SETTING UP A VIRTUAL HOME LAB

I created a virtual IT home lab from the ground up using open-source software on my personal computer. In the early 2000s, building an IT lab typically involved purchasing physical servers or repurposing old hardware. While this provided valuable hands-on experience, advancements in technology now offer a more efficient and cost-effective solution: setting up a virtualized IT lab using free tools and resources.

CONTENT

- Introduction to Virtualization
- Core Concepts of Virtualization
- Installing VirtualBox
- Configuring a Virtual Network
- Creating Virtual Machines
- Downloading OS ISOs (Windows 8, Windows Server, Kali Linux)
- Installing Operating Systems on Virtual Machines
- Conclusion

Types of Virtualizations

There are several types of virtualizations, each serving a specific purpose.

• Windows Server Virtualization Enables multiple server instances to run on a single physical server, improving resource utilization and reducing hardware costs.

• Desktop Virtualization Allows users to access a desktop environment remotely, often used in virtual desktop infrastructure (VDI) setups.

• Storage Virtualization Combines physical storage from multiple devices into a single, centralized virtual storage pool.

• Network Virtualization Creates virtual networks that function independently of the underlying physical network, enhancing flexibility and security. Benefits of Virtualization

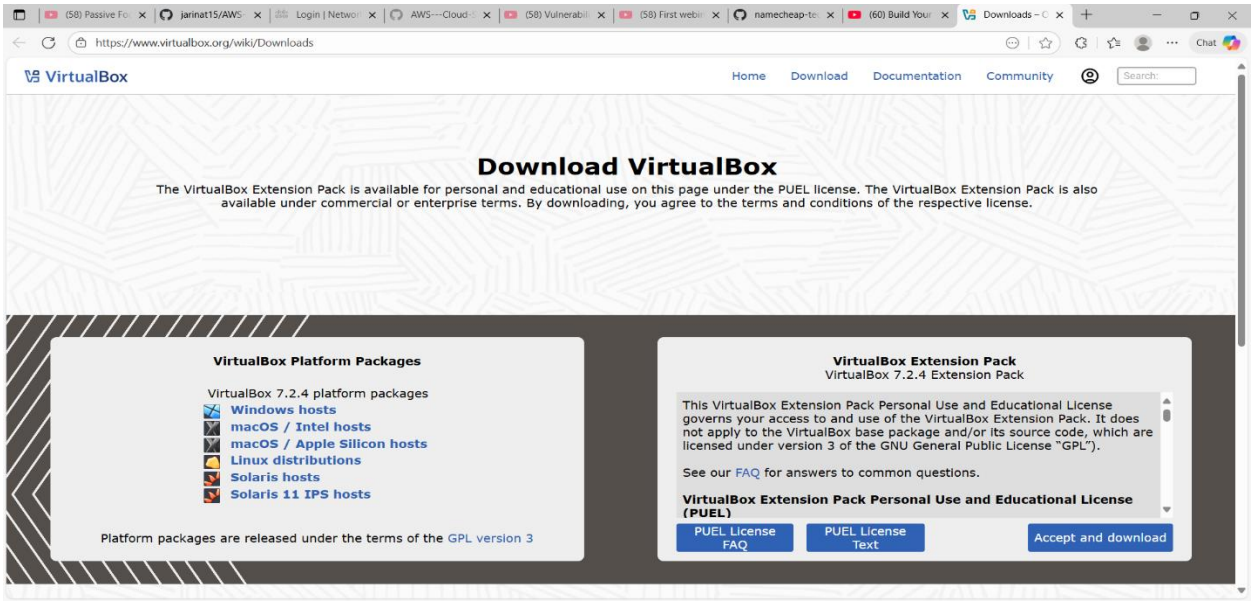
• Cost Savings Reduces the need for physical hardware, lowering capital and operational expenses. • Improved Efficiency Maximizes hardware utilization by running multiple workloads on a single system.

