

Creating a Windows Virtual Machine in a macOS computer— using Oracle Virtual Box

Table of Contents

| | |
|--|----|
| Introducing Oracle Virtual Box | 2 |
| Download the files required..... | 3 |
| Creating virtual machine using a virtual hard disk file (.ova) | 4 |
| Step 1..... | 4 |
| Step 2..... | 4 |
| Step 3..... | 5 |
| Step 4..... | 6 |
| Step 5..... | 7 |
| Step 6..... | 8 |
| Step 7..... | 9 |
| Step 8..... | 10 |
| Step 9..... | 11 |
| Step 10..... | 12 |

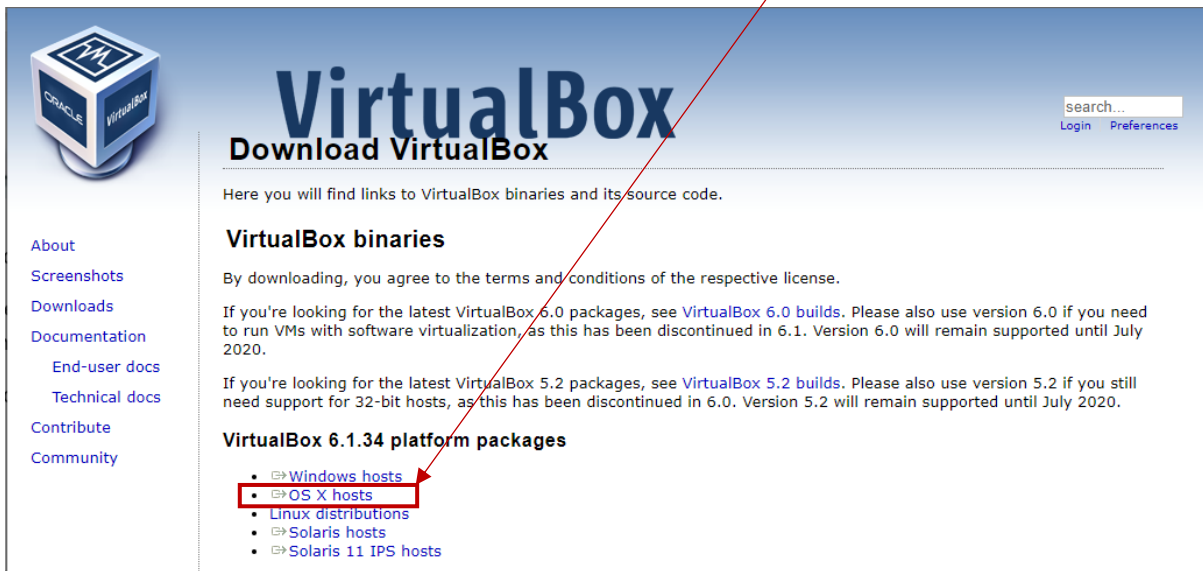
Introducing Oracle Virtual Box

Oracle Virtual Box is a virtualisation software for enterprise as well as for home use. It is freely available since it is an Open-Source software under the terms of GNU General Public License (GPL) version 2.

Virtual Box can be installed and run-on Windows, Linux, Macintosh, and Solaris host machines.

You can download Oracle virtual box from their official website: <https://www.virtualbox.org/>

Mac users should select the correct installation file for **OS X hosts** as shown below.



Install Oracle Virtual Box on your macOS computer.

You may also want to install the Extension packs for extended functionality (e.g. USB 3.0). Refer to the [Oracle VM Virtual Box User Manual](https://www.virtualbox.org/manual/ch01.html#intro-installing) for more information: (Long URL: <https://www.virtualbox.org/manual/ch01.html#intro-installing>)

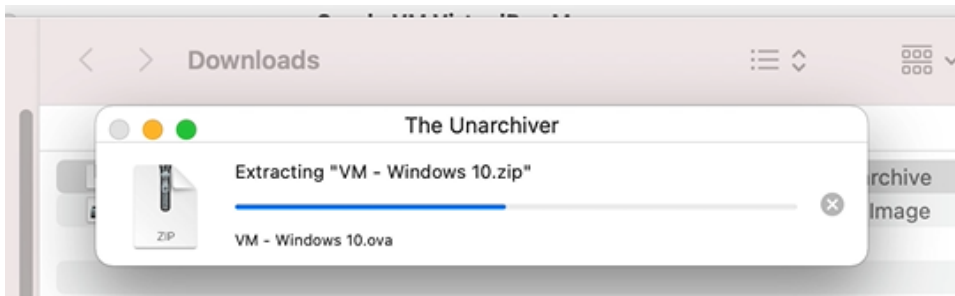
Download the files required

First, you must download the **VM - Windows 10 (.zip)** file to a location on your home computer from the download link provided to you.

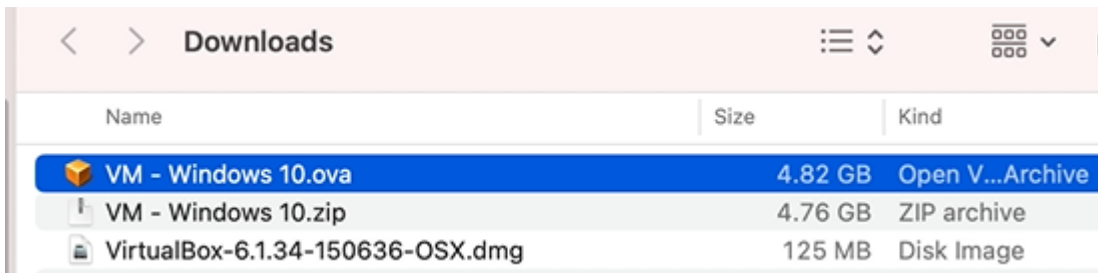
Then you need to unzip the VM - Windows 10 (.zip) file which will then be extracted to a virtual hard disk file* **VM - Windows 10 (.ova)** – *Open Virtualisation Format Archive*, which you will be using to create the virtual machine. To do this,

Right-click on the downloaded VM – Windows 10.zip file > Open With > The *Unarchiver*

You may need to accept any terms and conditions if prompted. The Unarchiver program will then extract the contents from the VM – Windows 10.zip file.



