Installing Oracle VM Virtualbox: -

What is VirtualBox?

VirtualBox is a free and open-source virtualization software developed by Oracle. It allows us to create and run multiple virtual machines (VMs) on a single physical machine. Each virtual machine runs as an independent operating system, enabling us to work with different operating systems (e.g., Windows, Linux, Solaris) on the same host machine without the need for separate hardware.

= > Why Do We Need VirtualBox…?

- ➢ Runs Different Operating Systems:

We may need to test or work on a different OS (like Linux, Solaris, AIX) while using a primary OS (like Windows).
For example, Oracle database servers often run on Linux, and we might use VirtualBox to create a Linux environment on our Windows machine.

- ➢ Practice and Learning:

- It provides a safe environment for learning tasks like Oracle database installation, RAC setups, or other activities without impacting your physical system.

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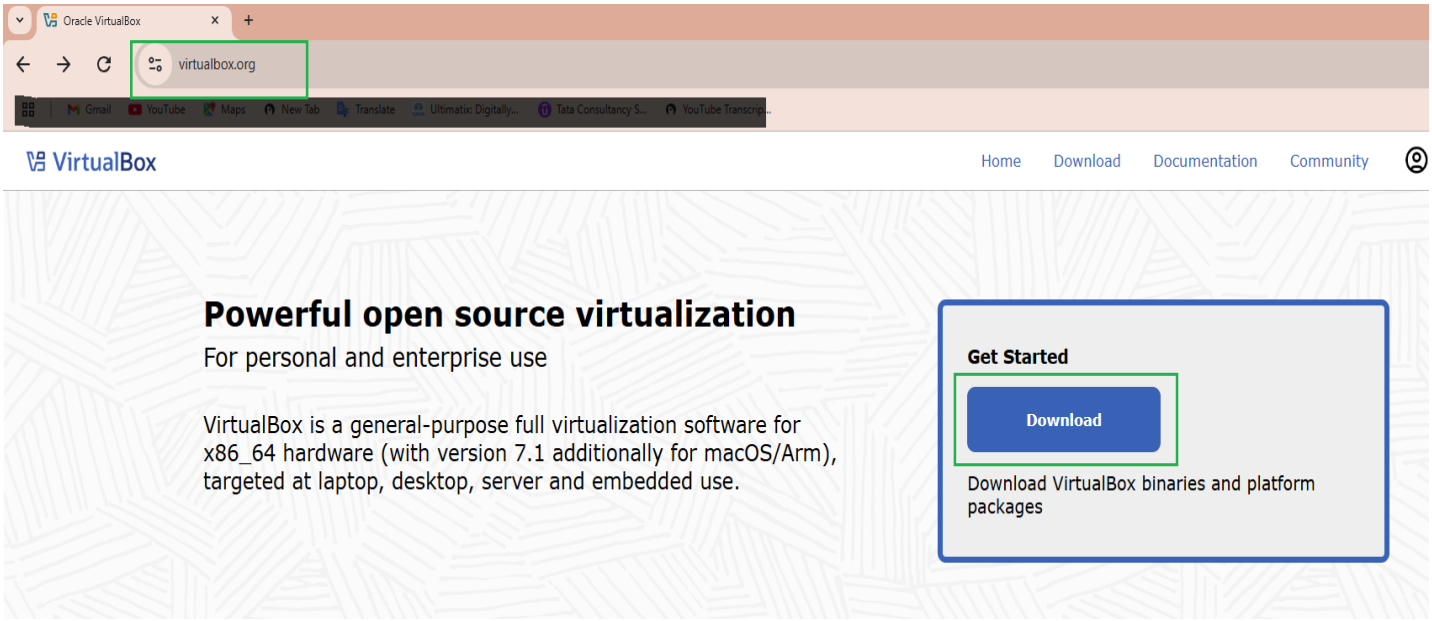
- ➢ How to Download and Install VirtualBox?

