EXP NO 7. Demonstrate virtualization by Installing Type-2 Hypervisor in your device, create and configure VM image with a Host Operating system (Either Windows/Linux) using virtual box.

DATE:

AIM:

To demonstrate virtualization by installing a Type-2 Hypervisor (VirtualBox) in the device, and create and configure a Virtual Machine (VM) image with a host operating system (either Windows/Linux).

PROCEDURE:

STEP 1: install Oracle VirtualBox as a Type-2 Hypervisor

STEP 2: Download an ISO image file of the operating system (Ubuntu Linux / Windows).

STEP 3: Open VirtualBox → Click New → Create a new Virtual Machine.

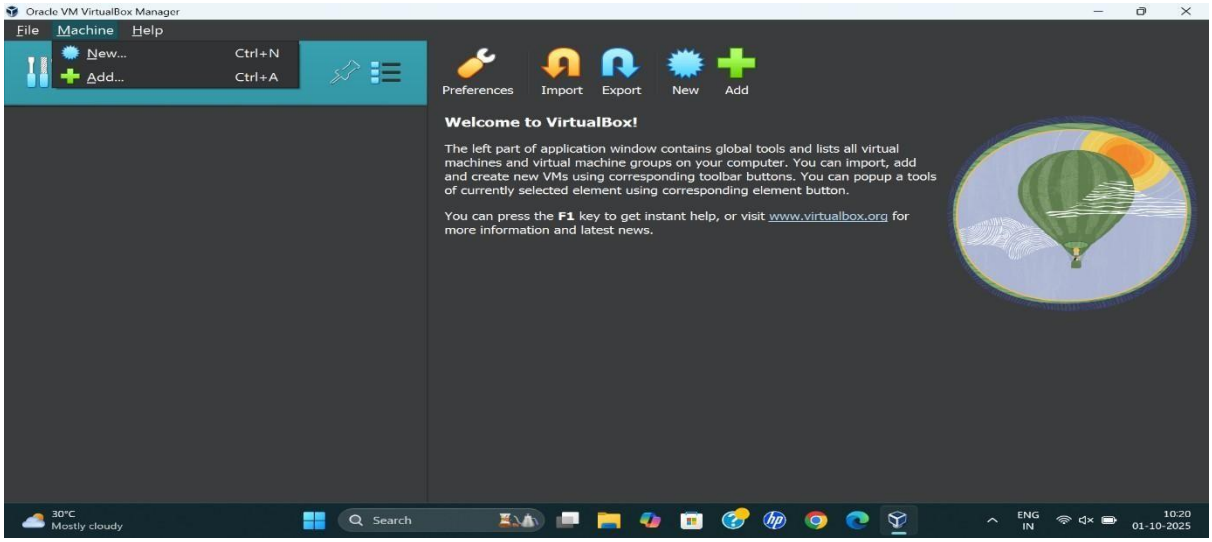
STEP 4: Configure the VM

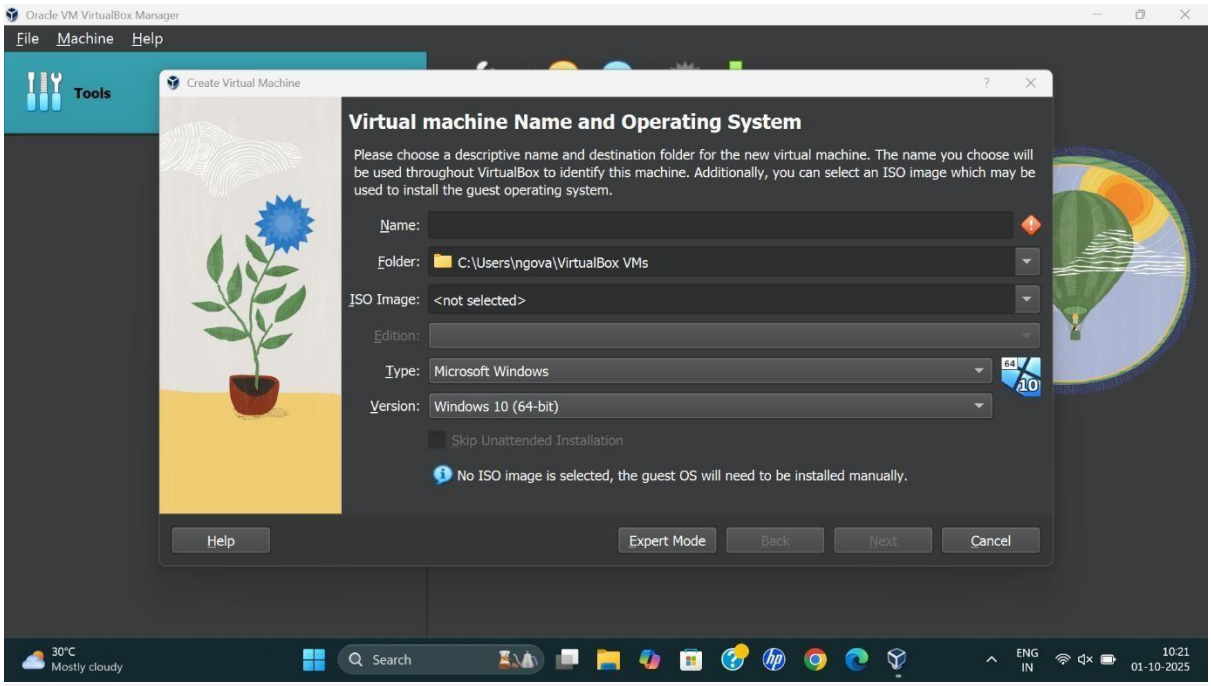
STEP 5: Start the Virtual Machine → The system will boot from the ISO file.

