Lab A22a - Install VirtualBox and import an Ubuntu 18 OVA

Version 1.0, April 2022

Introduction

Virtualization is a major part of the IT industry. The ability to virtualize hardware and operating systems support better usage of resources and simplifies administration. During this training, we will use virtual machines to perform various hands-on labs.

In this lab, you will install the Oracle VirtualBox hypervisor and the **PS Ubuntu 18** virtual machine. After completing the installation, you will start up the VM and connect to the Internet.

NOTE: The credentials for signing into the PS Ubuntu 18 VM are:

Username: **PSadmin**

Password: **Pass1234**

Objectives

Part 1: Prepare a Computer for Virtualization

Part 2: Running the VM

Recommended Equipment

- Computer with a minimum of 8 GB of RAM and 30 GB of free disk space and support for either Intel VT-x or AMD-V virtualization technology.
- High-speed internet access to download Oracle VirtualBox and the PS Ubuntu 18 virtual machine.

Part 1: Prepare a Computer for Virtualization

In Part 1, you will download and install desktop virtualization software and the PS Ubuntu 18 virtual machine.

If you already have *VirtualBox* installed on your computer with the *VirtualBox Extension Pack* skip directly to **Step 2** of this section.

Note: The following instructions are for Windows 10 using VirtualBox v6.1.22. Your steps may differ slightly. Regardless of the operating system or VirtualBox version, be sure you locate and select the options specified in the following steps.
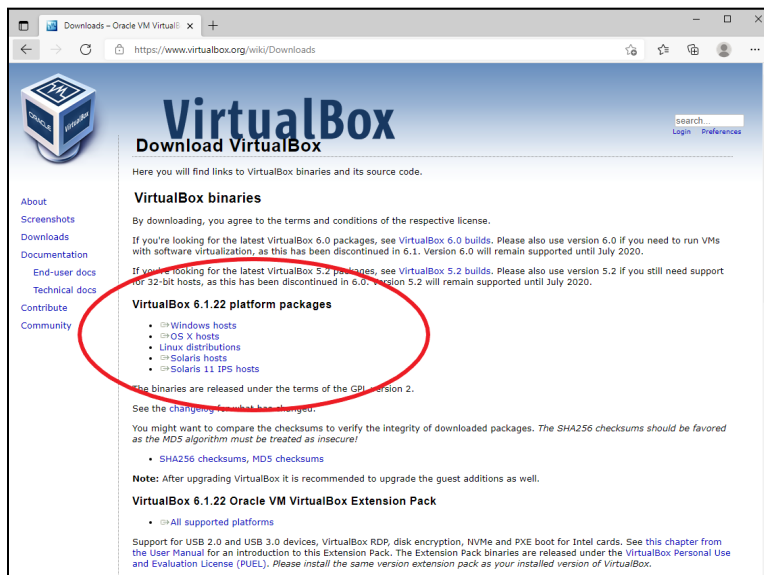
Step 1: Download and install VirtualBox.

Oracle VirtualBox is a virtualization program that you can download and install to support the VM images.

a. *Navigate to https://www.virtualbox.org. Click the download link on this page.*

b. *Choose and **download** the appropriate VirtualBox installation file based on your operating system.*

c. *Download the **Oracle VM VirtualBox Extension Pack** listed on the same download page.*
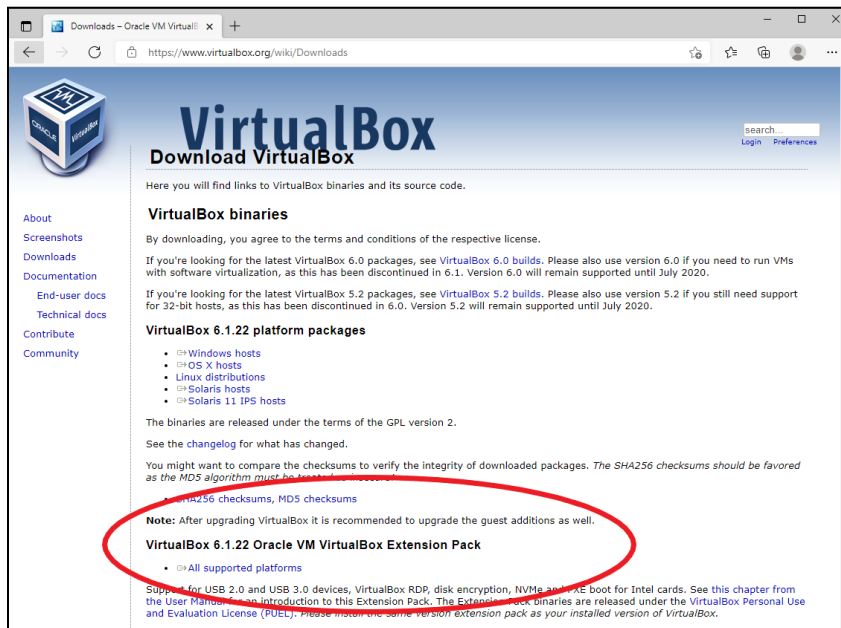

