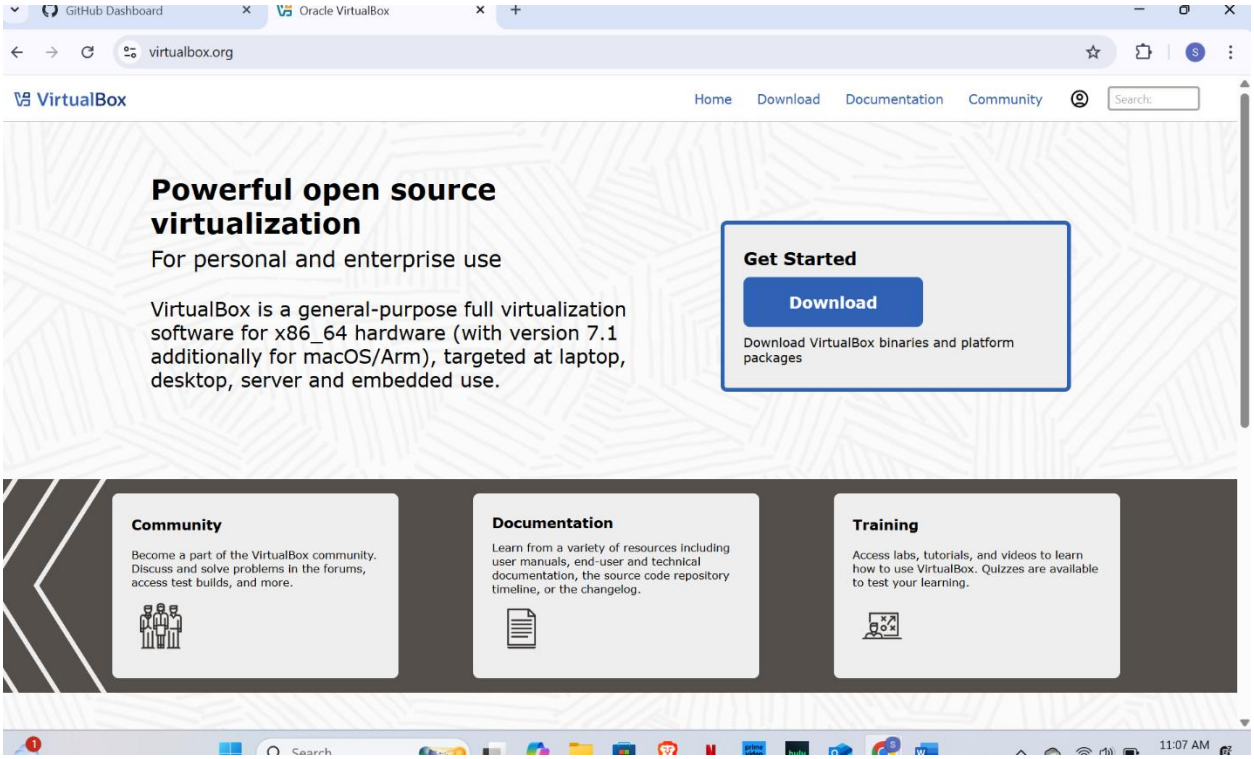
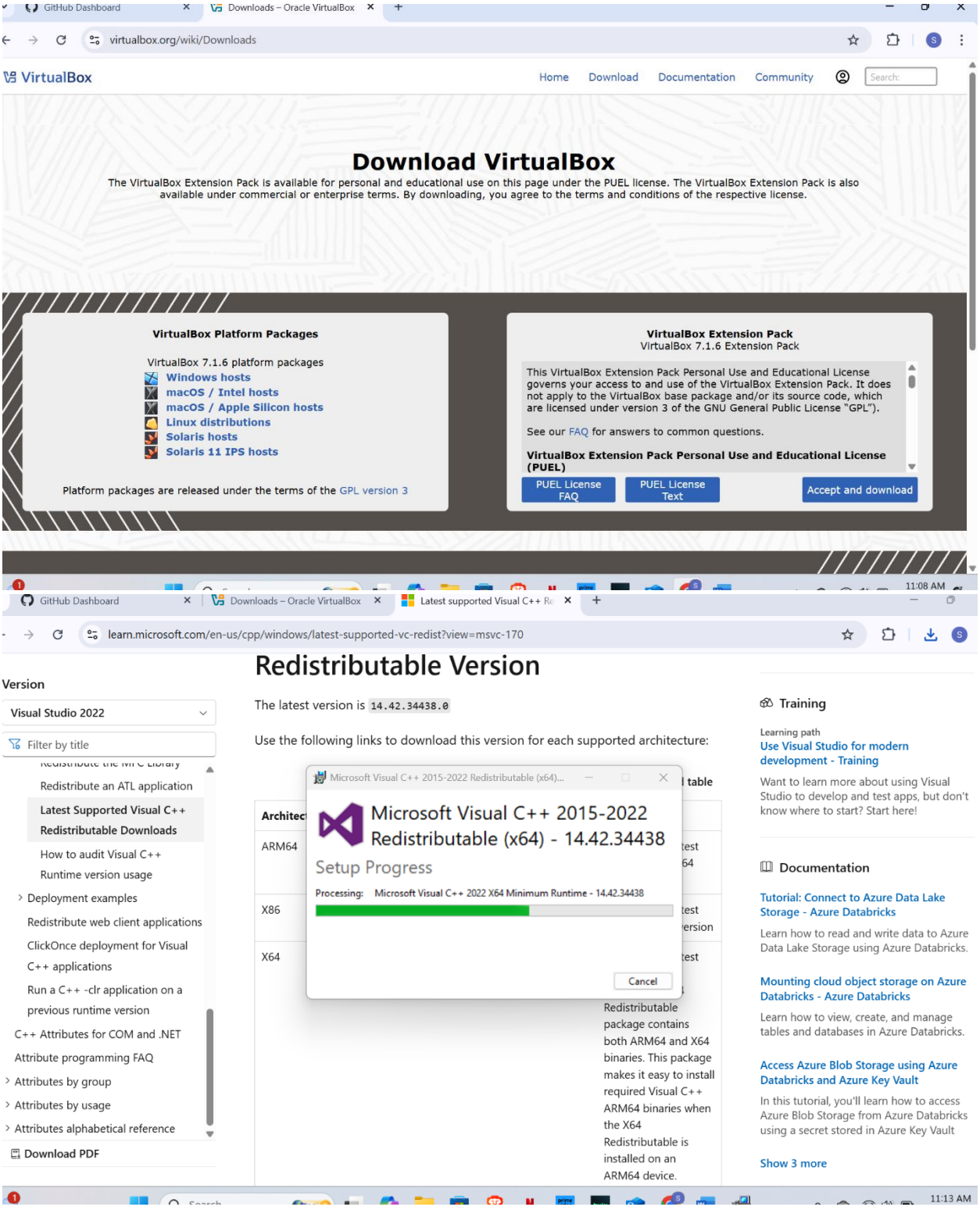
Desktop Virtualization: Installing a Virtual Machine

virtual machine using Oracle VM VirtualBox

Go to virutalbox.org and download latest virtual box





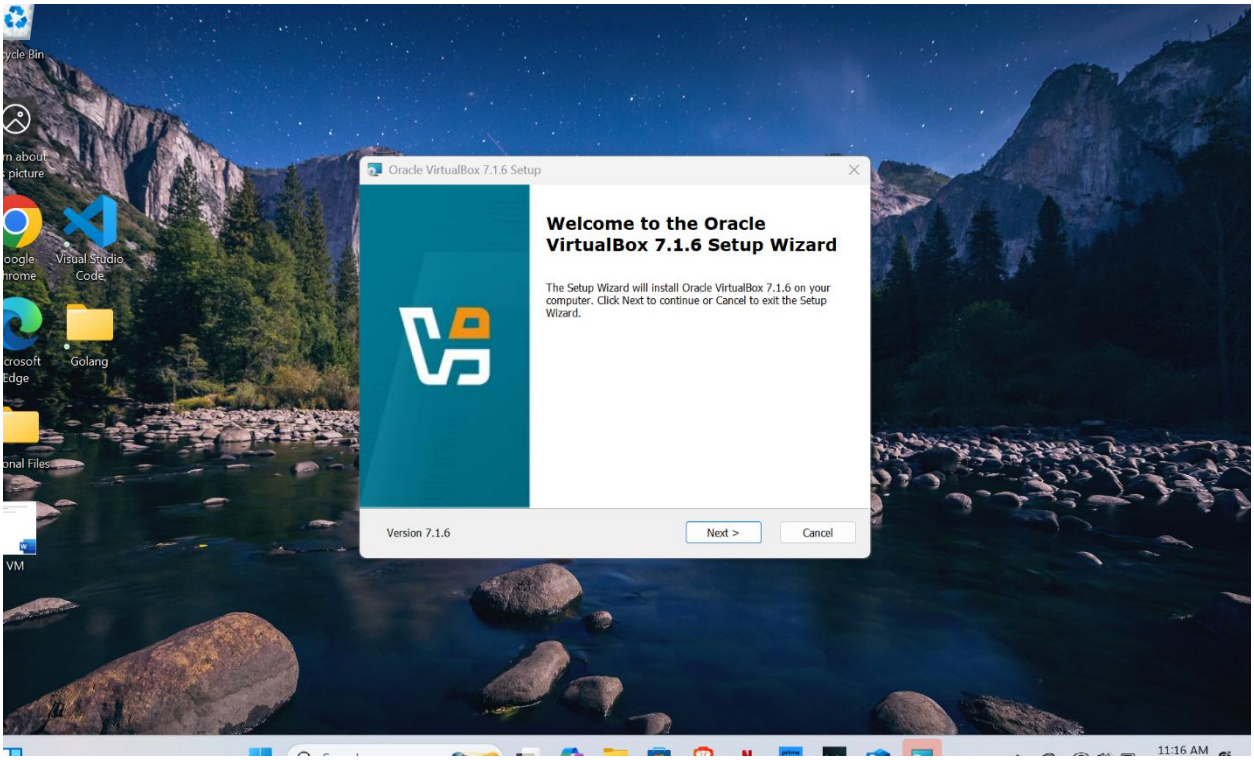
Install Microsoft Visual C++ Redistributable driver to install virtual box