Once the virtual hard disk file is extracted you will see a **VM – Windows 10.ova** file.



***What is a virtual hard disk file?** This is a hard disk file that has an operating system and various other software installed already installed. To open and work with such hard disk files you need to have a virtualisation software (such as Oracle Virtual Box). Virtual hard disk files can have different extensions (for example: .vhd, .vdi, .ova etc...)

Creating virtual machine using a virtual hard disk file (.ova)

The step-by-step process of creating a virtual machine using an existing hard disk is given below.

Step 1

On a Mac OS X host, in the **Finder**, double-click on the **VirtualBox** item in the Applications folder. You may want to drag this item onto your Dock.



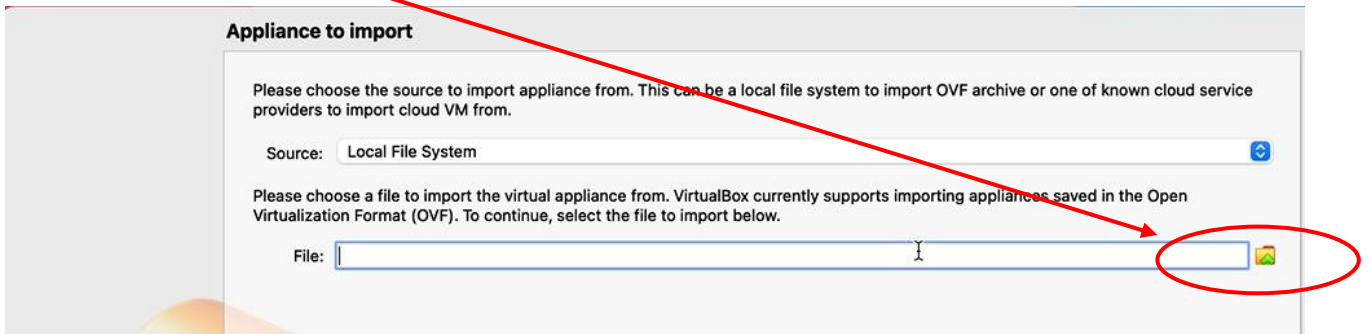
Step 2

Click on “Import”

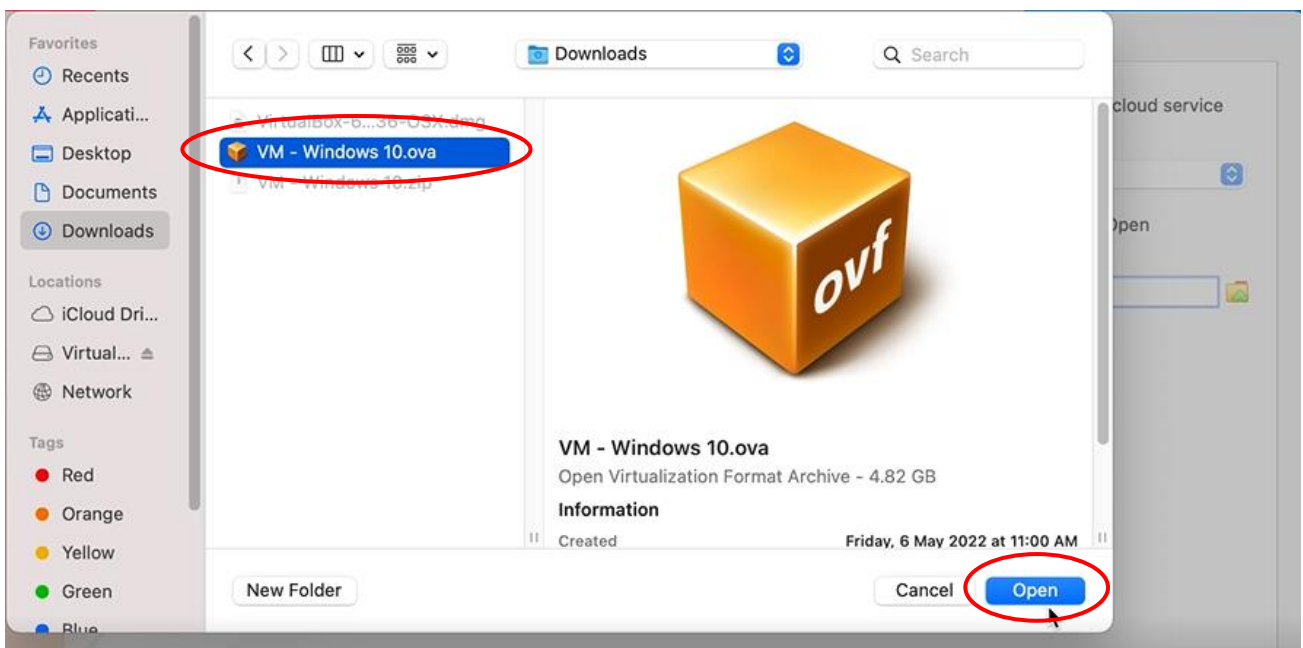
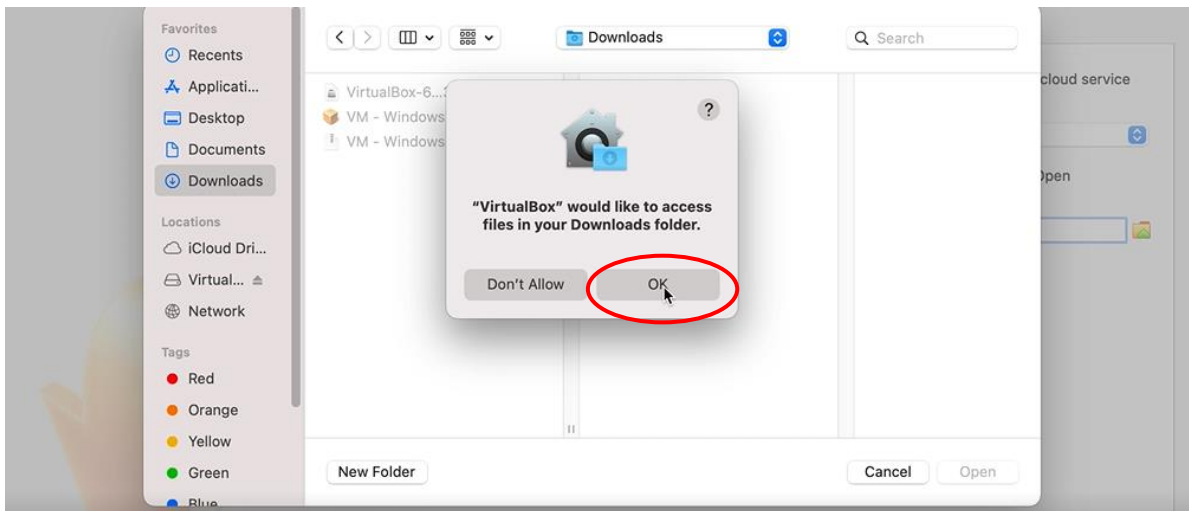