d. *After the two files are downloaded, **run the installer** for VirtualBox and accept the default installation settings.*

e. *Next, run the install file for **Oracle VM VirtualBox Extension Pack**. VirtualBox opens and asks to install the extension pack. Accept all popup dialogs.*

f. *VirtualBox is open and ready for the next step.*

Step 2: Import the PS Ubuntu 18 VM.

a. *Get the **PS Ubuntu 18 OVA** file [here](). It is a big file so this will take some time. Note the location of the downloaded VM.*

b. *In VirtualBox, select **File > Import Appliance.***
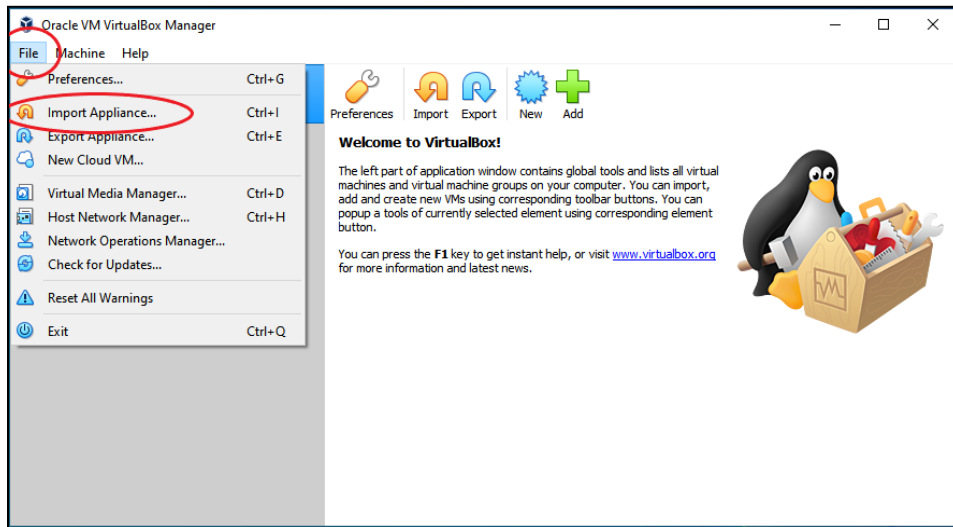
c. *Browse to the location of the downloaded **PS Ubuntu 18.ova** file and click on the **Open** button.*
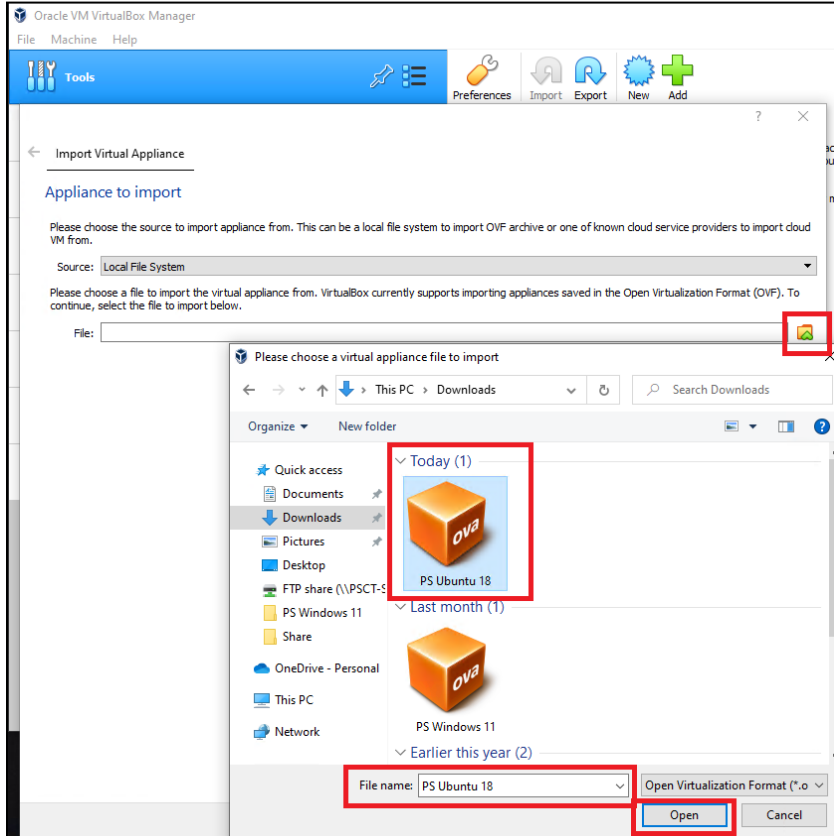
d. *Click on the **Import** button to continue. The import process will take several minutes.*