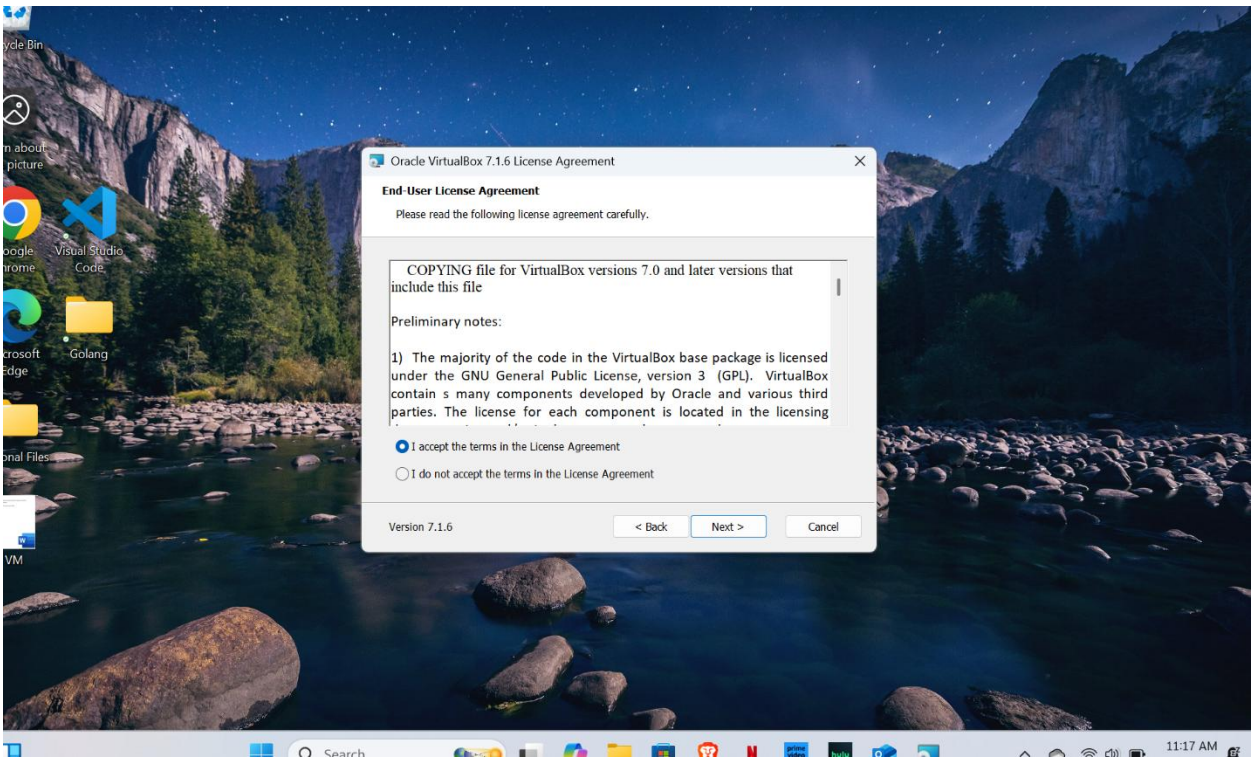
VirtualBox is developed in C++ and **depends on these runtime components** to function correctly. Without them, certain core functions—such as loading kernel modules, rendering the UI, or running virtual machines—may fail or produce errors like:

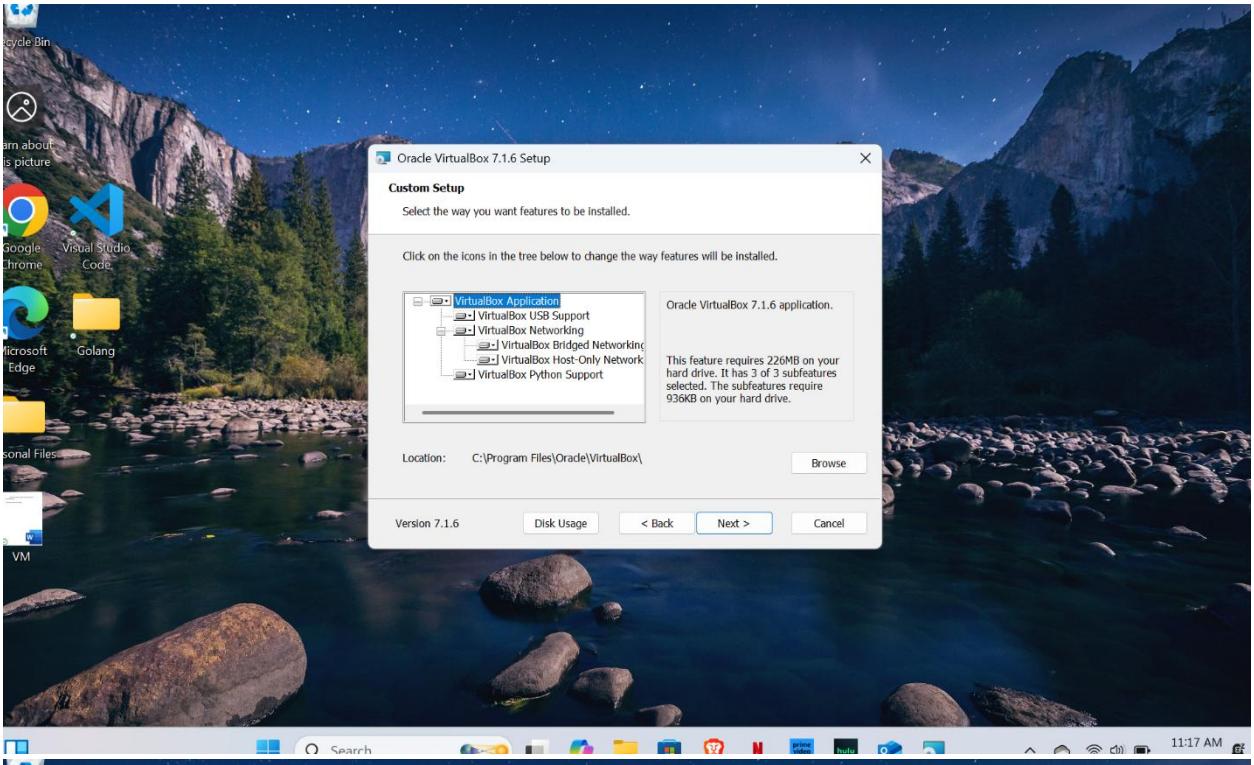
- SUPR3HardenedWinRespawn
- “Kernel driver not installed”
- Unexpected crashes when launching the VM

