

**Project Title:** Installing Virtual Box on Windows 11

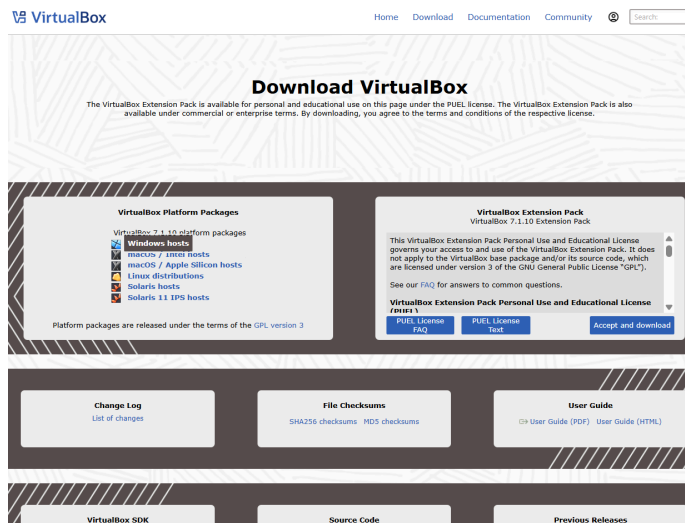
**Project Instructions:** Install Virtual Box and any additional requirements necessary to run Virtual Box. Do not set up a new virtual machine and operating system. That will be completed in the next Project.

**Step 1: Visit the Oracle Virtual Box website**

To download Virtual Box, I navigated to [virtualbox.org](https://www.virtualbox.org) and selected download on the homepage.

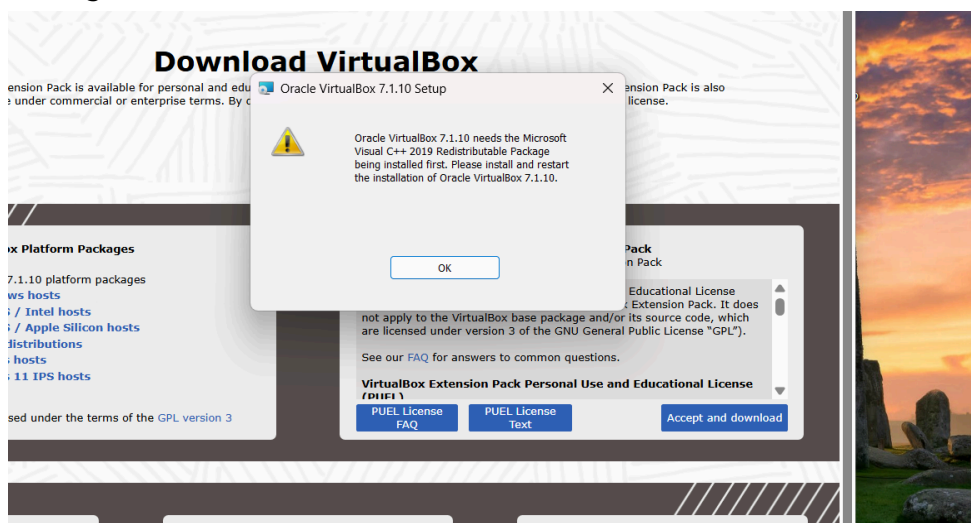
**Step 2: Download VirtualBox for Microsoft (64-bit) (unable due to error in next step)**

After selecting Windows hosts I received an error message.



**Step 3: Received an Error message to download MSFT Visual C++**

The error message below requested that the Microsoft Visual C++ 2019 Redistributable Package be installed first.



**Step 4:** Visited MSFT website to download software

In this step, I navigated to the Microsoft Learn website to download the package. Once the download was complete, I restarted my computer to ensure changes were properly applied.

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## Latest Microsoft Visual C++ Redistributable version

The latest version is `v14.44.35208.0`

Use the following links to download this version for each supported architecture:

Expand table

Architecture	Link	Notes
ARM64	<a href="https://aka.ms/vs/17/release/vc_redist.arm64.exe">https://aka.ms/vs/17/release/vc_redist.arm64.exe</a>	Permalink for latest supported ARM64 version
X86	<a href="https://aka.ms/vs/17/release/vc_redist.x86.exe">https://aka.ms/vs/17/release/vc_redist.x86.exe</a>	Permalink for latest supported x86 version
X64	<a href="https://aka.ms/vs/17/release/vc_redist.x64.exe">https://aka.ms/vs/17/release/vc_redist.x64.exe</a>	Permalink for latest supported x64 version. The X64 Redistributable package contains both ARM64 and X64 binaries. This package makes it easy to install required Visual C++ ARM64 binaries when the X64 Redistributable is installed on an ARM64 device.