e. *Once the import is complete you may delete the **PS Ubuntu 18 OVA** file used to create the VM.*

Part 2: Running the VM

In this part, you will start up the PS Ubuntu 18 VM and explore the desktop.

Step 1: Set up the VM resources (Optional).

a. *Select the **imported VM**. To change the memory and processor allocations, which is currently 2 GB of RAM, and one processor; click **Settings**, then click **System**.*

f. *Adjust the Base Memory and number of processors to as much as you wish. Note: it is recommended that you not allocate more than 50% of your system memory and processors to the VM. This recommendation would change based on your environment and memory usage requirements.*

g. *Do not allocate less RAM than is allocated by default to the imported VM.*

## Step 2: Start the VM and test internet connectivity. Take a screenshot of your work.

a. *Click on the **green arrow** to start the VM. This will take a few minutes as the **PS Ubuntu 18** image boots and loads the desktop. **Close** any popup messages.*
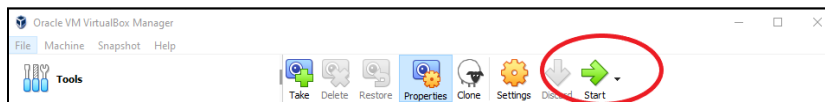

b. *Log into the VM with the **PSadmin** account. Provide the Password: **Pass1234** to log in. **Note**: This password is not recommended for production environments.*

c. *When Ubuntu displays the Desktop, take some time to explore the Ubuntu environment.*

d. *If Ubuntu prompts you to upgrade to a new version, please decline at this time.*
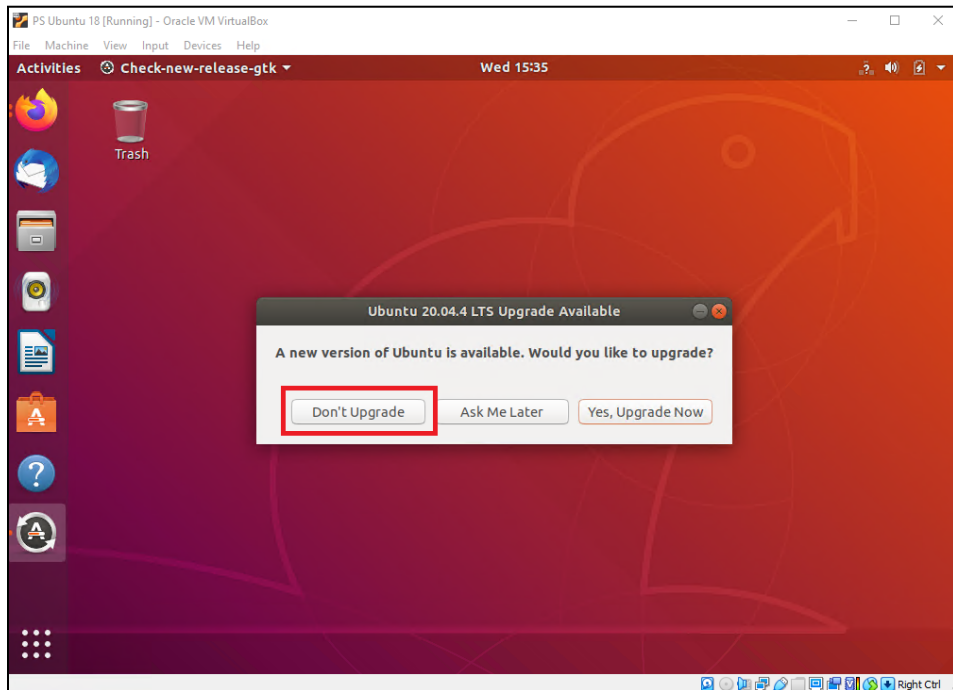
e. *When you are ready, select the* **Firefox** *web browser. Search for* **unix time** *and navigate to the* [**Unix Time Stamp - Epoch Converter**](#) *website.*