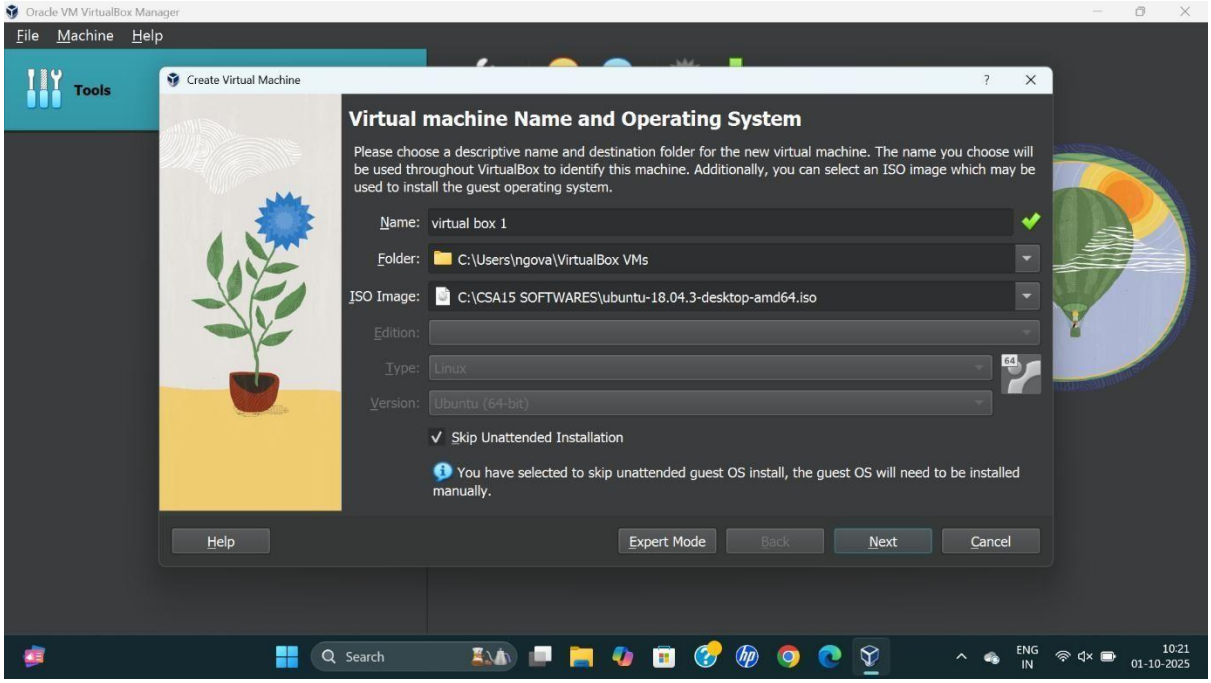
STEP 6: Install the selected operating system (Linux/Windows) by following the on-screen setup instructions.