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Microsoft Visual C++ 2015-2022 Redistributable (x64) - 14.44.35208

Setup Progress

Processing: Microsoft Visual C++ 2022 X64 Minimum Runtime - 14.44.35208

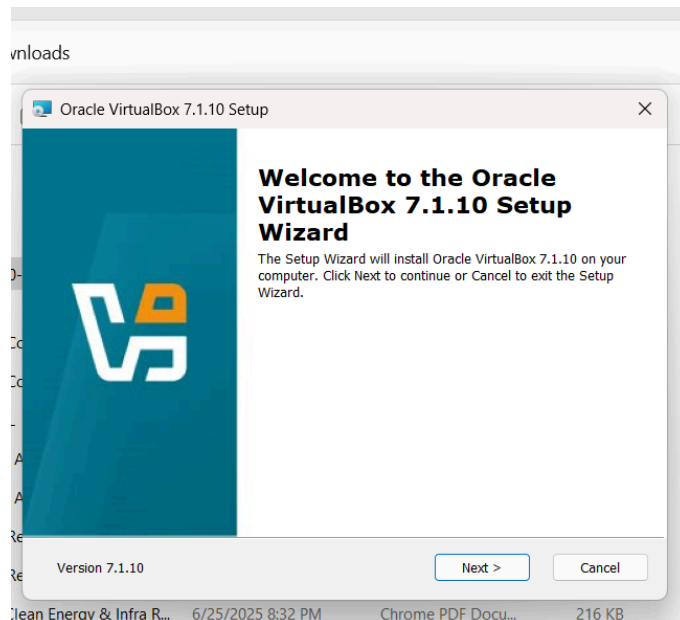
Cancel

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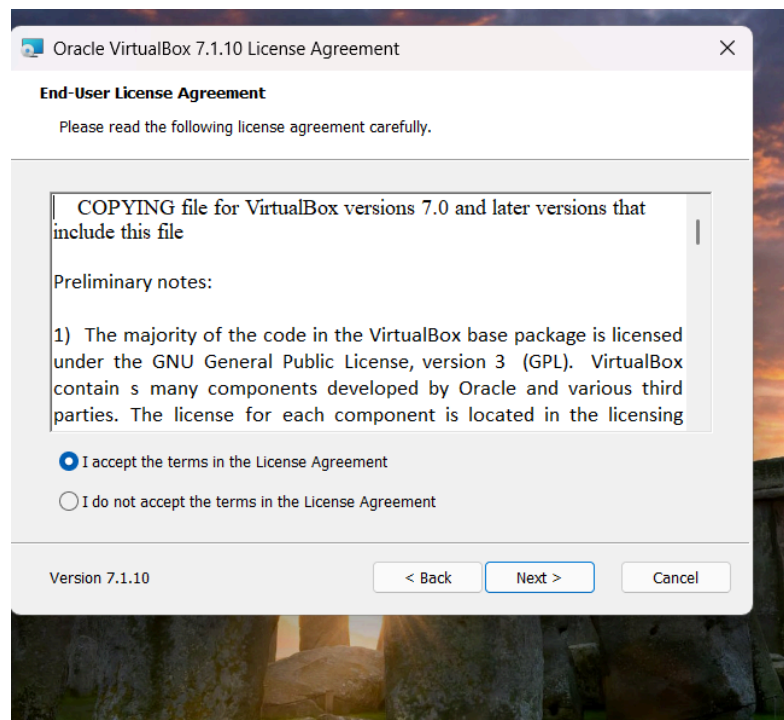
for latest ARM64 version
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### Step 5: Downloading virtual box after restart