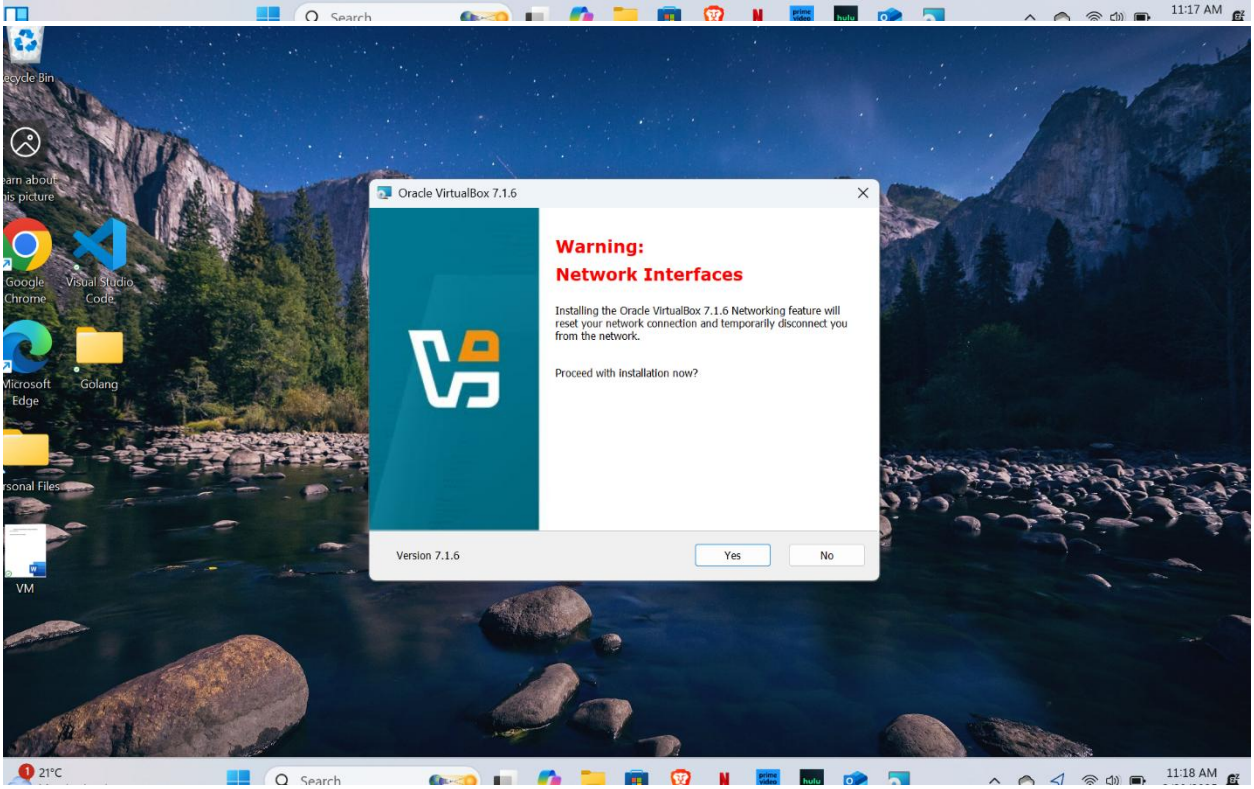
📌 **Key Points:**

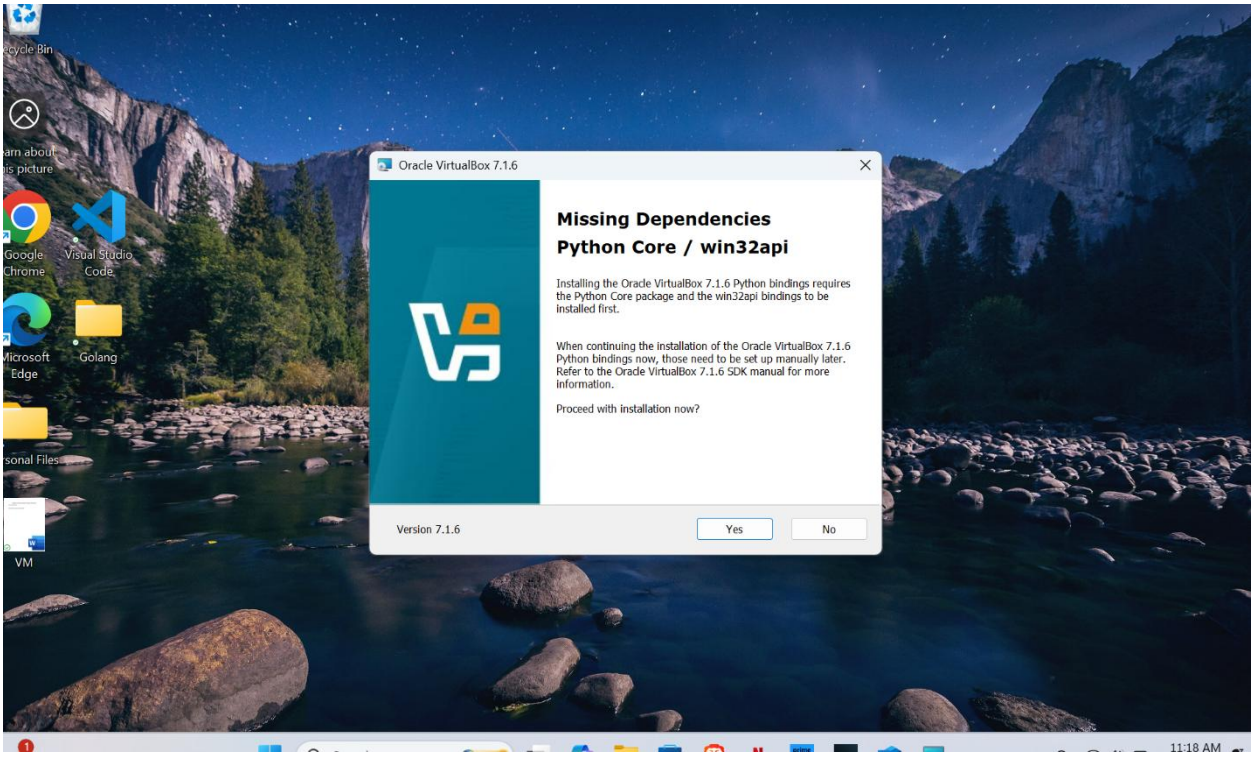
- It provides required **DLLs and runtime components** like MSVCP140.dll, VCRUNTIME140.dll, etc.
- These are needed for **VirtualBox services and UI** to work smoothly on Windows.
- The installer ensures that your system has the correct version of the C++ runtime for compatibility.

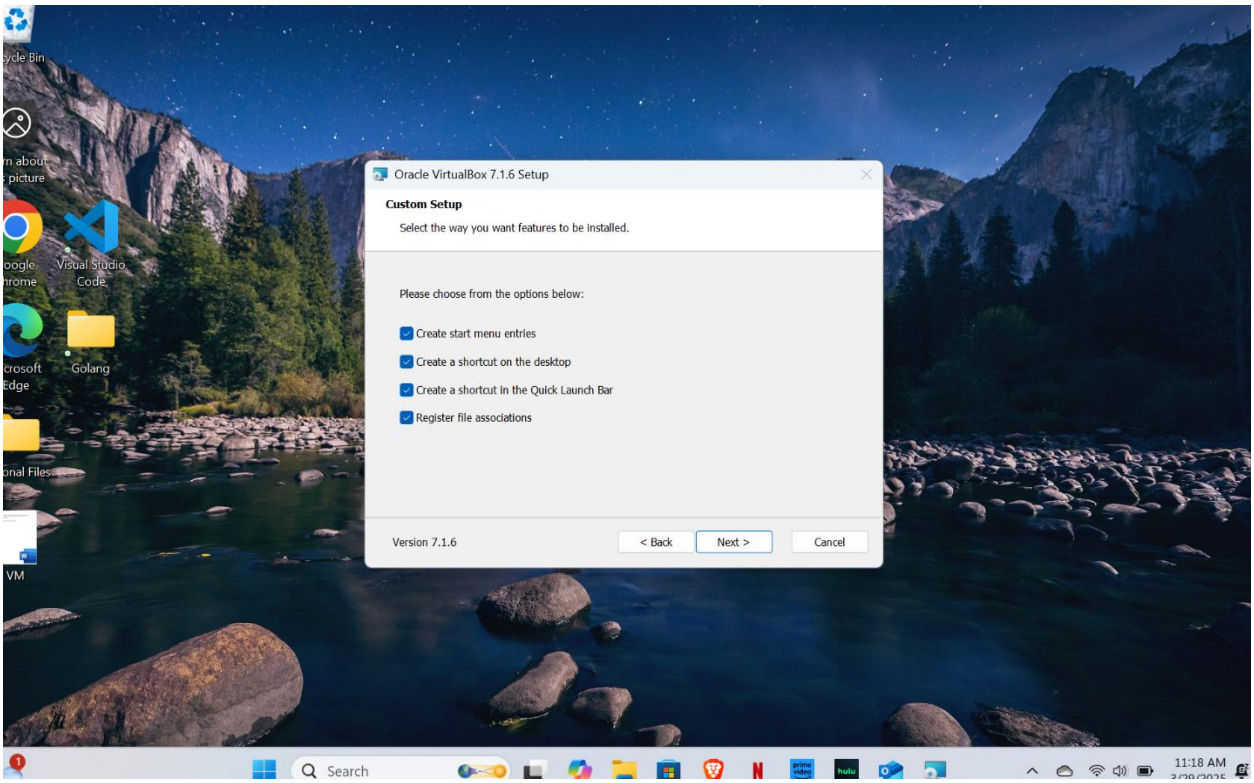

Oracle VirtualBox 7.1.6 Setup
Welcome to the Oracle VirtualBox 7.1.6 Setup Wizard
The Setup Wizard will install Oracle VirtualBox 7.1.6 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
Version 7.1.6
Next >
Cancel
Visual Studio Code
Golang
11:16 AM

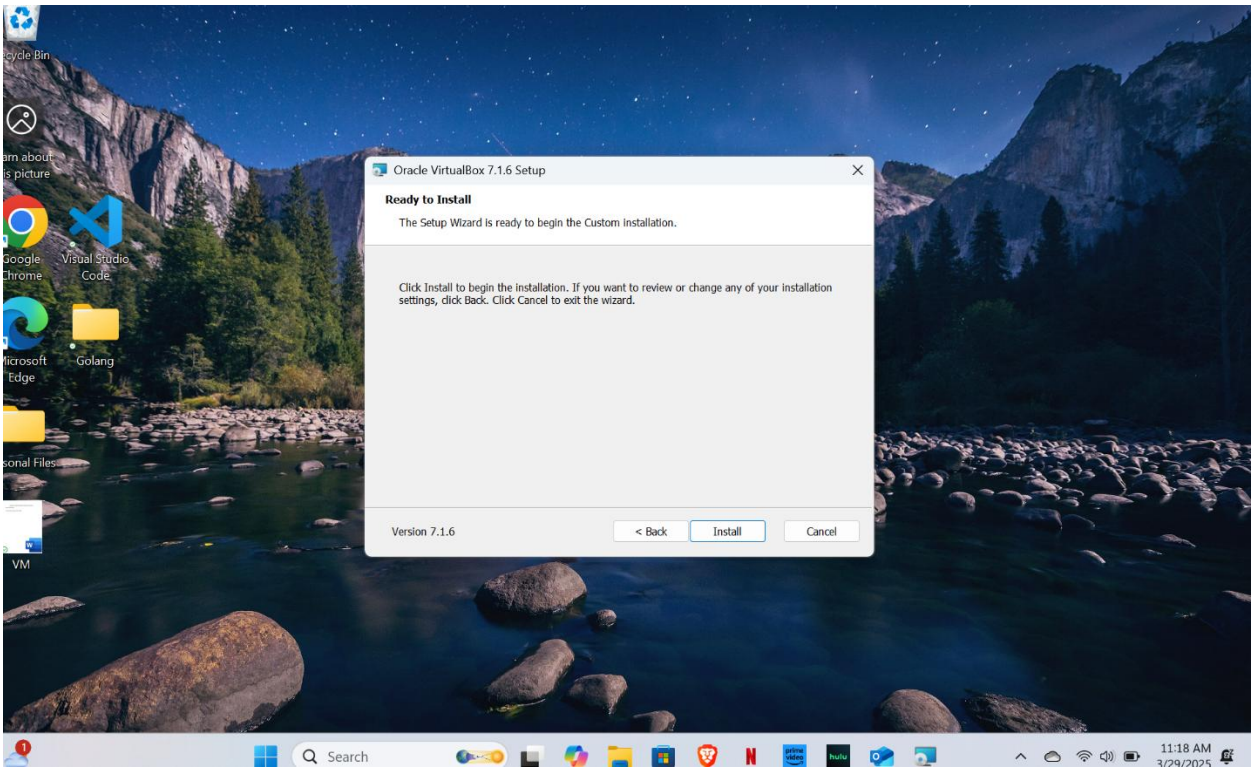

Oracle VirtualBox 7.1.6 License Agreement
End-User License Agreement
Please read the following license agreement carefully.
COPYING file for VirtualBox versions 7.0 and later versions that include this file
Preliminary notes:
1) The majority of the code in the VirtualBox base package is licensed under the GNU General Public License, version 3 (GPL). VirtualBox contain s many components developed by Oracle and various third parties. The license for each component is located in the licensing
I accept the terms in the License Agreement
I do not accept the terms in the License Agreement
Version 7.1.6
< Back
Next >
Cancel
Visual Studio Code
Golang
11:17 AM

