RAJALAKSHMI ENGINEERING COLLEGE
AN AUTONOMOUS INSTITUTION
Affiliated to ANNA UNIVERSITY
Rajalakshmi Nagar, Thandalam,
Chennai-602105

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CS19741 CLOUD COMPUTING LABORATORY
ACADEMIC YEAR:2024-2025 (ODD)

INDEX

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Branch: CSE **Year/Section: IV-B**

Exp No: 1 **Date:**

VIRTUALIZATION
CONFIGURATION AND CREATION OF VIRTUAL MACHINE

AIM:

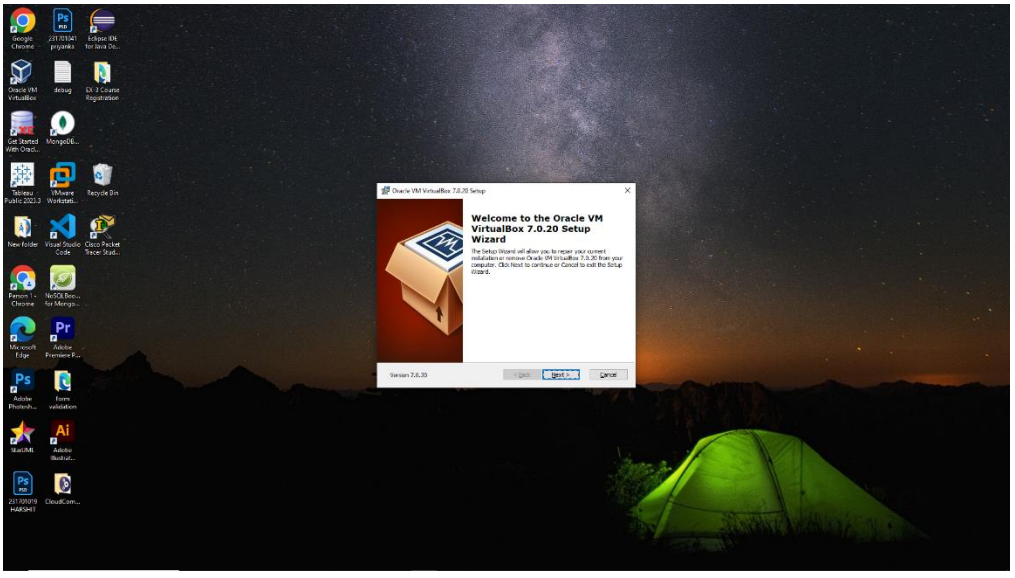
To configure a Virtual Machine using VM ware and Launch the VM and execute a simple program using C/PYTHON/JAVA.

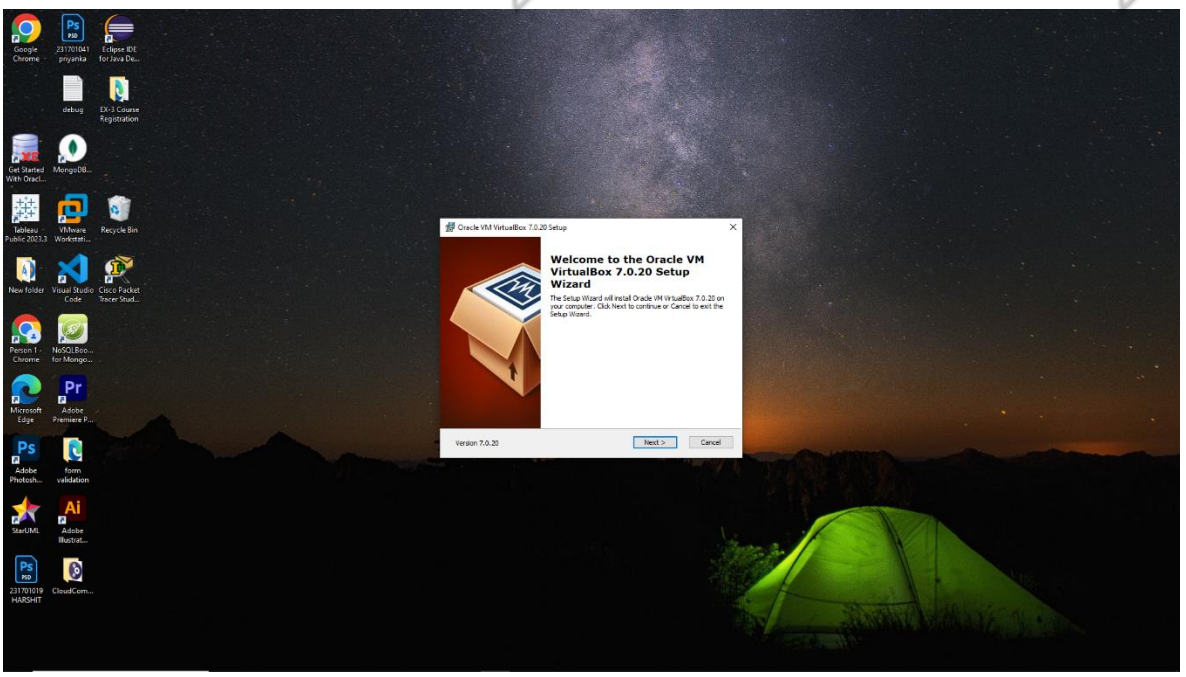
PROCEDURE:

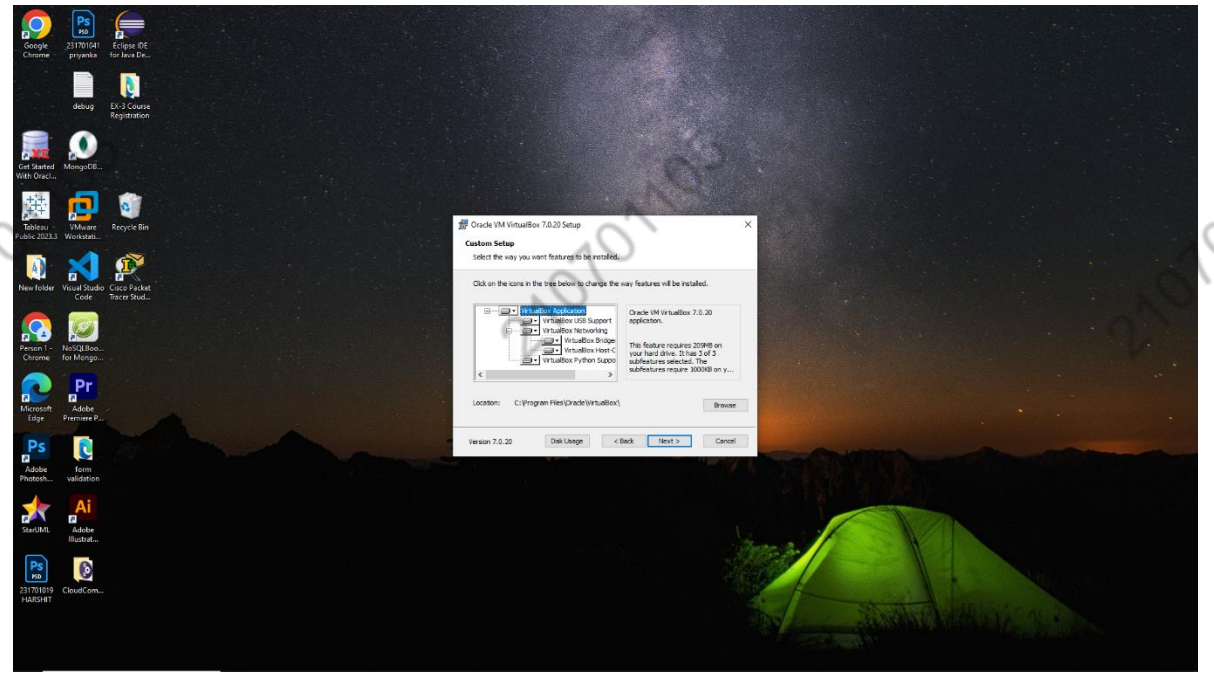
1. Launch a VM ware
2. Create new virtual machine
3. Customize the set-up
4. Set username and password
5. Browse for .iso file of an operating system
6. Configure the hardware capacity
7. Finish and power on the VM
8. Install C or PYTHON OR JAVA Compiler and execute a simple program

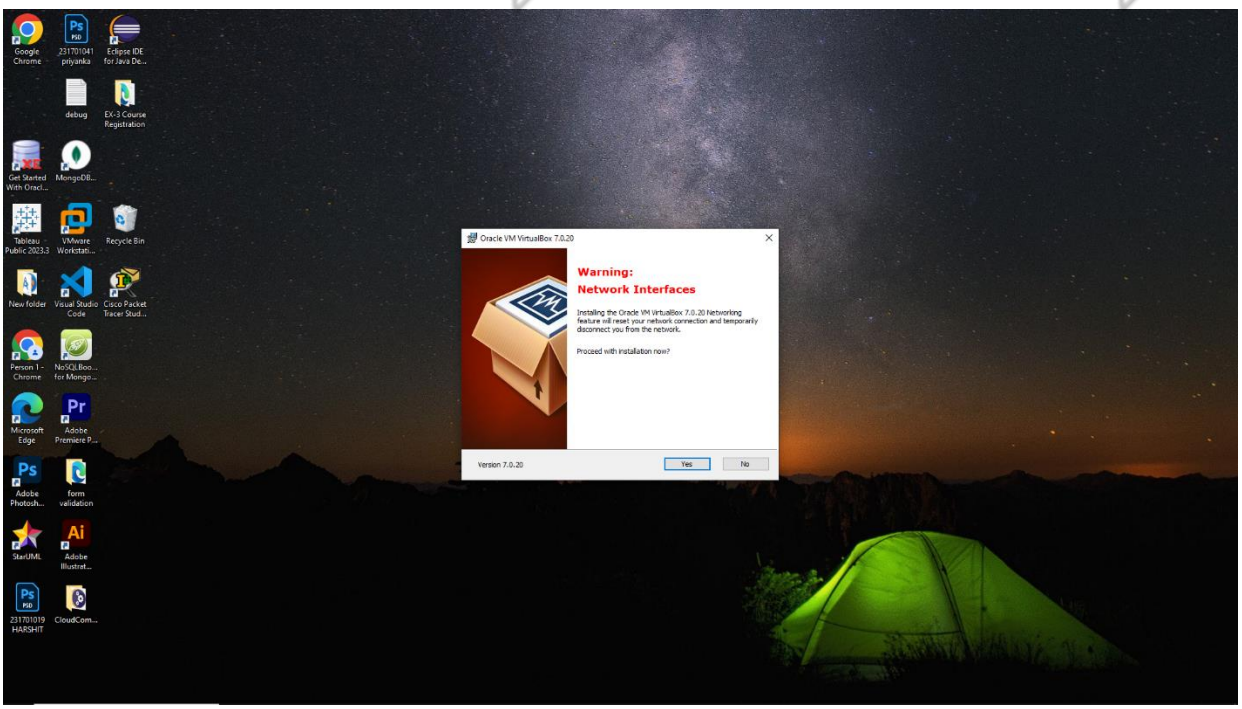
OUTPUT:

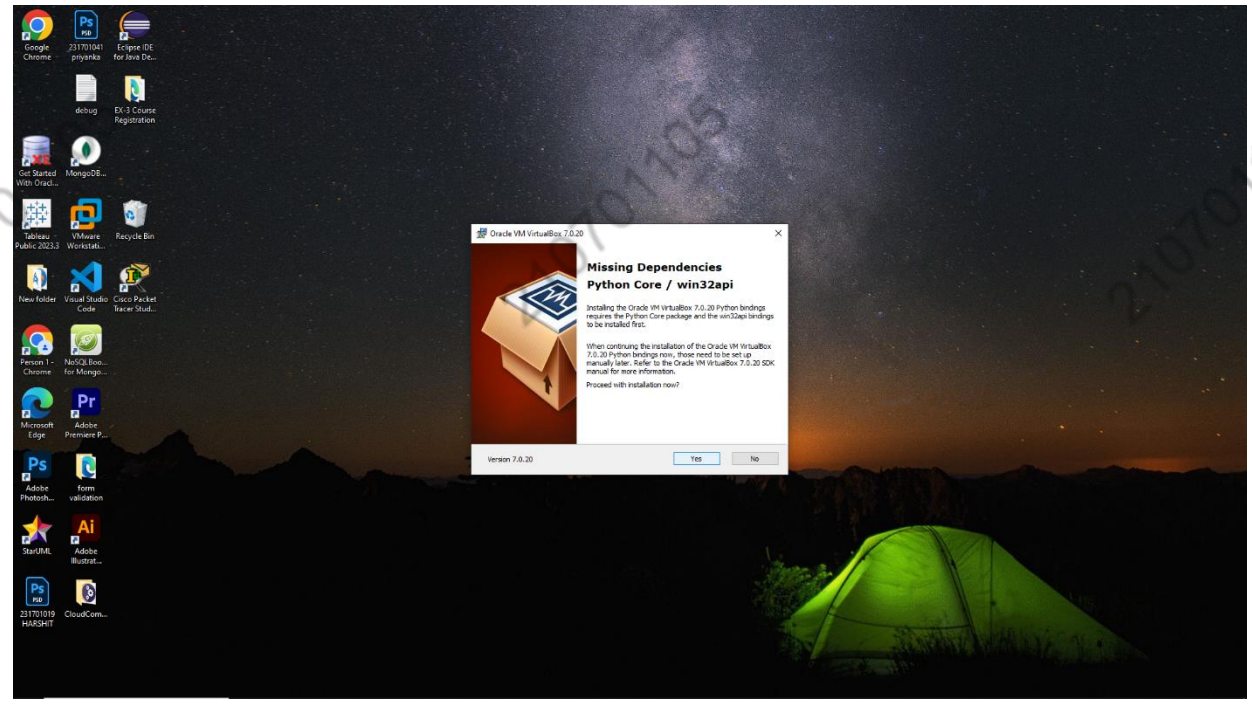
Typical Configuration

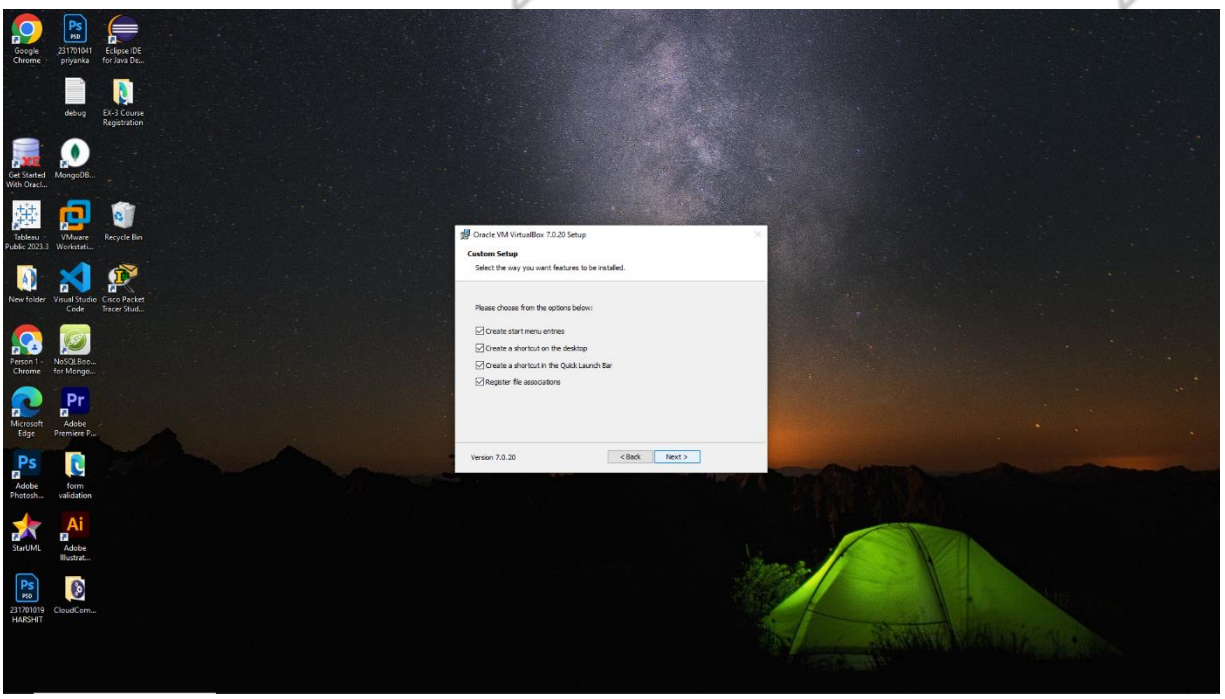


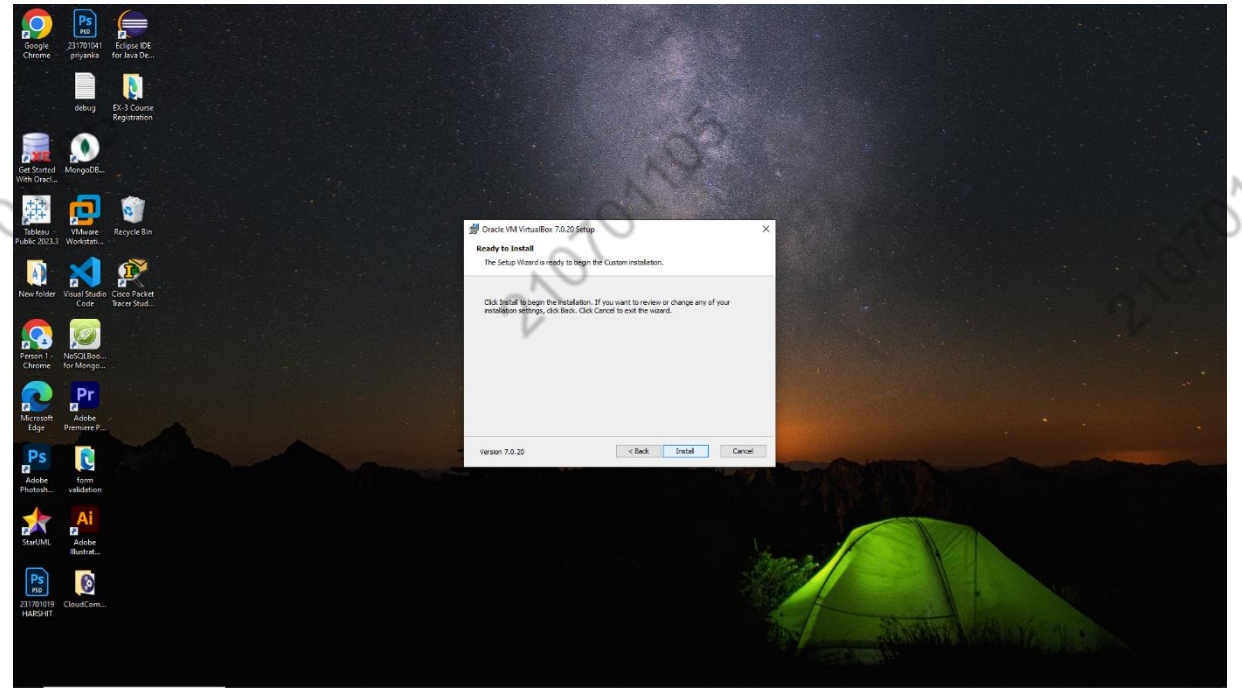

Oracle VM VirtualBox 7.0.20 Setup
Welcome to the Oracle VM VirtualBox 7.0.20 Setup Wizard
The Setup Wizard will install Oracle VM VirtualBox 7.0.20 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
Version 7.0.20
Next >
Cancel

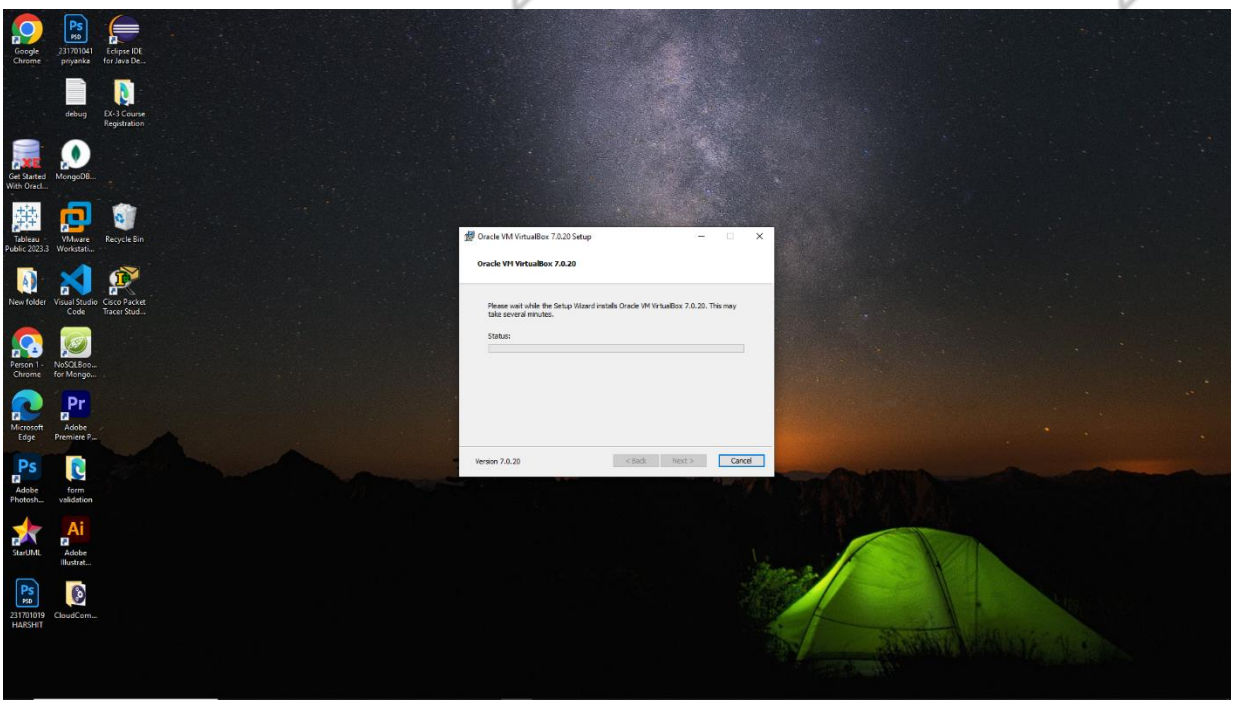

Oracle VM VirtualBox 7.0.20 Setup
Custom Setup
Select the way you want features to be installed.
Click on the icons in the tree below to change the way features will be installed.
VirtualBox Application
VirtualBox USB Support
VirtualBox Networking
VirtualBox Bridge
VirtualBox Python Suppo
Oracle VM VirtualBox 7.0.20 application.
This feature requires 209MB on your hard drive. It has 3 of 3 subfeatures selected. The subfeatures require 1000KB on y...
Location:
C:\Program Files\Oracle\VirtualBox\
Browse
Version 7.0.20
Disk Usage
< Back
Next >
Cancel