Step 3

Click on the **browse** icon to navigate to where you've stored the virtual hard disk file (.ova) and click on **Open**.

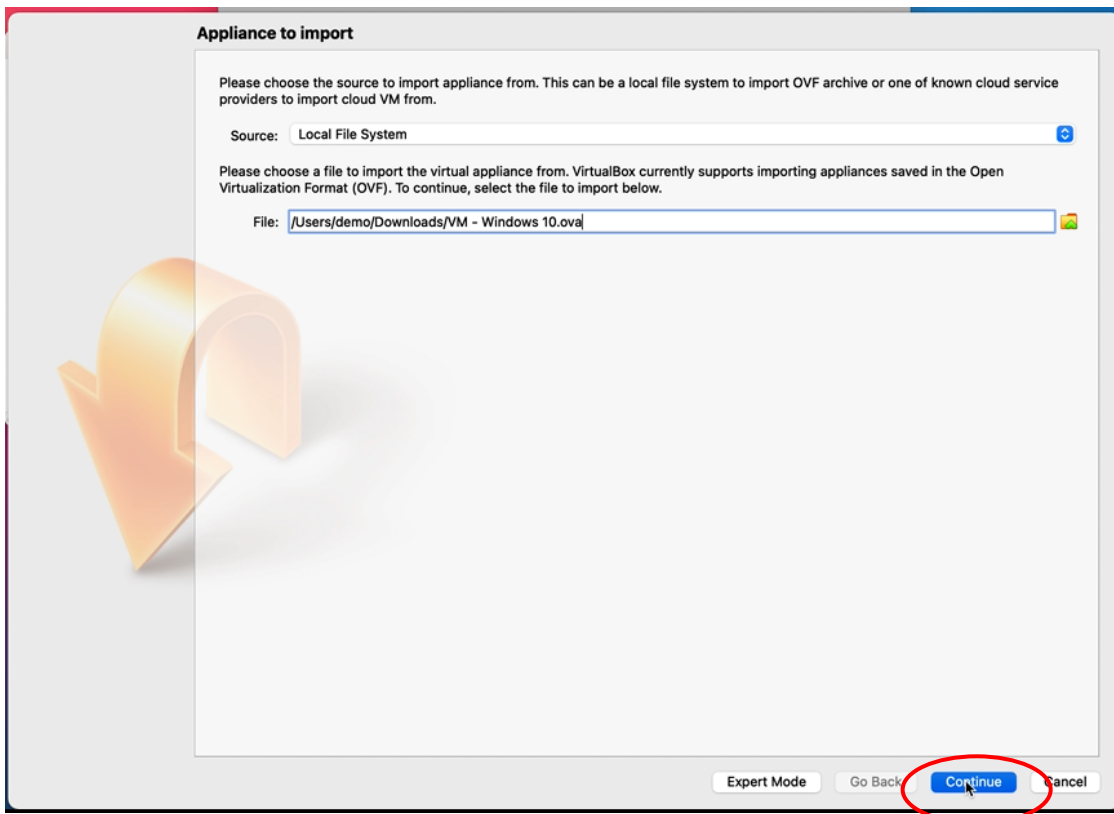


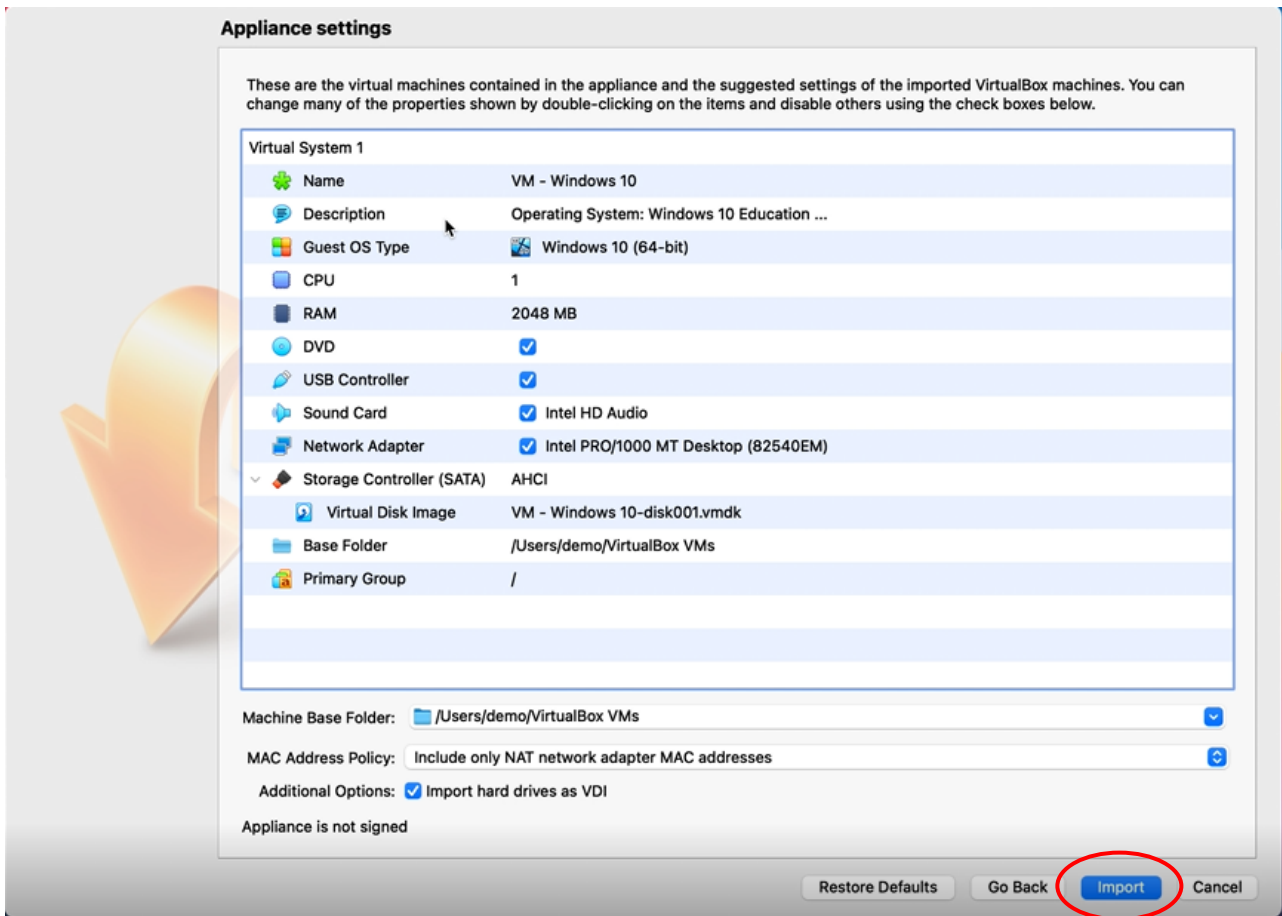
If the VirtualBox application asks for permission to access files as shown in the screenshot below, please click on **OK**.