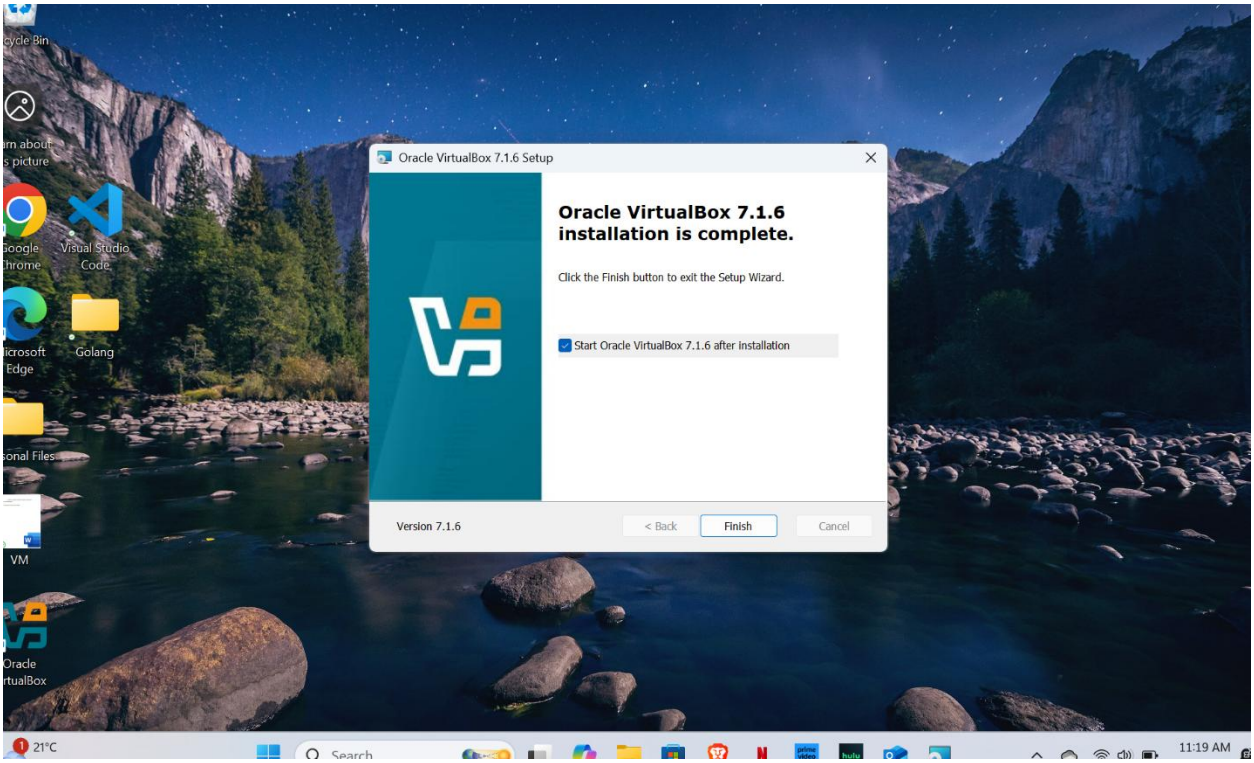

Oracle VirtualBox 7.1.6 Setup
Custom Setup
Select the way you want features to be installed.
Click on the icons in the tree below to change the way features will be installed.
VirtualBox Application
VirtualBox USB Support
VirtualBox Networking
VirtualBox Bridged Networking
VirtualBox Host-Only Network
VirtualBox Python Support
Oracle VirtualBox 7.1.6 application.
This feature requires 226MB on your hard drive. It has 3 of 3 subfeatures selected. The subfeatures require 936KB on your hard drive.
Location: C:\Program Files\Oracle\VirtualBox\
Browse
Version 7.1.6
Disk Usage
< Back
Next >
Cancel

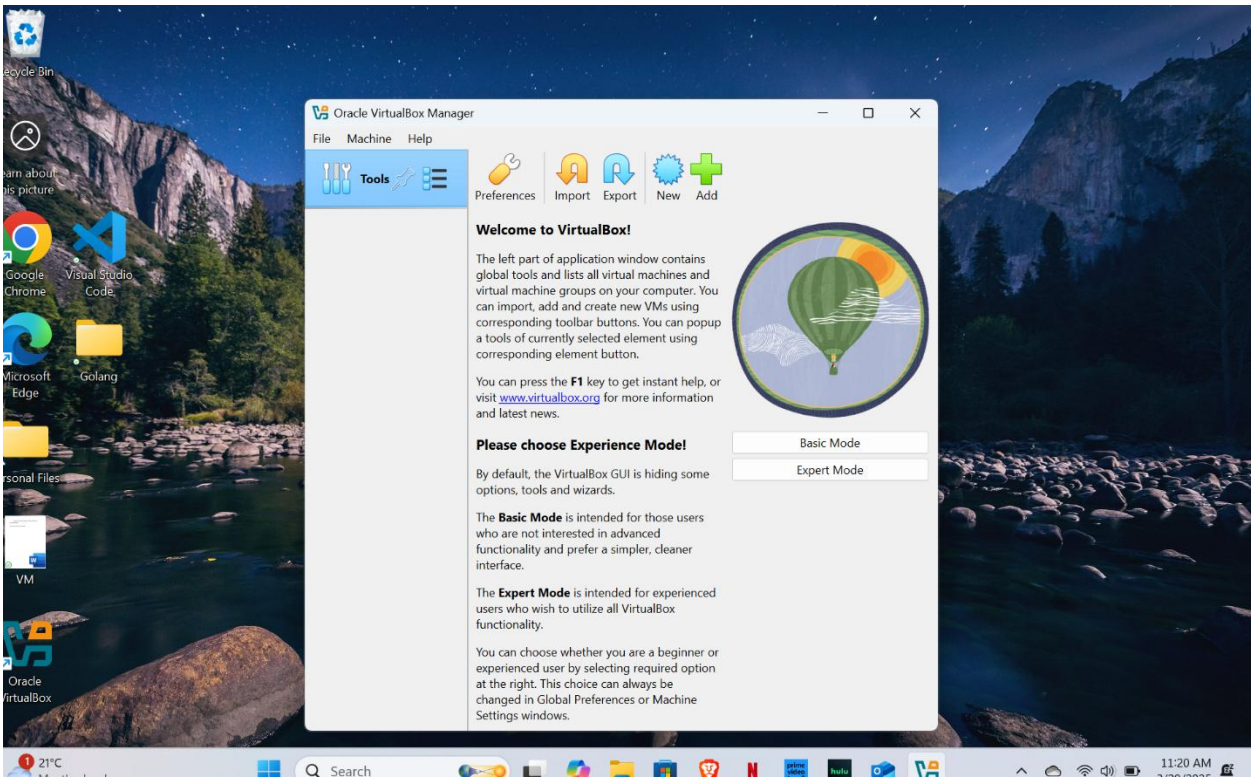

Oracle VirtualBox 7.1.6
Warning:
Network Interfaces
Installing the Oracle VirtualBox 7.1.6 Networking feature will reset your network connection and temporarily disconnect you from the network.
Proceed with installation now?
Version 7.1.6
Yes
No

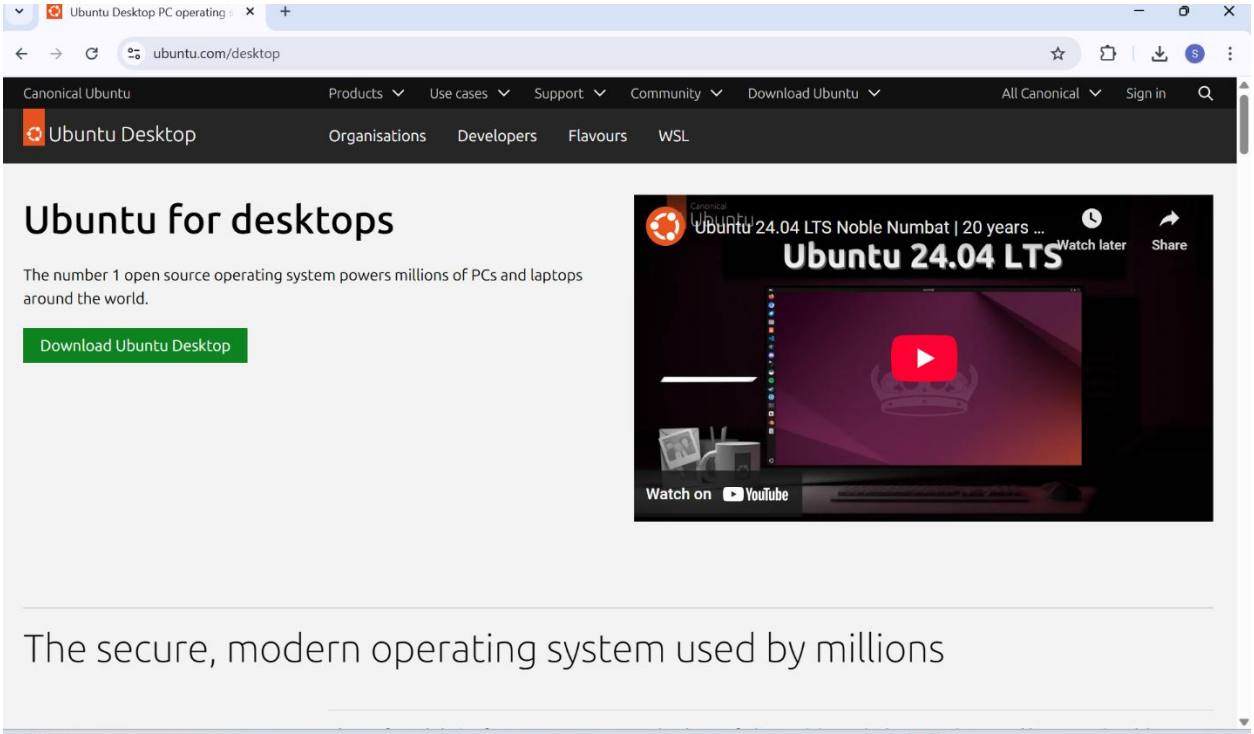

Oracle VirtualBox 7.1.6
Missing Dependencies
Python Core / win32api
Installing the Oracle VirtualBox 7.1.6 Python bindings requires the Python Core package and the win32api bindings to be installed first.
When continuing the installation of the Oracle VirtualBox 7.1.6 Python bindings now, those need to be set up manually later. Refer to the Oracle VirtualBox 7.1.6 SDK manual for more information.
Proceed with installation now?
Version 7.1.6
Yes
No
Google Chrome
Visual Studio Code
Microsoft Edge
Golang
VM
11:18 AM