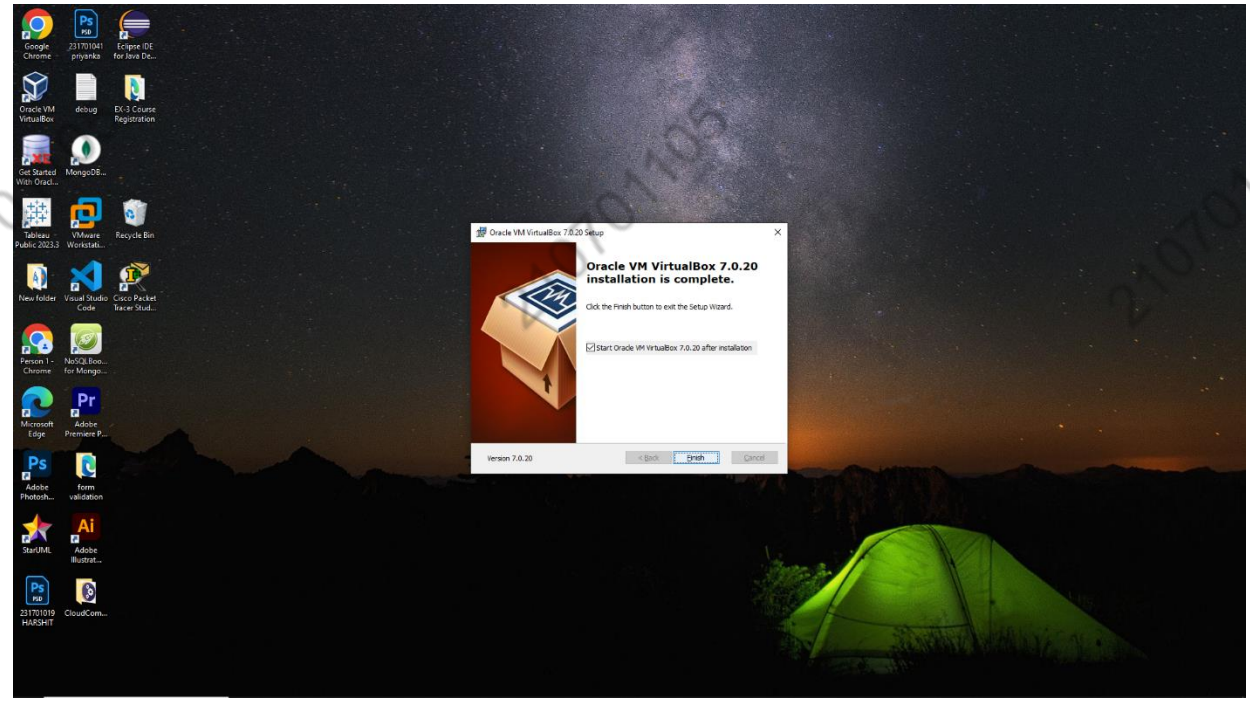

Oracle VM VirtualBox 7.0.20
Warning:
Network Interfaces
Installing the Oracle VM VirtualBox 7.0.20 Networking feature will reset your network connection and temporarily disconnect you from the network.
Proceed with installation now?
Version 7.0.20
Yes
No


Oracle VM VirtualBox 7.0.20
Missing Dependencies
Python Core / win32api
Installing the Oracle VM VirtualBox 7.0.20 Python bindings requires the Python Core package and the win32api bindings to be installed first.
When continuing the installation of the Oracle VM VirtualBox 7.0.20 Python bindings now, those need to be set up manually later. Refer to the Oracle VM VirtualBox 7.0.20 SDK manual for more information.
Proceed with installation now?
Version 7.0.20
Yes
No

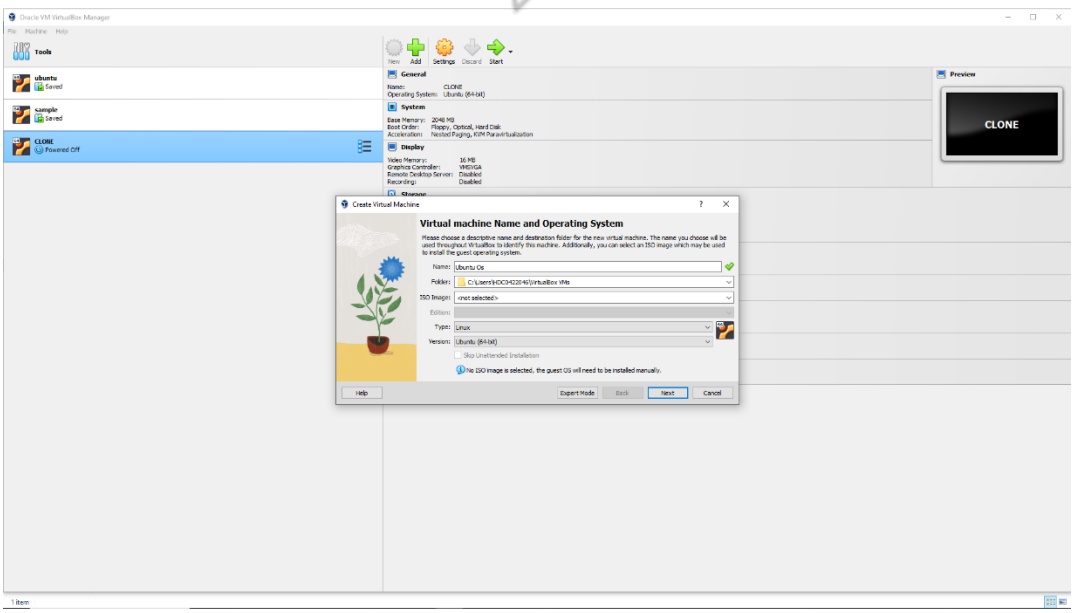

Oracle VM VirtualBox 7.0.20 Setup
Custom Setup
Select the way you want features to be installed.
Please choose from the options below:
Create start menu entries
Create a shortcut on the desktop
Create a shortcut in the Quick Launch Bar
Register file associations
Version 7.0.20
< Back
Next >