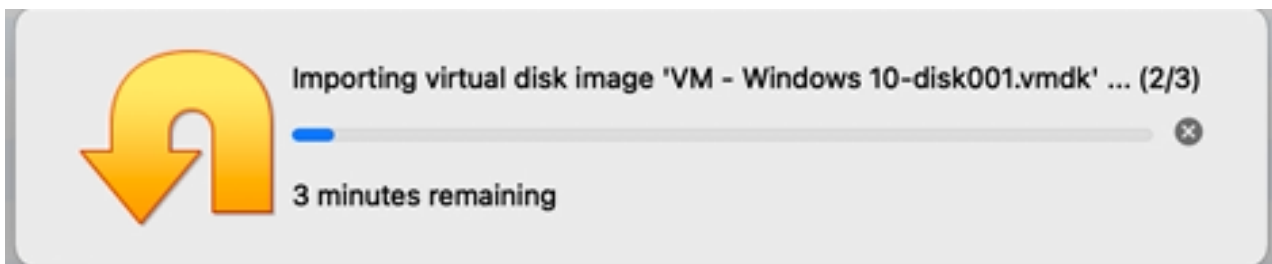
Step 4

Click on **Continue**



Step 5Click on **Import**

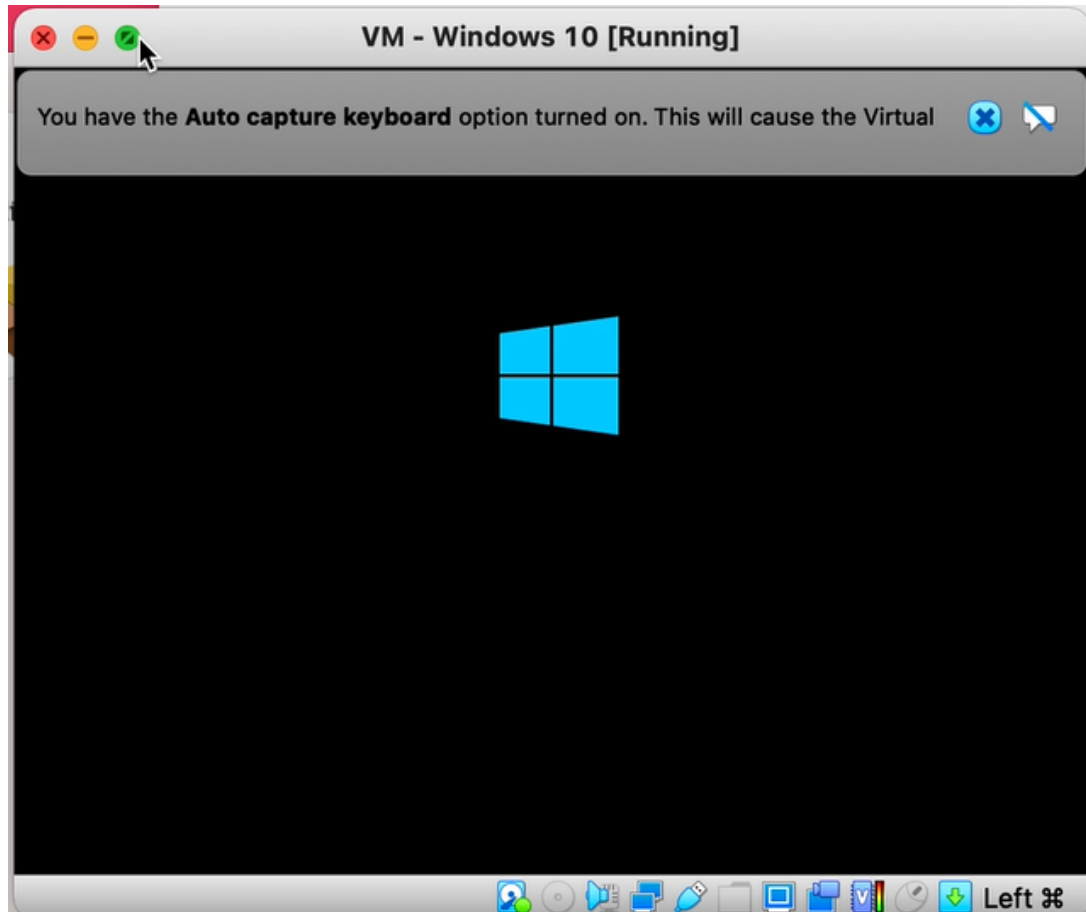
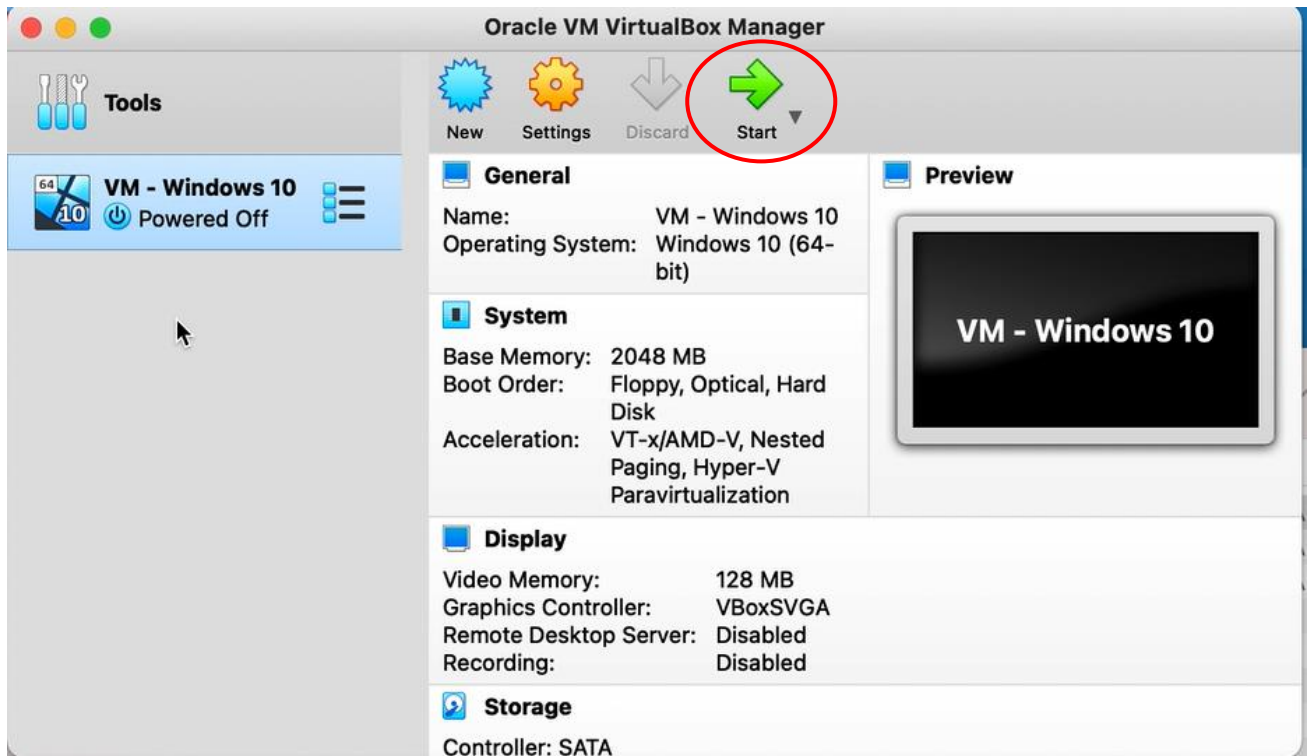
You'll see the progress bar that indicates that the virtual