Oracle VirtualBox 7.1.6 Setup
Custom Setup
Select the way you want features to be installed.
Please choose from the options below:
Create start menu entries
Create a shortcut on the desktop
Create a shortcut in the Quick Launch Bar
Register file associations
Version 7.1.6
< Back
Next >
Cancel
Visual Studio Code
Golang
VM
Search
11:18 AM


Oracle VirtualBox 7.1.6 Setup
Ready to Install
The Setup Wizard is ready to begin the Custom installation.
Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
Version 7.1.6
< Back
Install
Cancel
Visual Studio Code
Golang
VM
Search
11:18 AM
3/29/2025


Oracle VirtualBox 7.1.6 Setup
Oracle VirtualBox 7.1.6 installation is complete.
Click the Finish button to exit the Setup Wizard.
Start Oracle VirtualBox 7.1.6 after installation
Version 7.1.6
< Back
Finish
Cancel
Visual Studio Code
Golang
VM
11:19 AM


Oracle VirtualBox Manager
File
Machine
Help
Tools
Preferences
Import
Export
New
Add
Welcome to VirtualBox!
The left part of application window contains global tools and lists all virtual machines and virtual machine groups on your computer. You can import, add and create new VMs using corresponding toolbar buttons. You can popup a tools of currently selected element using corresponding element button.
You can press the F1 key to get instant help, or visit www.virtualbox.org for more information and latest news.
Please choose Experience Mode!
By default, the VirtualBox GUI is hiding some options, tools and wizards.