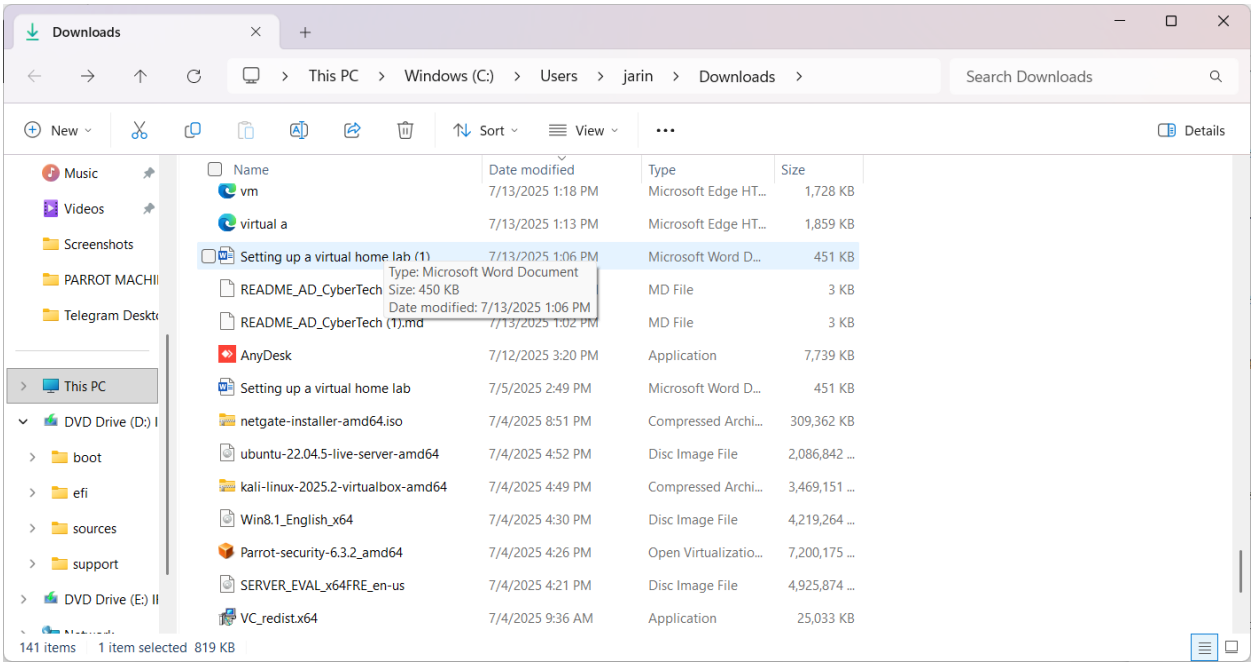
• Scalability Easily add or remove virtual machines based on demand, supporting dynamic workloads.

• Isolation Each virtual machine operates independently, enhancing system stability and security.

Virtualization Software

There are numerous virtualization platforms available, and choosing the right one depends on your operating system and specific needs. There is no single “best” option each has its strengths. For this setup, we will use Oracle VM VirtualBox, a free and open-source virtualization tool that supports both Windows and Linux. However, you are free to use any virtualization software you prefer, as the setup steps are similar across platforms.

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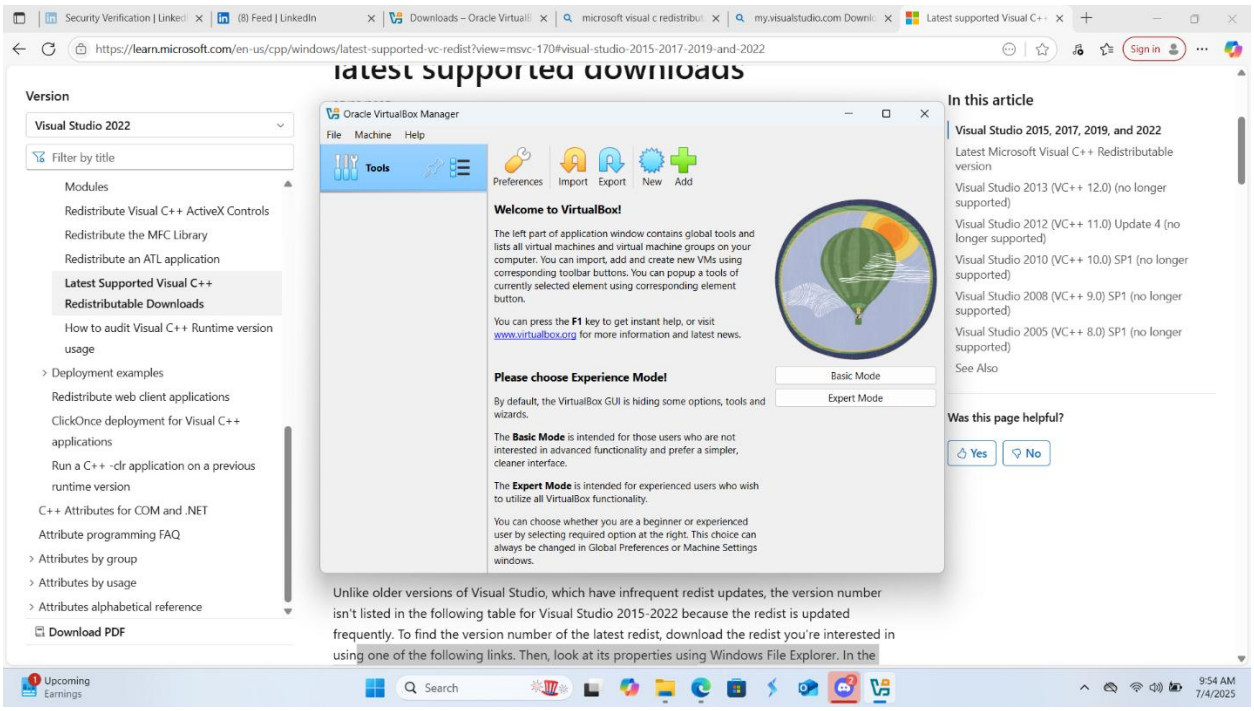

