RAJALAKSHMIENGINEERINGCOLLEGE AN AUTONOMOUS INSTITUTION

AffiliatedtoANNAUNIVERSITY

Rajalakshmi Nagar, Thandalam,

Chennai-602105

RAJALAKSHMI
ENGINEERING COLLEGE
An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY, Chennai

DEPARTMENTOFCOMPUTERSCIENCE AND ENGINEERING

CS19741CLOUDCOMPUTINGLABORATORY

ACADEMIC YEAR:2024-2025 (ODD)

210701102

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Reg.No:210701102 **Name:Kamal Prashanth C**

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

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2	Virtualizeamachineandcheckhowmanyvirtualmachinescanbeutilized at a particular time		
3	CreateaVMcloneandattachavirtualblocktotheclonedVM		
	PUBLICCLOUD		
4	DevelopasimpleemailautomationserviceusingSalesforce		
5	LaunchacloudinstanceusingapublicIaaScloudserviceliketheIBM cloud		
6	WorkwithapubliccloudservicesuchastheServiceNow/MS Azure		
	CLOUDSIMULATION		
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210701102

Exp No:1 **Date:**

VIRTUALIZATION
CONFIGURATIONANDCREATIONOFVIRTUALMACHINE

AIM:

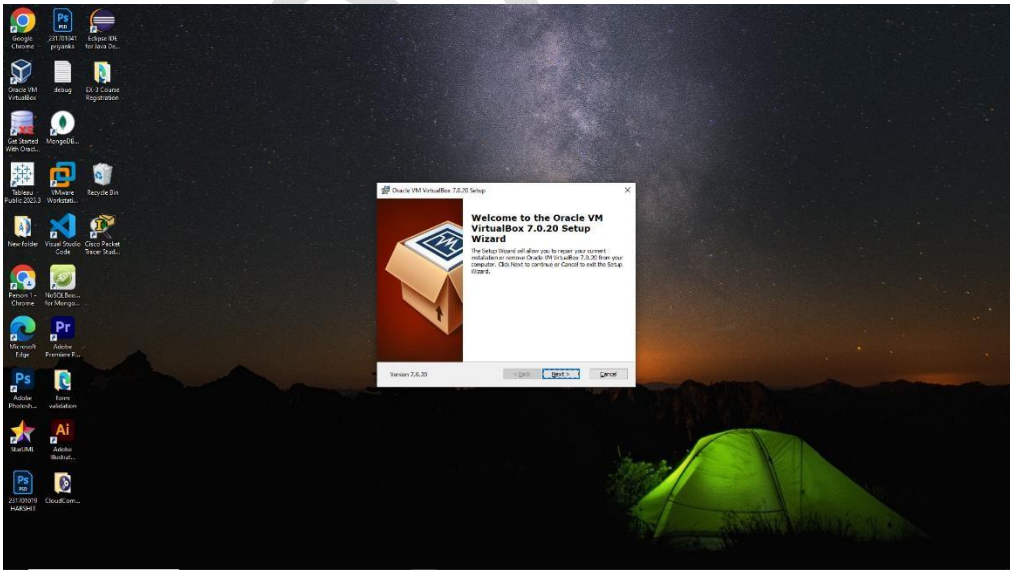
ToconfigureaVirtualMachineusingVMwareandLaunchtheVMandexecutea simple program using C/PYTHON/JAVA.

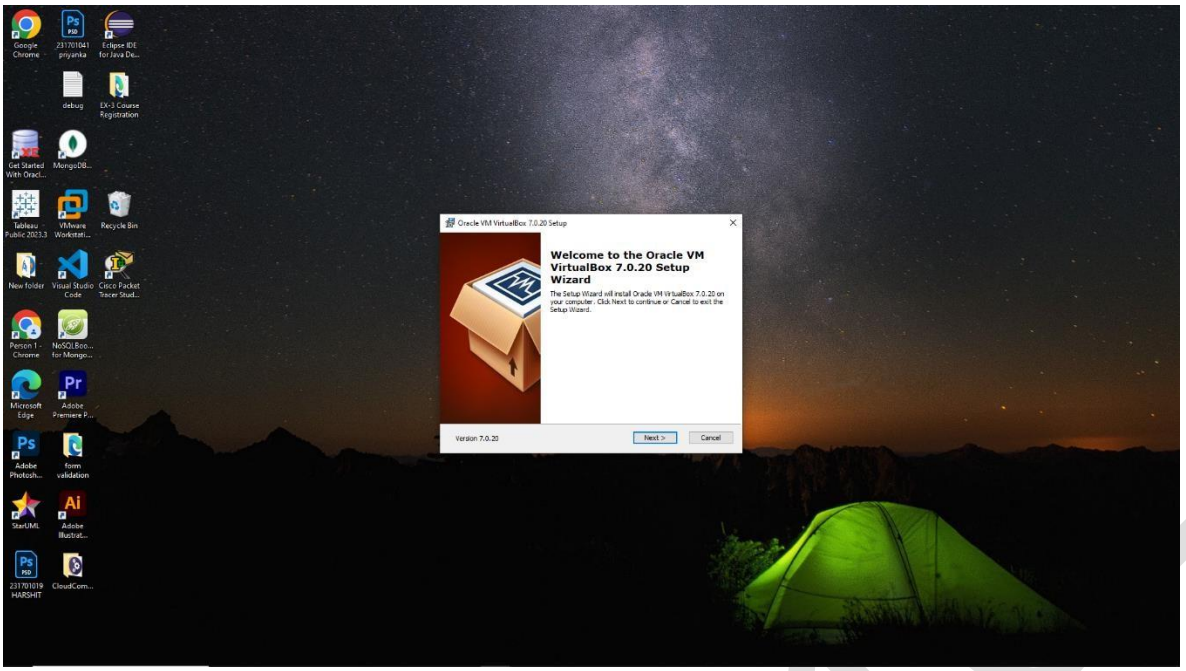
PROCEDURE:

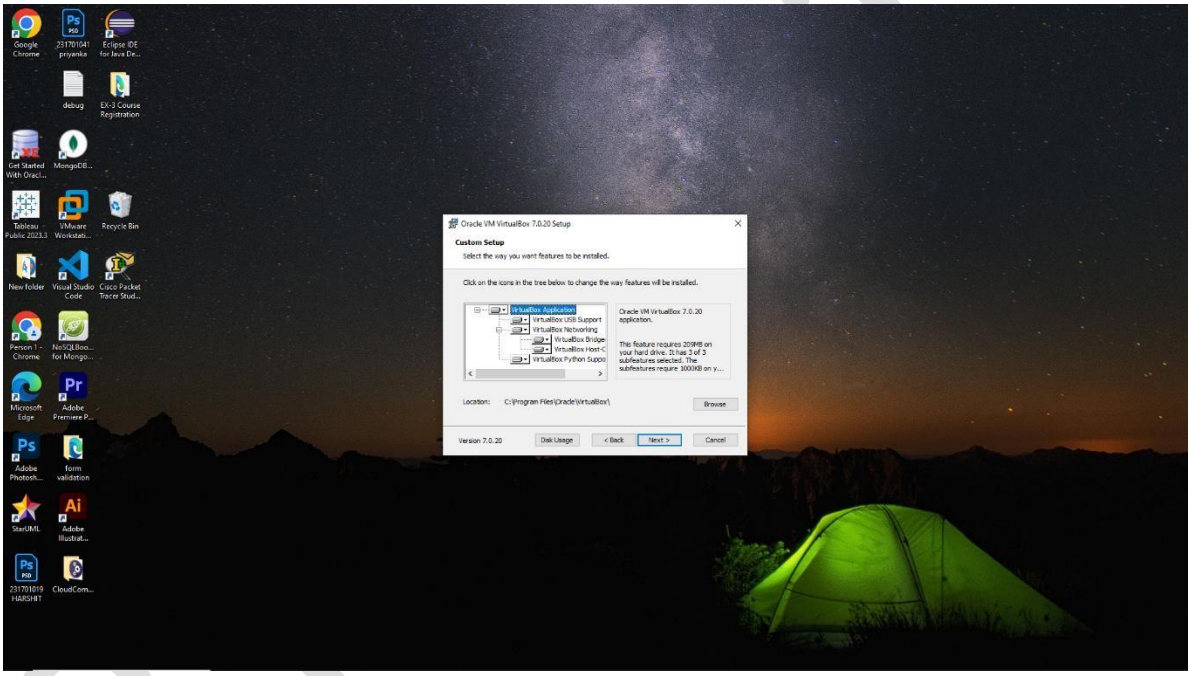
1. LaunchaVMware
2. Createnewvirtualmachine
3. Customizetheset-up
4. Setusername andpassword
5. Browsefor.isofileofanoperating system
6. Configurethehardwarecapacity
7. FinishandpowerontheVM
8. InstallCorPYTHONOR JAVACompilerandexecuteasimpleprogram

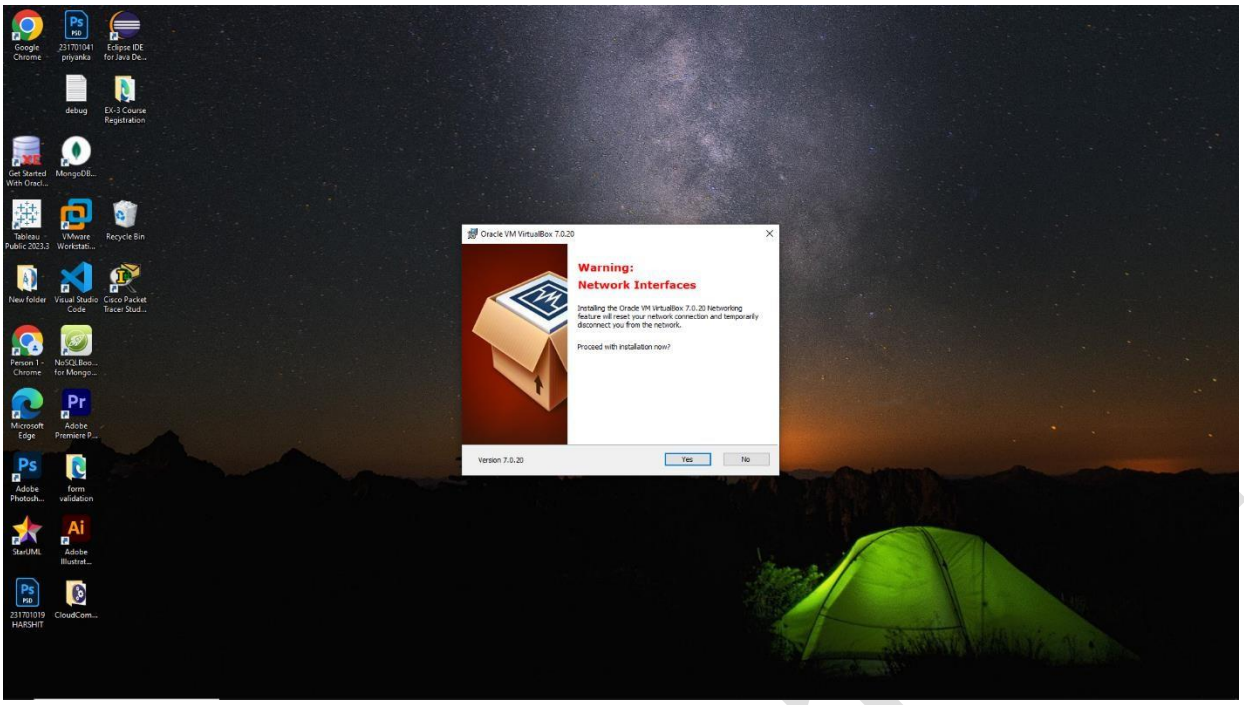
OUTPUT:

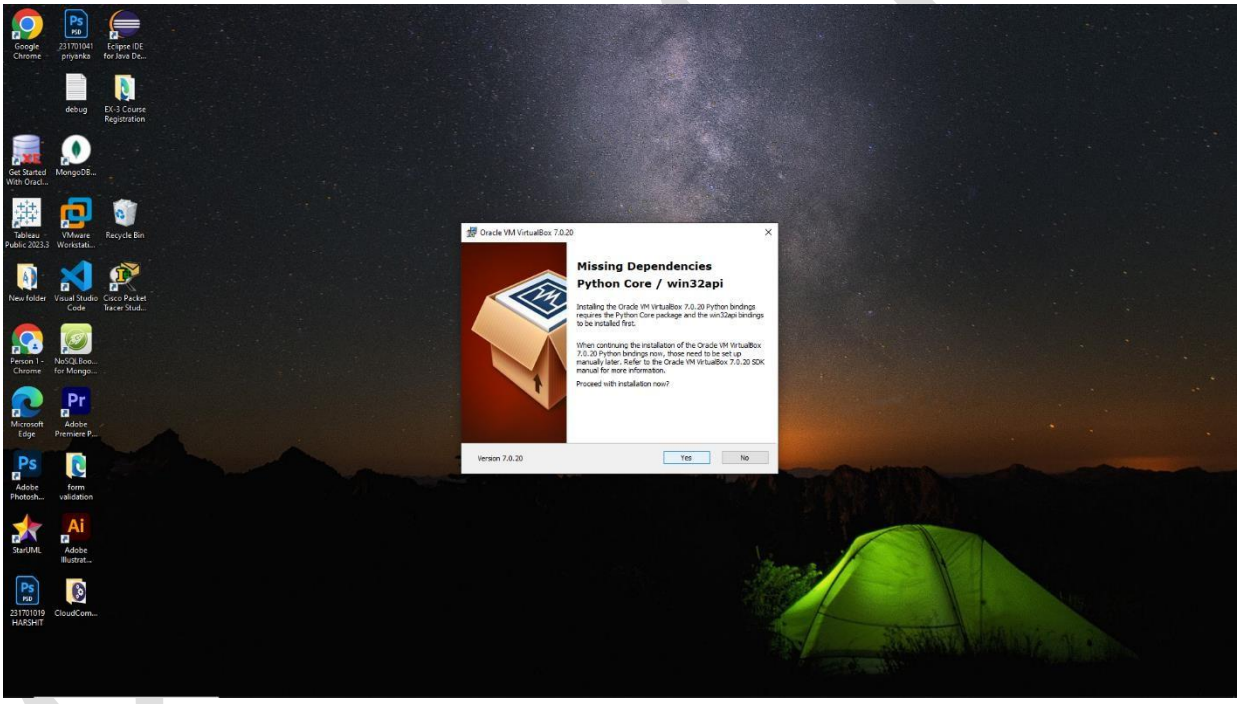
Typical Configuration

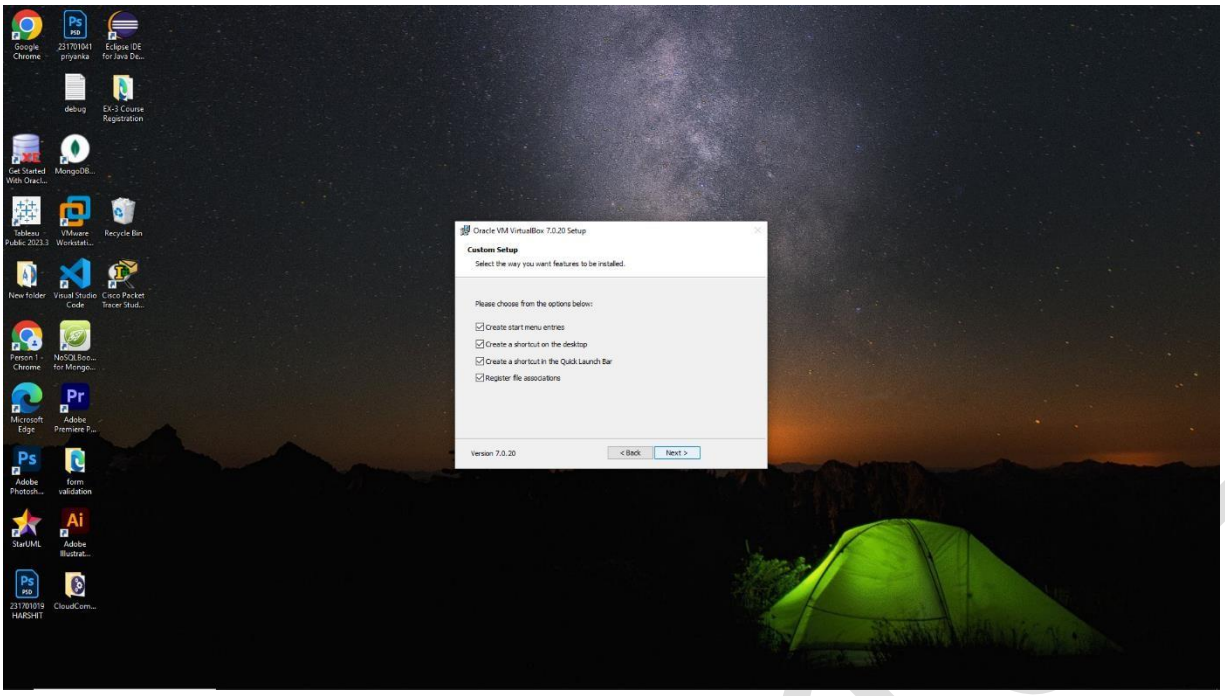


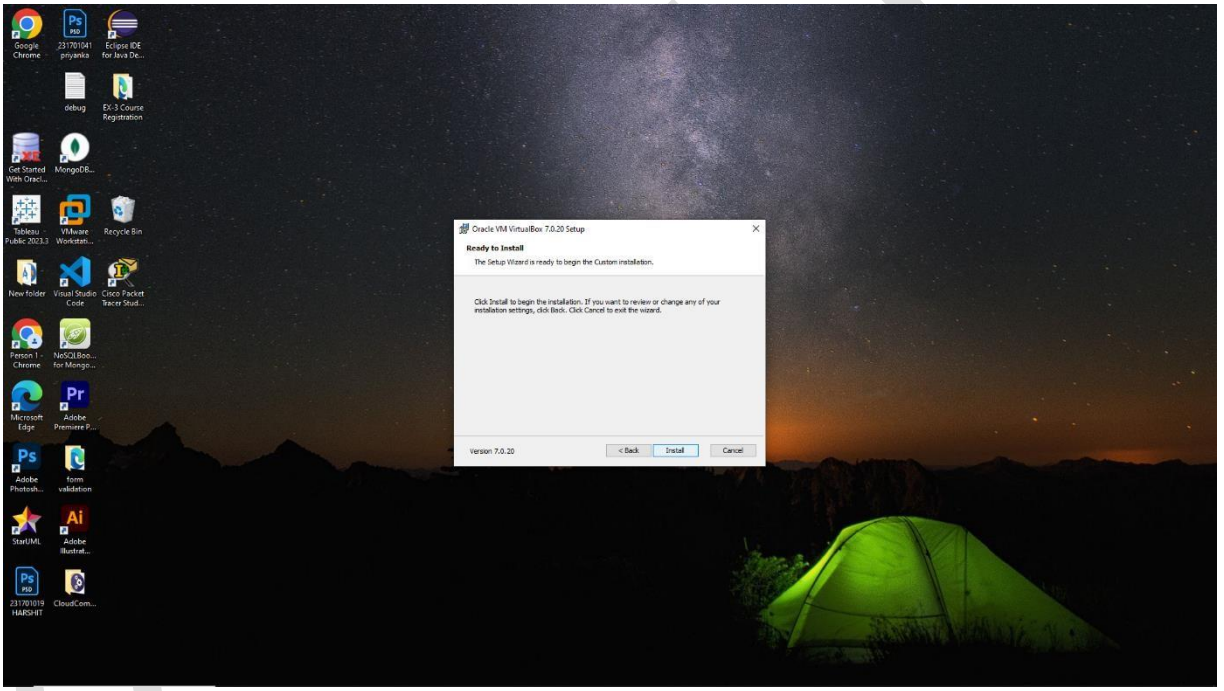

Oracle VM VirtualBox 7.0.20 Setup
Welcome to the Oracle VM VirtualBox 7.0.20 Setup Wizard
The Setup Wizard will install Oracle VM VirtualBox 7.0.20 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
Version 7.0.20
Next >
Cancel

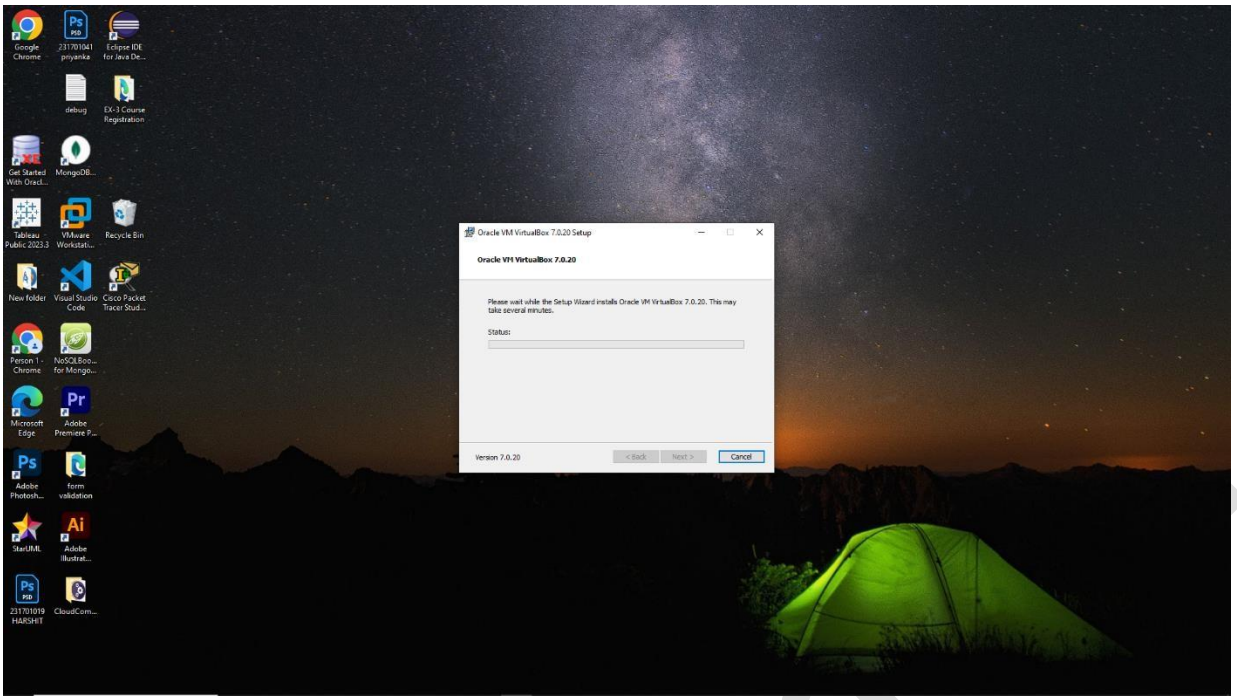

Oracle VM VirtualBox 7.0.20 Setup
Custom Setup
Select the way you want features to be installed.
Click on the icons in the tree below to change the way features will be installed.
VirtualBox Application
VirtualBox USB Support
VirtualBox Networking
VirtualBox Bridge
VirtualBox Python Suppo
Oracle VM VirtualBox 7.0.20 application.
Location:
C:\Program Files\Oracle\VirtualBox\
Browse
Version 7.0.20
Disk Usage
< Back
Next >
Cancel