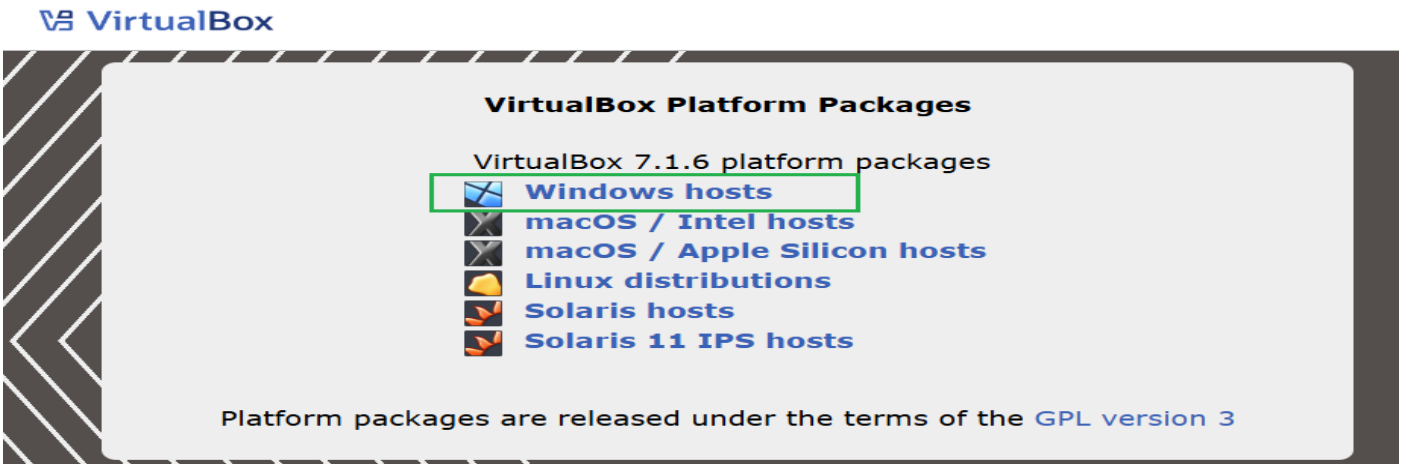
Go to the official VirtualBox website and click in Download: -

>> *https://www.virtualbox.org*



Choose the correct version for your host operating system and Download it.

Windows hosts: For Windows users.



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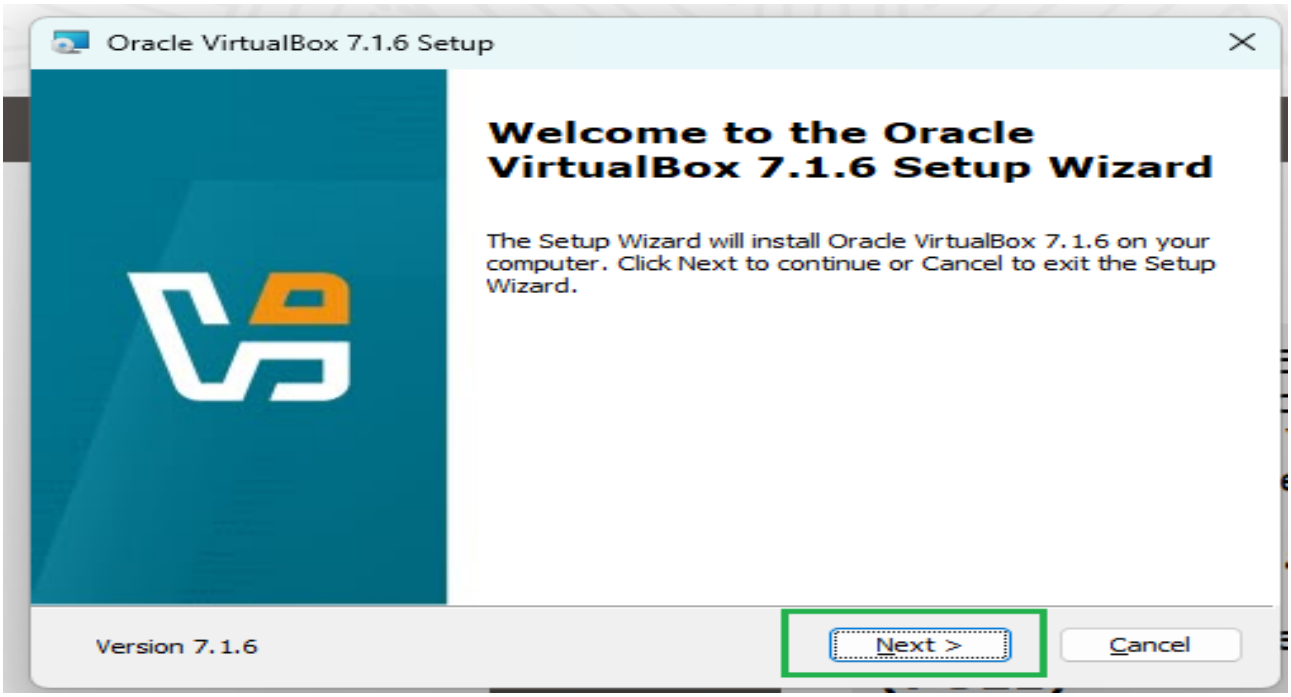
Steps to Install:

- Run the Installer:
- Locate the downloaded installer file (e.g., VirtualBox-7.1.6-167084-Win) and double-click it to run.



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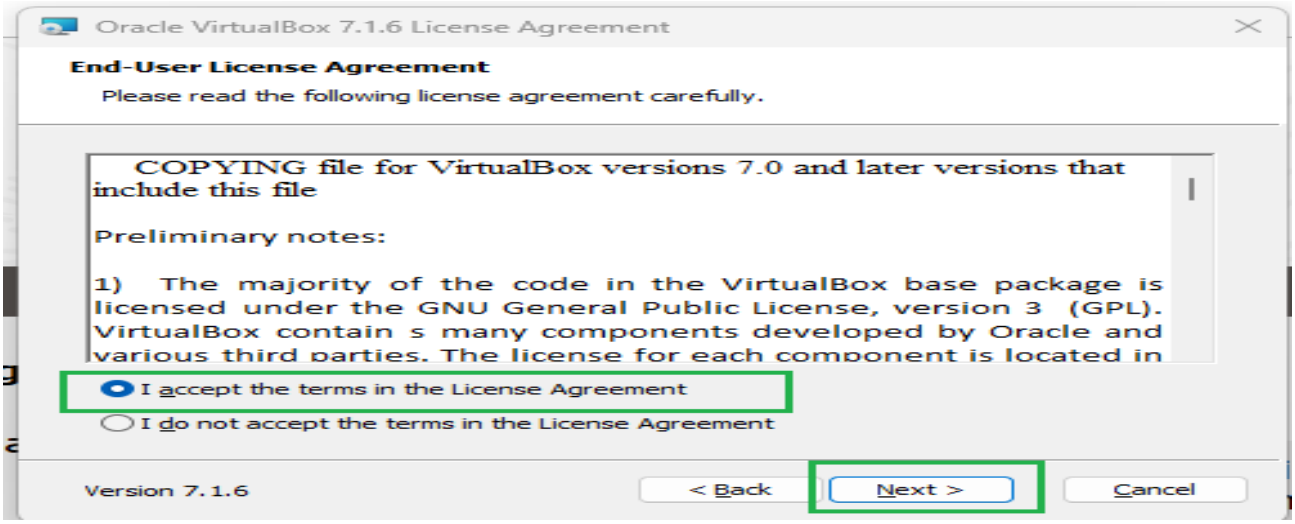
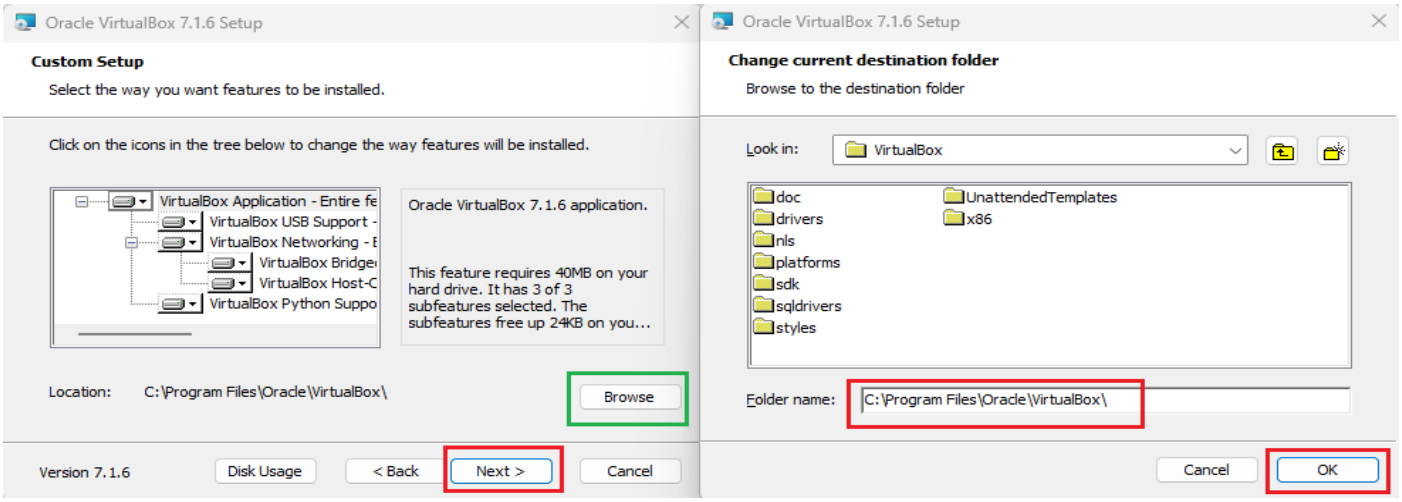
- Accept License agreement: -