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Oracle VirtualBox Manager
File Machine Help
Tools
Preferences Import Export New Add
Welcome to VirtualBox!
The left part of application window contains global tools and lists all virtual machines and virtual machine groups on your computer. You can import, add and create new VMs using corresponding toolbar buttons. You can popup a tools of currently selected element using corresponding element button.
You can press the F1 key to get instant help, or visit www.virtualbox.org for more information and latest news.
Please choose Experience Mode!
By default, the VirtualBox GUI is hiding some options, tools and wizards.
The Basic Mode is intended for those users who are not interested in advanced functionality and prefer a simpler, cleaner interface.
The Expert Mode is intended for experienced users who wish to utilize all VirtualBox functionality.
You can choose whether you are a beginner or experienced user by selecting required option at the right. This choice can always be changed in Global Preferences or Machine Settings windows.
Basic Mode
Expert Mode
In this article
Visual Studio 2015, 2017, 2019, and 2022
Latest Microsoft Visual C++ Redistributable version
Visual Studio 2013 (VC++ 12.0) (no longer supported)
Visual Studio 2012 (VC++ 11.0) Update 4 (no longer supported)
Visual Studio 2010 (VC++ 10.0) SP1 (no longer supported)
Visual Studio 2008 (VC++ 9.0) SP1 (no longer supported)
Visual Studio 2005 (VC++ 8.0) SP1 (no longer supported)
See Also
Was this page helpful?
Yes
No
Unlike older versions of Visual Studio, which have infrequent redist updates, the version number isn't listed in the following table for Visual Studio 2015-2022 because the redist is updated frequently. To find the version number of the latest redist, download the redist you're interested in using one of the following links. Then, look at its properties using Windows File Explorer. In the
Upcoming Earnings
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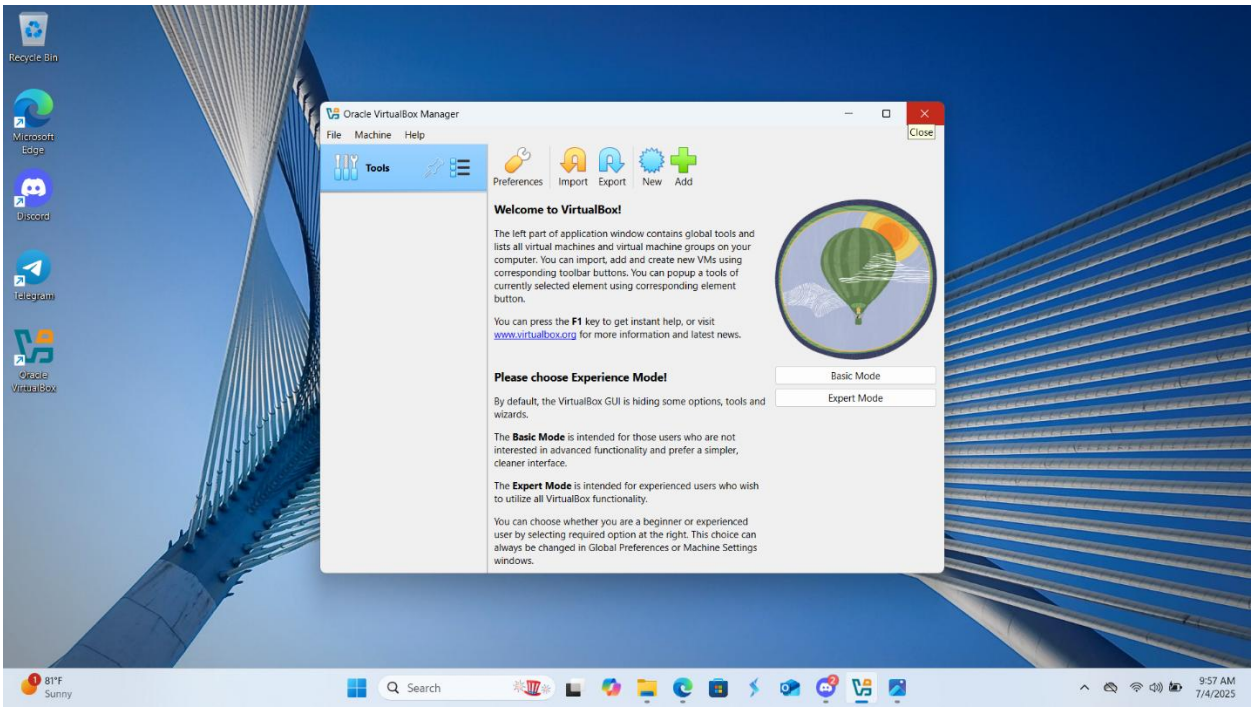
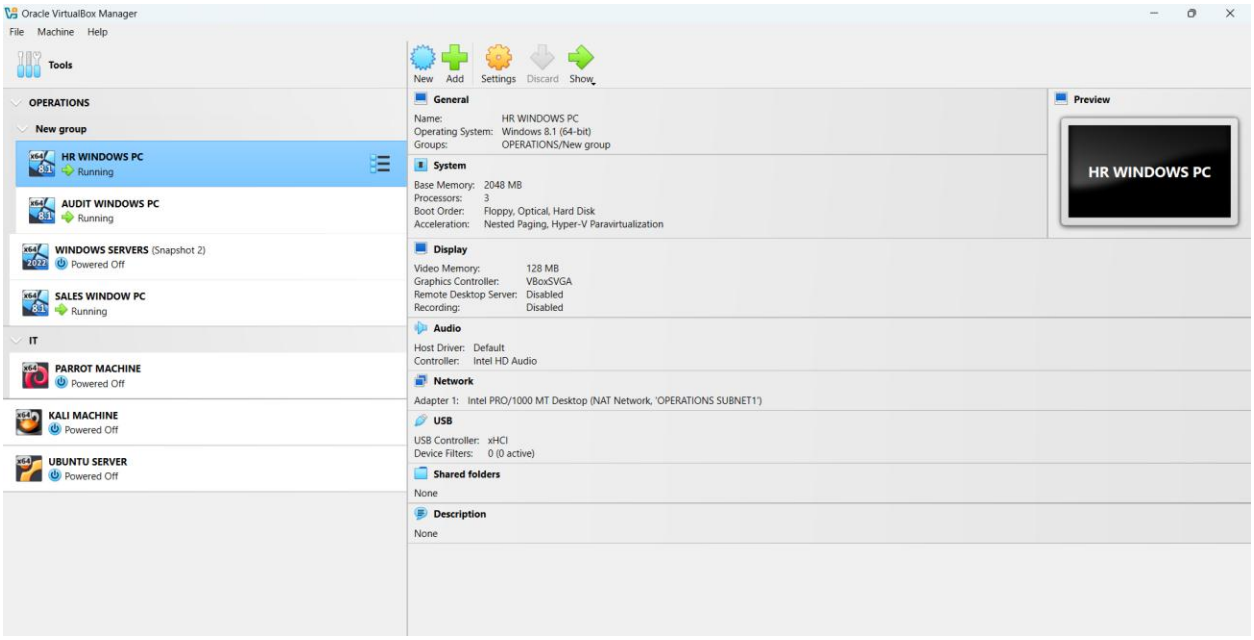


