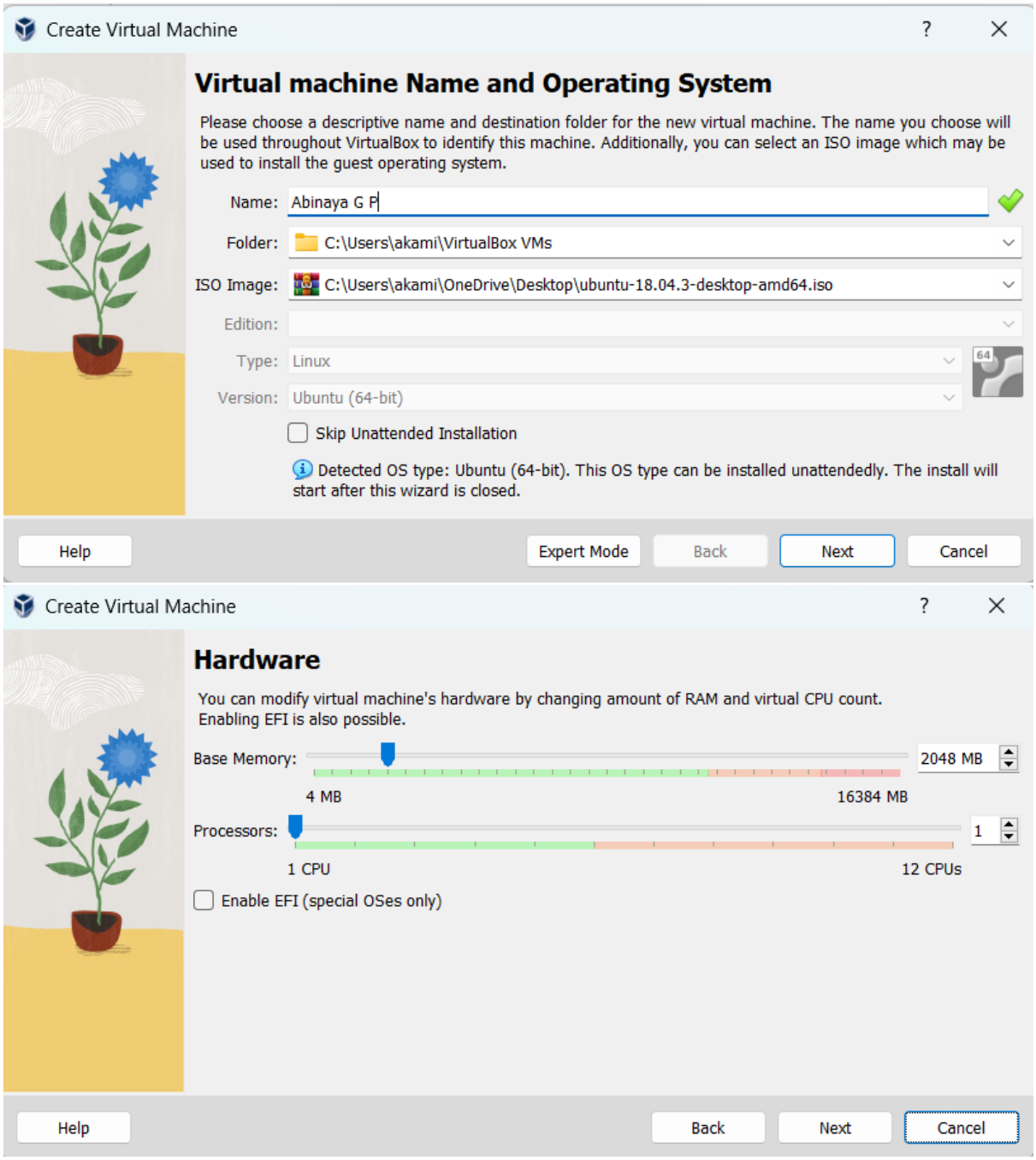
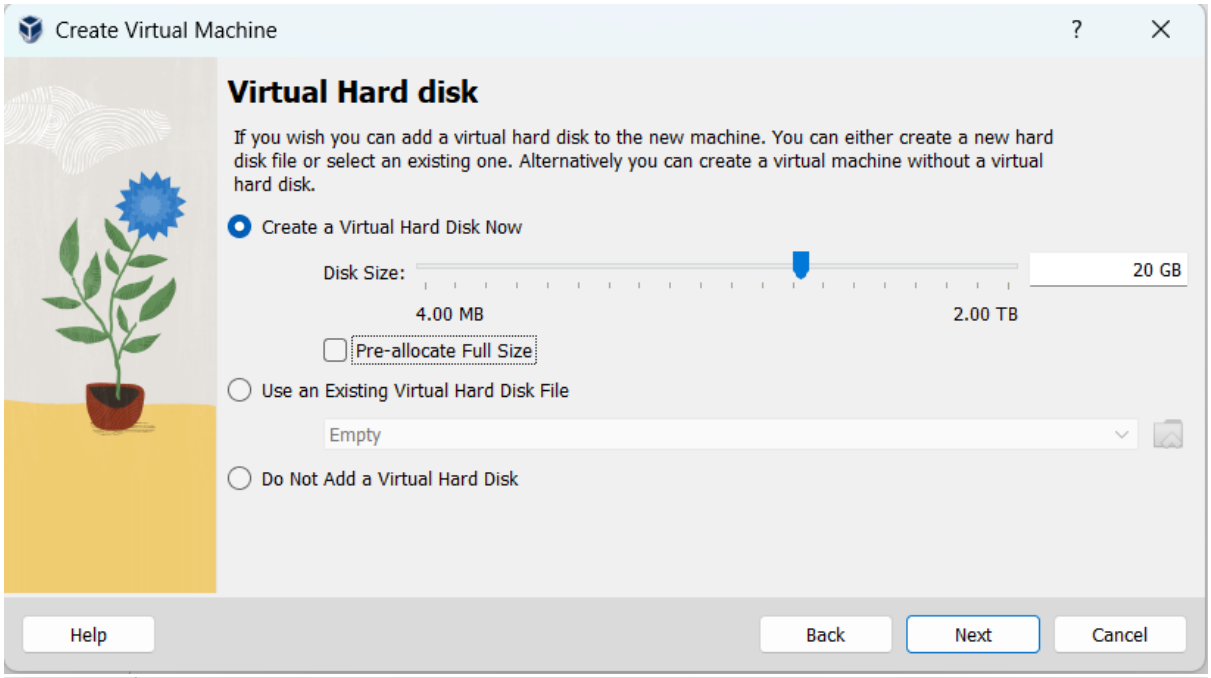
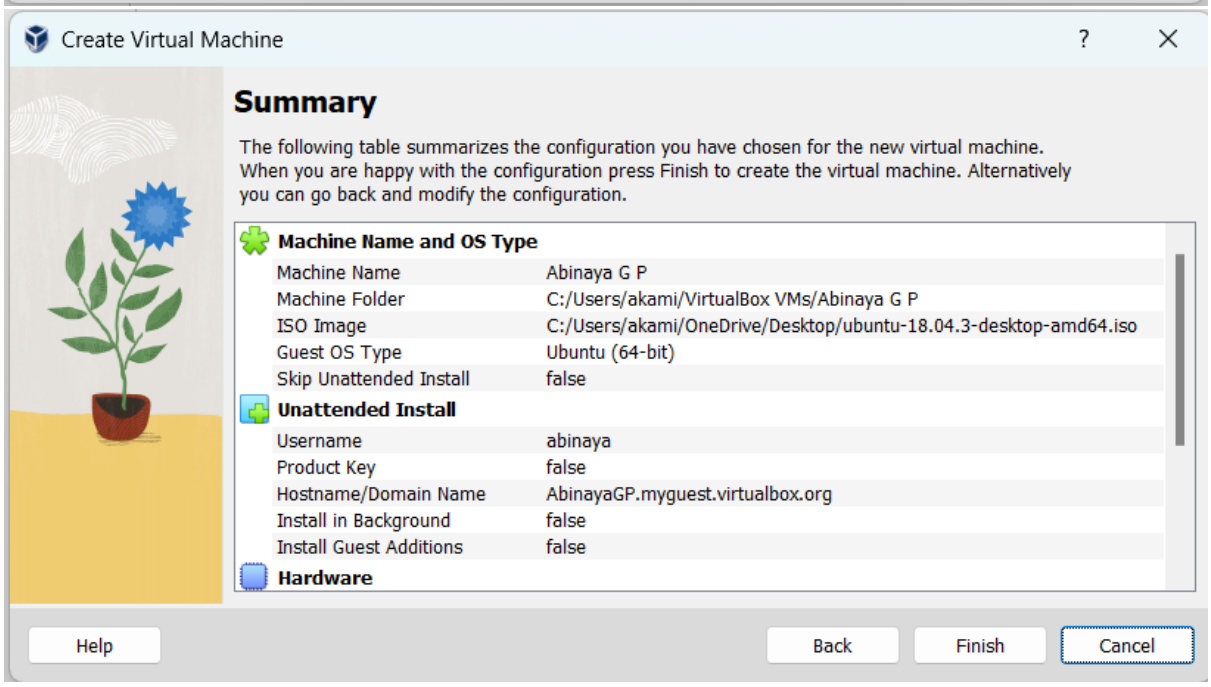
DAY 2 EXPERIMENT

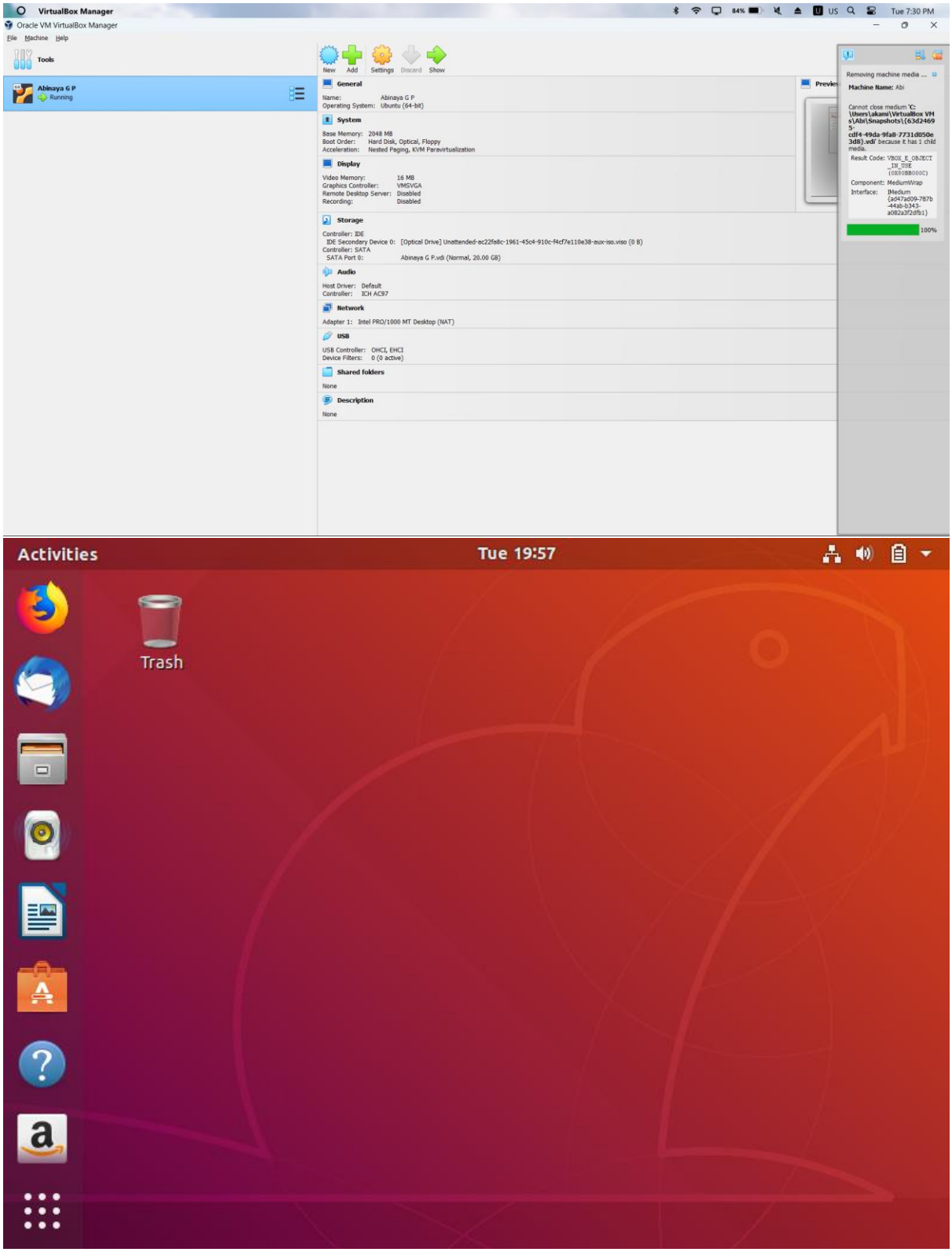
Question 1:

Demonstrate virtualization by Installing Type-2 Hypervisor in your device, create and configure VM image with a Host Operating system (Either Windows/Linux



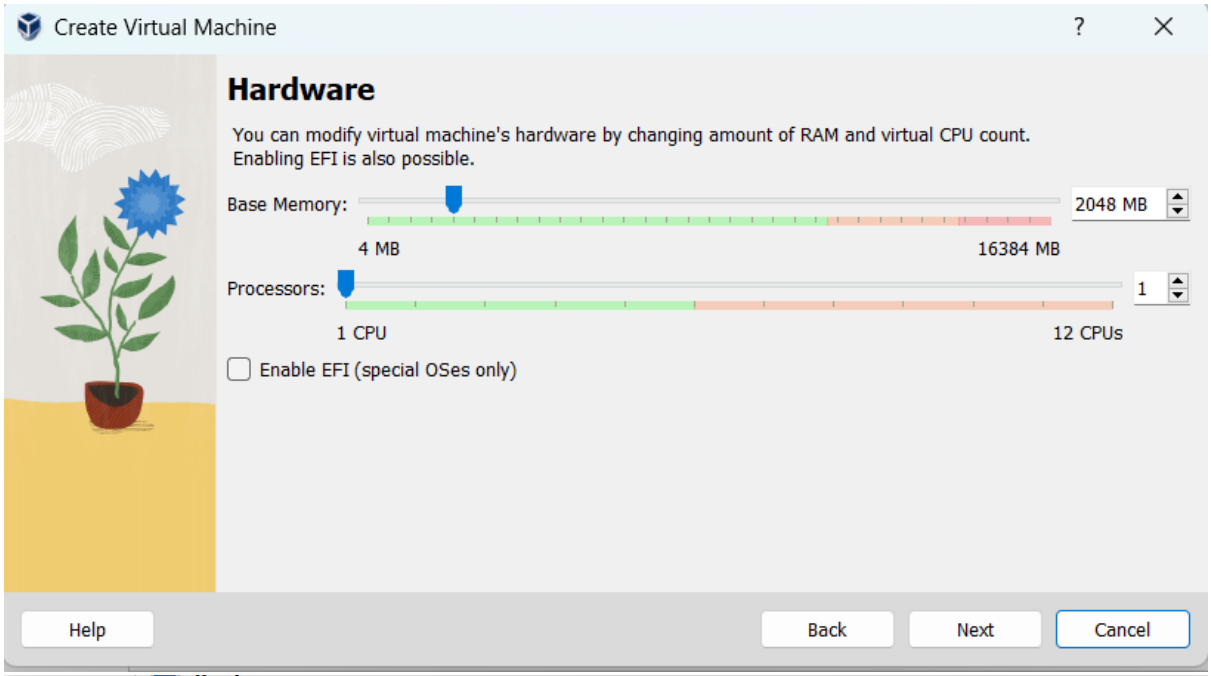

Create Virtual Machine
Virtual Hard disk
If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select an existing one. Alternatively you can create a virtual machine without a virtual hard disk.
Create a Virtual Hard Disk Now
Disk Size:
20 GB
4.00 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

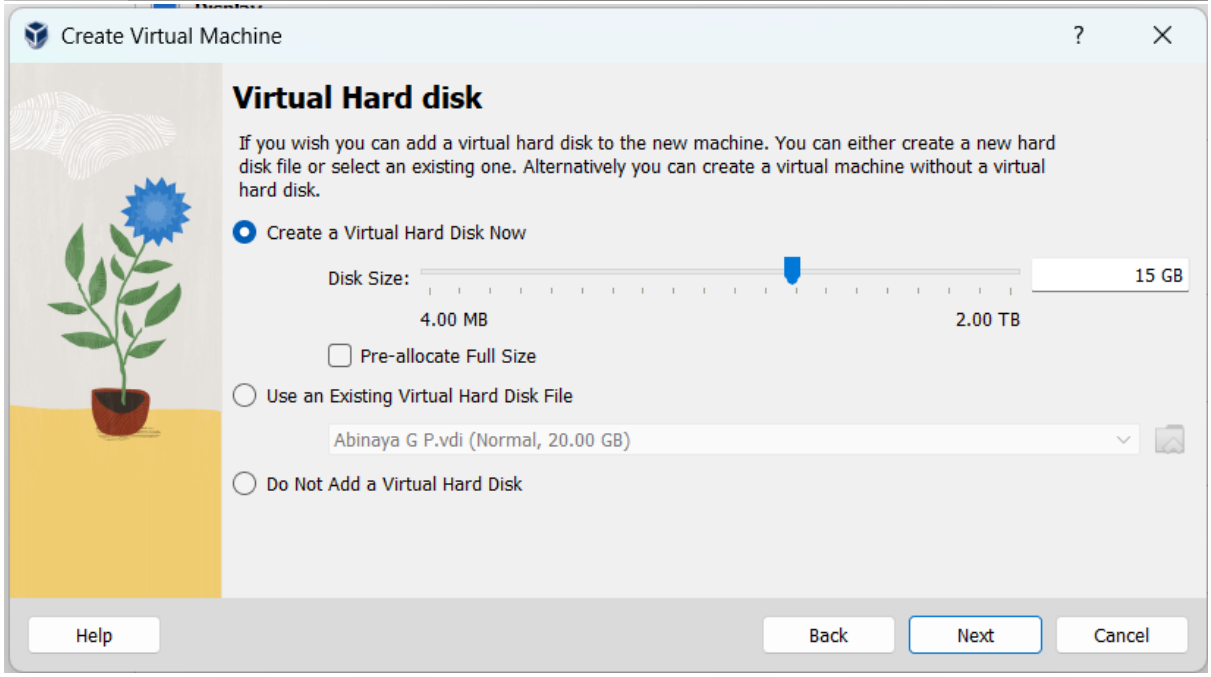

Create Virtual Machine
Summary
The following table summarizes the configuration you have chosen for the new virtual machine. When you are happy with the configuration press Finish to create the virtual machine. Alternatively you can go back and modify the configuration.
Machine Name and OS Type
Machine Name Abinaya G P
Machine Folder C:/Users/akami/VirtualBox VMs/Abinaya G P
ISO Image C:/Users/akami/OneDrive/Desktop/ubuntu-18.04.3-desktop-amd64.iso
Guest OS Type Ubuntu (64-bit)
Skip Unattended Install false
Unattended Install
Username abinaya
Product Key false
Hostname/Domain Name AbinayaGP.myguest.virtualbox.org
Install in Background false
Install Guest Additions false
Hardware
Help
Back
Finish
Cancel



Question 2:

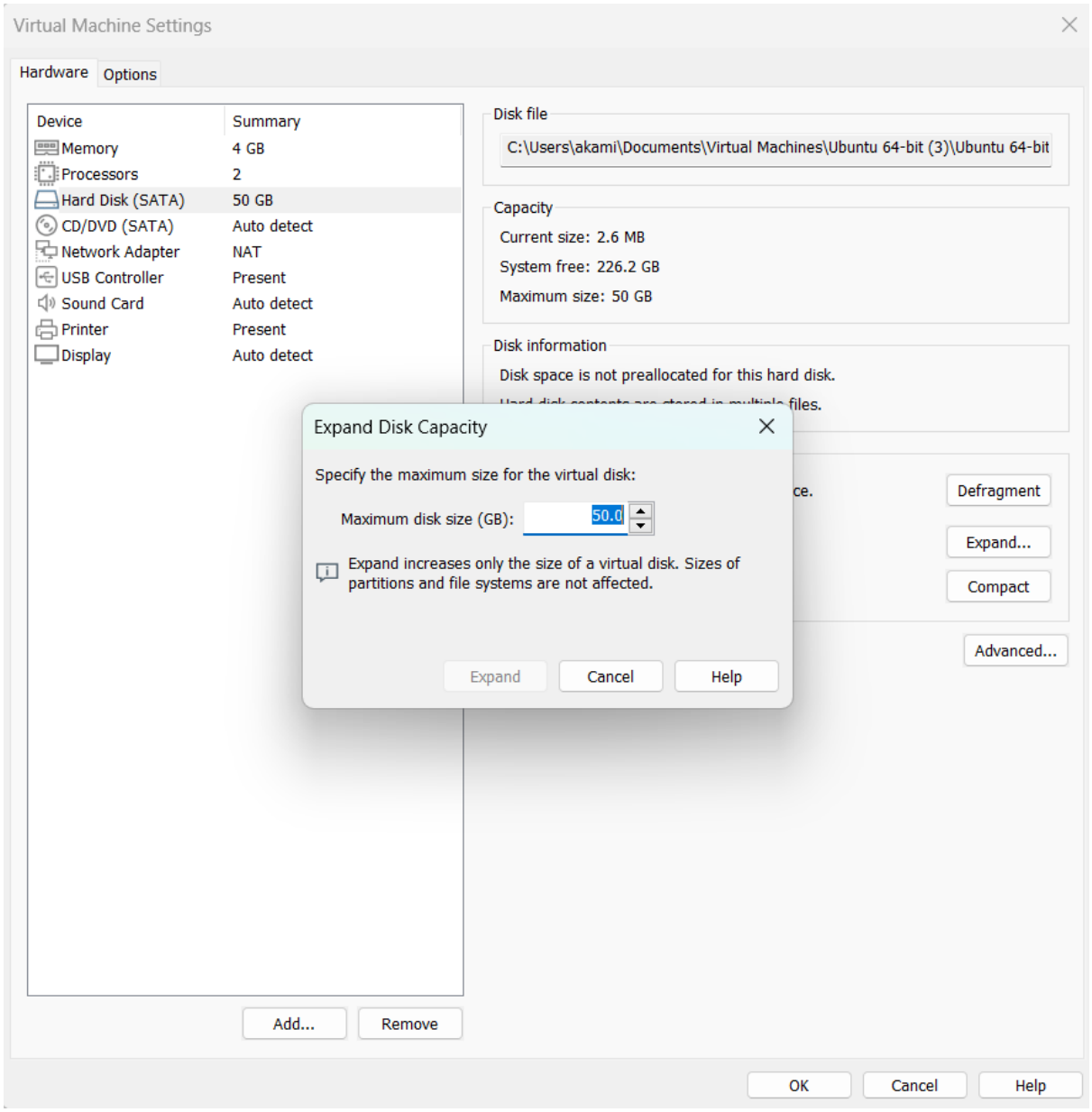
Create a Virtual Machine with 1 CPU, 2GB RAM and 15GB storage disk using a Type 2 Virtualization Software.