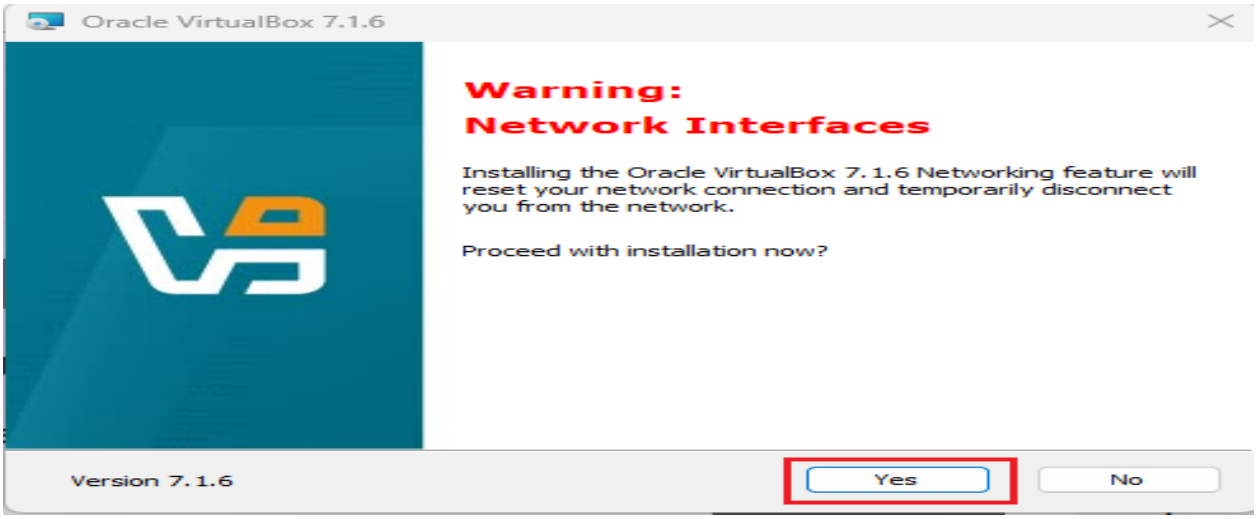


- Select the components you want to install (leave defaults unless you have specific requirements): -