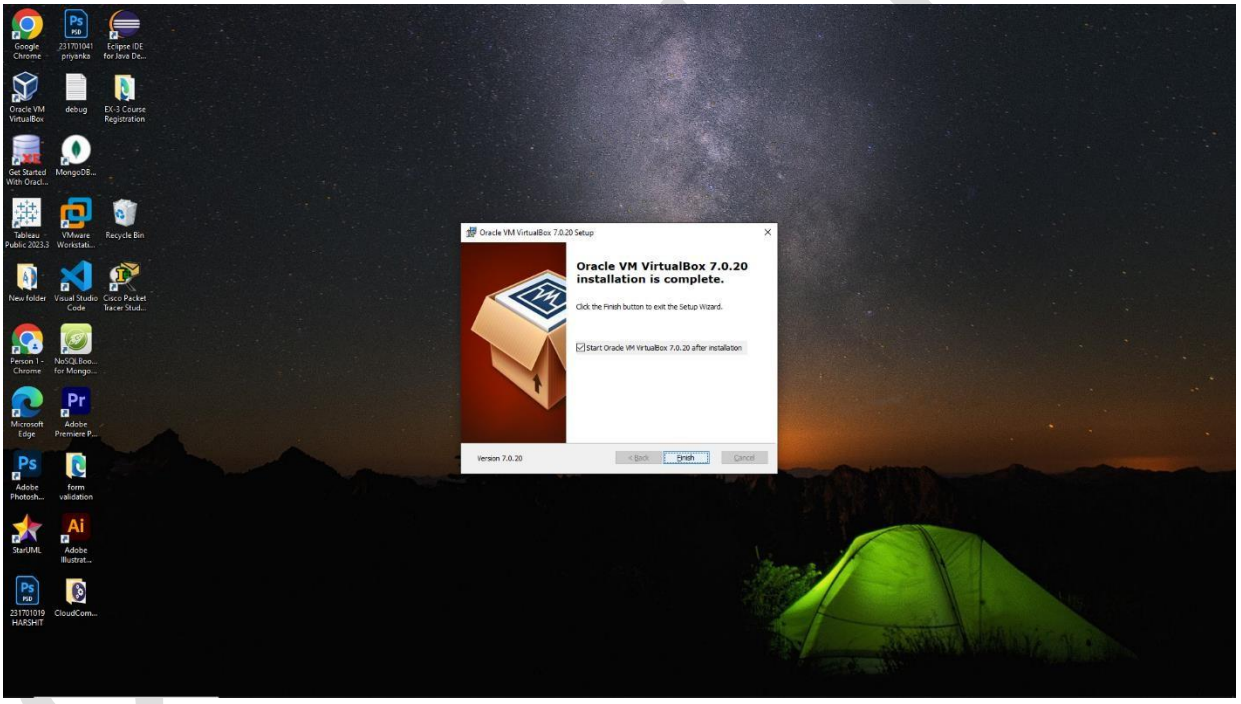

Oracle VM VirtualBox 7.0.20
Warning:
Network Interfaces
Installing the Oracle VM VirtualBox 7.0.20 Networking feature will reset your network connection and temporarily disconnect you from the network.
Proceed with installation now?
Version 7.0.20
Yes
No


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

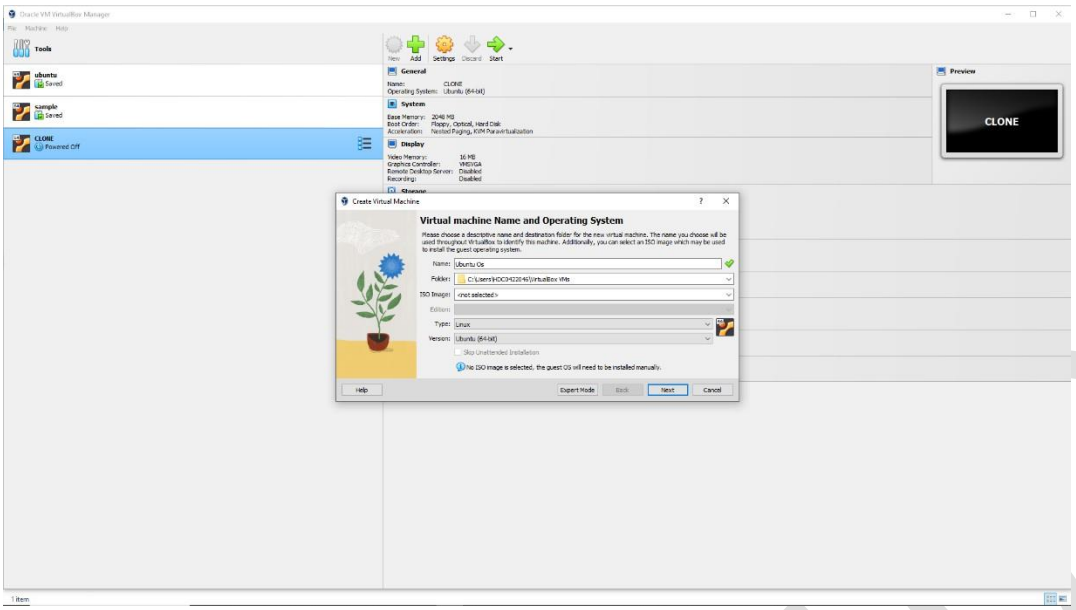

Oracle VM VirtualBox 7.0.20 Setup
Custom Setup
Select the way you want features to be installed.
Please choose from the options below:
Create start menu entries
Create a shortcut on the desktop
Create a shortcut in the Quick Launch Bar
Register file associations
Version 7.0.20
< Back
Next >