machine is being imported. Once this finishes, you'll see a virtual machine (VM) called **Windows10-VM** created on Virtual Box.



Step 6

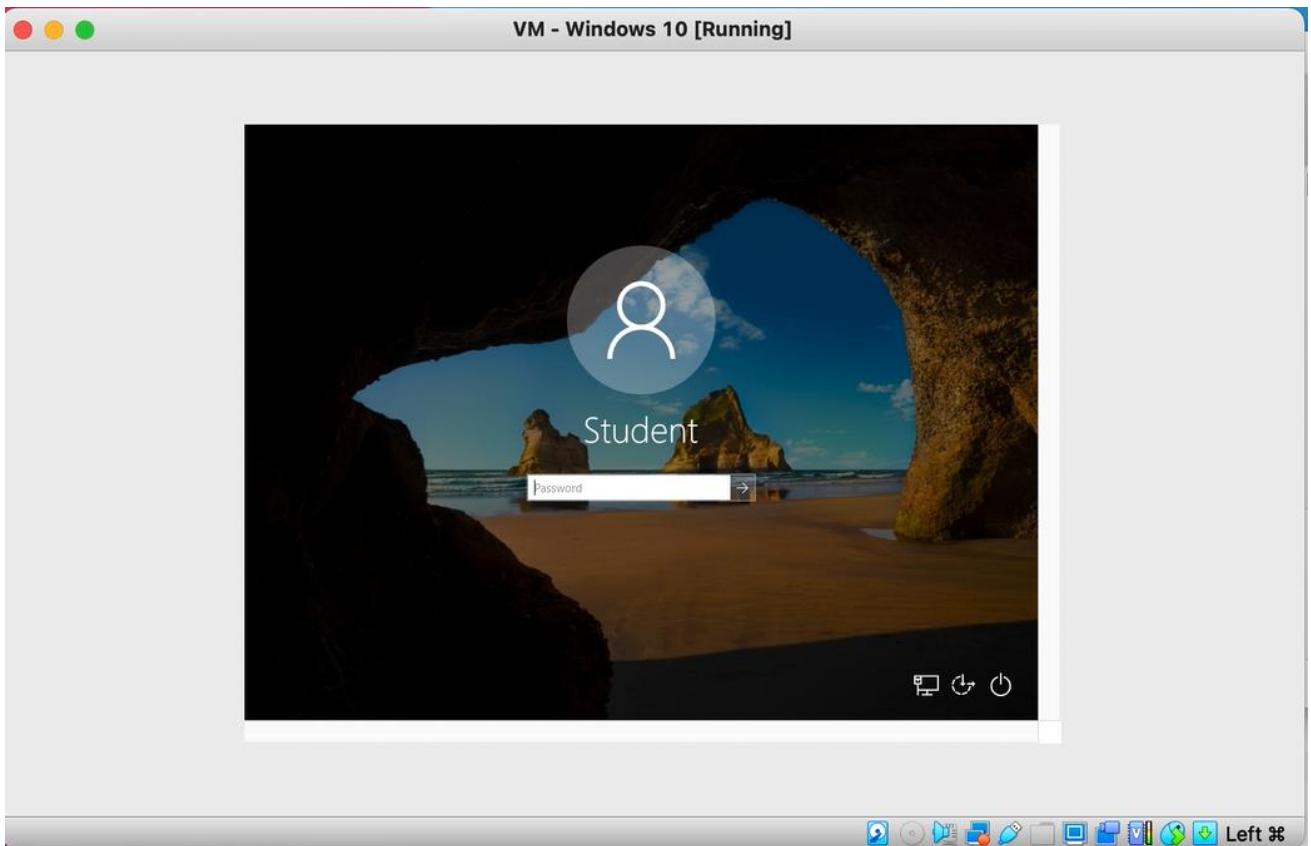
Select the **VM – Windows 10** and click on **Start**