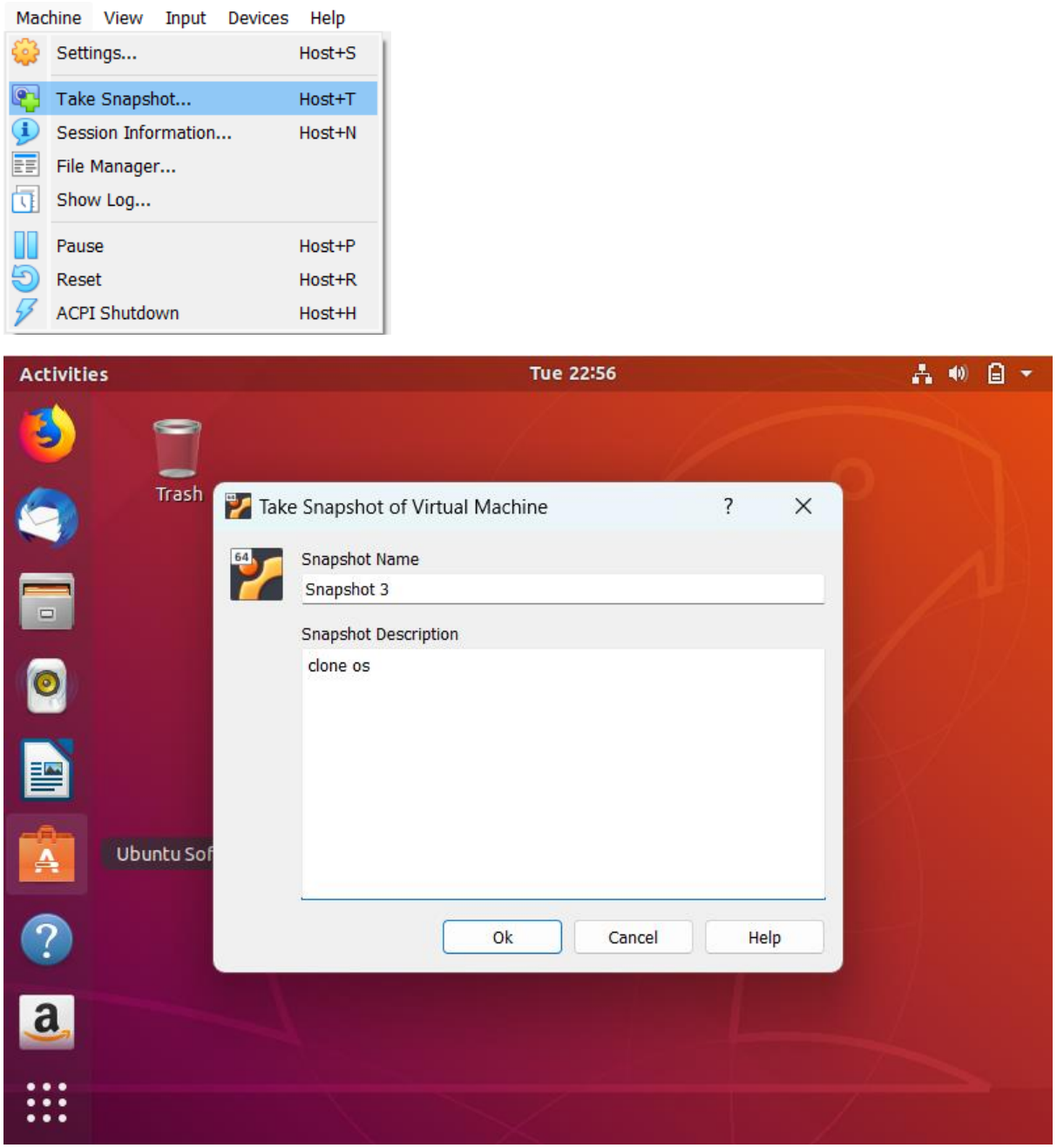
Question 3:

Create a Virtual Hard Disk and allocate the storage using VM ware Workstation



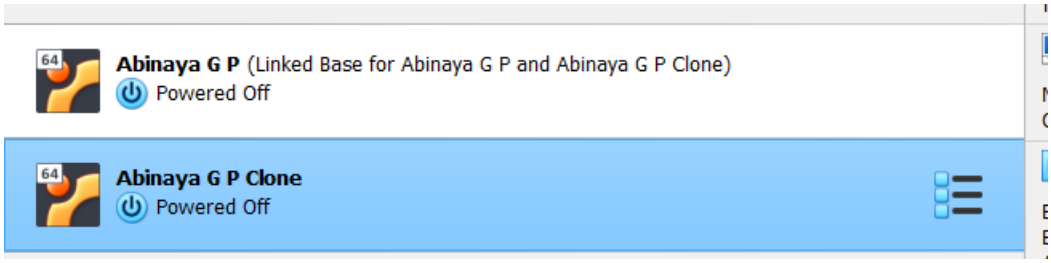
Question 4:

Create a Snapshot of a VM and Test it by loading the Previous Version/Cloned VM



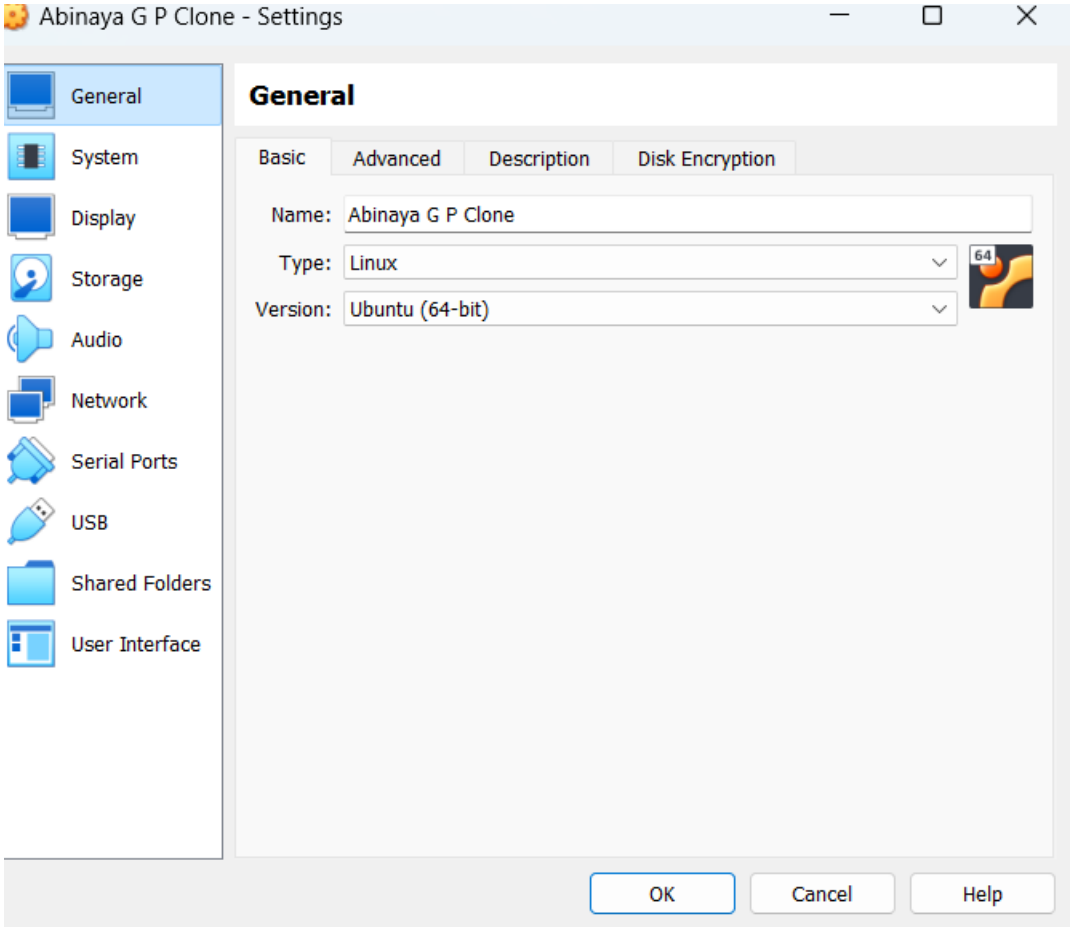
Question 5:

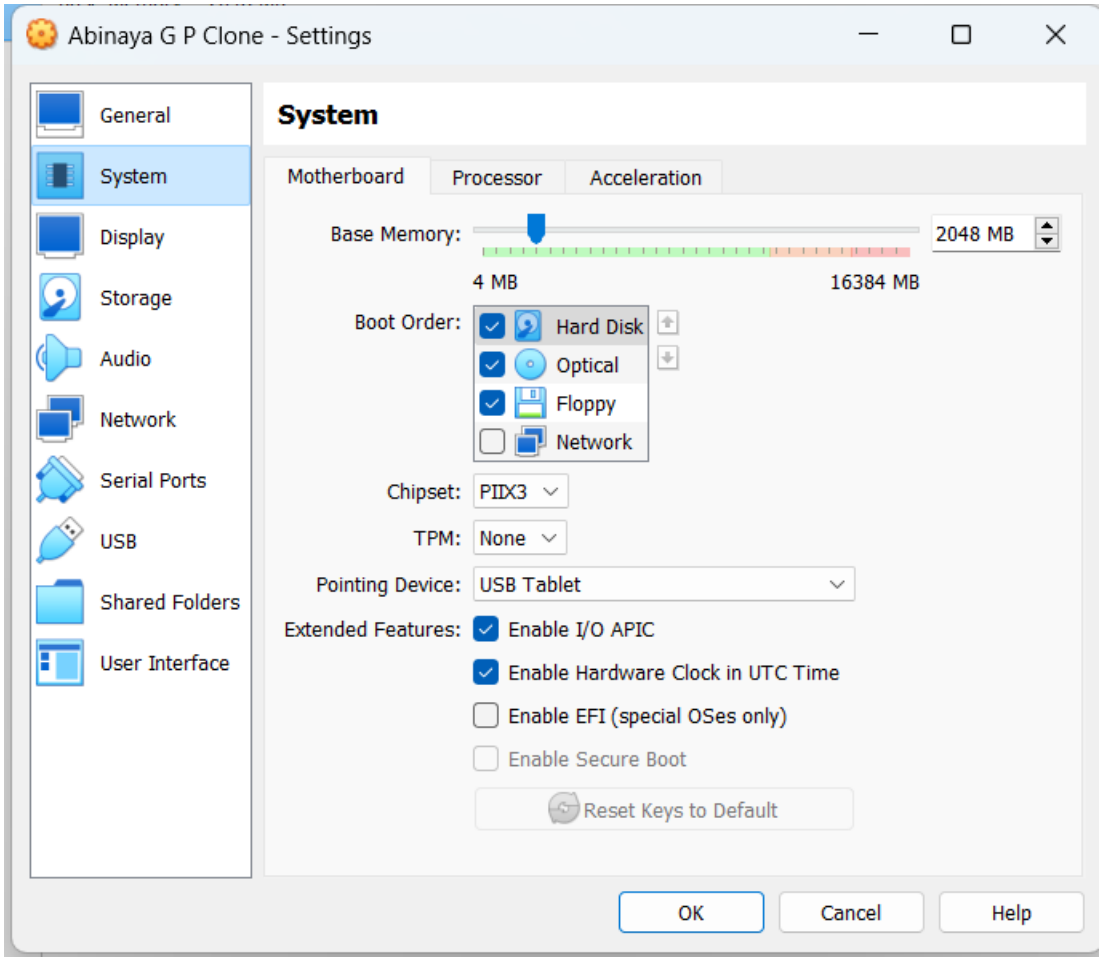
Create a Cloning of a VM and Test it by loading the Previous Version/Cloned VM

