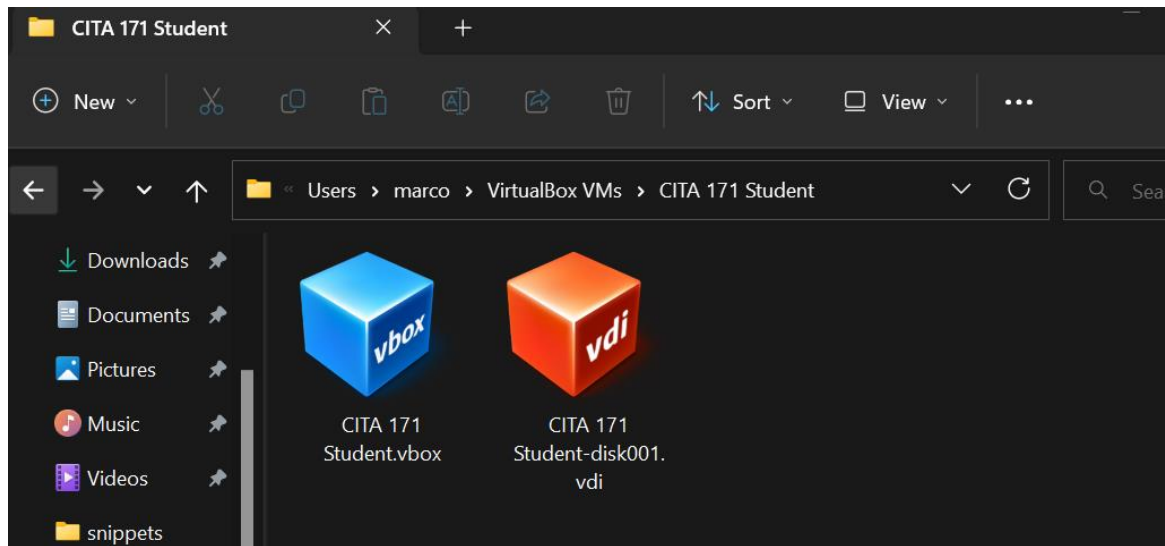


Figure 4 vbox and vdi Files

7 LAUNCHING AND LOGGING INTO CITA 171 VIRTUAL MACHINE

1. While **CITA 171 Student** is selected, click the **Start** button. (Alternatively, CITA 171 Student can be double-clicked). (See Figure 5).
2. When a log-in screen appears, click **CITA 171 Student**. (Alternatively, press **Enter**.) (See Figure 6).
3. Enter the password (cita171) in the password box and press **Enter**.