This will start the virtual machine on a new window.



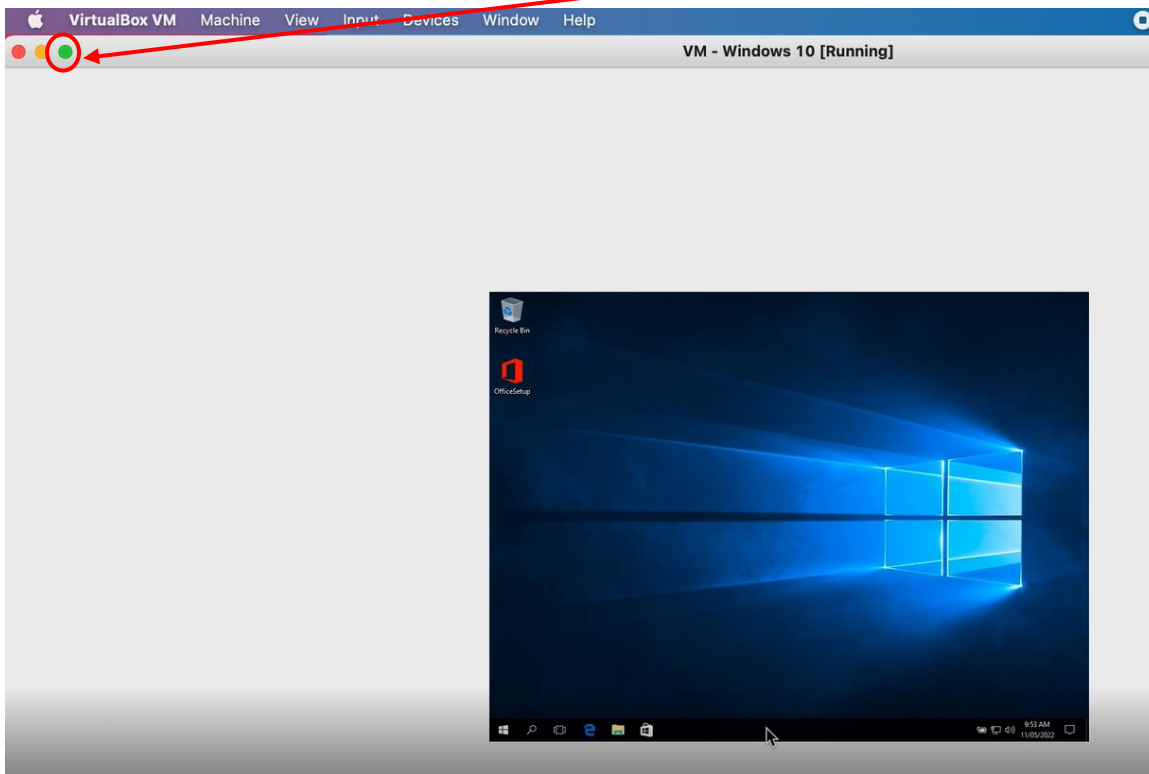
Step 7

Click on the Window and enter the password to login as **Student**. (Note: The password as **password**).