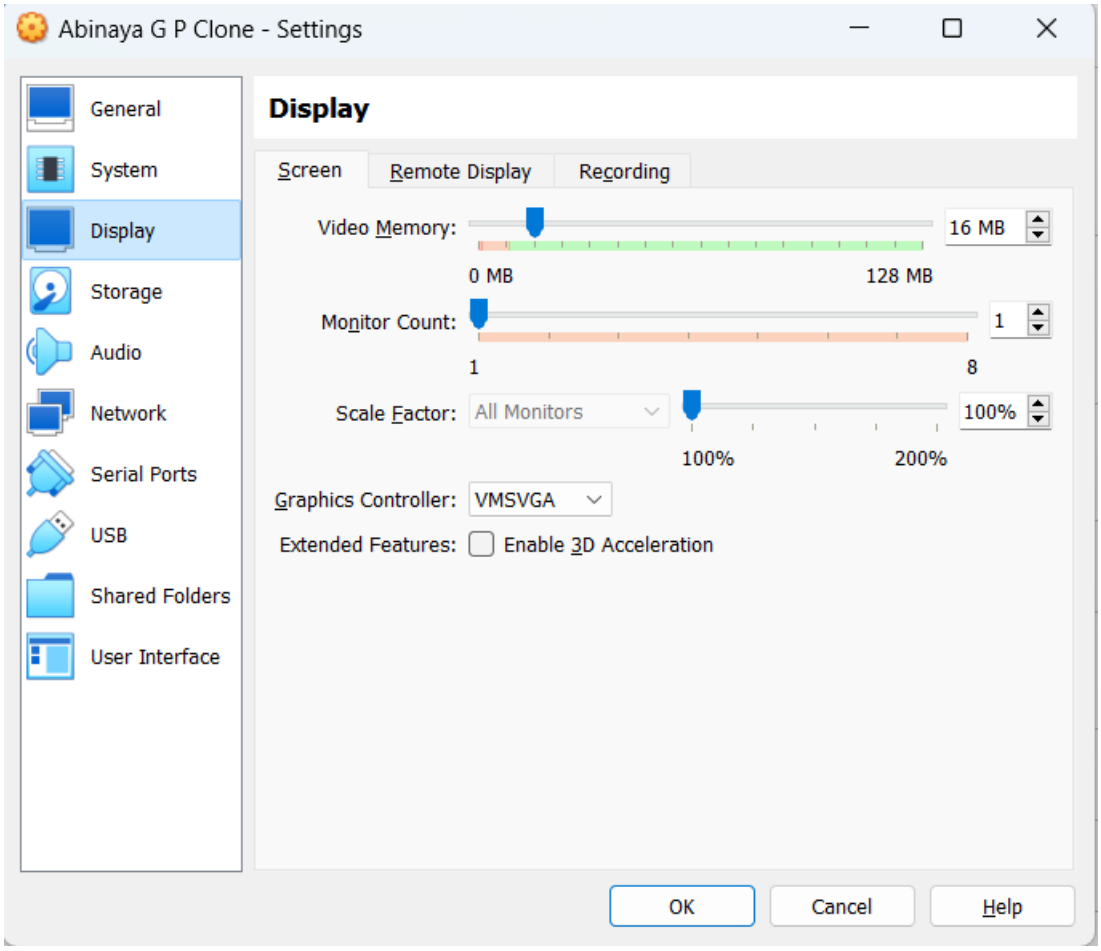


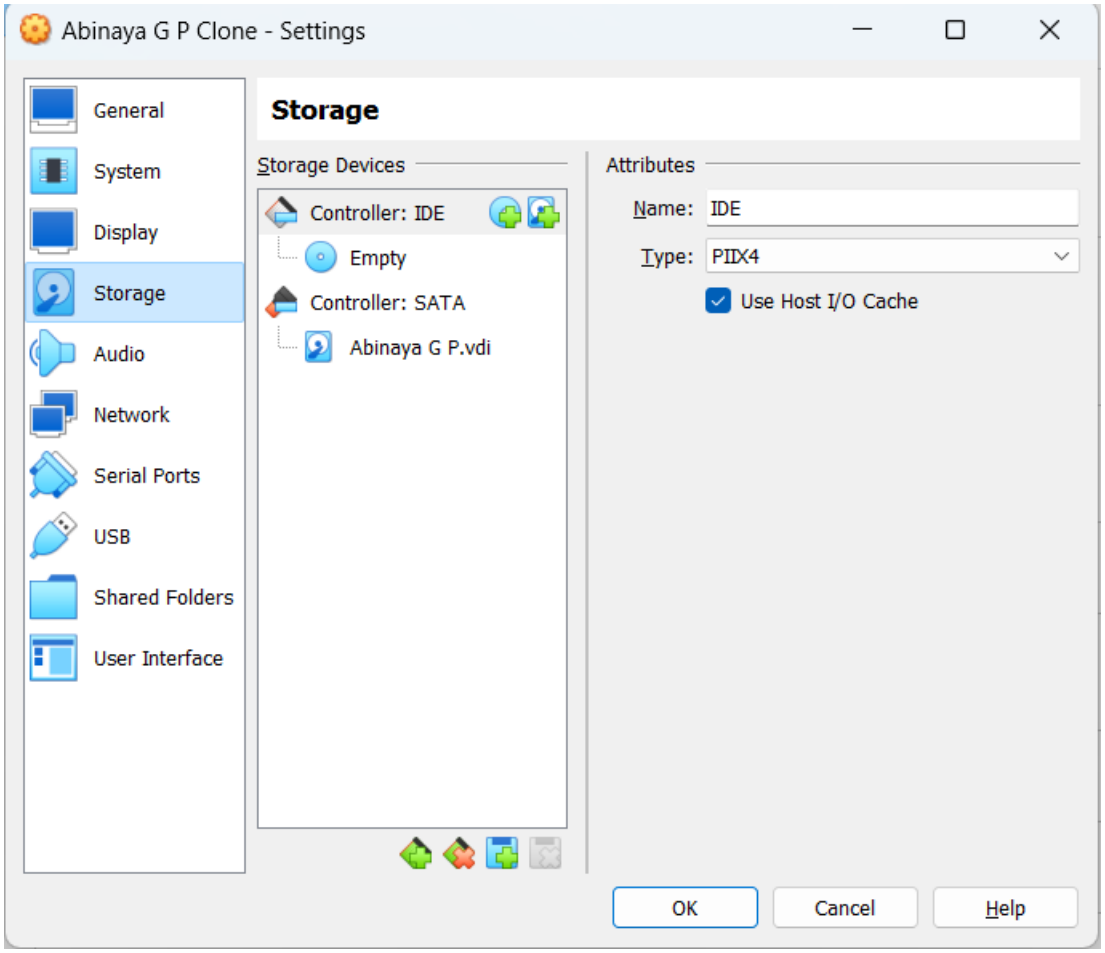
Question 6:

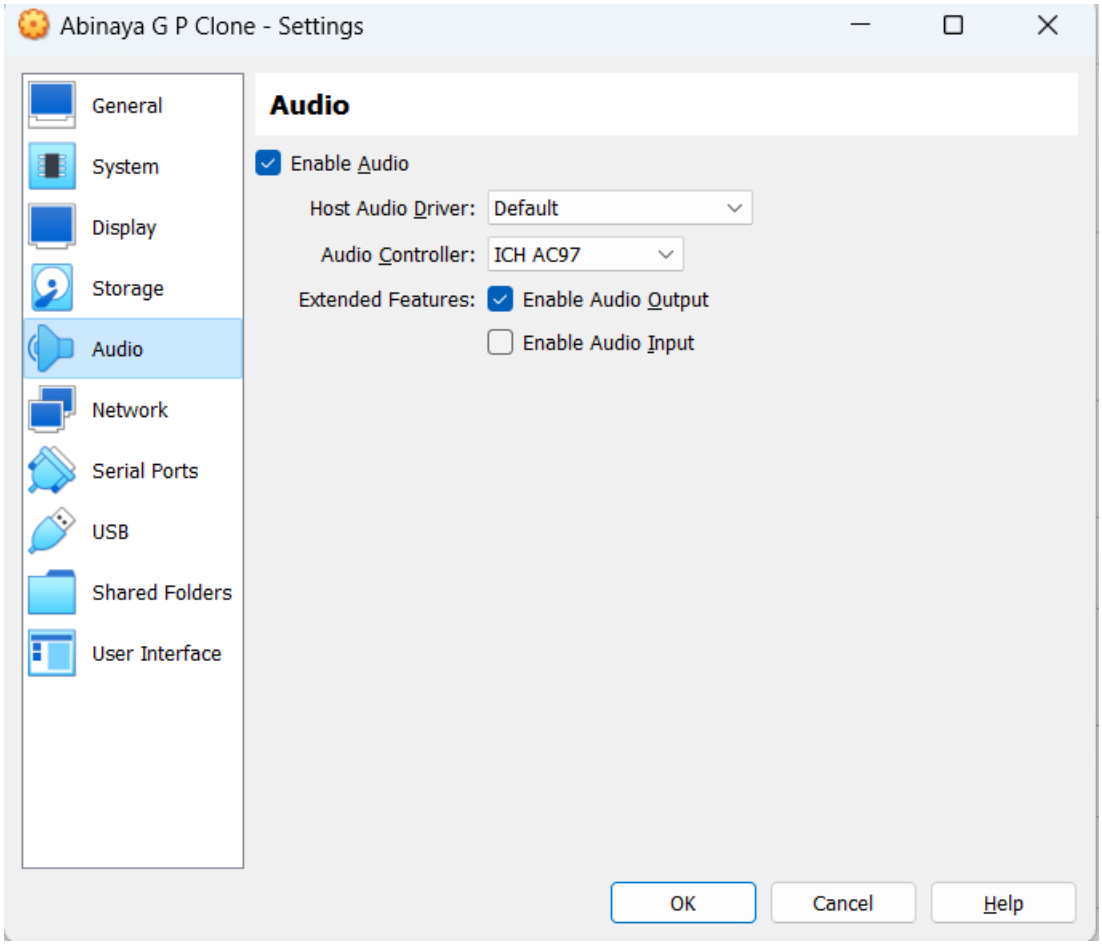
Change Hardware compatibility of a VM (Either by clone/create new one) which is already created and configured.