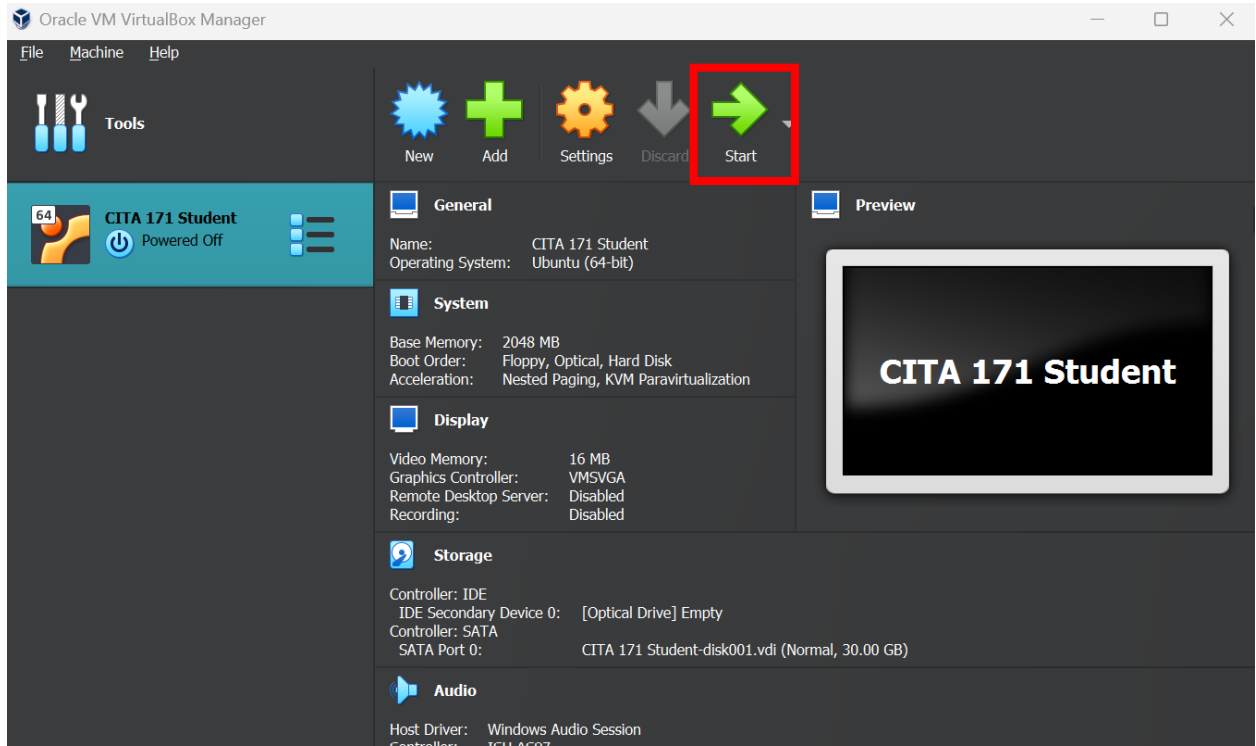


Figure 5 Launching CITA 171 VM

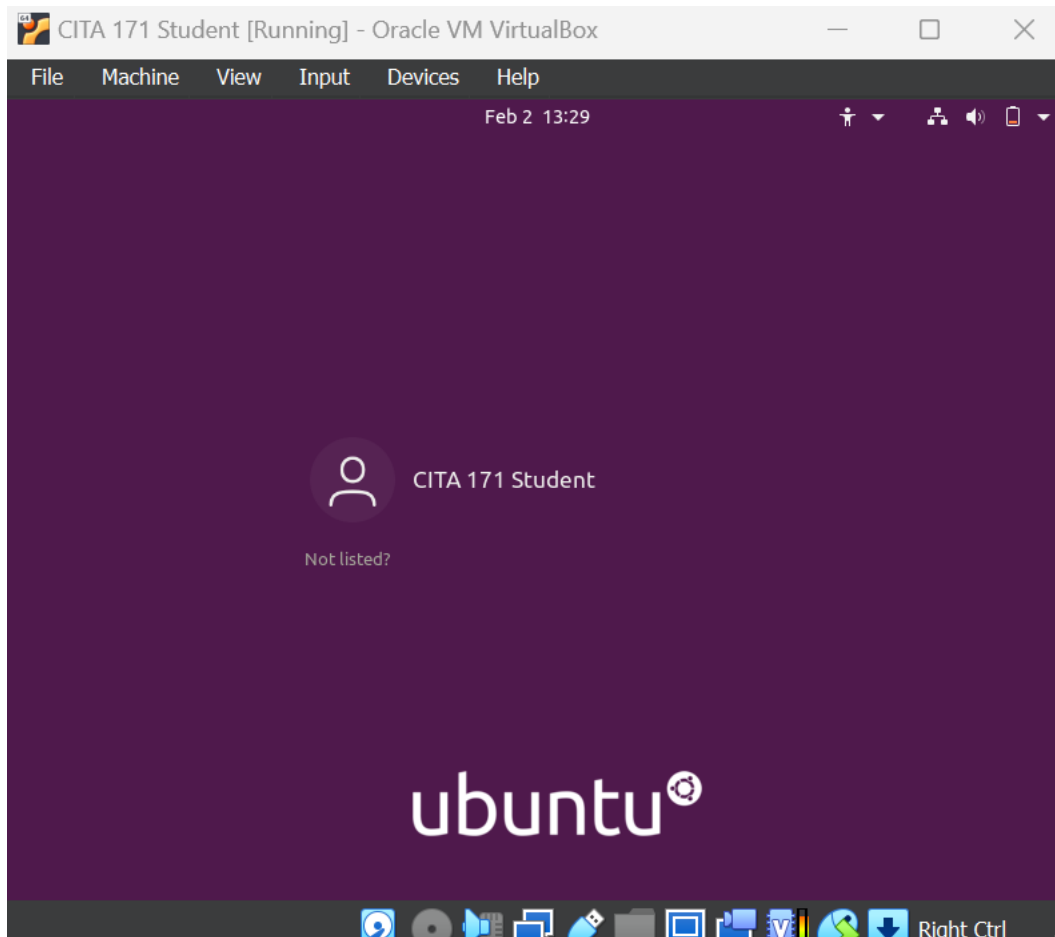


Figure 6 Log-in Screen

8 SHUTTING DOWN VIRTUAL MACHINE

Virtual machines must be properly shut down to avoid file corruption.

1. Click the down arrow at the top right corner and click **Power Off/Log Out**. (See Figure 7).
2. Click **Power Off**.
3. Click Power Off again. (See Figure 8).