f. *Take a screenshot of the* **PS Ubuntu 18 VM** *with the open* **Firefox browser displaying the Unix Time Stamp - Epoch Converter** *website.* **Paste** *the screenshot into the box below.*
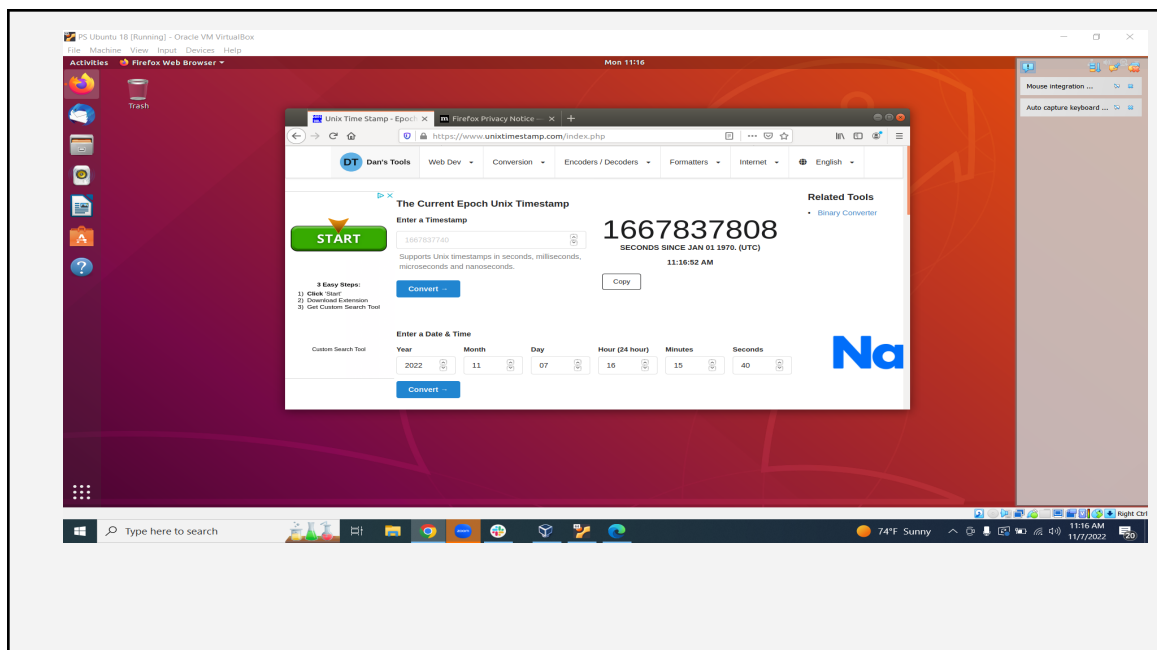
Step 3: Shut down the VM

When you are done with the VM, you can save the machine state of the VM for future use or shut down the VM.

Closing the VM using GUI:

a. *From the Virtual Box **File** menu, choose **Close...***

b. *Click the **Save the machine state** radio button and click **OK**. The next time you start the virtual machine, you will be able to resume working in the operating system in its current state.*

The other two options are:

- **Send the shutdown signal**: This simulates pressing the power button on a physical computer.

- **Power off the machine**: This simulates pulling the plug on a physical computer.