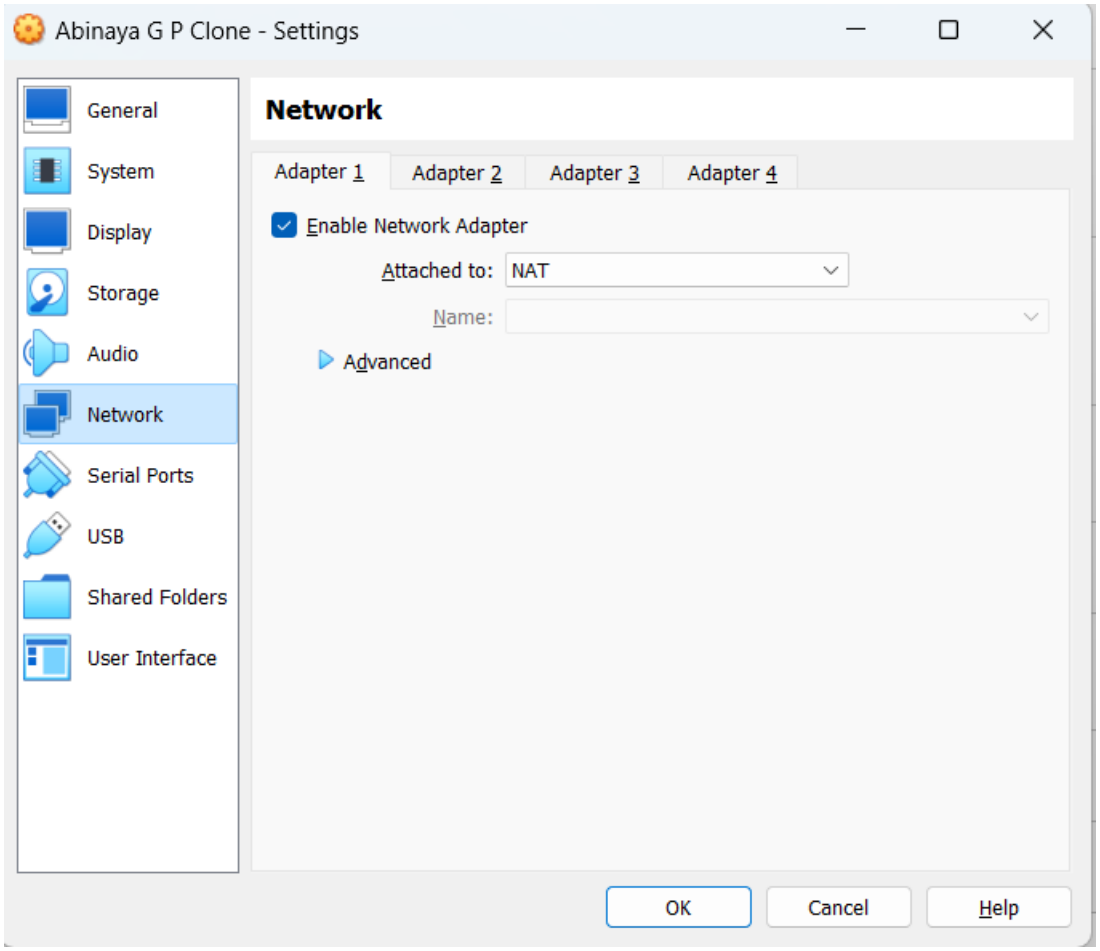

Abinaya G P Clone - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
General
Basic
Advanced
Description
Disk Encryption
Name: Abinaya G P Clone
Type: Linux
Version: Ubuntu (64-bit)
64
OK
Cancel
Help

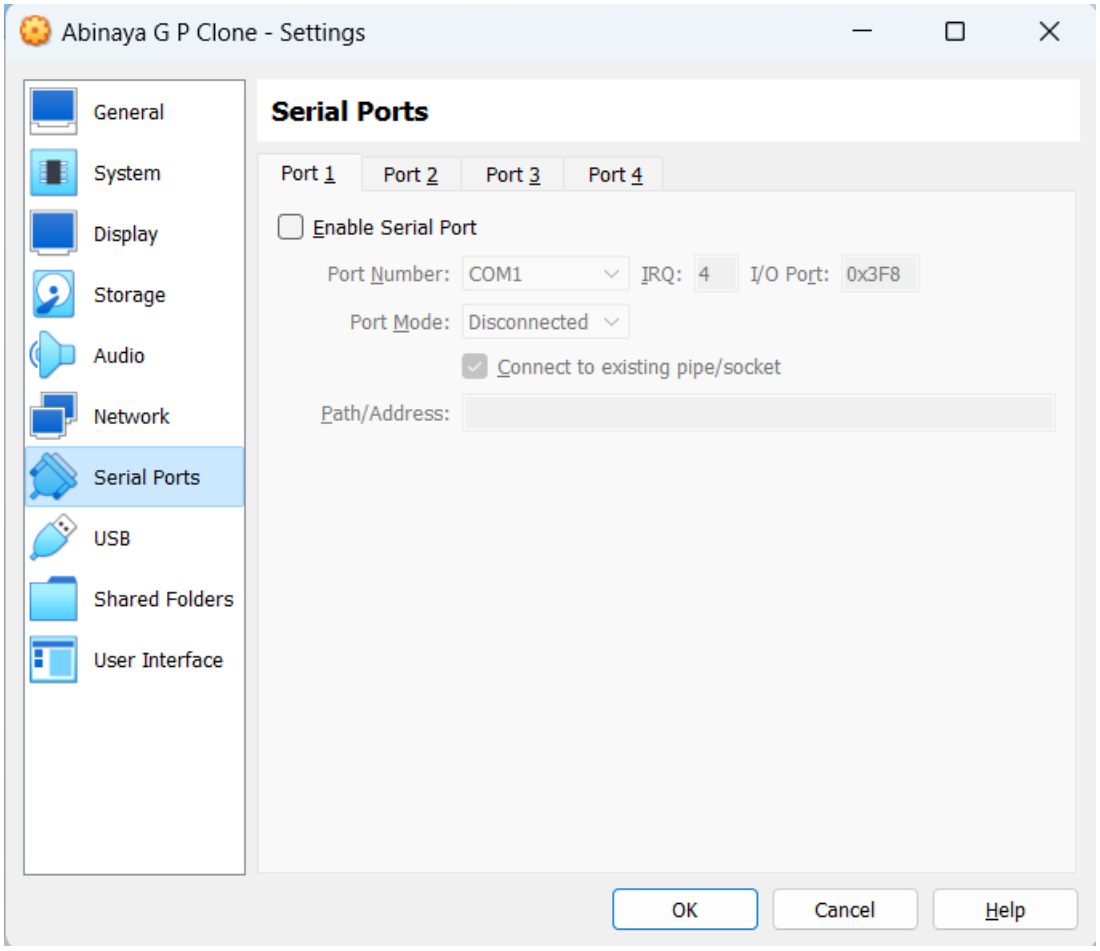

Abinaya G P Clone - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
System
Motherboard
Processor
Acceleration
Base Memory:
2048 MB
4 MB
16384 MB
Boot Order:
Hard Disk
Optical
Floppy
Network
Chipset:
PIIX3
TPM:
None
Pointing Device:
USB Tablet
Extended Features:
Enable I/O APIC
Enable Hardware Clock in UTC Time
Enable EFI (special OSes only)
Enable Secure Boot
Reset Keys to Default
OK
Cancel
Help

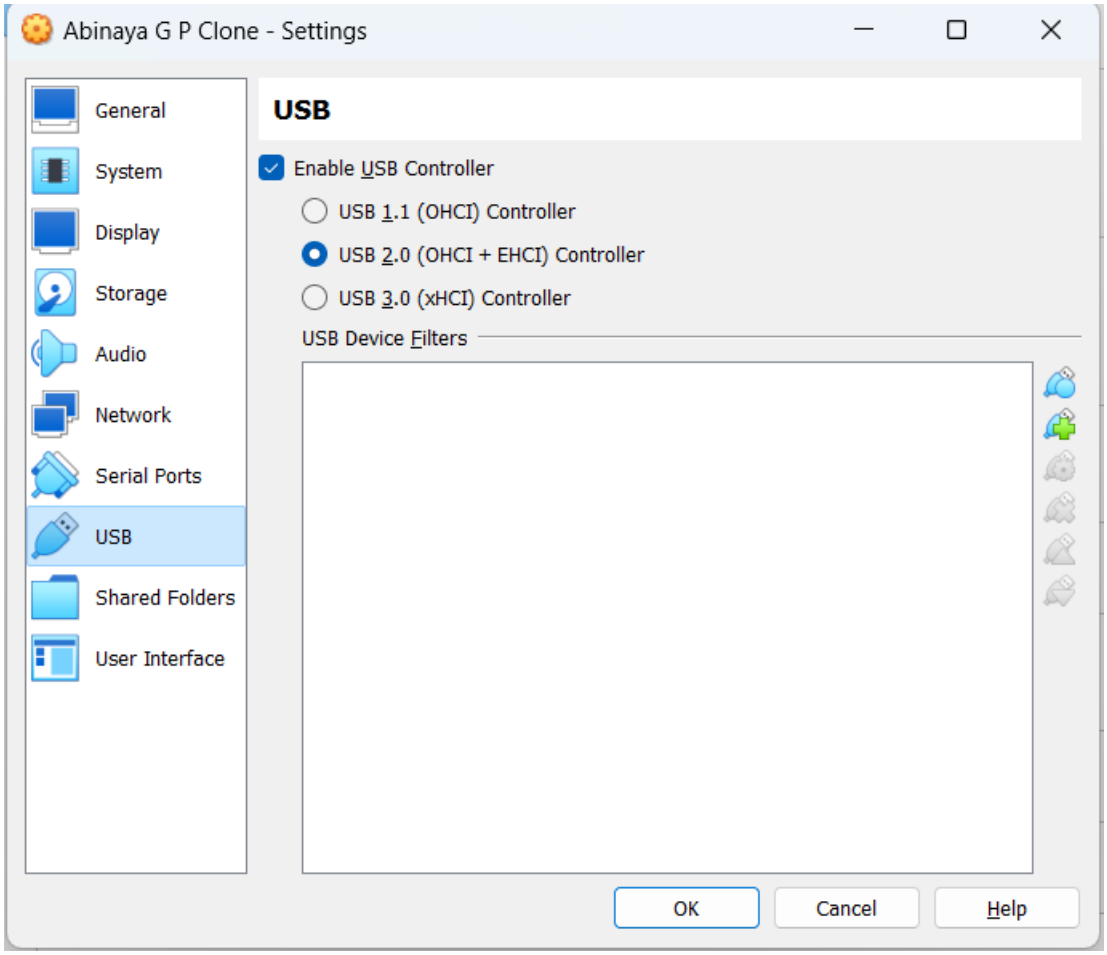

Abinaya G P Clone - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
Display
Screen
Remote Display
Recording
Video Memory:
16 MB
0 MB
128 MB
Monitor Count:
1
1
8
Scale Factor:
All Monitors
100%
100%
200%
Graphics Controller:
VMSVGA
Extended Features:
Enable 3D Acceleration
OK
Cancel
Help