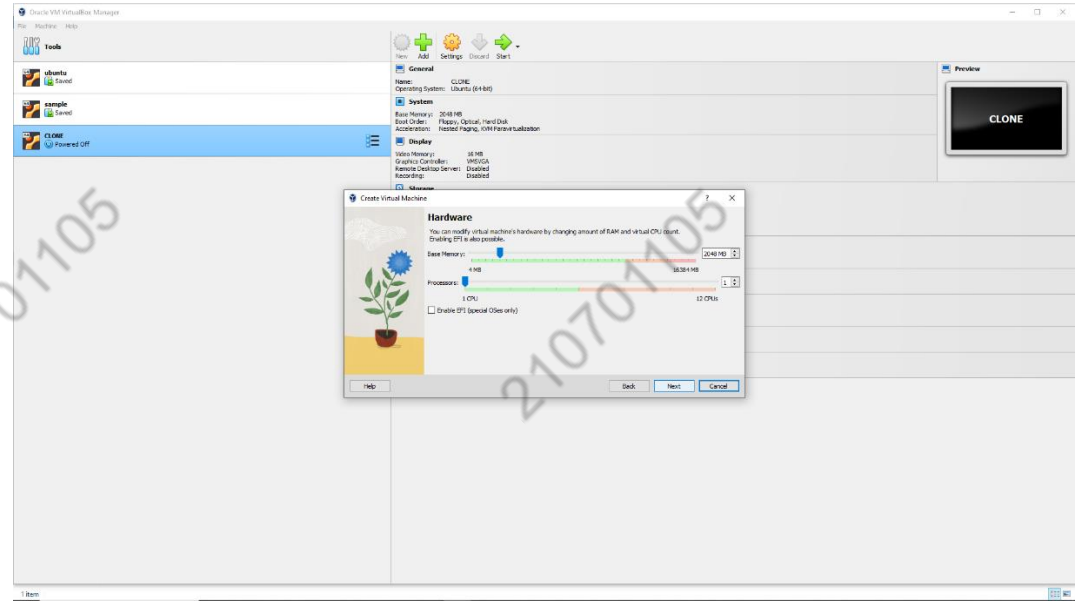

Oracle VM VirtualBox 7.0.20 Setup
Ready to Install
The Setup Wizard is ready to begin the Custom installation.
Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
Version 7.0.20
< Back
Install
Cancel





Custom configuration:


Oracle VM VirtualBox Manager
Tools
ubuntu
Saved
sample
Saved
CLONE
Powered Off
New
Add
Settings
Discard
Start
General
Name: CLONE
Operating System: Ubuntu (64-bit)
System
Base Memory: 2048 MB
Boot Order: Floppy, Optical, Hard Disk
Acceleration: Nested Paging, KVM Paravirtualization
Display
Video Memory: 16 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording: Disabled
Storage
Preview
CLONE
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 Os
Folder: C:\Users\HOD\342645\VirtualBox VMs
ISO Image: <not selected>
Edition:
Type: Linux
Version: Ubuntu (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
1 item