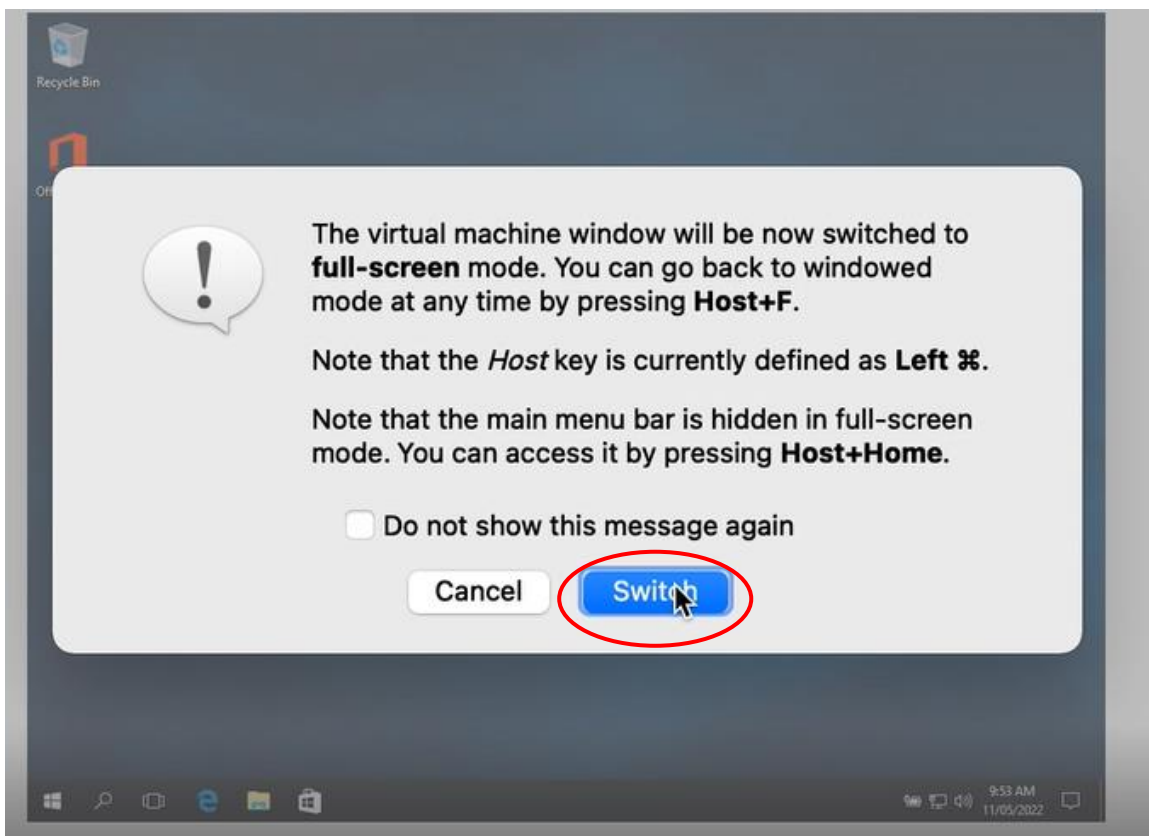


Step 8

Once you have logged in to the Windows 10 virtual machine you will see the desktop of your Windows 10 VM. You can go to full-screen mode by first, selecting the green icon on the top menu bar.

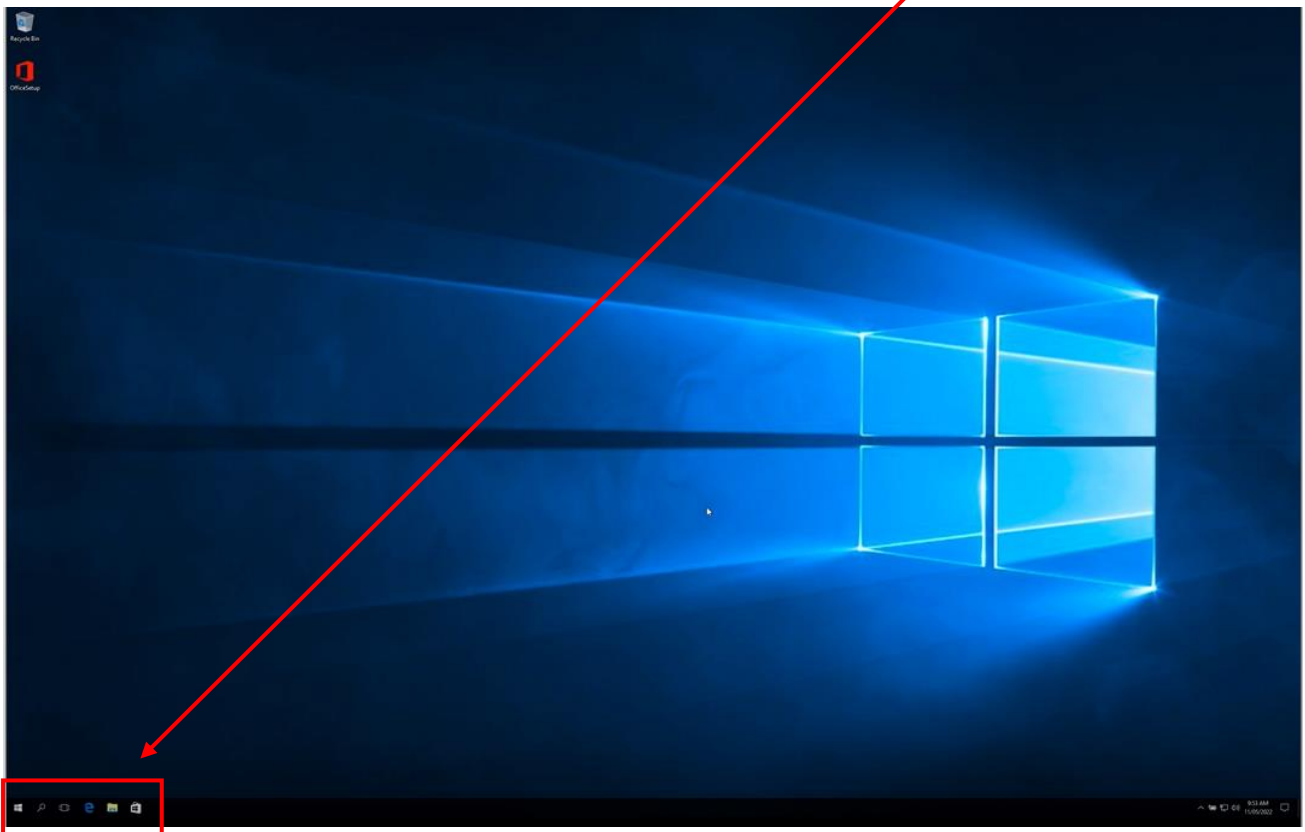


Then select **Switch** in the dialog box that appears.