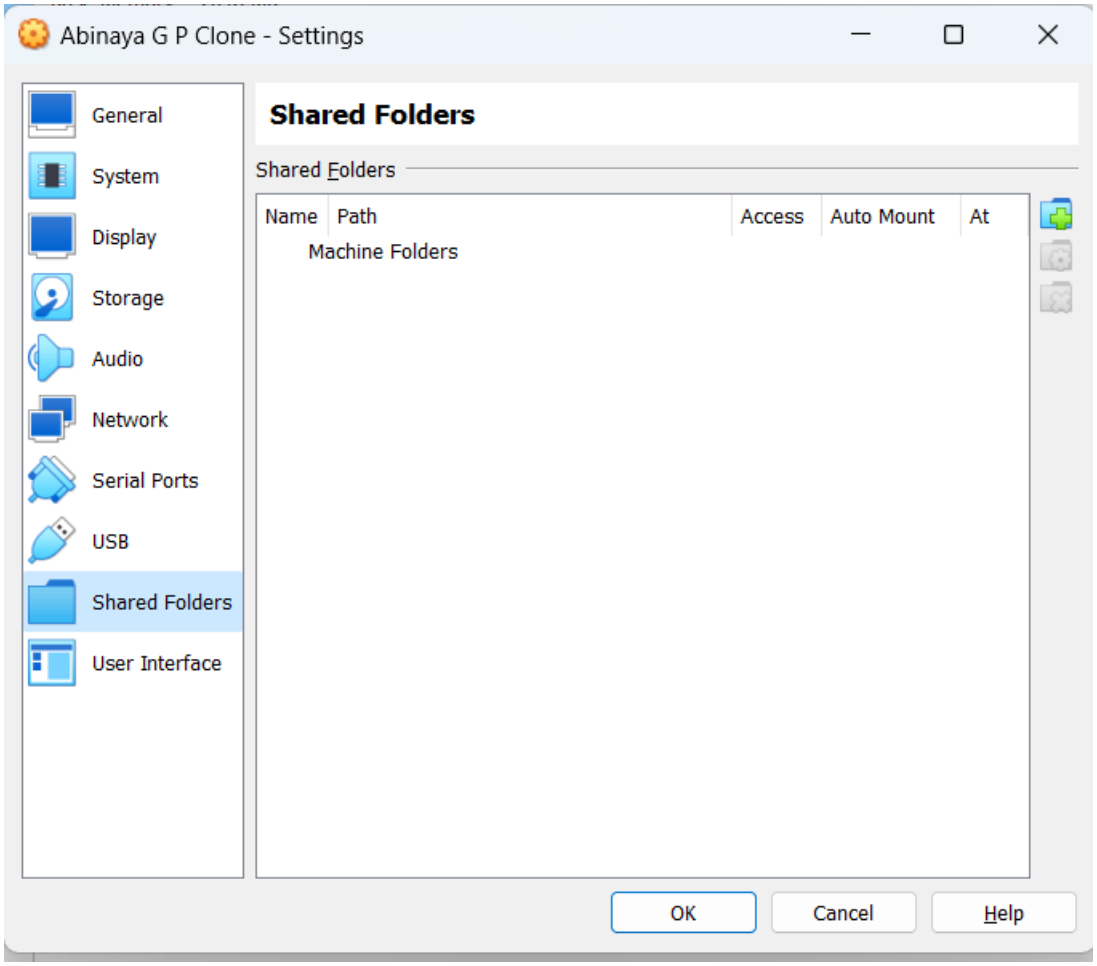

Abinaya G P Clone - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
Storage
Storage Devices
Controller: IDE
Empty
Controller: SATA
Abinaya G P.vdi
Attributes
Name: IDE
Type: PIIX4
Use Host I/O Cache
OK
Cancel
Help

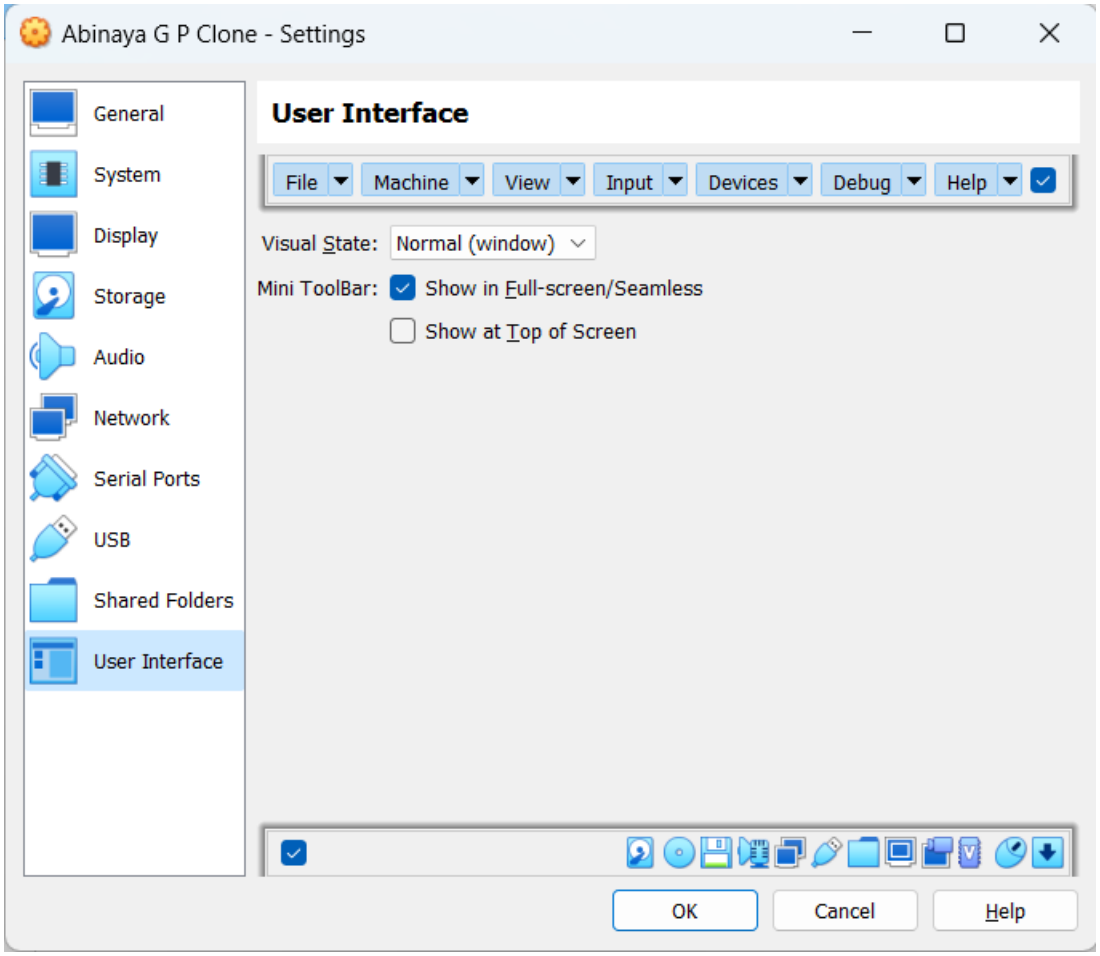

Abinaya G P Clone - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
Audio
Enable Audio
Host Audio Driver:
Default
Audio Controller:
ICH AC97
Extended Features:
Enable Audio Output
Enable Audio Input
OK
Cancel
Help


Abinaya G P Clone - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
Network
Adapter 1
Adapter 2
Adapter 3
Adapter 4
Enable Network Adapter
Attached to:
NAT
Name:
Advanced
OK
Cancel
Help


Abinaya G P Clone - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
Serial Ports
Port 1
Port 2
Port 3
Port 4
Enable Serial Port
Port Number:
COM1
IRQ:
4
I/O Port:
0x3F8
Port Mode:
Disconnected
Connect to existing pipe/socket
Path/Address:
OK
Cancel
Help

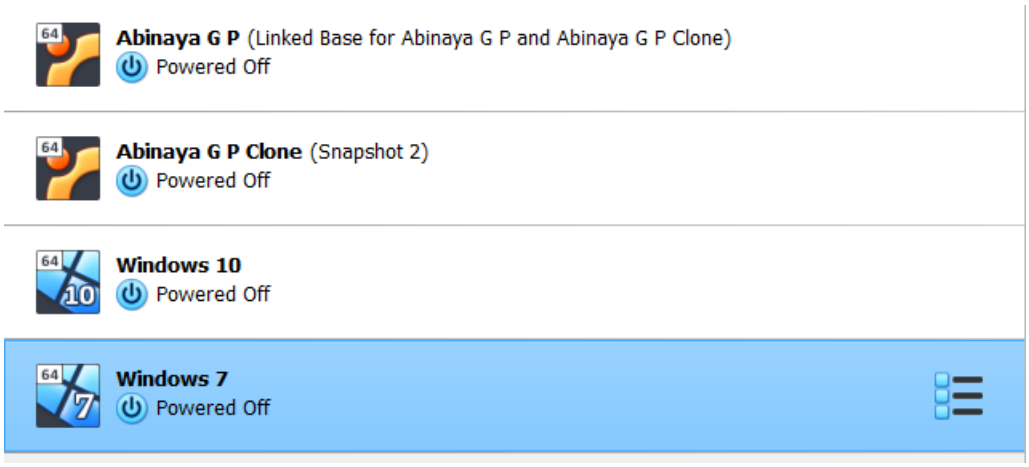

Abinaya G P Clone - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
USB
Enable USB Controller
USB 1.1 (OHCI) Controller
USB 2.0 (OHCI + EHCI) Controller
USB 3.0 (xHCI) Controller
USB Device Filters
OK
Cancel
Help


Abinaya G P Clone - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
Shared Folders
Shared Folders
Name
Path
Access
Auto Mount
At
Machine Folders
OK
Cancel
Help



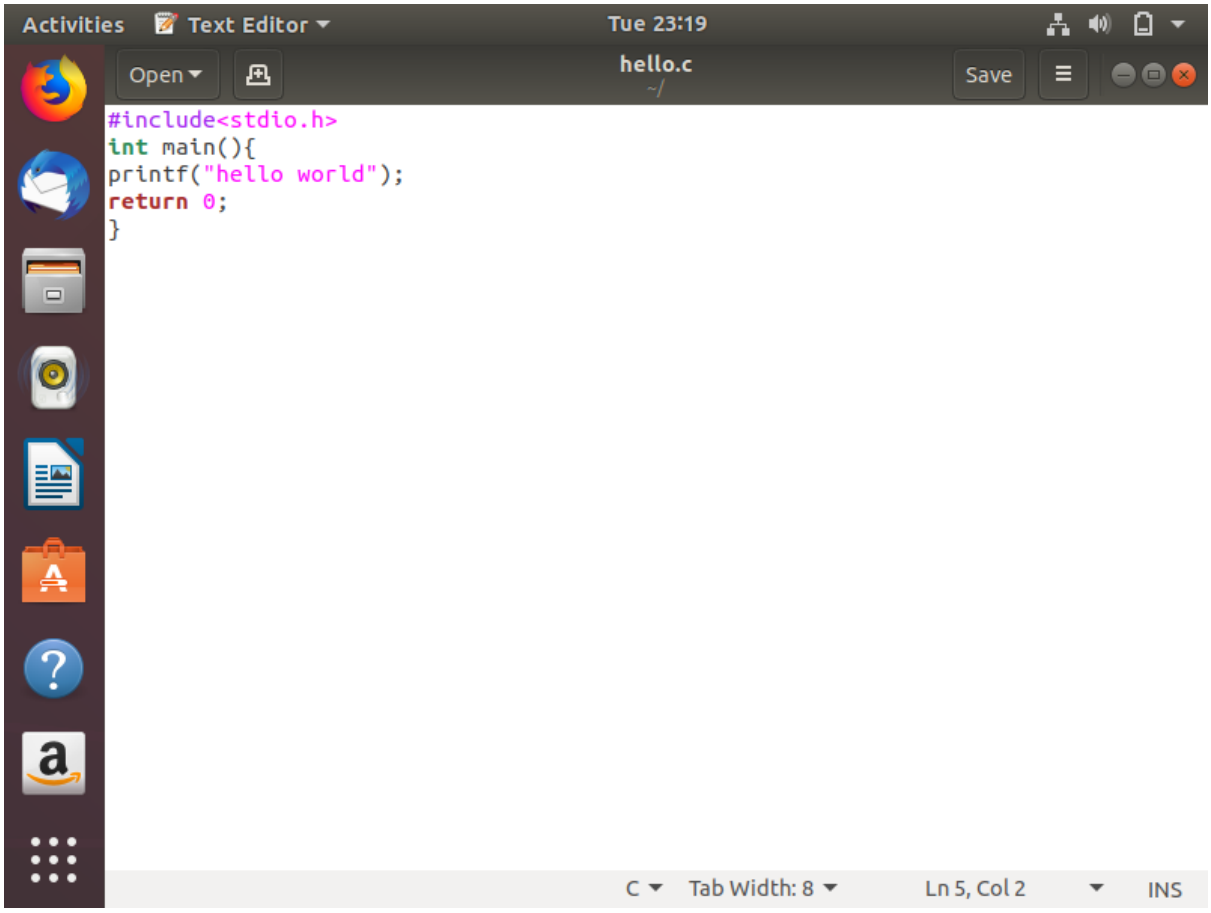
Question 7:

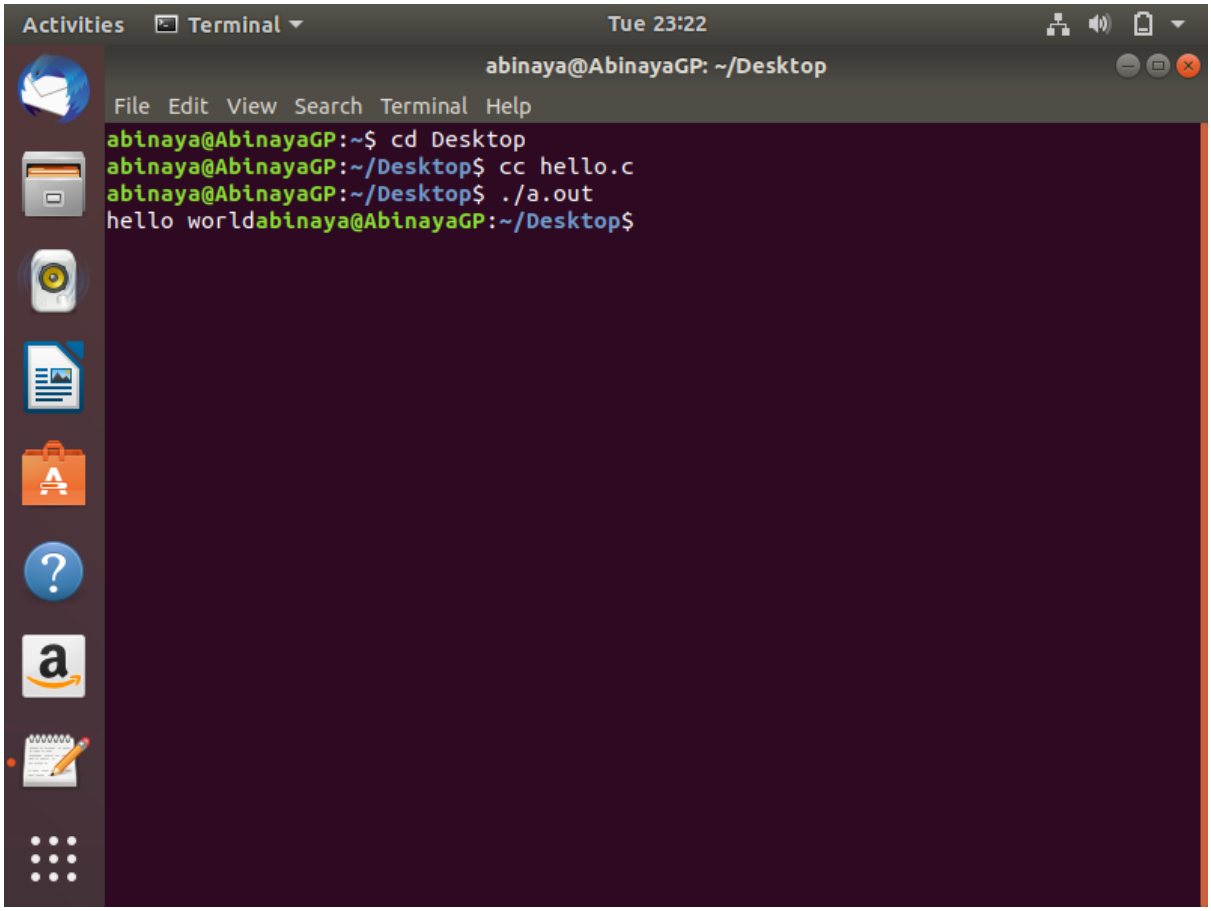
Install Virtualbox/VMware Workstation with different flavours of linux or windows OS on top of your present windows environment.



Question 8:

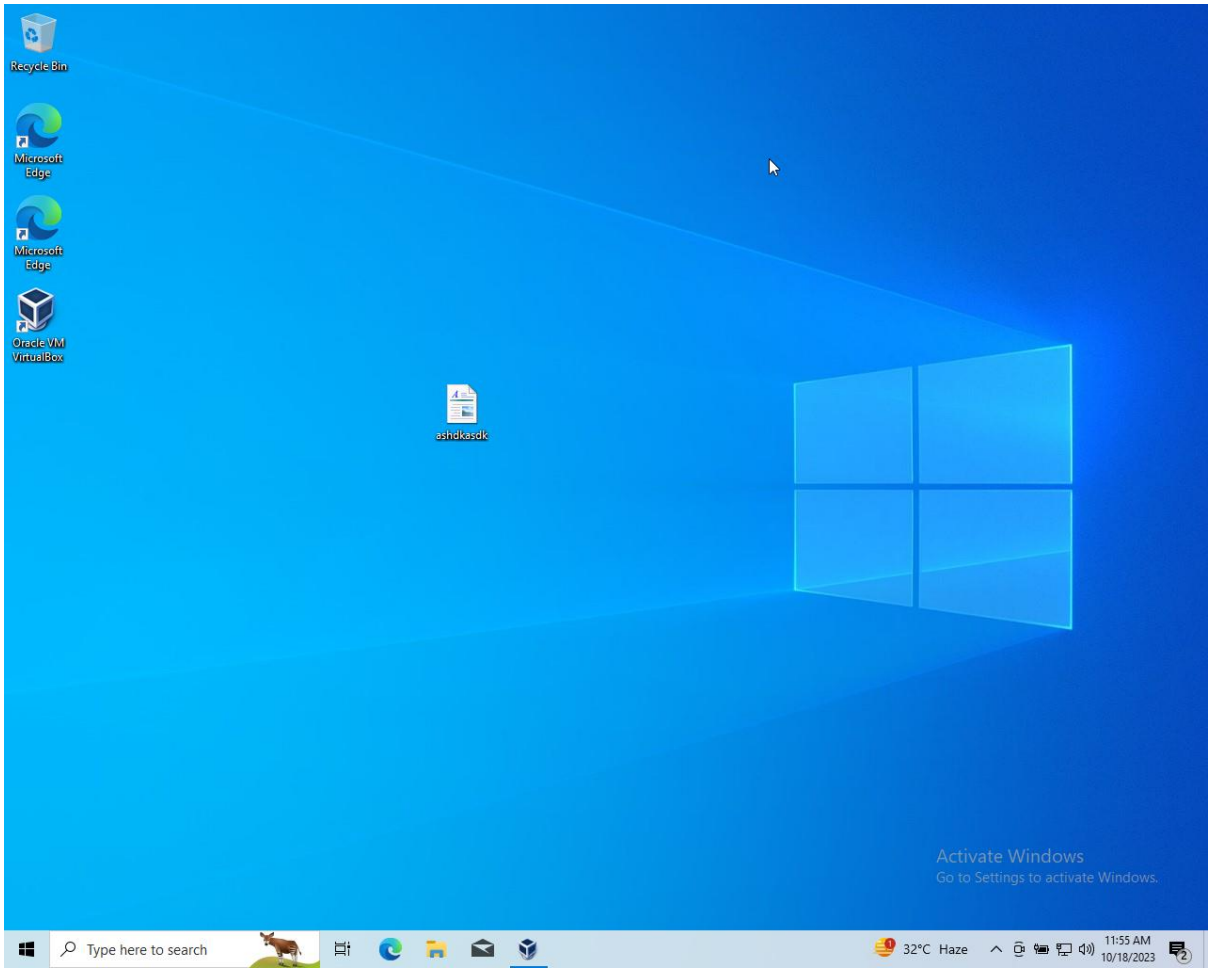
Install a C compiler in the virtual machine created using virtual box / VM Ware Workstation / Player and execute Simple C Programs.





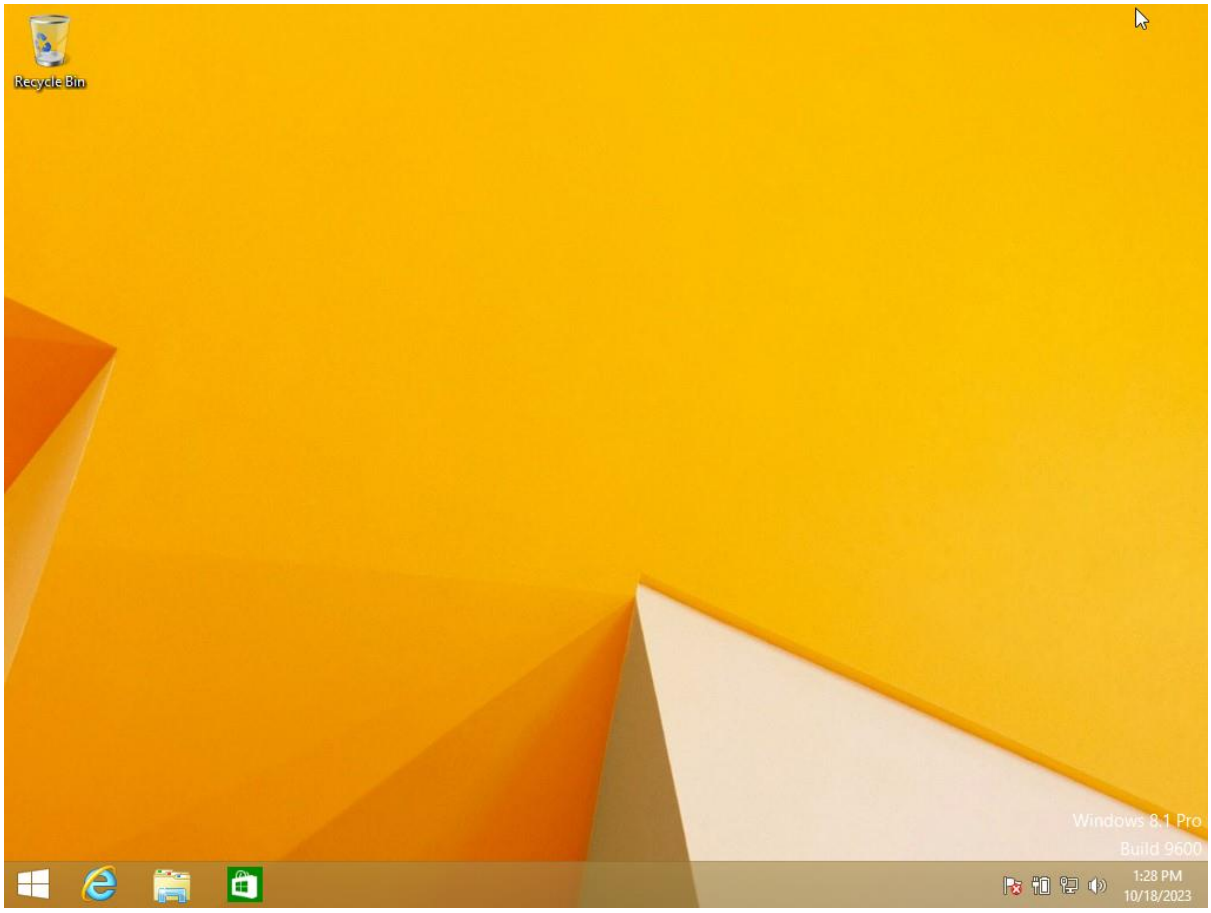
Question 9:

Install Virtualbox with different flavours of linux or windows OS on top of windows 10 using custom installation.