Creating a Virtual Machine

Once your virtual network is configured, you can proceed to create a Virtual Machine (VM) in VirtualBox. Follow these steps:

1. Open VirtualBox Manager.
2. Click the “New” button in the toolbar to begin the VM creation process.
3. Enter the VM name, select the operating system type and version.
4. Allocate memory (RAM) based on the requirements of the OS you plan to install.
5. Create a virtual hard disk or use an existing one, then configure its size and format.

After completing these steps, your virtual machine will be ready for operating system installation.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KALI MACHINE
Powered Off
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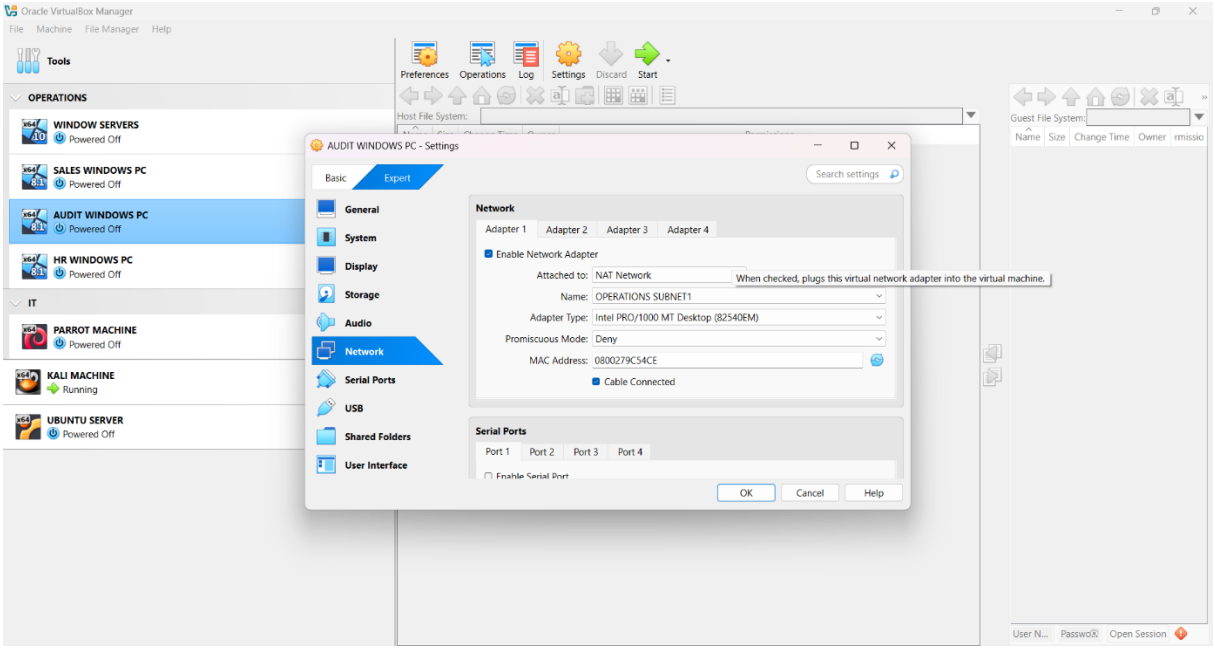
New
Add
Settings
Discard
Show
General
Name: HR WINDOWS PC