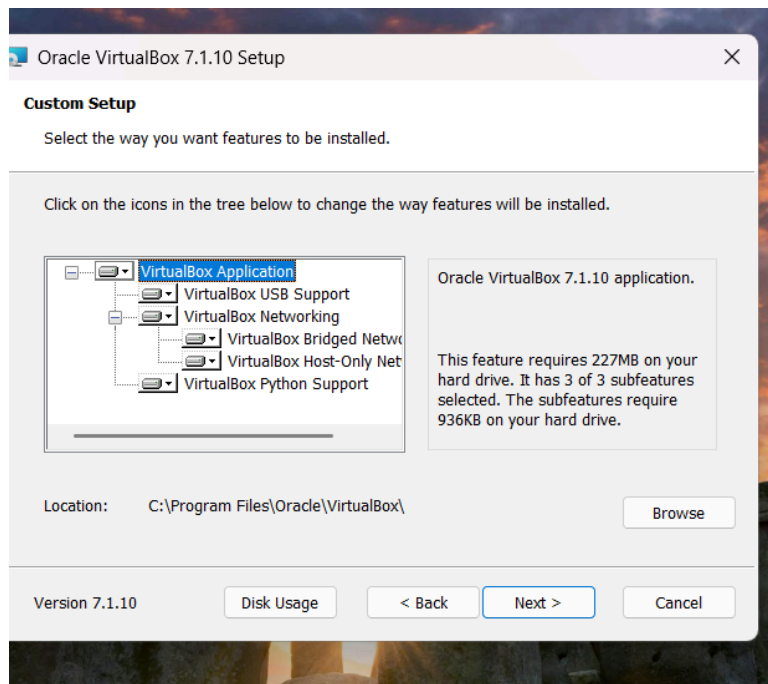
After installing the Microsoft package, I restarted VirtualBox and began the installation process.



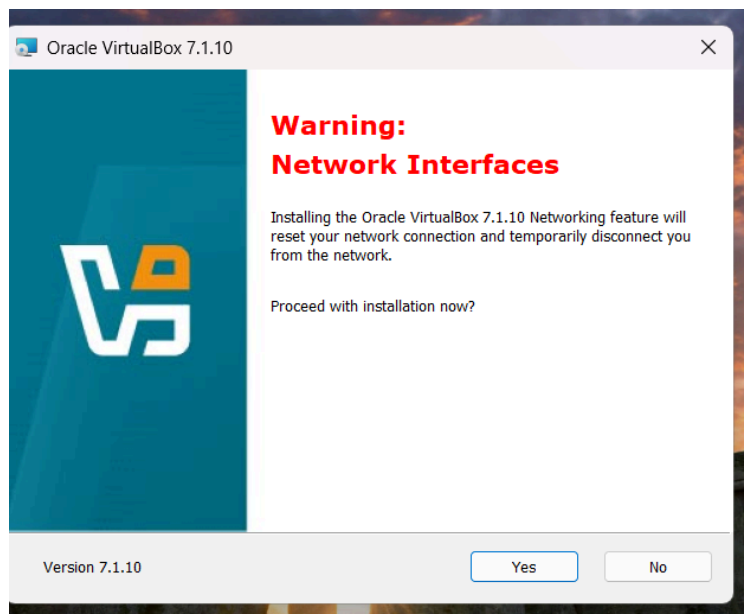
### Step 6: Virtual box install navigation –agree to the terms.



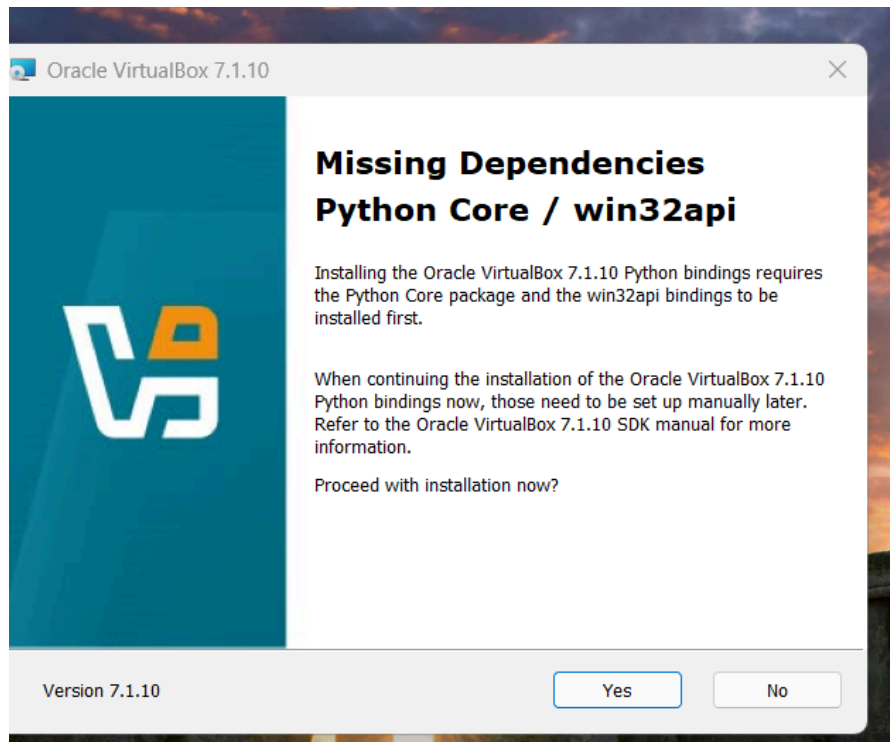
Continue navigating through the installation process. \*No changes were made.