The Basic Mode is intended for those users who are not interested in advanced functionality and prefer a simpler, cleaner interface.
The Expert Mode is intended for experienced users who wish to utilize all VirtualBox functionality.
You can choose whether you are a beginner or experienced user by selecting required option at the right. This choice can always be changed in Global Preferences or Machine Settings windows.
Basic Mode
Expert Mode
Visual Studio Code
Golang
VM
11:20 AM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Use cases
Support
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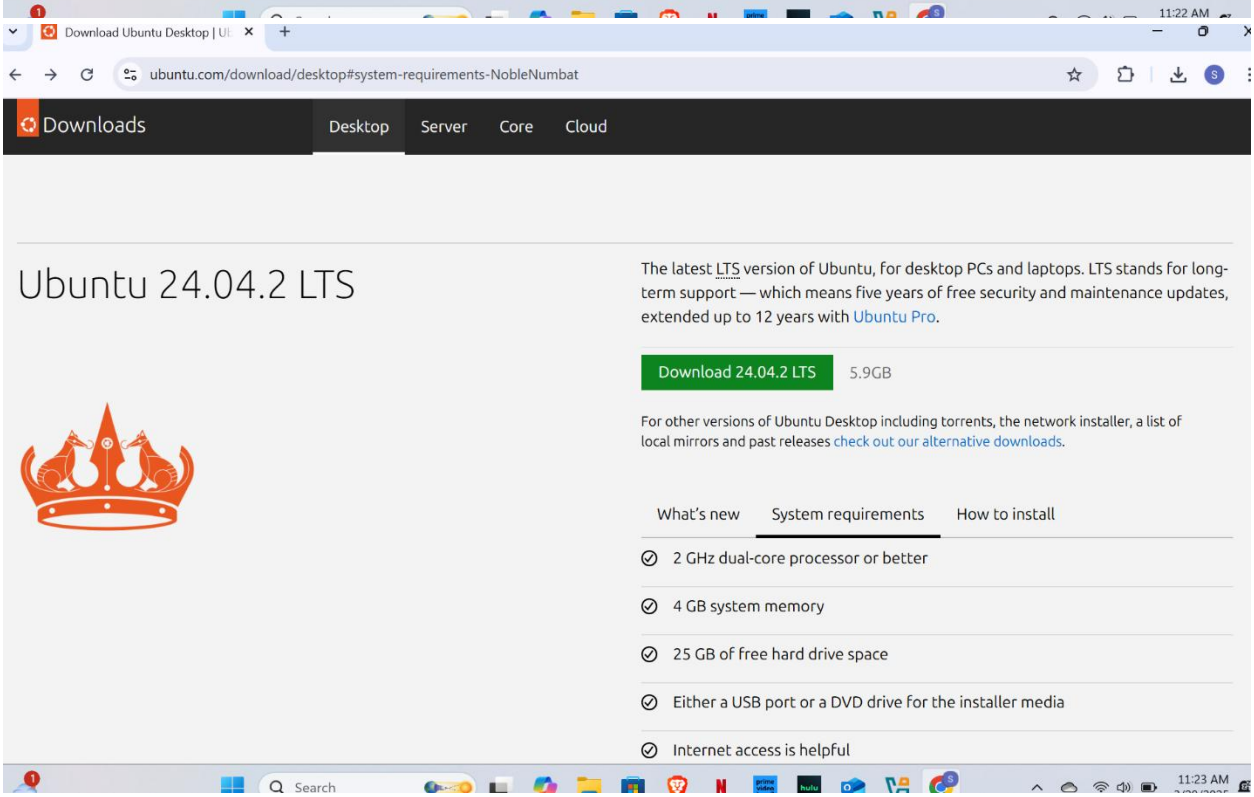
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ubuntu.com/download/desktop#system-requirements-NobleNumbat
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Desktop
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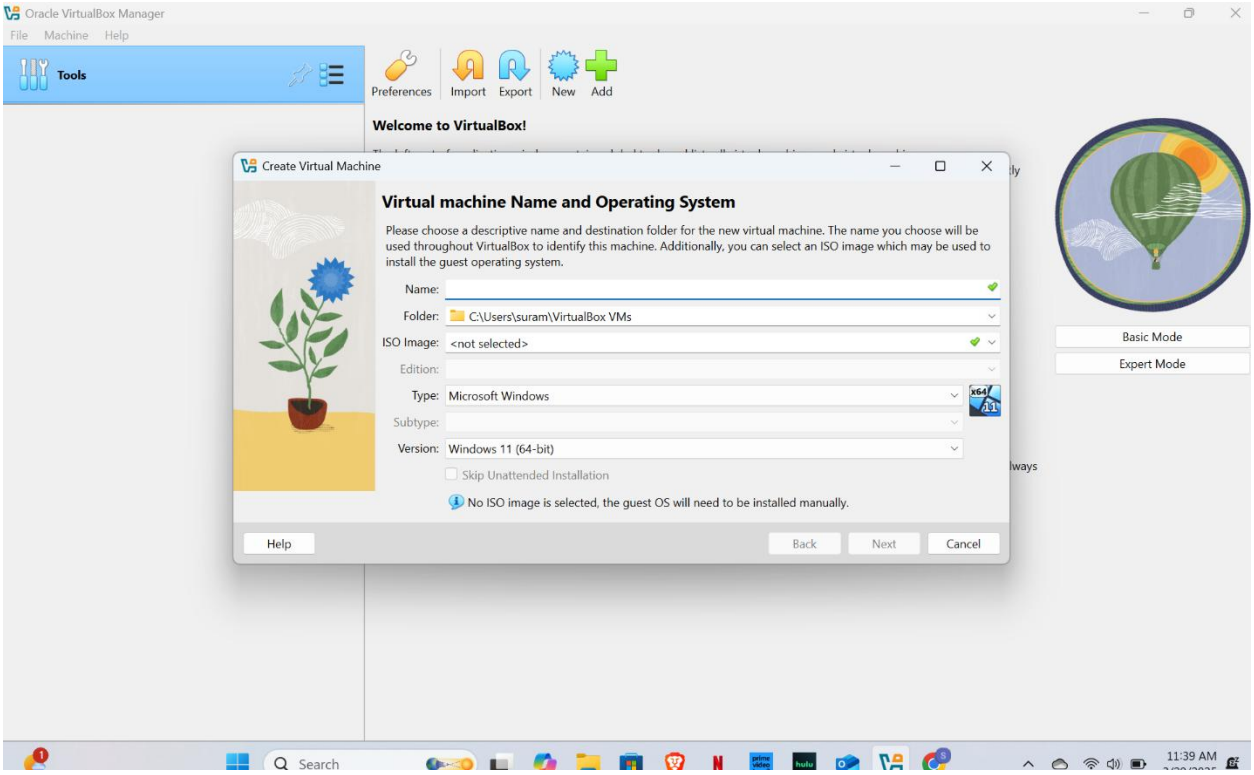
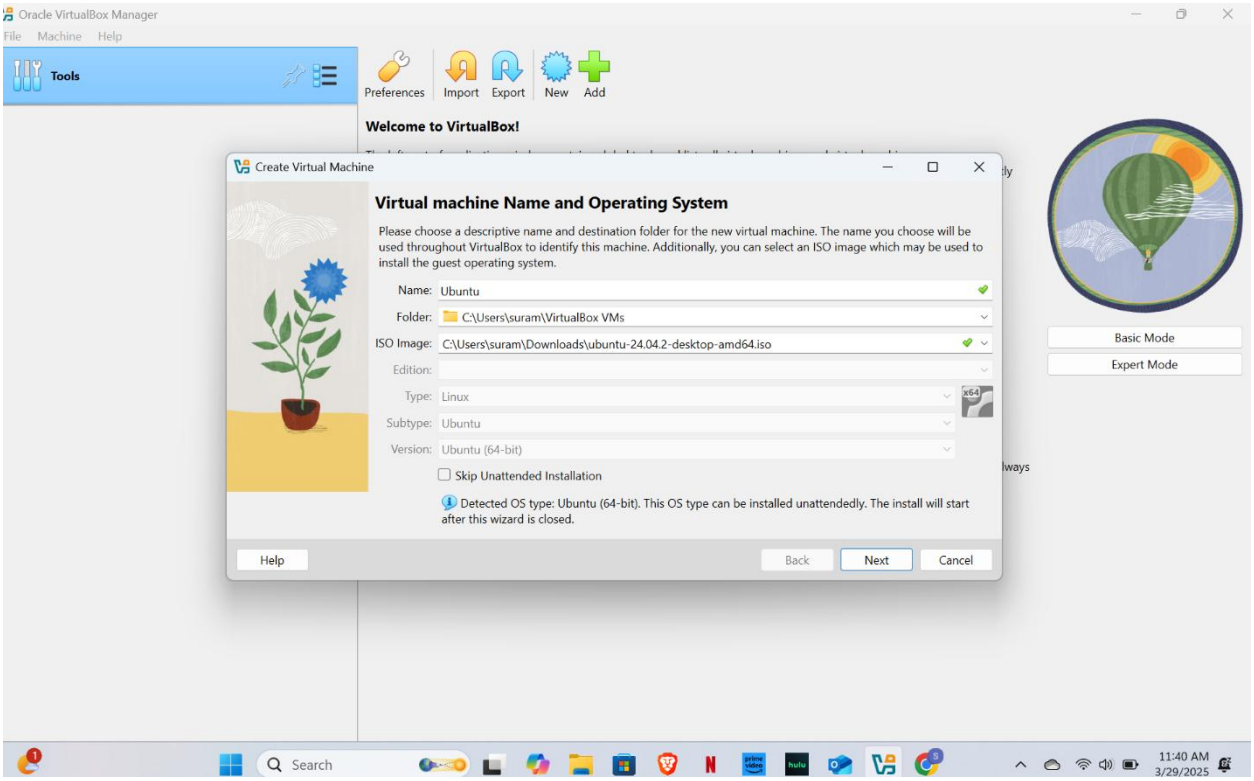
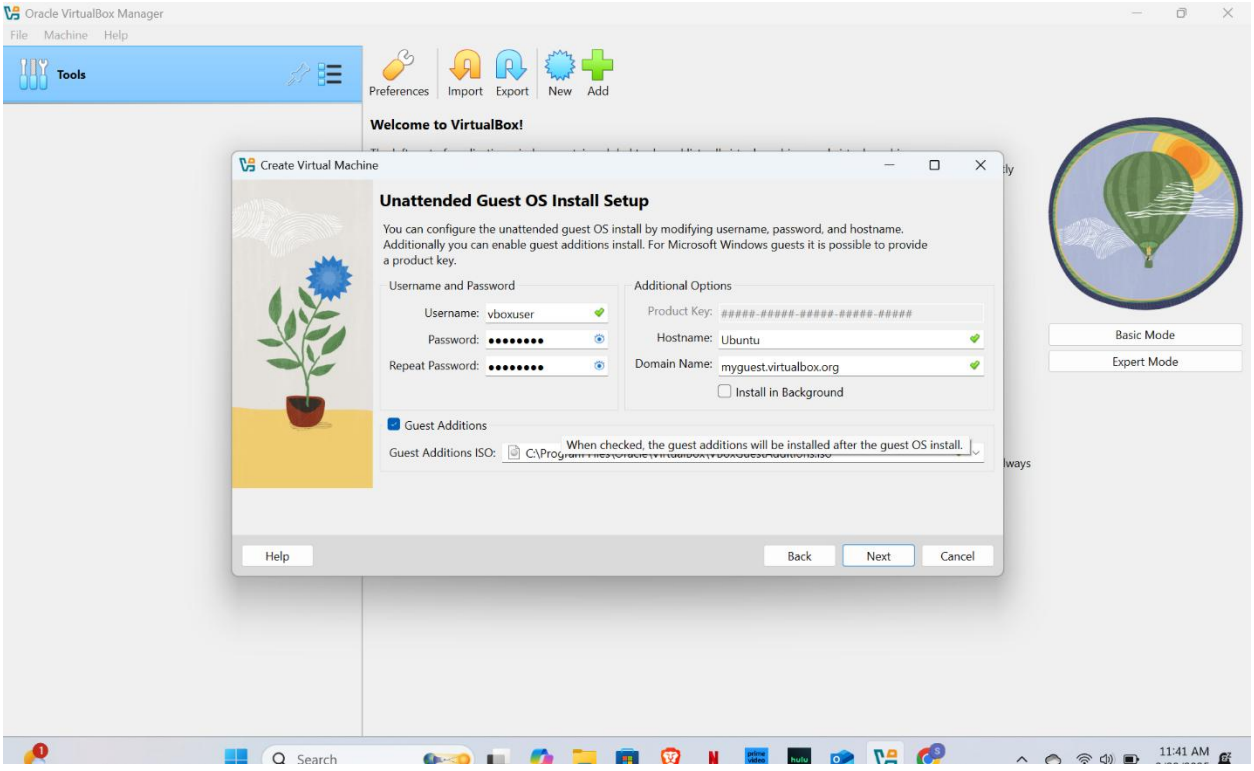
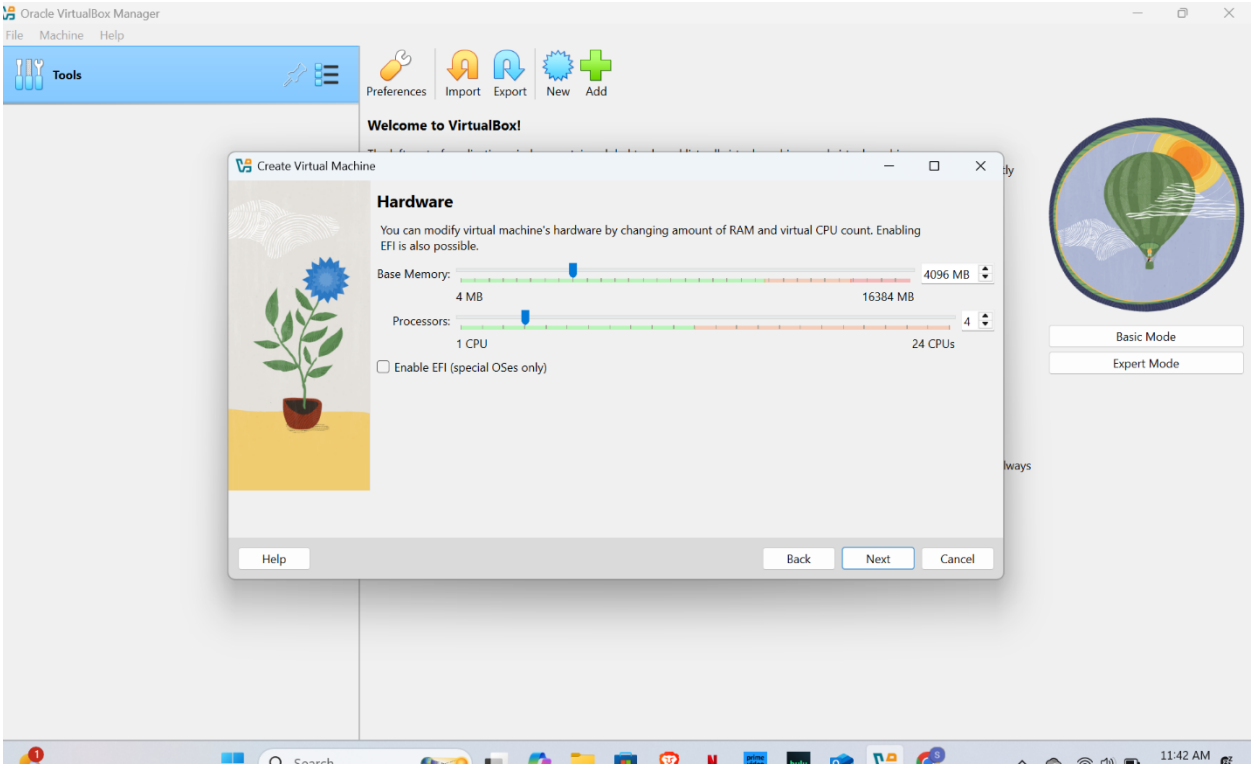
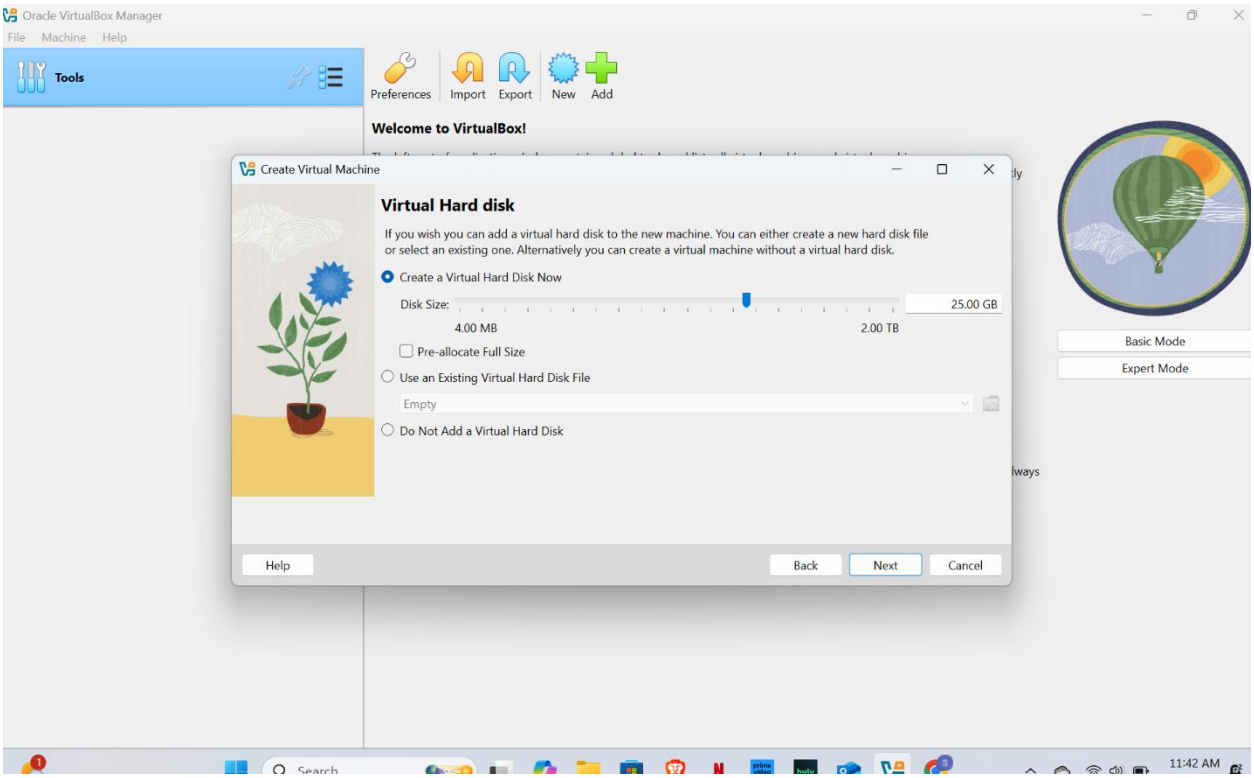
5.9GB
For other versions of Ubuntu Desktop including torrents, the network installer, a list of local mirrors and past releases check out our alternative downloads.
What's new
System requirements
How to install
2 GHz dual-core processor or better
4 GB system memory
25 GB of free hard drive space
Either a USB port or a DVD drive for the installer media
Internet access is helpful
Search
11:23 AM