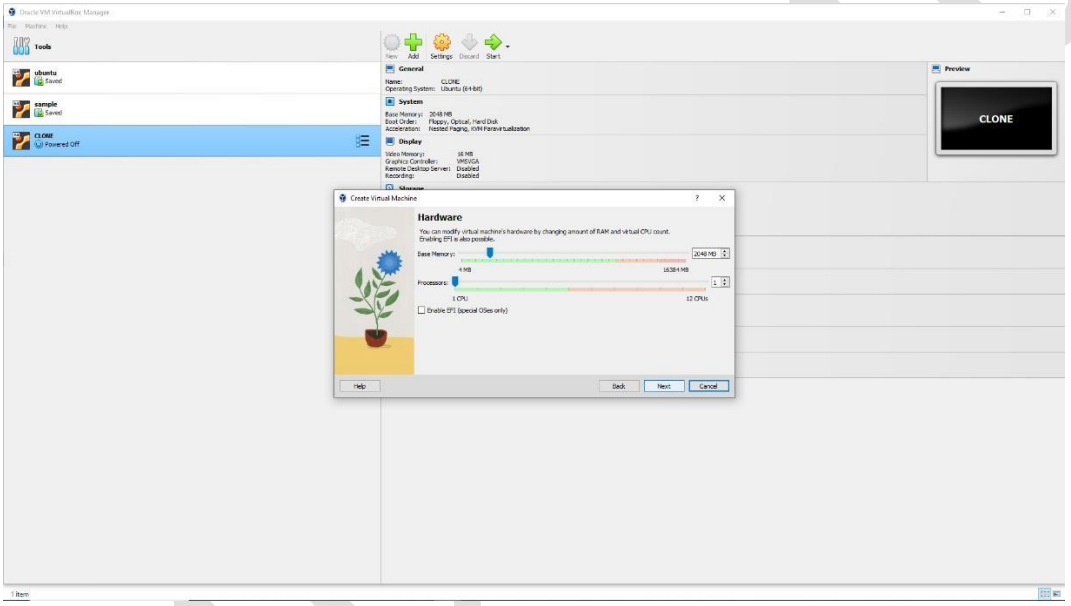

Oracle VM VirtualBox 7.0.20 Setup
Ready to Install
The Setup Wizard is ready to begin the Custom installation.
Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
Version 7.0.20
< Back
Install
Cancel