This warning screen appeared, I selected yes and proceeded to the next step.

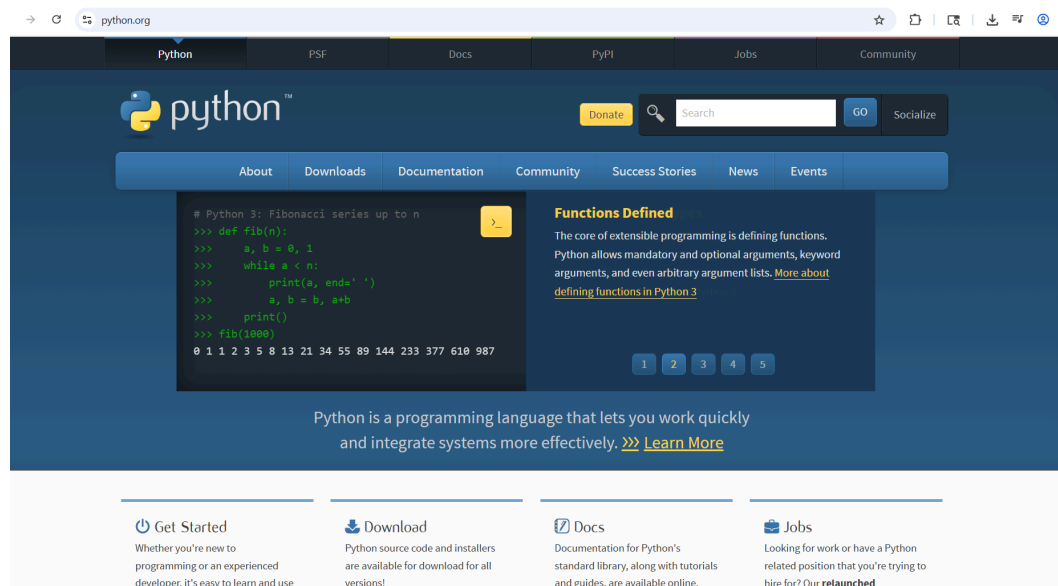


In this step, I received a notification that I needed to download Python and the win32api. Instead of completing the VirtualBox installation, I selected no and proceeded to download Python instead of manually installing bindings later.



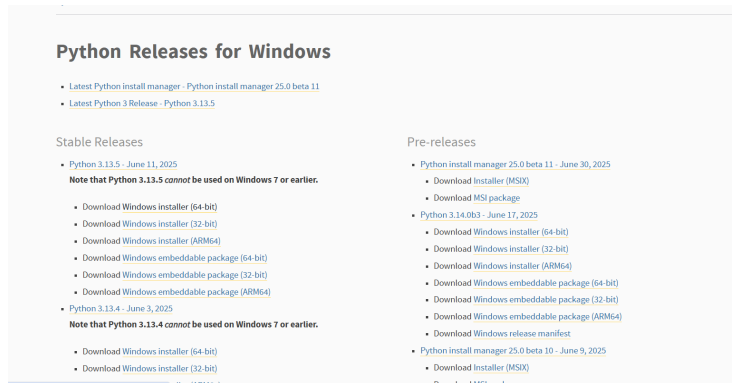
### Step 7: Download Python

In this step, I navigated to the Python website.