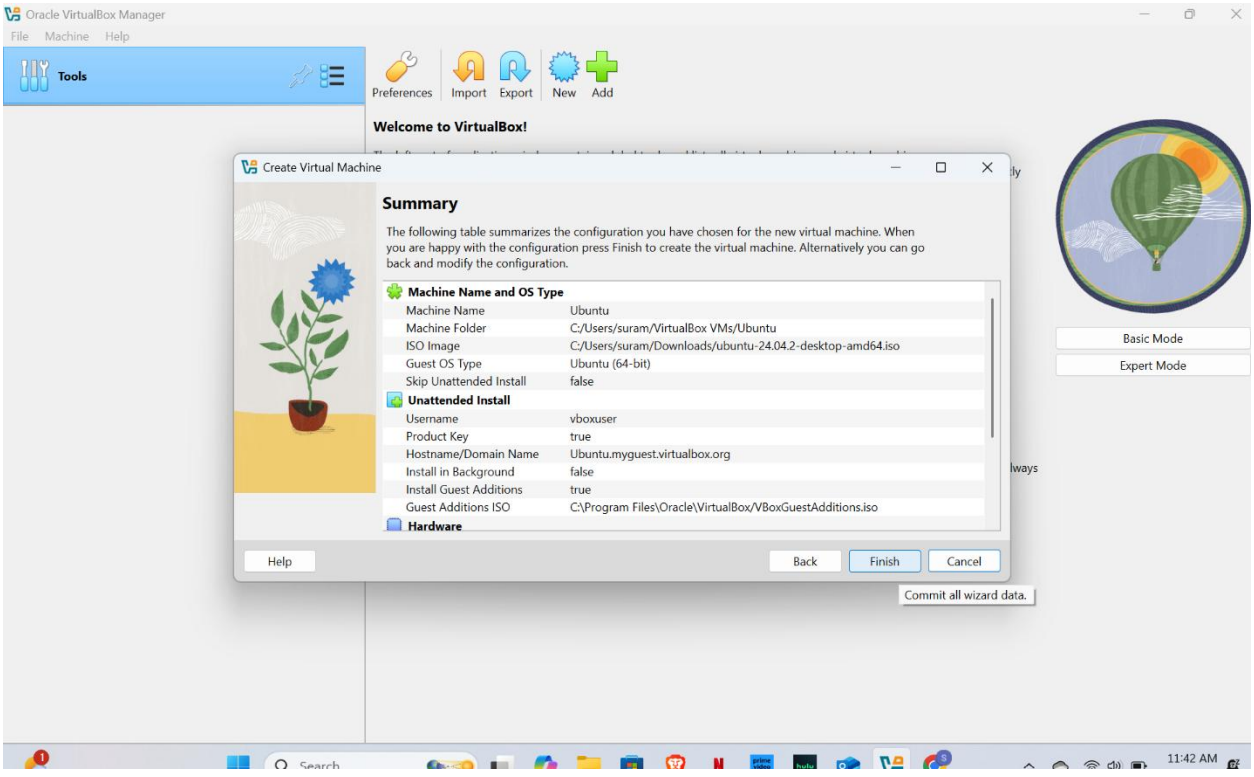

Oracle VirtualBox Manager
File Machine Help
Tools
Preferences Import Export New Add
Welcome to VirtualBox!
Create Virtual Machine
Virtual machine Name and Operating System
Please choose a descriptive name and destination folder for the new virtual machine. The name you choose will be used throughout VirtualBox to identify this machine. Additionally, you can select an ISO image which may be used to install the guest operating system.
Name:
Folder: C:\Users\suram\VirtualBox VMs
ISO Image: <not selected>
Edition:
Type: Microsoft Windows
Subtype:
Version: Windows 11 (64-bit)
Skip Unattended Installation
No ISO image is selected, the guest OS will need to be installed manually.
Help Back Next Cancel
Basic Mode
Expert Mode
Search
11:39 AM


Oracle VirtualBox Manager
File Machine Help
Tools
Preferences Import Export New Add
Welcome to VirtualBox!
Create Virtual Machine
Virtual machine Name and Operating System
Please choose a descriptive name and destination folder for the new virtual machine. The name you choose will be used throughout VirtualBox to identify this machine. Additionally, you can select an ISO image which may be used to install the guest operating system.
Name: Ubuntu
Folder: C:\Users\suram\VirtualBox VMs
ISO Image: C:\Users\suram\Downloads\ubuntu-24.04.2-desktop-amd64.iso
Edition:
Type: Linux
Subtype: Ubuntu
Version: Ubuntu (64-bit)
Skip Unattended Installation
Detected OS type: Ubuntu (64-bit). This OS type can be installed unattendedly. The install will start after this wizard is closed.
Help Back Next Cancel
Basic Mode
Expert Mode
Search
11:40 AM
3/29/2025


Oracle VirtualBox Manager
File Machine Help
Tools
Preferences Import Export New Add
Welcome to VirtualBox!
Create Virtual Machine
Unattended Guest OS Install Setup
You can configure the unattended guest OS install by modifying username, password, and hostname. Additionally you can enable guest additions install. For Microsoft Windows guests it is possible to provide a product key.
Username and Password
Username: vboxuser
Password:
Repeat Password:
Additional Options
Product Key: #####-#####-#####-#####-#####
Hostname: Ubuntu
Domain Name: myguest.virtualbox.org
Install in Background
Guest Additions
Guest Additions ISO:
When checked, the guest additions will be installed after the guest OS install.
Help
Back
Next
Cancel
Basic Mode
Expert Mode
11:41 AM


Oracle VirtualBox Manager
File Machine Help
Tools
Preferences Import Export New Add
Welcome to VirtualBox!
Create Virtual Machine
Hardware
You can modify virtual machine's hardware by changing amount of RAM and virtual CPU count. Enabling EFI is also possible.
Base Memory: 4096 MB
4 MB
16384 MB
Processors: 4
1 CPU
24 CPUs
Enable EFI (special OSes only)
Help
Back
Next
Cancel
Basic Mode
Expert Mode
11:42 AM


Oracle VirtualBox Manager
File Machine Help
Tools
Preferences Import Export New Add
Welcome to VirtualBox!
Create Virtual Machine
Virtual Hard disk
If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select an existing one. Alternatively you can create a virtual machine without a virtual hard disk.
Create a Virtual Hard Disk Now
Disk Size: 25.00 GB
4.00 MB 2.00 TB
Pre-allocate Full Size
Use an Existing Virtual Hard Disk File
Empty
Do Not Add a Virtual Hard Disk
Help Back Next Cancel
Basic Mode
Expert Mode
11:42 AM