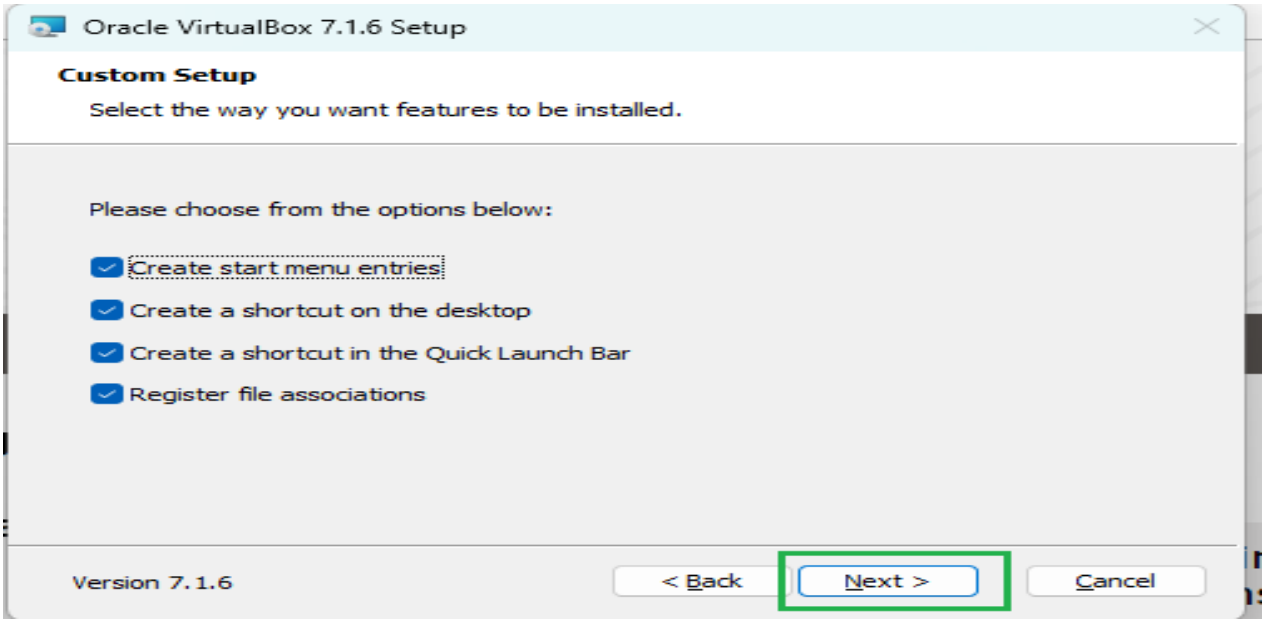


Network Interface Warning:

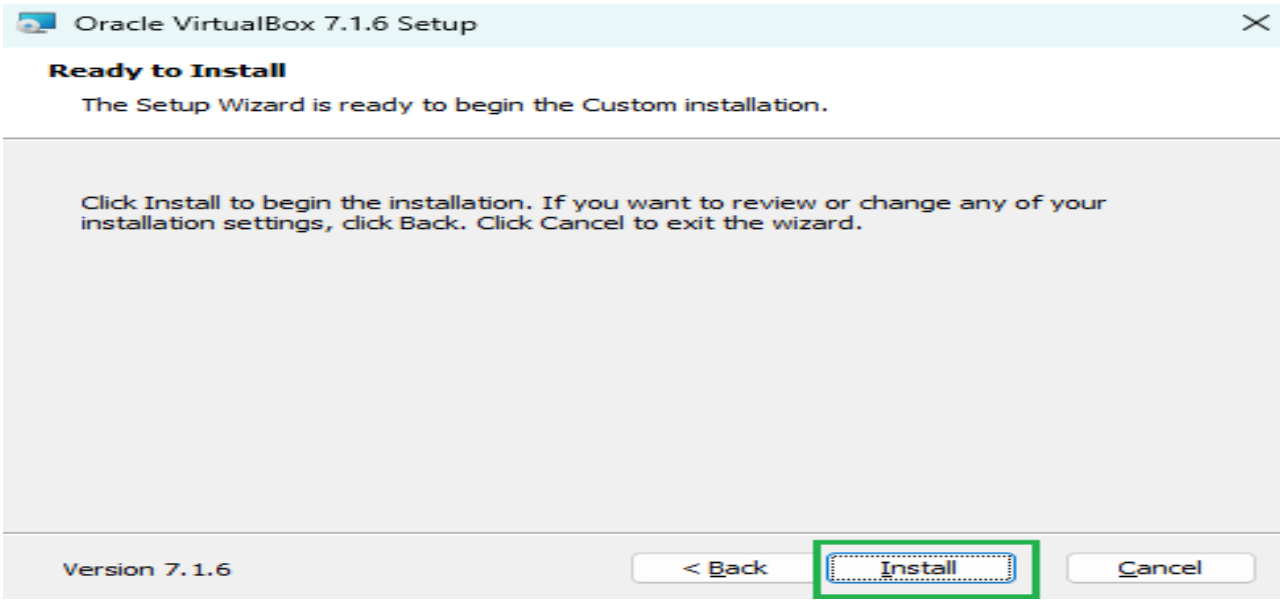
- VirtualBox may ask for permission to install a network interface (used for virtual networking). Approve this.