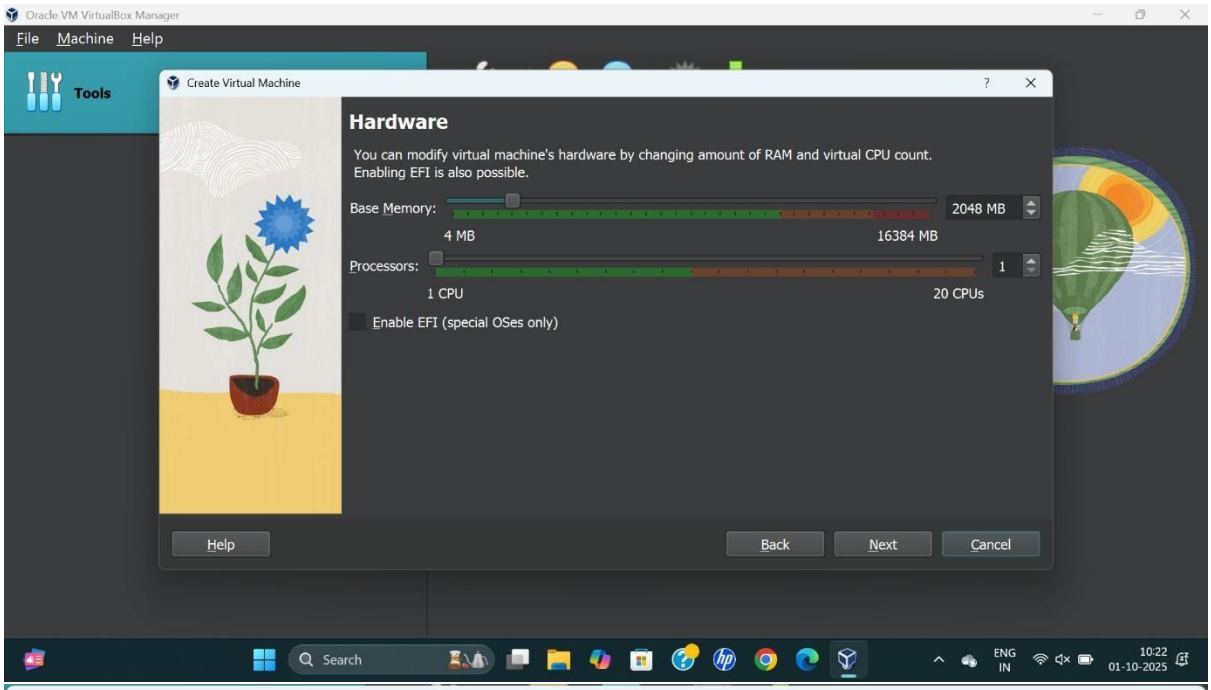
STEP 7: After successful installation, launch the VM → The guest operating system runs inside VirtualBox.

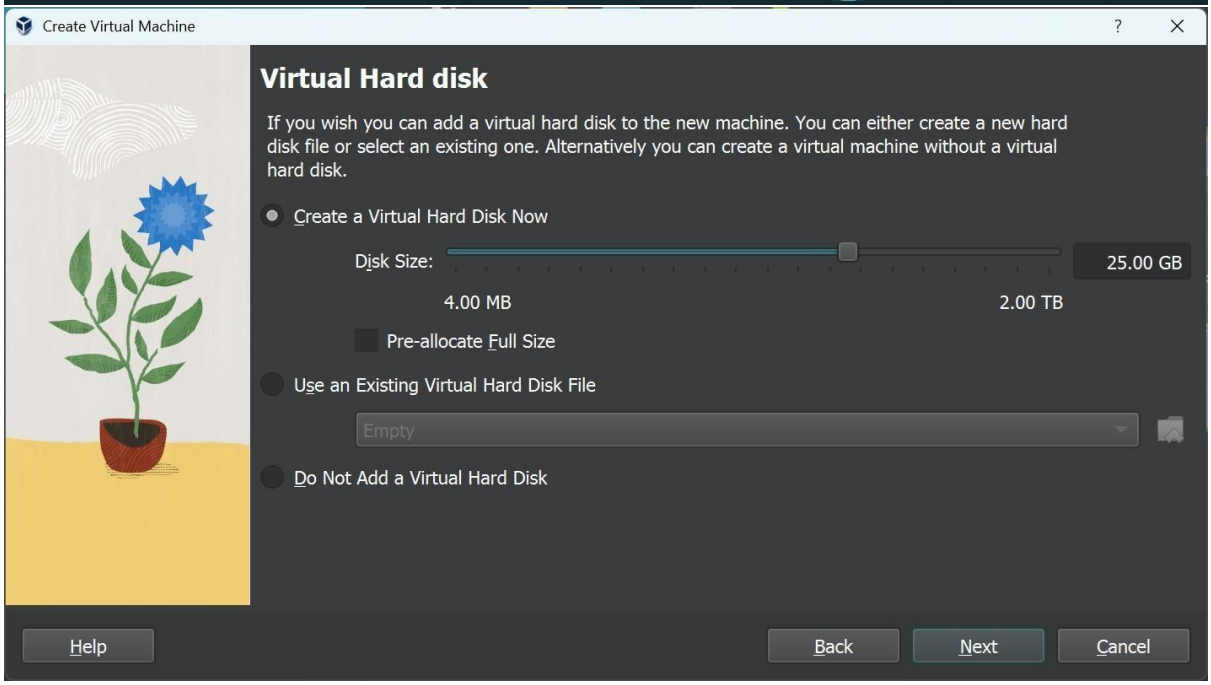
Design:

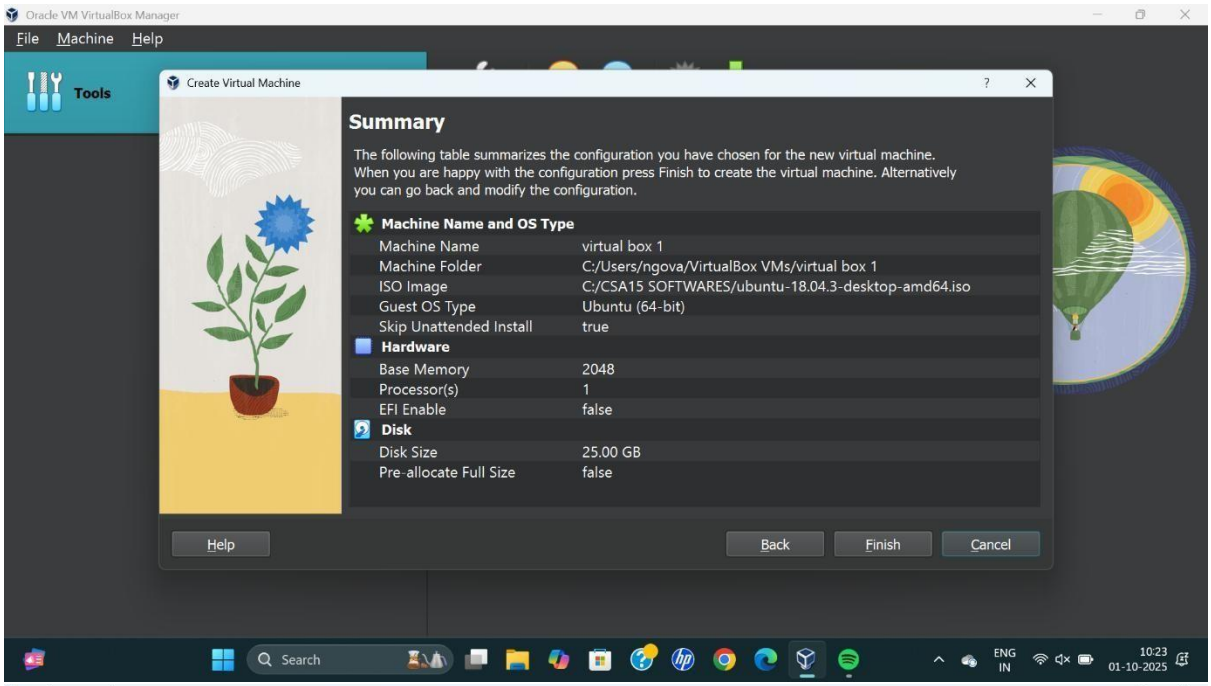


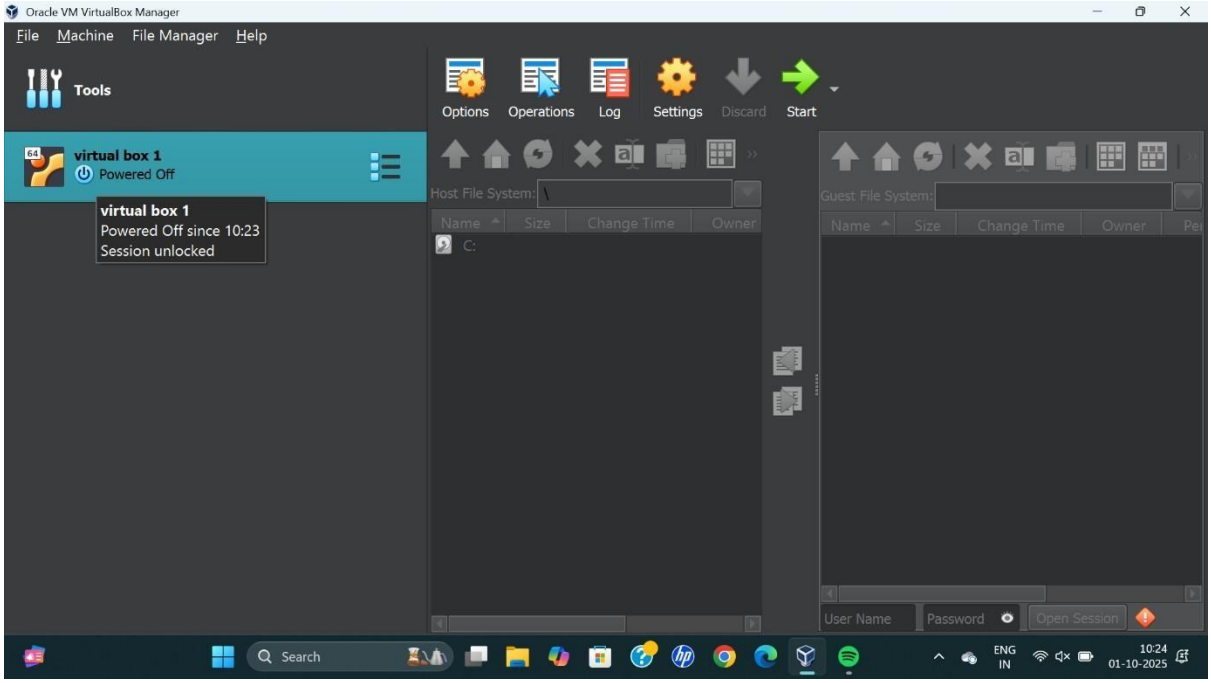

Oracle VM VirtualBox Manager
File Machine Help
Tools
Create Virtual Machine
Virtual machine Name and Operating System
Please choose a descriptive name and destination folder for the new virtual machine. The name you choose will be used throughout VirtualBox to identify this machine. Additionally, you can select an ISO image which may be used to install the guest operating system.
Name:
Folder: C:\Users\ngova\VirtualBox VMs
ISO Image: <not selected>
Edition:
Type: Microsoft Windows
Version: Windows 10 (64-bit)
Skip Unattended Installation
No ISO image is selected, the guest OS will need to be installed manually.
Help
Expert Mode
Back
Next
Cancel
30°C
Mostly cloudy
Search
ENG
IN
10:21
01-10-2025