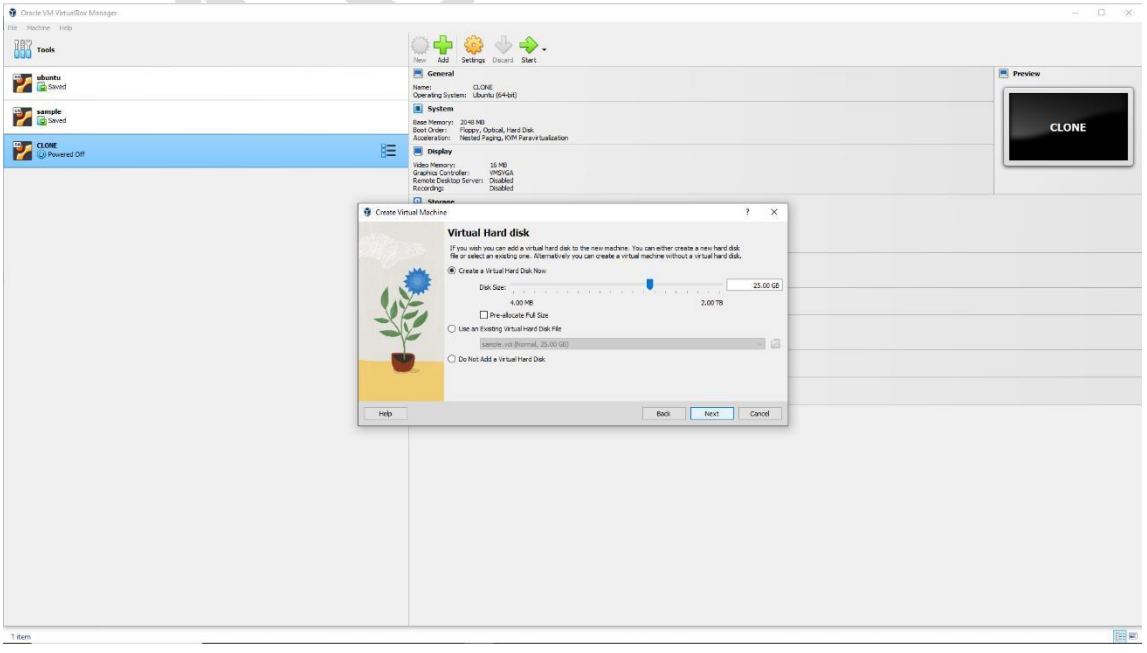


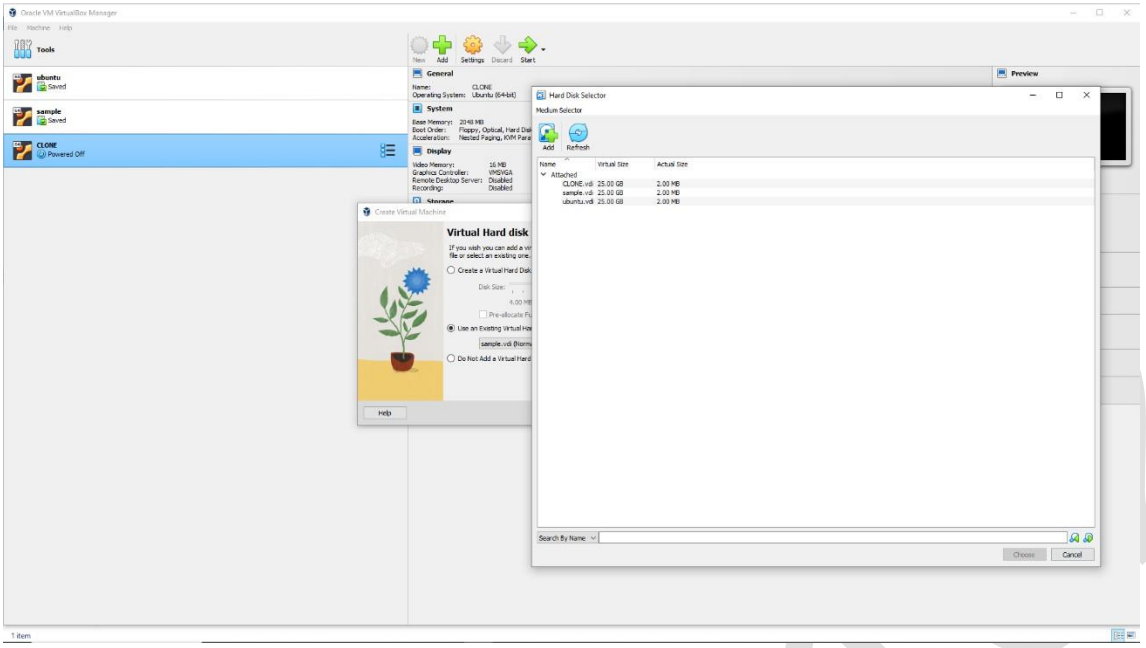


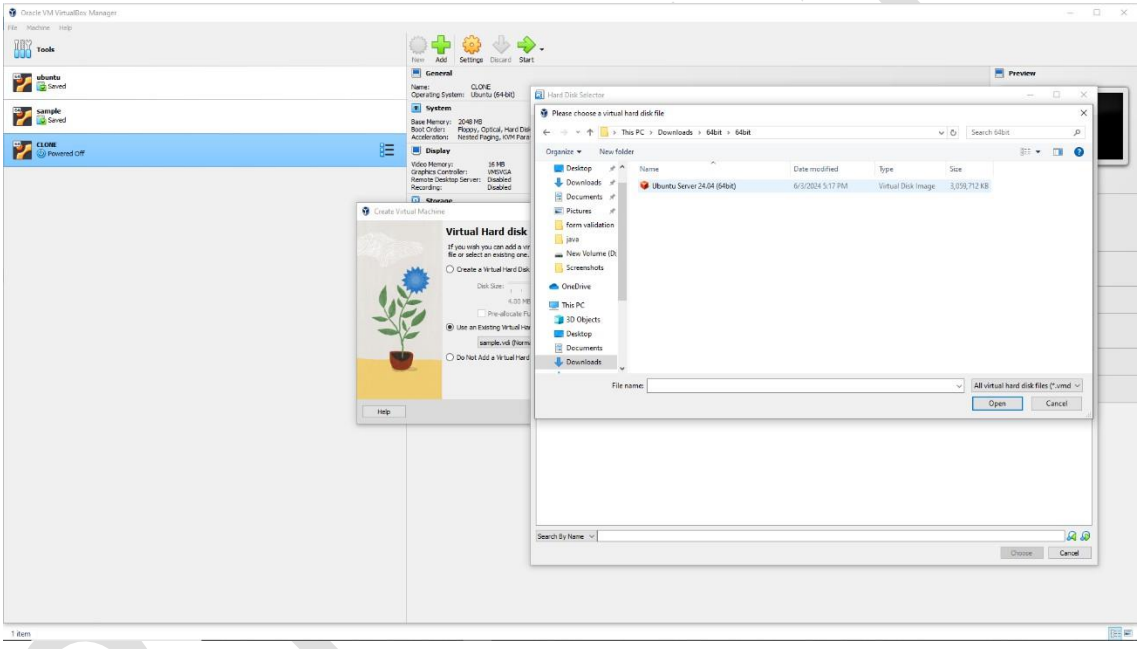
Customconfiguration:

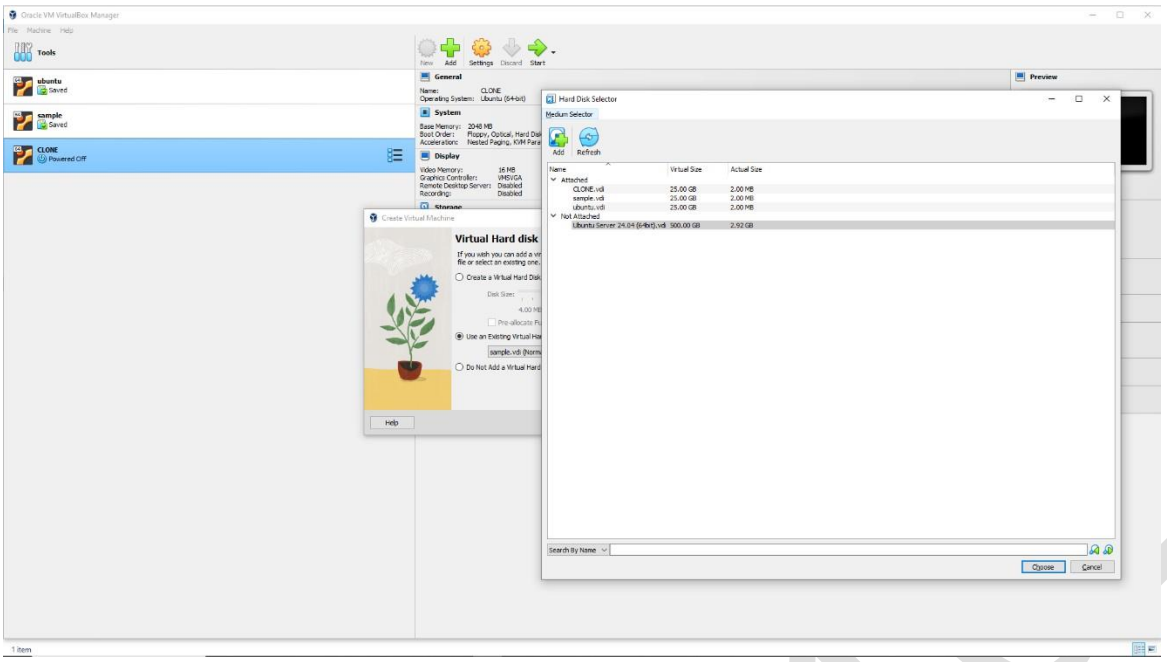

Oracle VM VirtualBox Manager
Tools
ubuntu
Saved
sample
Saved
CLONE
Powered Off
New
Add
Settings
Discard
Start
General
Name: CLONE
Operating System: Ubuntu (64-bit)
System
Base Memory: 2048 MB
Boot Order: Floppy, Optical, Hard Disk
Acceleration: Nested Paging, KVM Paravirtualization
Display
Video Memory: 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\210246\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

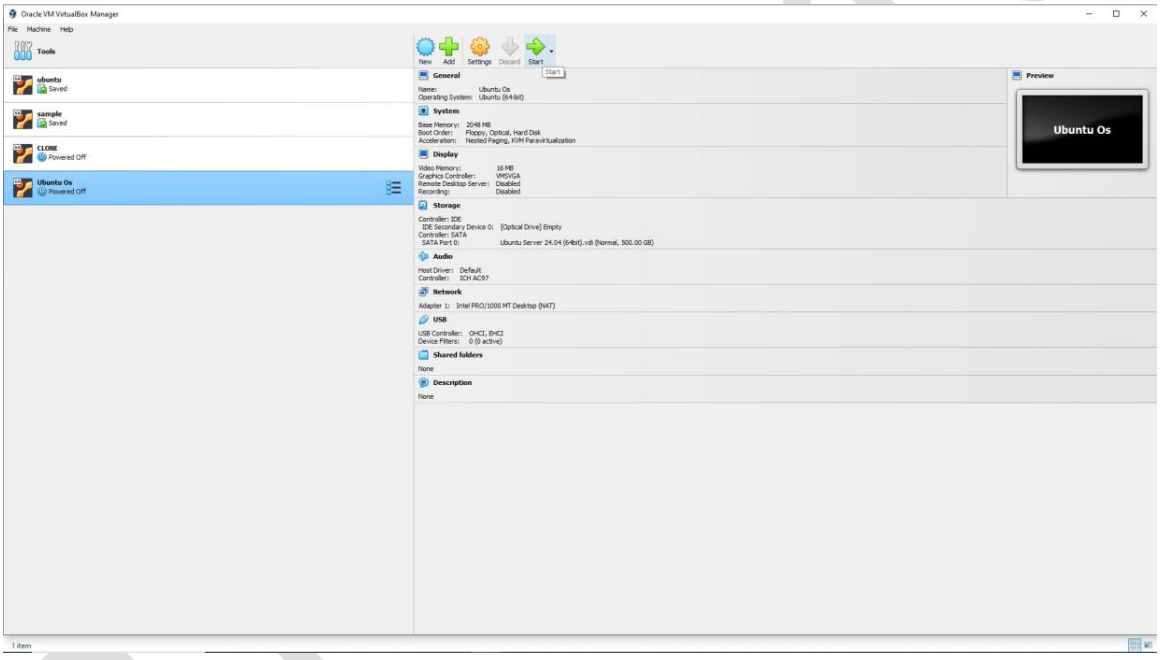

Oracle VM VirtualBox Manager
Tools
ubuntu
Saved
sample
Saved
CLONE
Powered Off
New
Add
Settings
Discard
Start
General
Name: CLONE
Operating System: Ubuntu (64-bit)
System
Base Memory: 2048 MB
Boot Order: Floppy, Optical, Hard Disk
Acceleration: Nested Paging, KVM Paravirtualization
Display
Video Memory: 16 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording: Disabled
Storage
Preview
CLONE
Create Virtual Machine
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
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
Add
Settings
Discard
Start
General
Name: CLONE
Operating System: Ubuntu (64-bit)
System
Display
Preview
Hard Disk Selector
Medium Selector
Add
Refresh
Name
Virtual Size
Actual Size
Attached
CLONE.vdi 25.00 GB 2.00 MB
sample.vdi 25.00 GB 2.00 MB
ubuntu.vdi 25.00 GB 2.00 MB
Create Virtual Machine
Virtual Hard disk
Create a Virtual Hard Disk
Use an Existing Virtual Hard Disk
sample.vdi
Do Not Add a Virtual Hard Disk
Help
Search By Name
Choose
Cancel
1 item


Oracle VM VirtualBox Manager
Tools
ubuntu
Saved
sample
Saved
CLONE
Powered Off
Add
Settings
Discard
Start
General
Name: CLONE
Operating System: Ubuntu (64-bit)
System
Display
Preview
Hard Disk Selector
Please choose a virtual hard disk file
This PC
Downloads
64bit
Search 64bit
Organize
New folder
Desktop
Downloads
Documents
Pictures
form validation
java
New Volume (D:)
Screenshots
OneDrive
This PC
3D Objects
Desktop
Documents
Downloads
Name
Date modified
Type
Size
Ubuntu Server 24.04 (64bit)
6/3/2024 5:17 PM
Virtual Disk Image
3,059,712 KB
File name:
All virtual hard disk files (*.vmd
Open
Cancel
Create Virtual Machine
Virtual Hard disk
Create a Virtual Hard Disk
Use an Existing Virtual Hard Disk
sample.vdi
Do Not Add a Virtual Hard Disk
Help
Search By Name
Choose
Cancel
1 item





RESULT:

Thus,aVirtualMachineusingVMwareandLaunch theVMis configured.