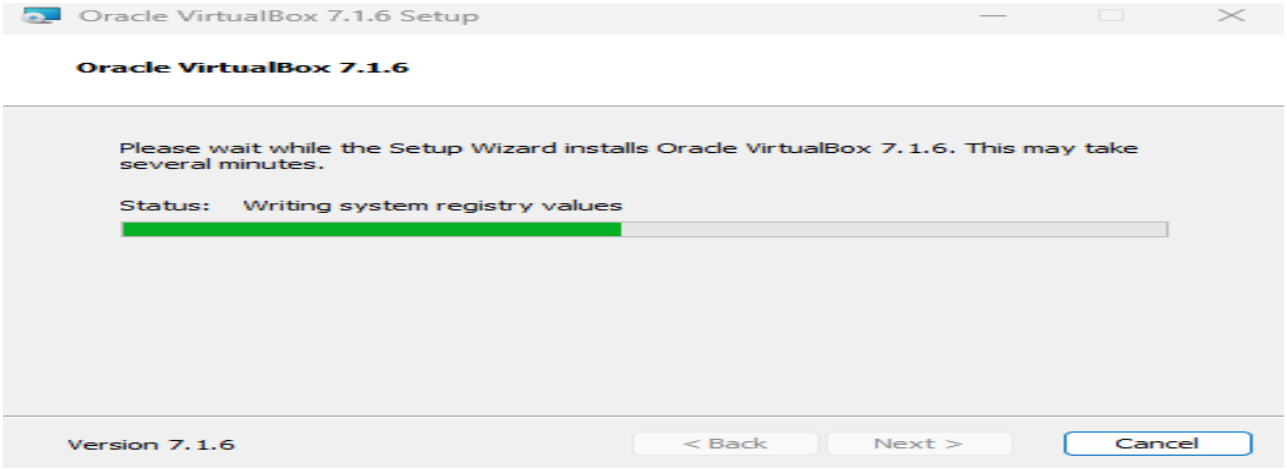


- **Select the features to be installed: -**

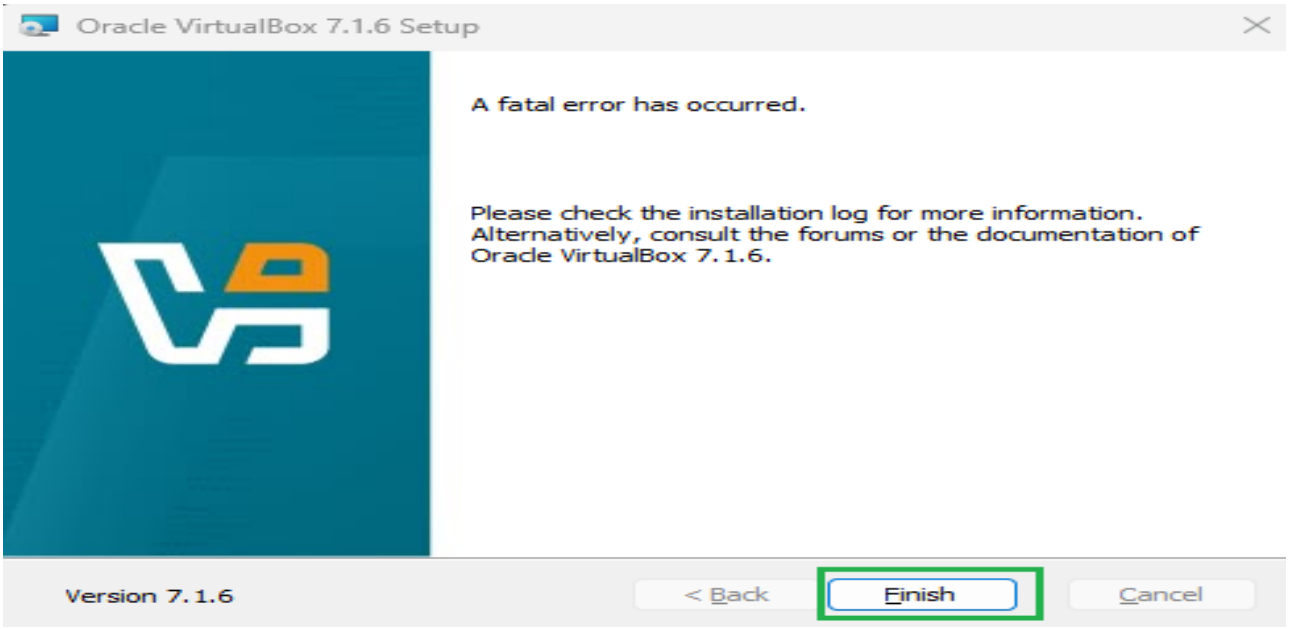


Install:





Finish and Launch:



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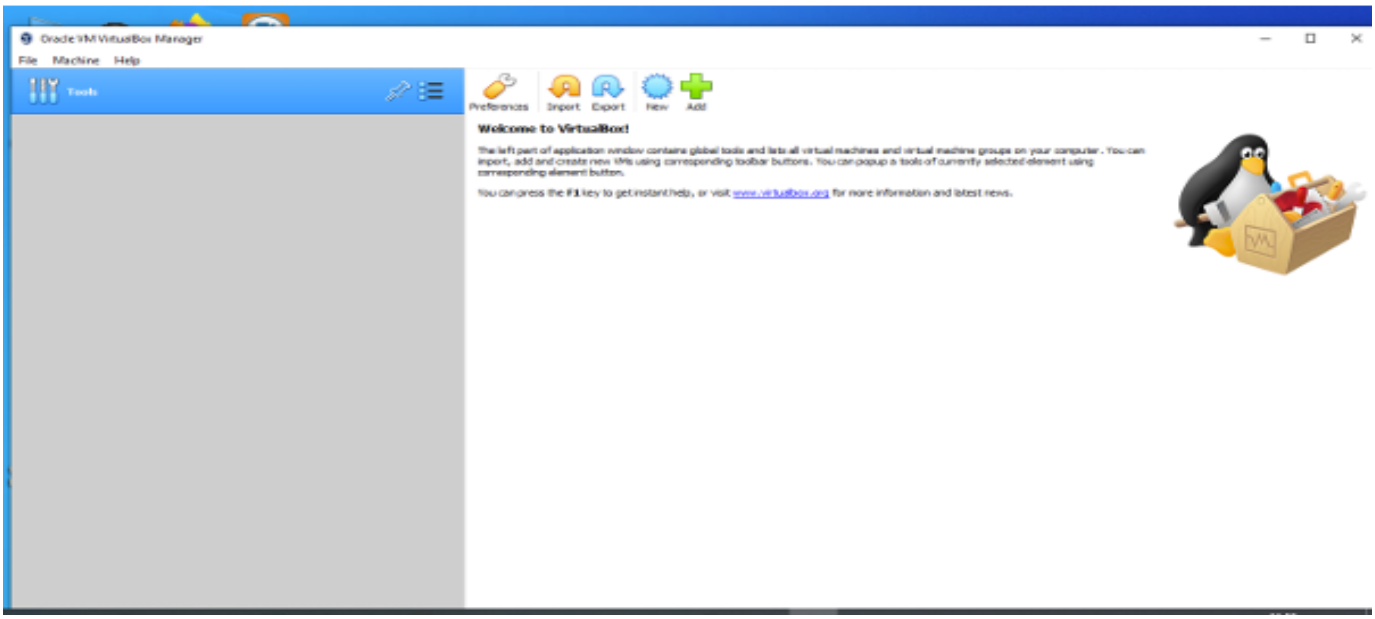
= > Start the VM now. If the taskbar icon does not appear, we can start from START menu as well.



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Purpose of VirtualBox:

1. Virtual Environment for Learning:
    - We can practice Oracle installations, RAC setups, Dataguard configurations, etc.,.
2. Cost-Efficiency:
    - It eliminates the need for additional physical hardware by using your existing system.
3. Snapshot and Recovery:
    - We can take snapshots of the VM before making changes and revert to a previous state if needed.
4. Experimentation and Testing:
    - Test updates, patches, or new configurations without impacting the host system.

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