Operating System: Windows 8.1 (64-bit)
Groups: OPERATIONS/New group
System
Base Memory: 2048 MB
Processors: 3
Boot Order: Floppy, Optical, Hard Disk
Acceleration: Nested Paging, Hyper-V Paravirtualization
Display
Video Memory: 128 MB
Graphics Controller: VBoxSVGA
Remote Desktop Server: Disabled
Recording: Disabled
Audio
Host Driver: Default
Controller: Intel HD Audio
Network
Adapter 1: Intel PRO/1000 MT Desktop (NAT Network, 'OPERATIONS SUBNET1')
USB
USB Controller: xHCI
Device Filters: 0 (0 active)
Shared folders
None
Description
None
Preview
HR WINDOWS PC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User Interface
Network
Adapter 1
Adapter 2
Adapter 3
Adapter 4
Enable Network Adapter
Attached to: NAT Network
When checked, plugs this virtual network adapter into the virtual machine.
Name: OPERATIONS SUBNET1
Adapter Type: Intel PRO/1000 MT Desktop (82540EM)
Promiscuous Mode: Deny
MAC Address: 0800279C54CE
Cable Connected
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Enable Serial Port
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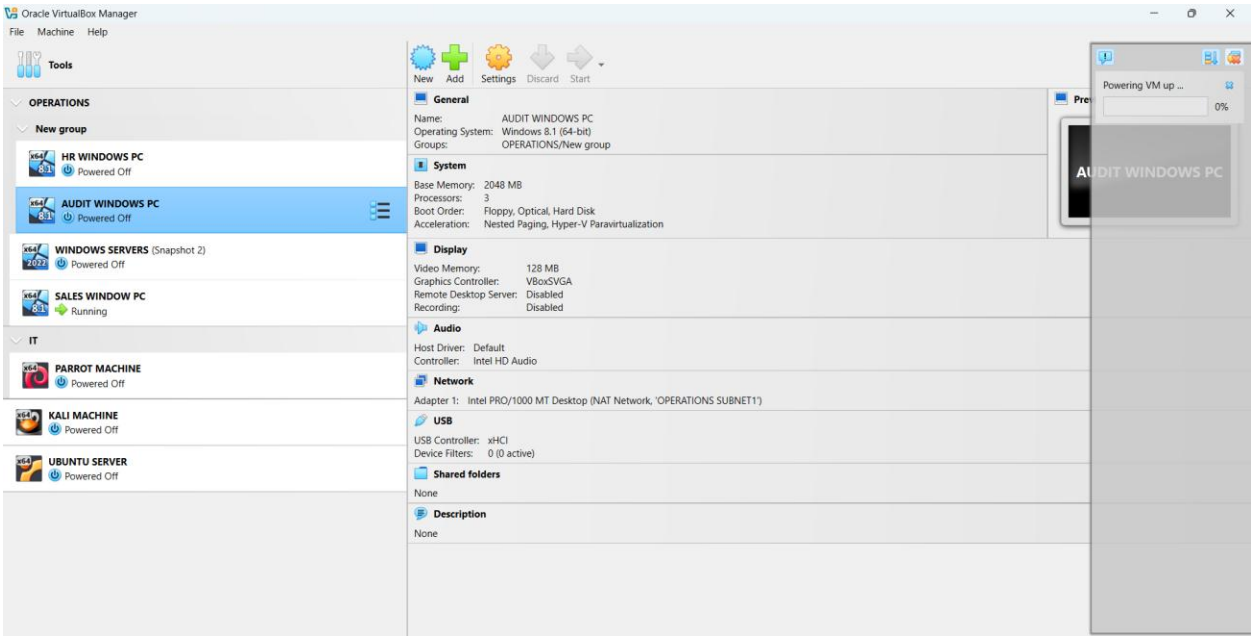
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New Add Settings Discard Start
General
Name: AUDIT WINDOWS PC
Operating System: Windows 8.1 (64-bit)
Groups: OPERATIONS/New group
System
Base Memory: 2048 MB
Processors: 3
Boot Order: Floppy, Optical, Hard Disk
Acceleration: Nested Paging, Hyper-V Paravirtualization
Display
Video Memory: 128 MB
Graphics Controller: VBoxSVGA
Remote Desktop Server: Disabled
Recording: Disabled
Audio
Host Driver: Default
Controller: Intel HD Audio
Network
Adapter 1: Intel PRO/1000 MT Desktop (NAT Network, 'OPERATIONS SUBNET1')
USB
USB Controller: xHCI