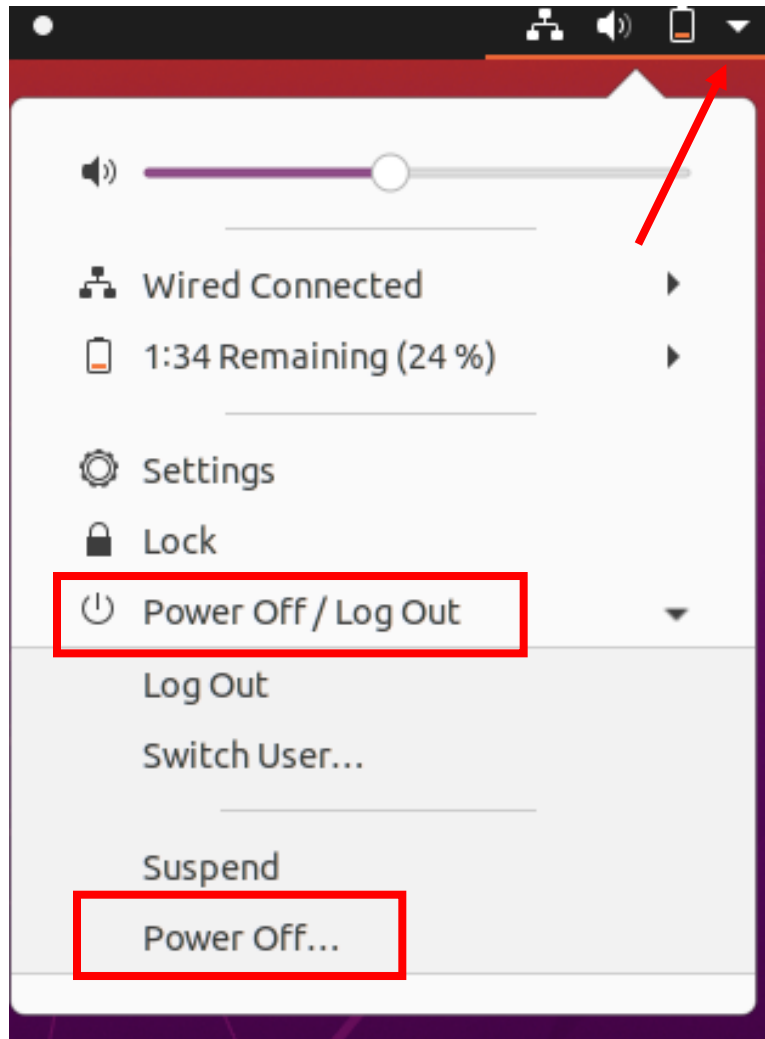


Figure 7 Powering Down Virtual Machine

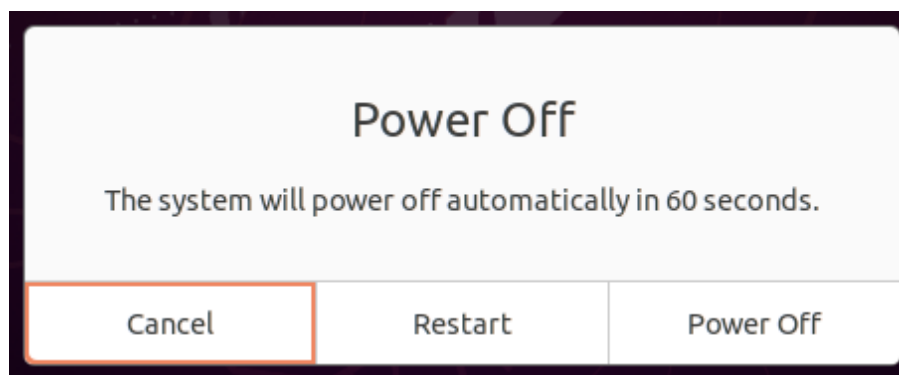


Figure 8 Last Dialog Box

9 COMPLETELY DELETING VIRTUAL MACHINE

When the virtual machine becomes corrupt and unable to start, the virtual machine may need to be deleted, and a new virtual machine may need to be imported.

1. To delete a virtual machine, right-click the virtual machine and choose **Remove**.
2. When a dialog box appears, choose **Delete all files**. (See Figure 9).

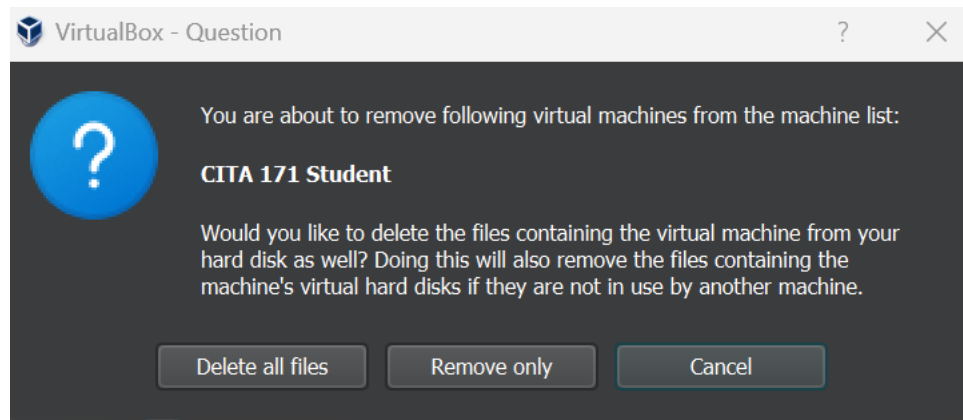


Figure 9 Permanently Deleting a Virtual Machine