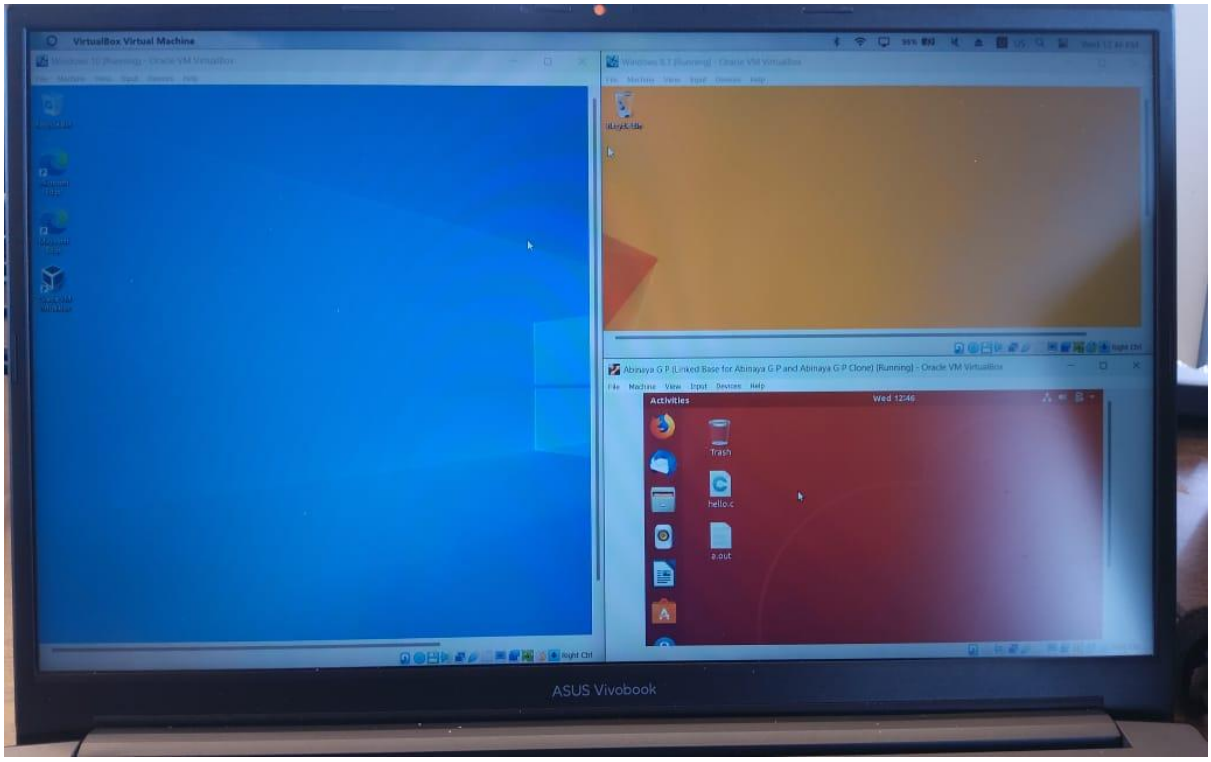
Question 10:

Install Virtualbox/VMware Workstation with different flavours of linux or windows OS on top of windows 7 or 8.



Question 11:

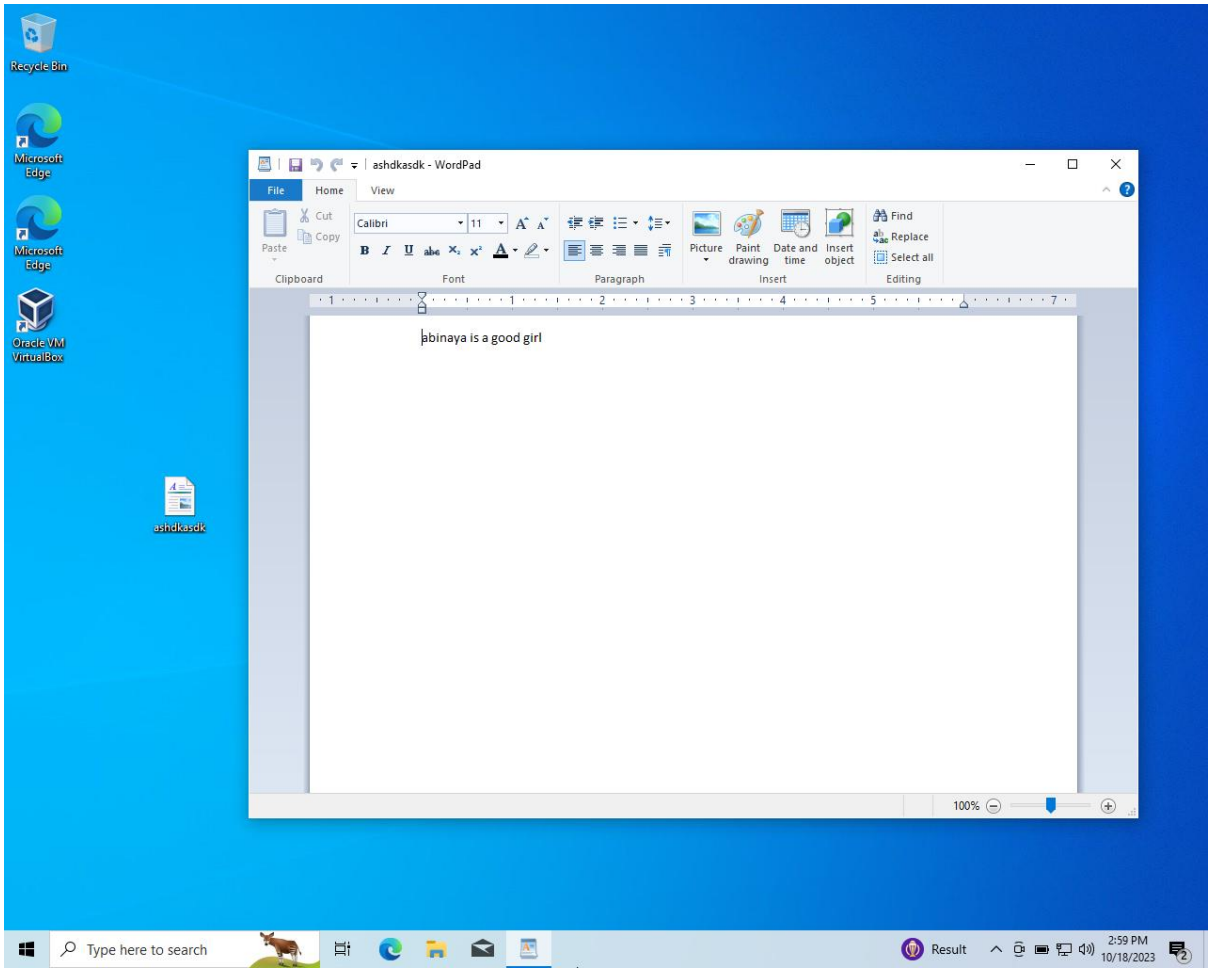
To write a procedure to run the virtual machine of different configuration and to check how many virtual machines can be utilized at a particular time.



Question 12;

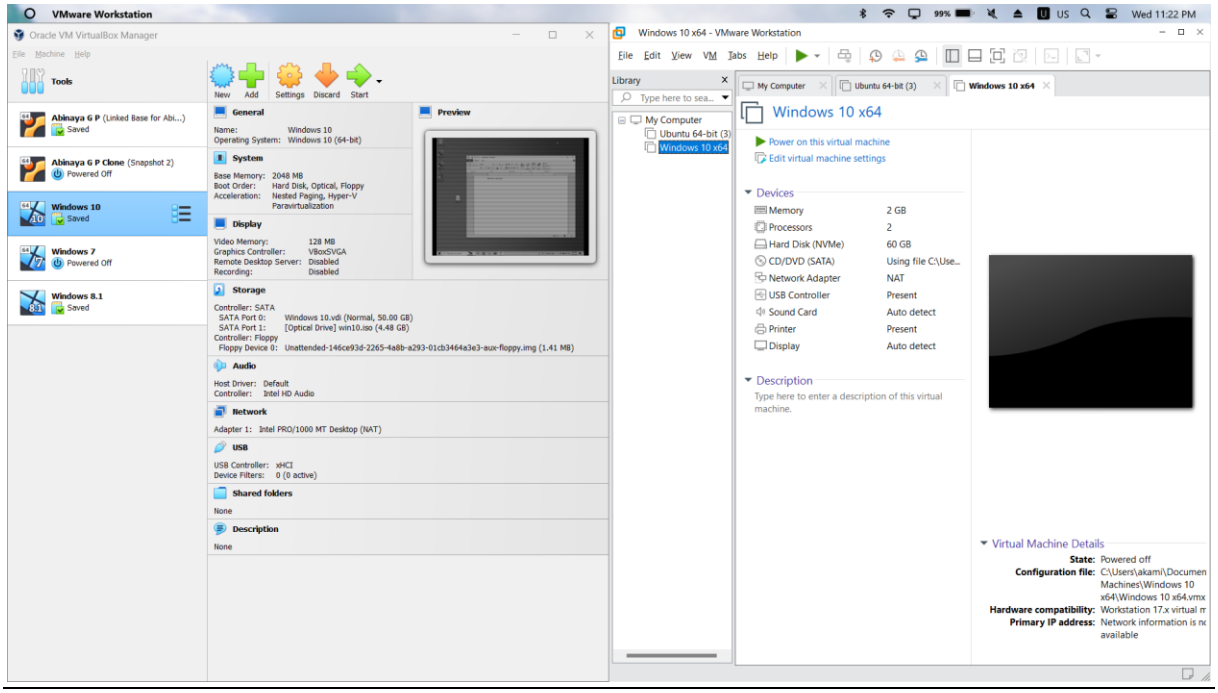
Write a Procedure To Attach Virtual Block To The Virtual Machine And Check Whether It Holds the Data Even After The Release Of The Virtual Machine

A: After rebooting the virtual machine (im using Windows 10 VM):



Question 13:

To showcase the virtual machine migration based on the certain condition from one host to the other.


VMware Workstation
Wed 11:22 PM
Oracle VM VirtualBox Manager
File Machine Help
Tools
New Add Settings Discard Start
Abinaya G P (Linked Base for Abi...)
Saved
Abinaya G P Clone (Snapshot 2)
Powered Off
Windows 10
Saved
Windows 7
Powered Off
Windows 8.1
Saved
General
Name: Windows 10
Operating System: Windows 10 (64-bit)
System
Base Memory: 2048 MB
Boot Order: Hard Disk, Optical, Floppy
Acceleration: Nested Paging, Hyper-V
Paravirtualization
Display
Video Memory: 128 MB
Graphics Controller: VBoxSVGA
Remote Desktop Server: Disabled
Recording: Disabled
Preview
Storage
Controller: SATA
SATA Port 0: Windows 10.vdi (Normal, 50.00 GB)
SATA Port 1: [Optical Drive] win10.iso (4.48 GB)
Controller: Floppy
Floppy Device 0: Unattended-146ce93d-2265-4a8b-a293-01cb3464a3e3-aux-floppy.img (1.41 MB)
Audio
Host Driver: Default
Controller: Intel HD Audio
Network
Adapter 1: Intel PRO/1000 MT Desktop (NAT)
USB
USB Controller: xHCI
Device Filters: 0 (0 active)
Shared folders
None
Description
None
Windows 10 x64 - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to sea...
My Computer
Ubuntu 64-bit (3)
Windows 10 x64
My Computer
Ubuntu 64-bit (3)
Windows 10 x64
Windows 10 x64
Power on this virtual machine
Edit virtual machine settings
Devices
Memory 2 GB
Processors 2
Hard Disk (NVMe) 60 GB
CD/DVD (SATA) Using file C:\Use...
Network Adapter NAT
USB Controller Present
Sound Card Auto detect
Printer Present
Display Auto detect
Description
Type here to enter a description of this virtual machine.
Virtual Machine Details
State: Powered off
Configuration file: C:\Users\akami\Documen
Machines\Windows 10
x64\Windows 10 x64.vmx
Hardware compatibility: Workstation 17.x virtual m
Primary IP address: Network information is no
available