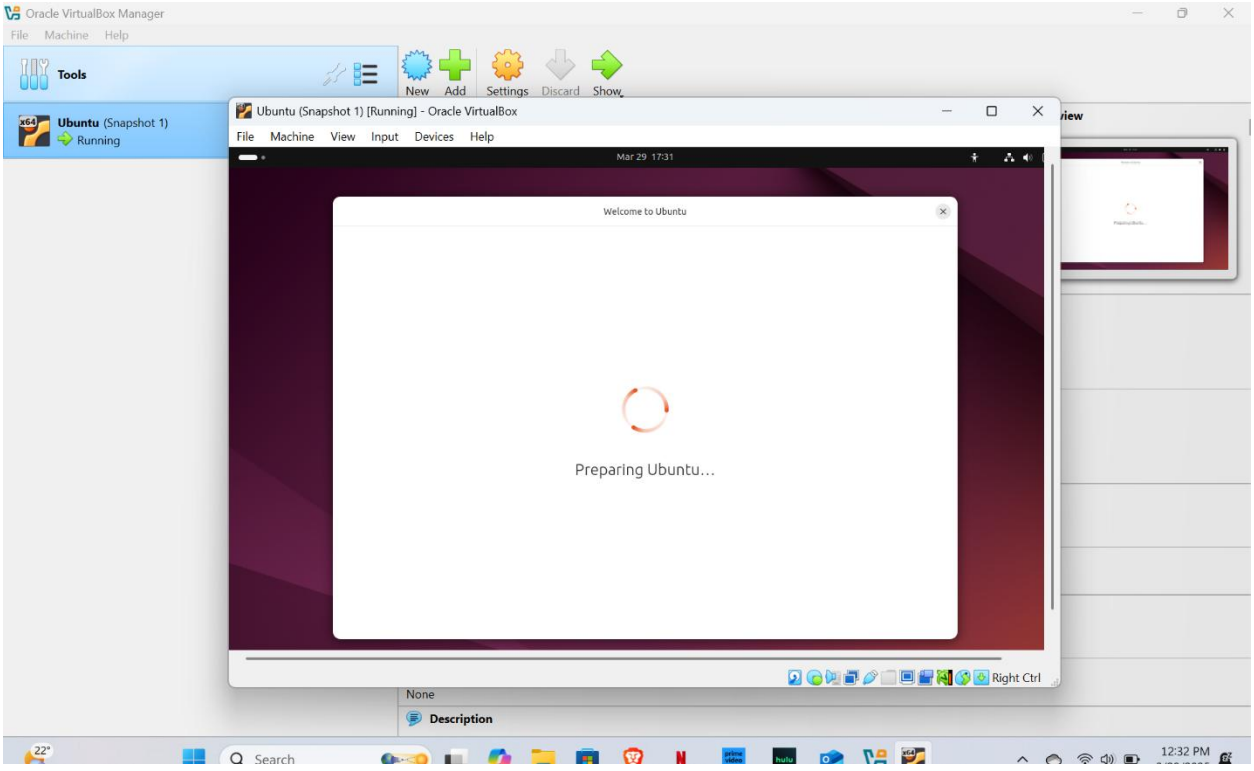

Oracle VirtualBox Manager
File Machine Help
Tools
Preferences Import Export New Add
Welcome to VirtualBox!
Create Virtual Machine
Summary
The following table summarizes the configuration you have chosen for the new virtual machine. When you are happy with the configuration press Finish to create the virtual machine. Alternatively you can go back and modify the configuration.
Machine Name and OS Type
Machine Name Ubuntu
Machine Folder C:/Users/suram/VirtualBox VMs/Ubuntu
ISO Image C:/Users/suram/Downloads/ubuntu-24.04.2-desktop-amd64.iso
Guest OS Type Ubuntu (64-bit)
Skip Unattended Install false
Unattended Install
Username vboxuser
Product Key true
Hostname/Domain Name Ubuntu.myguest.virtualbox.org
Install in Background false
Install Guest Additions true
Guest Additions ISO C:\Program Files\Oracle\VirtualBox/VBoxGuestAdditions.iso
Hardware
Help Back Finish Cancel
Commit all wizard data.
Basic Mode
Expert Mode
11:42 AM

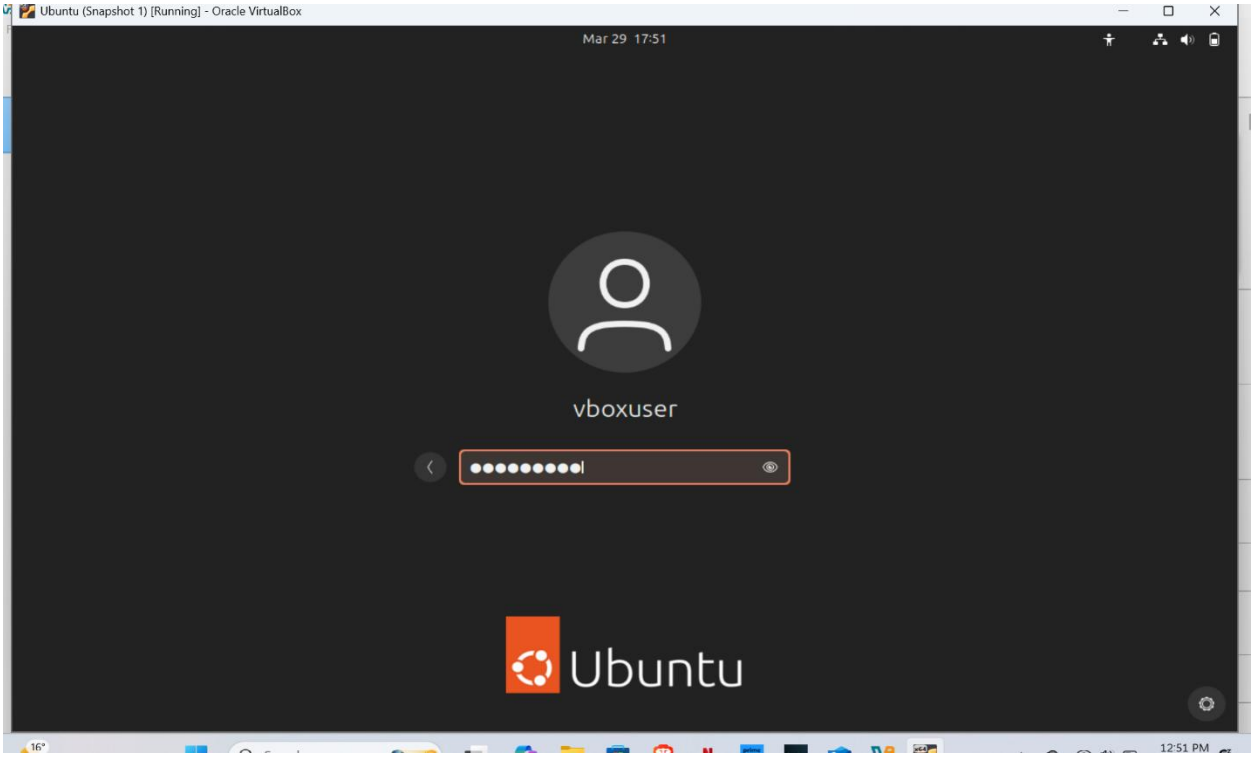
I used Oracle VM VirtualBox on my Windows system. However, during the first attempt, I encountered an error called **'SUPR3HardenedWinRespawn'**. This error usually happens when VirtualBox's kernel drivers fail to load properly, often due to permission issues or interference from antivirus software.

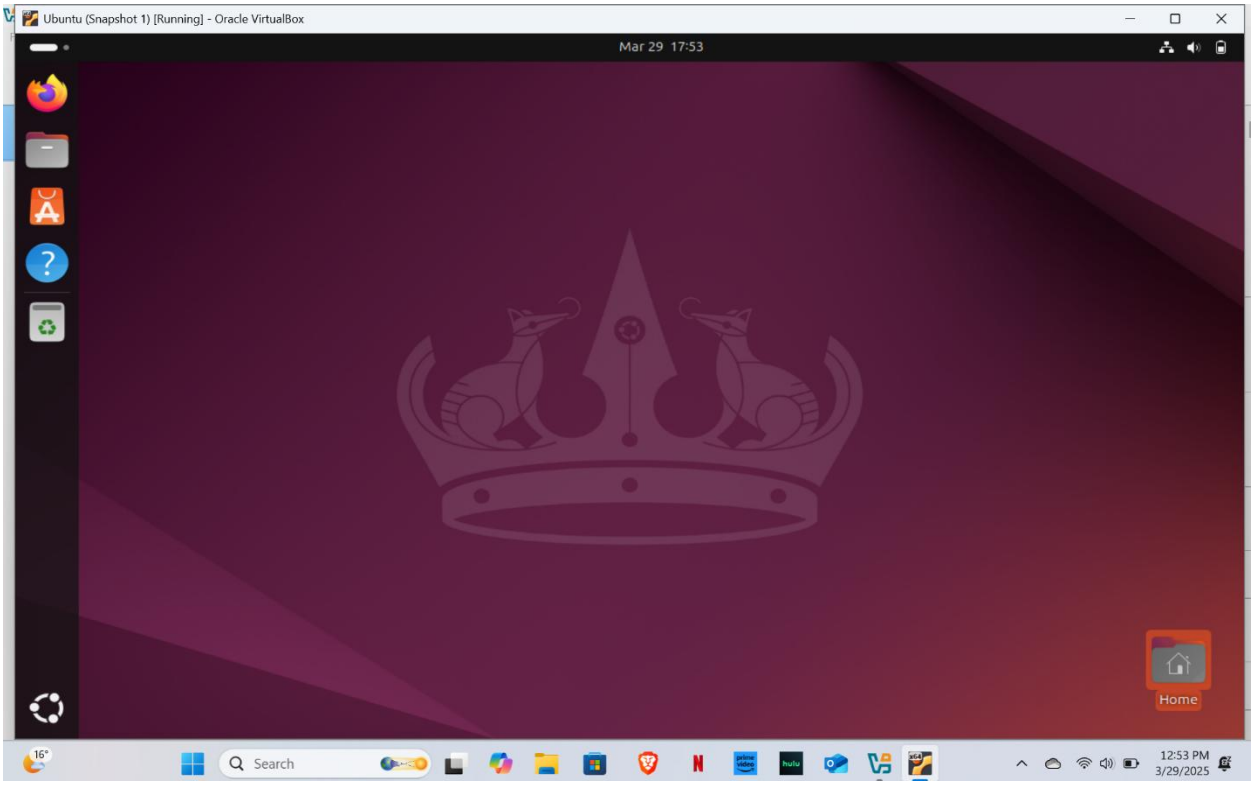
To overcome this error, I followed these steps:

1. **Uninstalled VirtualBox completely** and removed leftover files.
2. **Disabled my antivirus temporarily**, as it can block driver installations.
3. **Reinstalled VirtualBox as an administrator**, ensuring all features like USB and networking drivers were selected.
4. **Ran VirtualBox with admin privileges** and confirmed that the kernel modules were installed successfully.

After taking these steps, the error was resolved, and I was able to launch the virtual machine and install Ubuntu successfully.


Oracle VirtualBox Manager
File Machine Help
Tools
New Add Settings Discard Show
Ubuntu (Snapshot 1)
Running
Ubuntu (Snapshot 1) [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Mar 29 17:31
Welcome to Ubuntu
Preparing Ubuntu...
Right Ctrl
None
Description
Search
12:32 PM


Ubuntu (Snapshot 1) [Running] - Oracle VirtualBox
Mar 29 17:51
vboxuser
Ubuntu
12:51 PM


Ubuntu (Snapshot 1) [Running] - Oracle VirtualBox
Mar 29 17:53
Home
Search
12:53 PM
3/29/2025