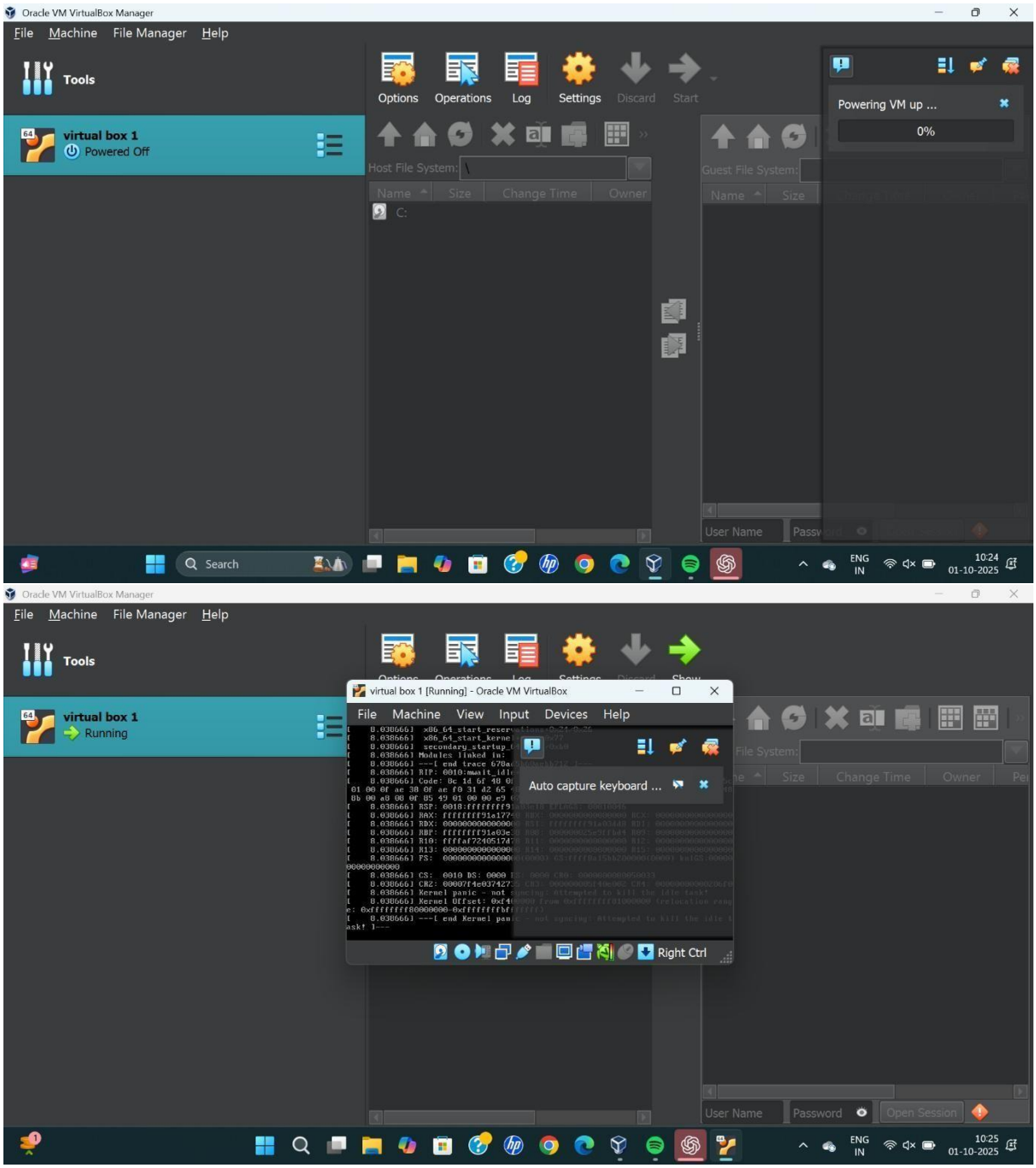

Oracle VM VirtualBox Manager
File Machine Help
Tools
Create Virtual Machine
Virtual machine Name and Operating System
Please choose a descriptive name and destination folder for the new virtual machine. The name you choose will be used throughout VirtualBox to identify this machine. Additionally, you can select an ISO image which may be used to install the guest operating system.
Name: virtual box 1
Folder: C:\Users\ngova\VirtualBox VMs
ISO Image: C:\CSA15 SOFTWARES\ubuntu-18.04.3-desktop-amd64.iso
Edition:
Type: Linux
Version: Ubuntu (64-bit)
Skip Unattended Installation
You have selected to skip unattended guest OS install, the guest OS will need to be installed manually.
Help
Expert Mode
Back
Next
Cancel
Search
ENG
IN
10:21
01-10-2025


Oracle VM VirtualBox Manager
File Machine Help
Tools
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:
2048 MB
4 MB
16384 MB
Processors:
1
1 CPU
20 CPUs
Enable EFI (special OSes only)
Help
Back
Next
Cancel
Search
ENG
IN
10:22
01-10-2025


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


Oracle VM VirtualBox Manager
File Machine Help
Tools
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 virtual box 1
Machine Folder C:/Users/ngova/VirtualBox VMs/virtual box 1
ISO Image C:/CSA15 SOFTWARES/ubuntu-18.04.3-desktop-amd64.iso
Guest OS Type Ubuntu (64-bit)
Skip Unattended Install true
Hardware
Base Memory 2048
Processor(s) 1
EFI Enable false
Disk
Disk Size 25.00 GB
Pre-allocate Full Size false
Help
Back
Finish
Cancel
Search
ENG IN
10:23 01-10-2025


Oracle VM VirtualBox Manager
File Machine File Manager Help
Tools
Options
Operations
Log
Settings
Discard
Start
virtual box 1
Powered Off
virtual box 1
Powered Off since 10:23
Session unlocked
Host File System:
Name Size Change Time Owner
C:
Guest File System:
Name Size Change Time Owner
User Name
Password
Open Session
Search
ENG IN
10:24 01-10-2025



RESULT:

Virtualization was successfully demonstrated using Oracle VirtualBox (Type-2 Hypervisor) by creating and configuring a Virtual Machine with an operating system.