Oracle VM VirtualBox Manager
Tools
ubuntu
Saved
sample
Saved
CLONE
Powered Off
New
Add
Settings
Discard
Start
General
Name: CLONE
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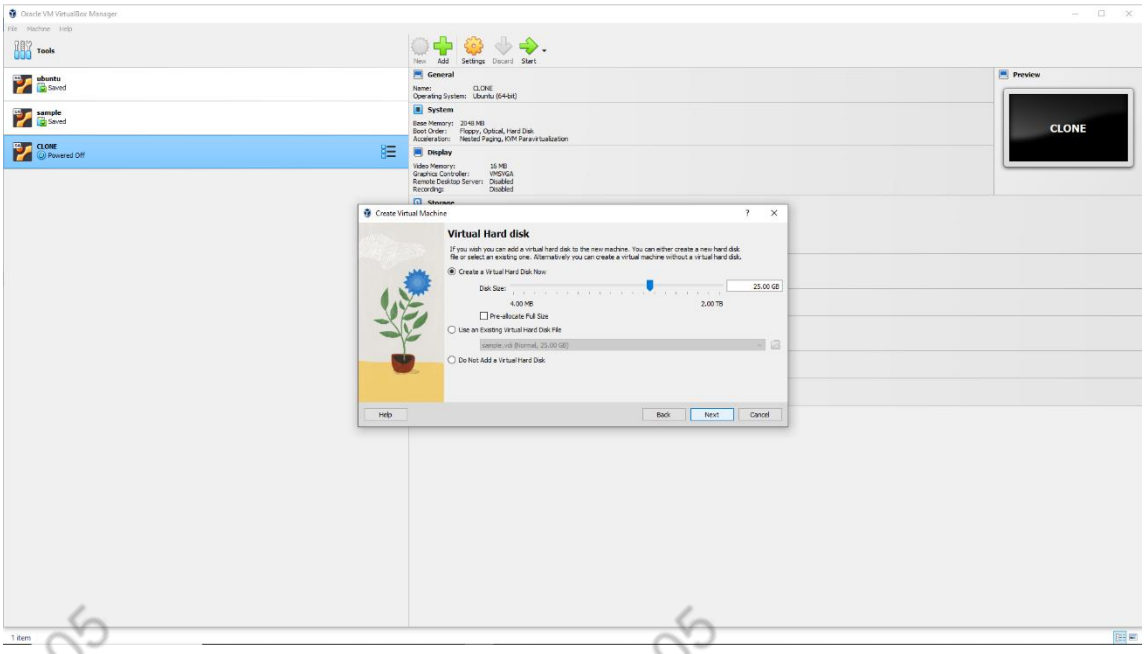
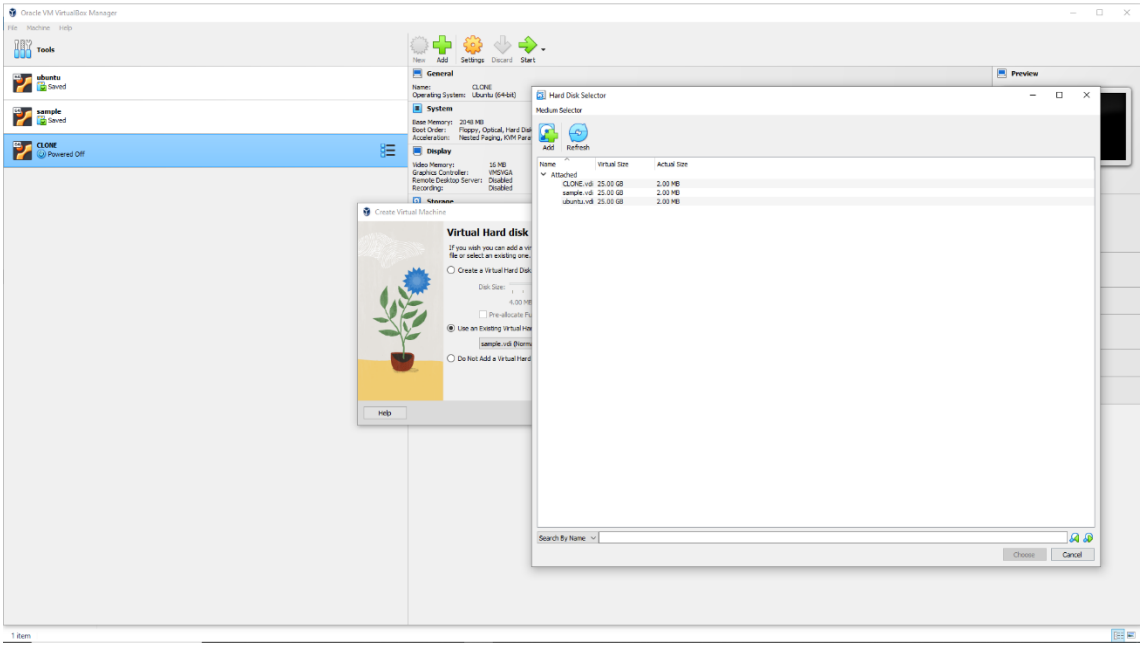
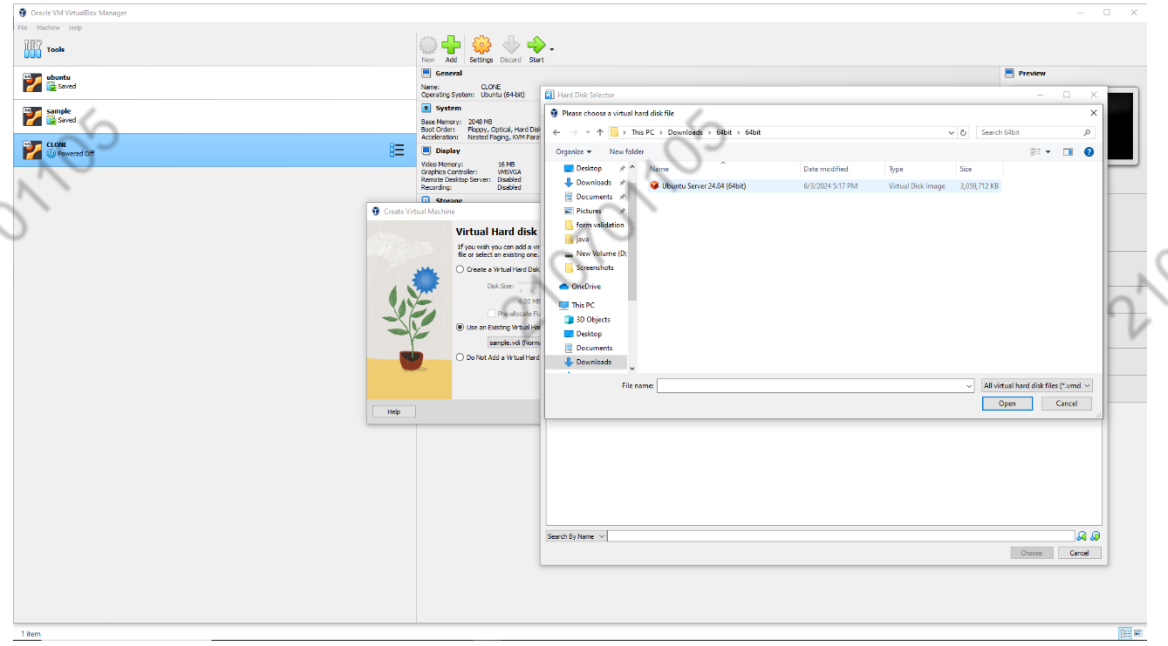
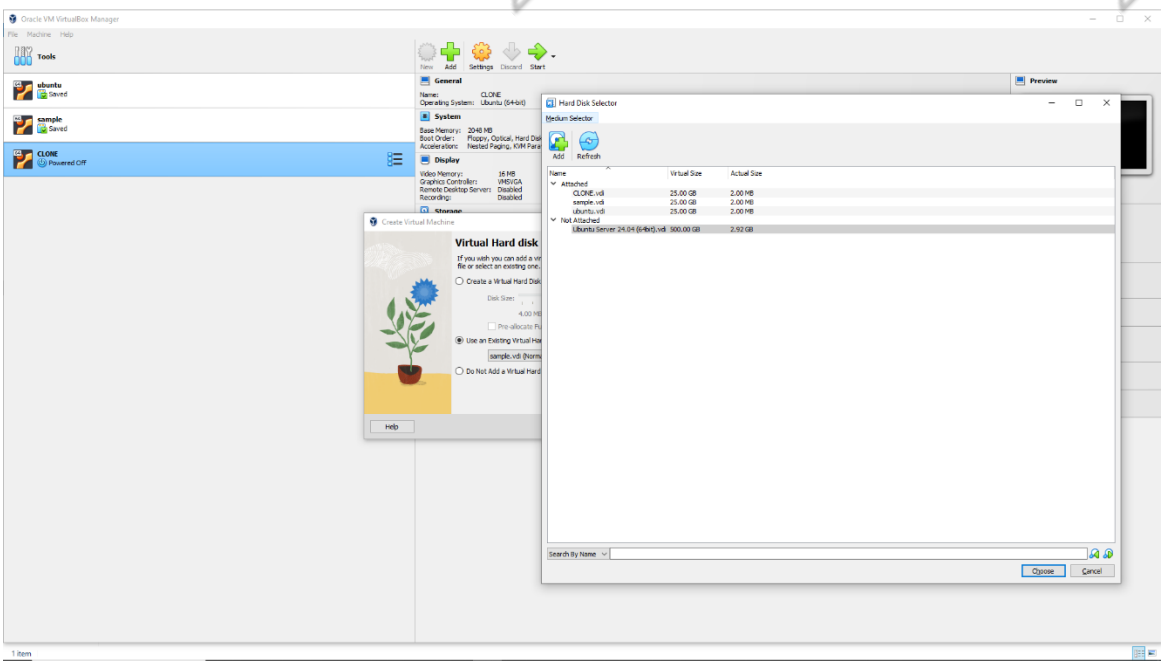
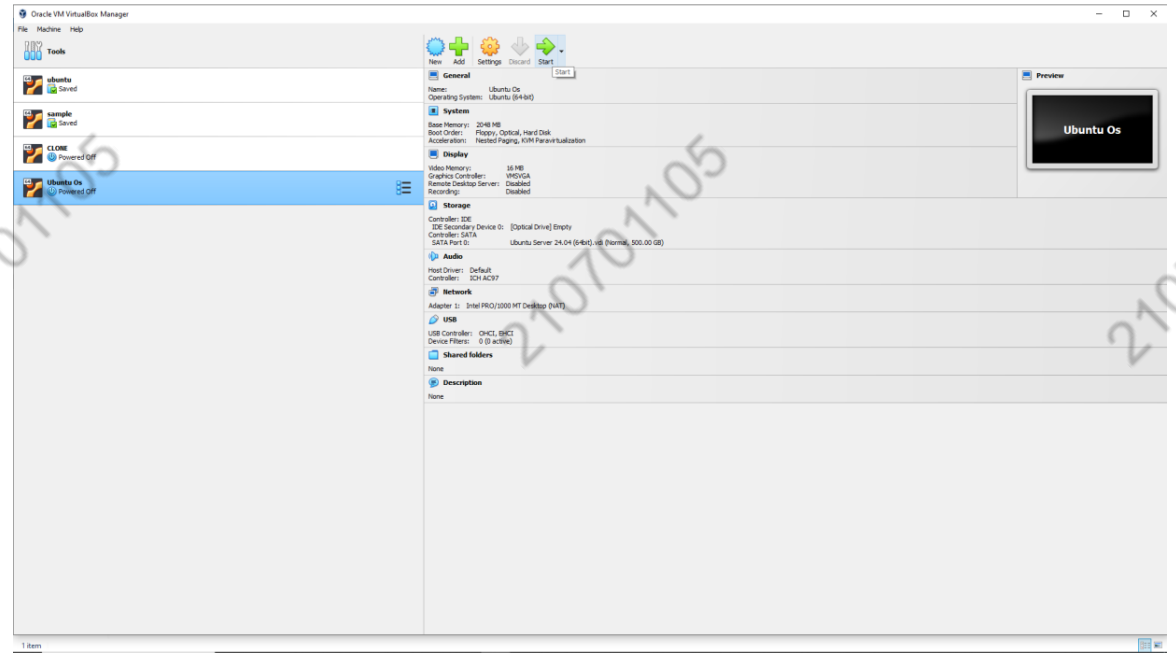
Display
Video Memory: 16 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording: Disabled
Storage
Preview
CLONE
Create Virtual Machine
Hardware
You can modify virtual machine's hardware by changing amount of RAM and virtual CPU count.
Enabling EFI is also possible.
Base Memory:
4 MB
16384 MB
2048 MB
Processors:
1
1 CPU
12 CPUs
Enable EFI (special OSes only)
Help
Back
Next
Cancel
1 item


Oracle VM VirtualBox Manager
Tools
ubuntu
Saved
sample
Saved
CLONE
Powered Off
New
Add
Settings
Discard
Start
General
Name: CLONE
Operating System: Ubuntu (64-bit)
System
Base Memory: 2048 MB
Boot Order: Floppy, Optical, Hard Disk
Acceleration: Nested Paging, KVM Paravirtualization
Display
Video Memory: 16 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording: Disabled
Storage
Preview
CLONE
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
sample.vdi (Normal, 25.00 GB)
Do Not Add a Virtual Hard Disk
Help
Back
Next
Cancel
1 item


Oracle VM VirtualBox Manager
Tools
ubuntu
Saved
sample
Saved
CLONE
Powered Off
Hard Disk Selector
Medium Selector
Add
Refresh
Virtual Hard disk
Create Virtual Machine
Help
Search By Name
Choose
Cancel
1 item


Oracle VM VirtualBox Manager
Tools
ubuntu
Saved
sample
Saved
CLONE
Powered Off
Please choose a virtual hard disk file
Virtual Hard disk
Create Virtual Machine
Help
Search By Name
Choose
Cancel
1 item





RESULT:

Thus, a Virtual Machine using VM ware and Launch the VM is configured.