Step 9

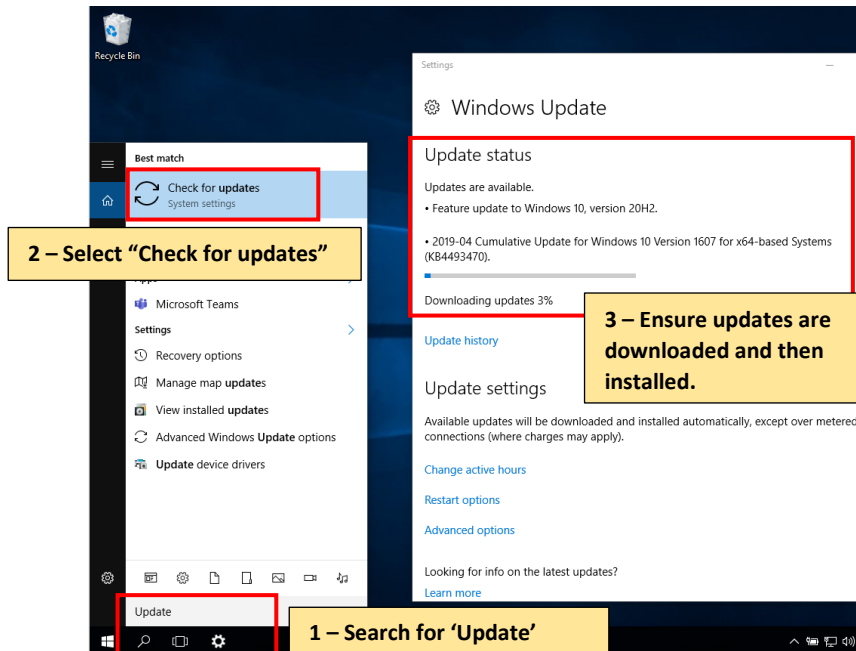
When you are in the full-screen mode, notice the icons on the desktop and **task bar** at the bottom.





Step 10

Now, do the following to further set up your virtual Windows environment.

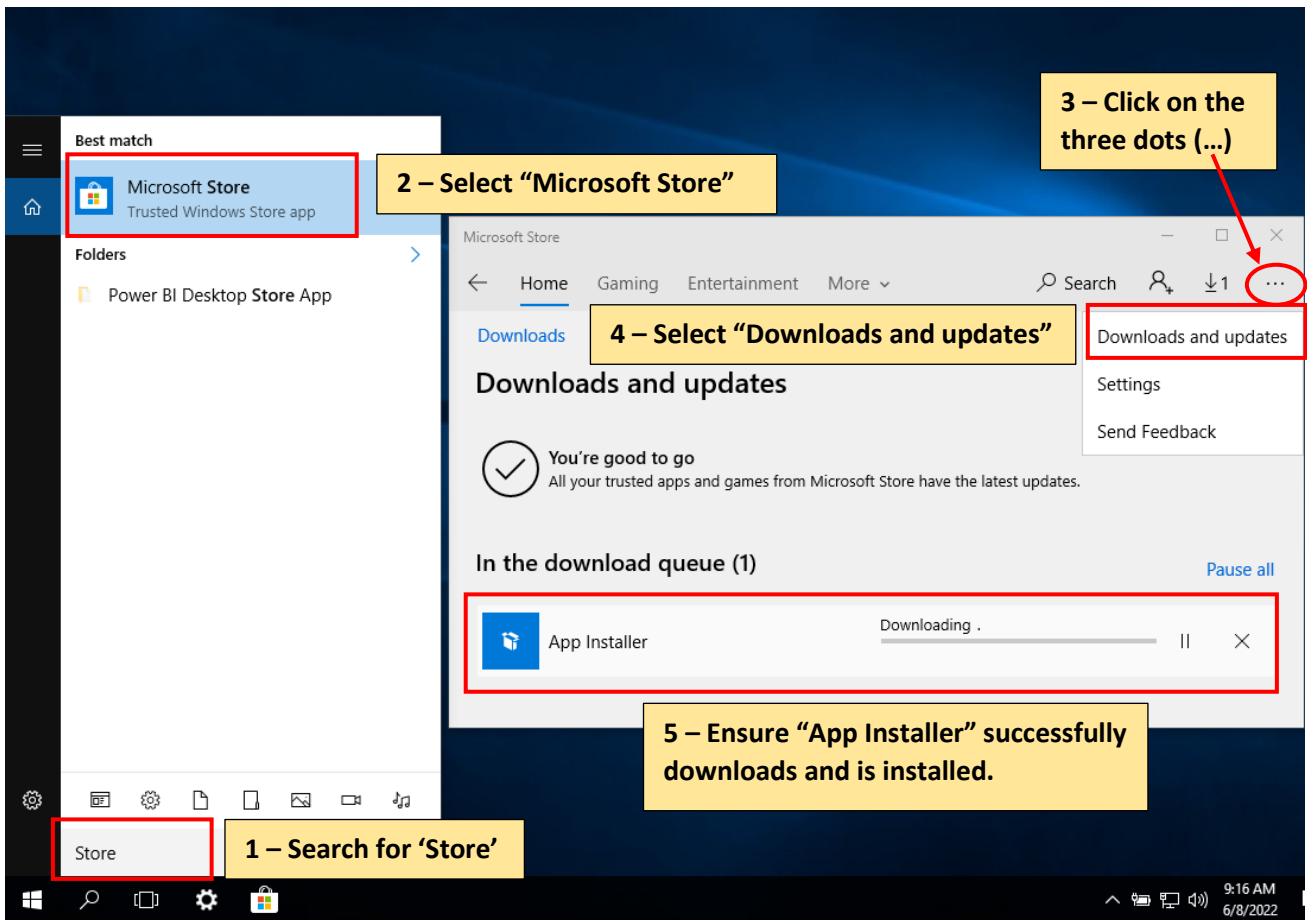
1. Check for Windows updates and allow the virtual machine to install the updates and restart as required. Note: This installation may take quite a long time depending on the internet speed. The following screenshot shows the steps (1 to 3).




2. Double-click on the **OfficeSetup**  icon on the virtual machine's *Desktop* to install Microsoft Office. You will need to use your Office 365 student credentials once it is installed. Note: This installation may take quite a long time depending on the internet speed.

3. Open **Microsoft Store** . Then, select **Downloads and updates**. Ensure that the **App Installer** program is downloaded and installed. Note: This installation may take quite a long time depending on the internet speed.

The following screenshot shows the steps (1 to 5).



4. Use the Microsoft Edge  browser to:
 - a. access the LMS to download the necessary dataset files you'll need to work on for learning and assessments.

Congratulations!

Now you are ready to use your Windows 10 virtual machine to continue through the learning activities and the relevant assessment tasks in this module!