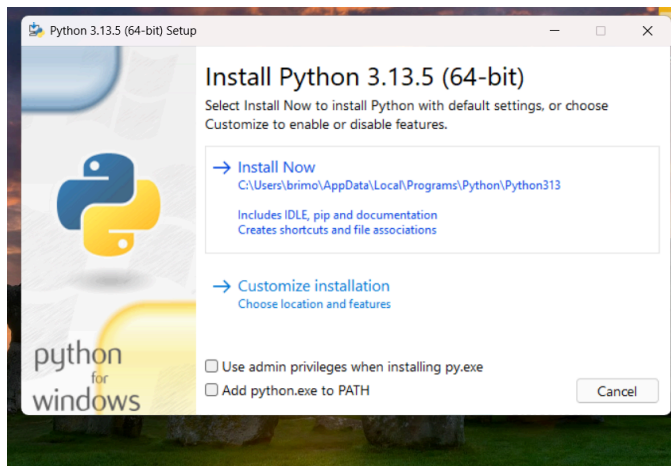
### **Step 8: Select the Windows Installer**

In this step I selected the Windows Installer(64-bit).



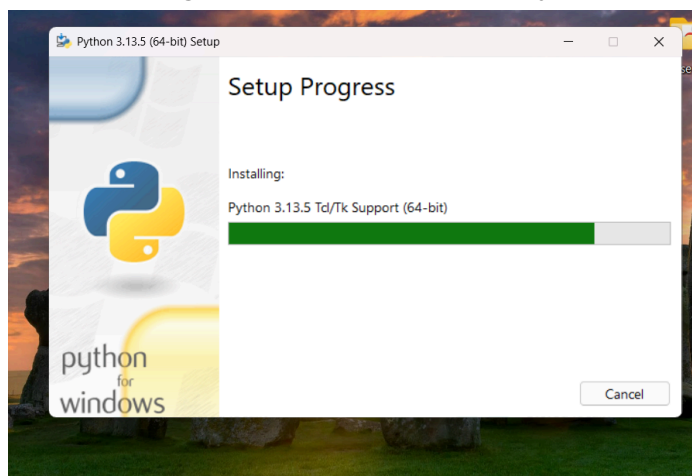
### **Step 9: Python Installer**

In the Python Installer below, I selected User admin privileges when installing py.exe as well as Add python.exe to Path. Once selected, I clicked Install Now.

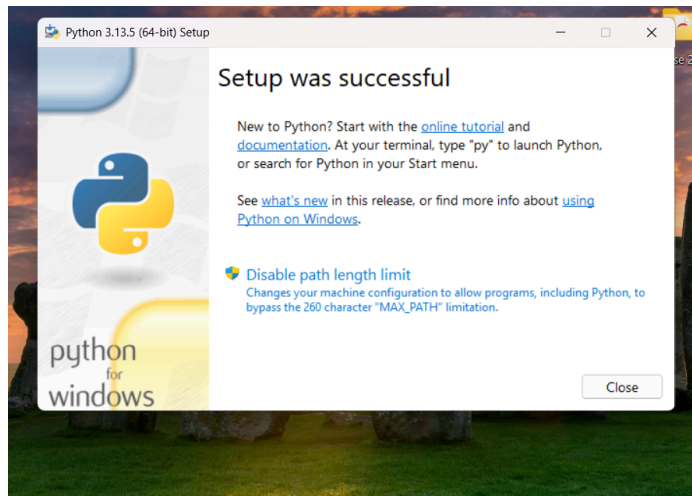


### **Step 10: Setup Progress Loading**

After selecting Install Now, I waited for Python to install.



### Step 11: Python setup was successful!

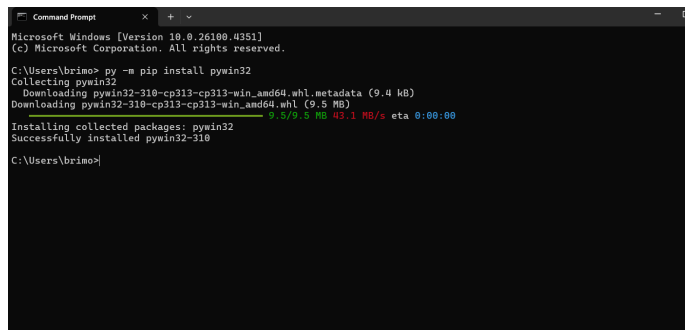


### Step 12: Install win32 api through Microsoft Command Prompt

In this step, I used an instruction from Stack Overflow to add the following command into the Microsoft Command Prompt:

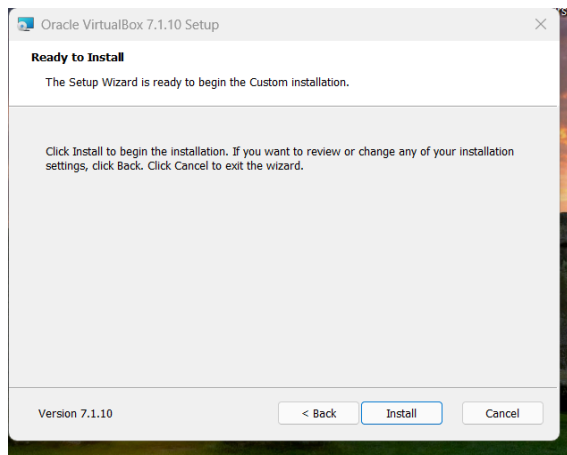
- `Py -m pip install pywin32`

This command was to install the win32api



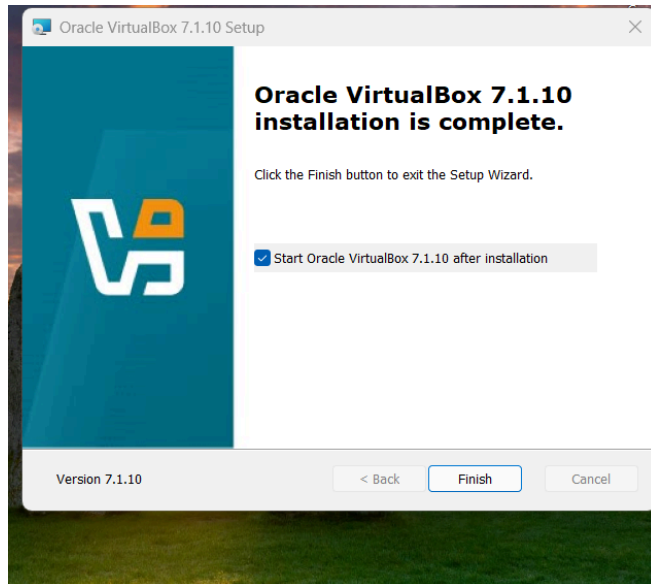
### Step 13: Navigate back to Virtual Box to install

After installing Python and the api, I was able to restart the installation process for VirtualBox.



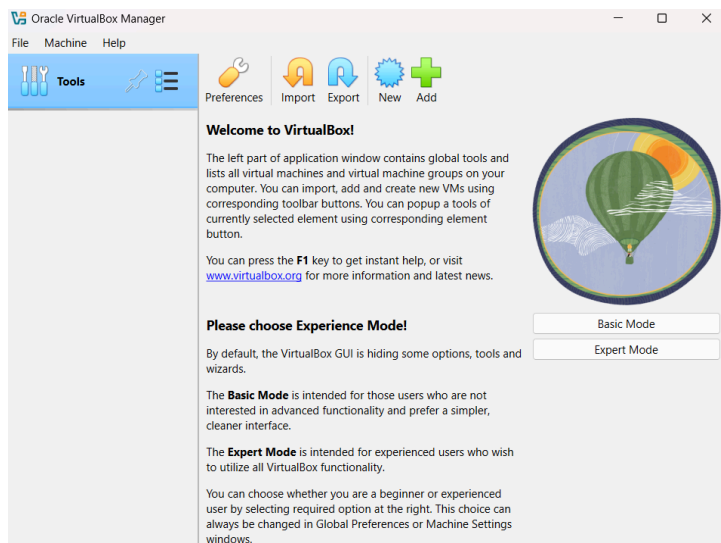
### Step 14: Download Complete!

In this step VirtualBox was successfully installed.



### Step 15: Virtual Box Home Screen

Below is the homescreen of the Oracle VirtualBox Manager.



### **Summary:**

In this Project, Installing VirtualBox, I was able to install VirtualBox, Python, and Microsoft Visual C++ 2019 Redistributed, on a system with Windows 11. Throughout this Project, I sharpened and developed a number of skills such as installing software, troubleshooting installation issues, as well as working with Microsoft Command Prompt. In macOS, I am able to use Linux commands in the terminal, however with Microsoft I had to research various commands specific to its operating system and test basic commands. Overall, this simple Project allowed me to set up the foundation to proceed with more advanced Projects that provide more in depth learning opportunities and skill development.