Device Filters: 0 (0 active)
Shared folders
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Description
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Powering VM up ...
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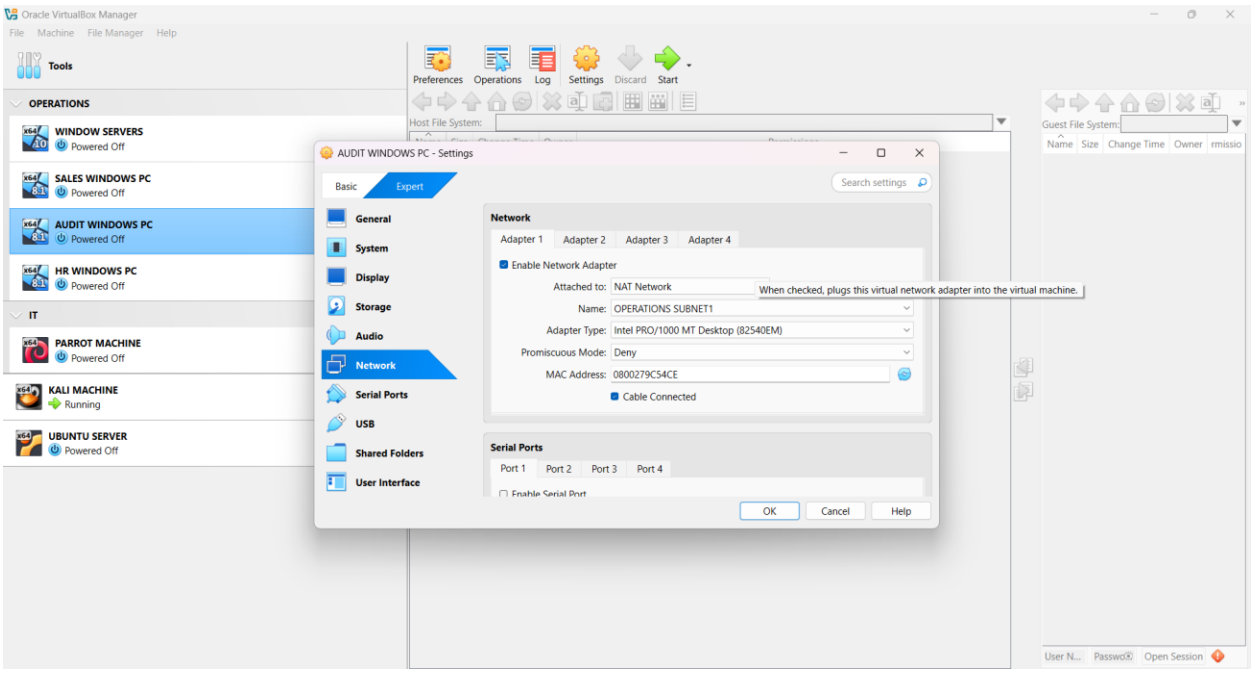
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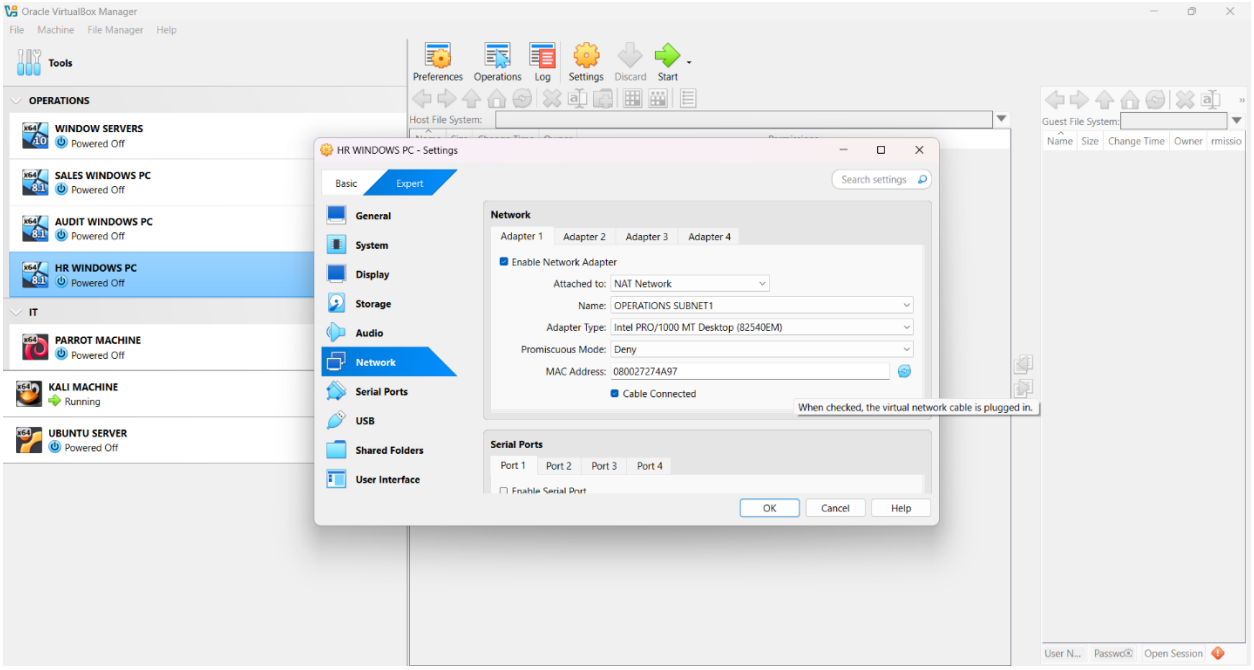
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Enable Network Adapter
Attached to: NAT Network
Name: OPERATIONS SUBNET1
Adapter Type: Intel PRO/1000 MT Desktop (82540EM)
Promiscuous Mode: Deny
MAC Address: 080027274A97
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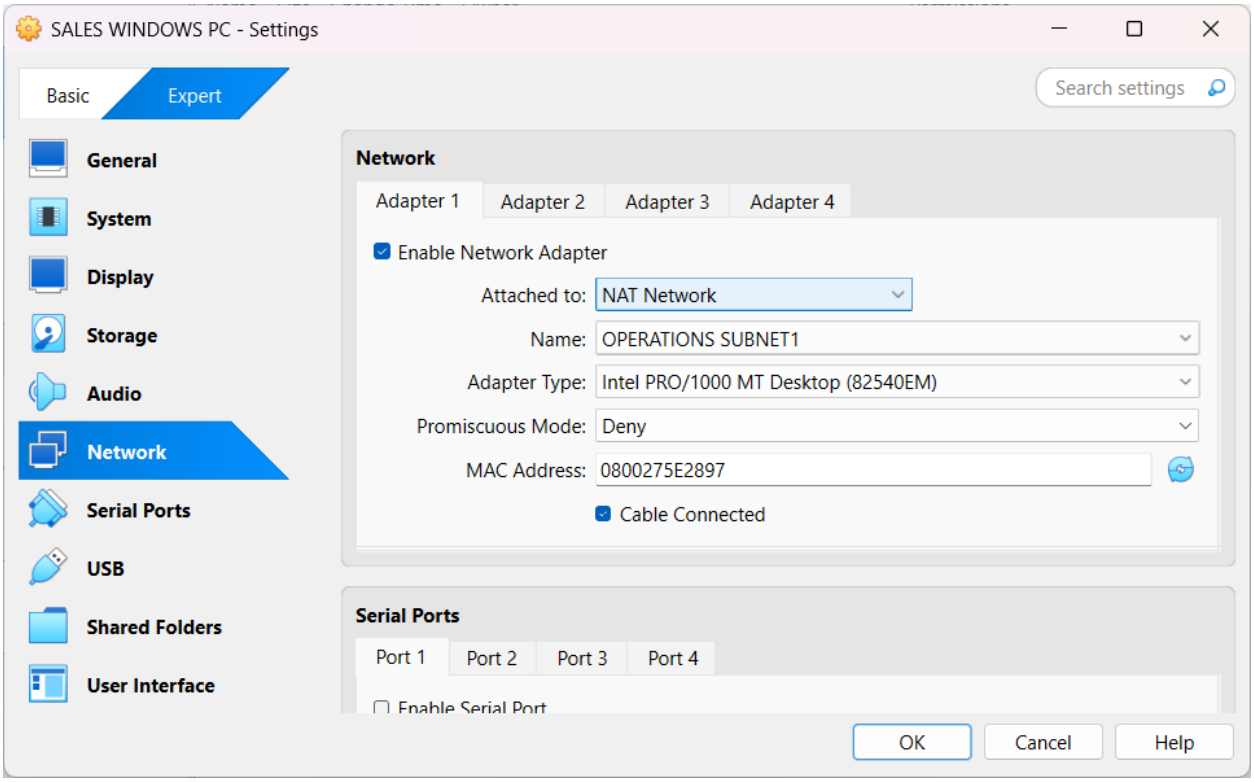
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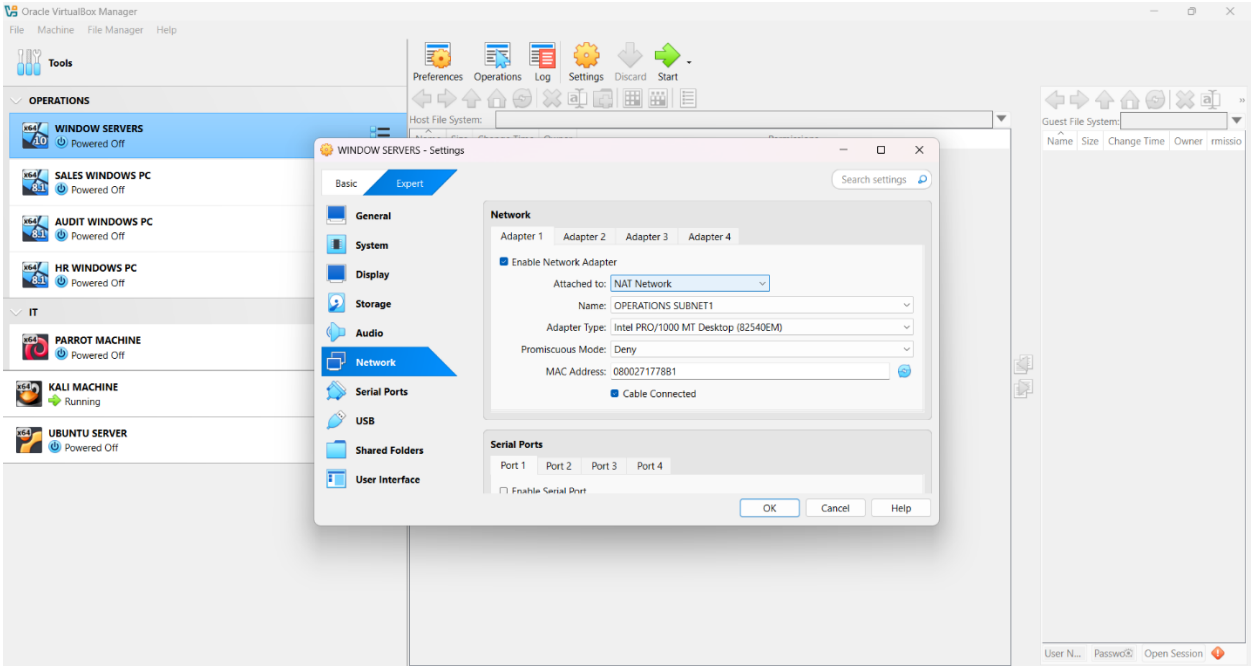
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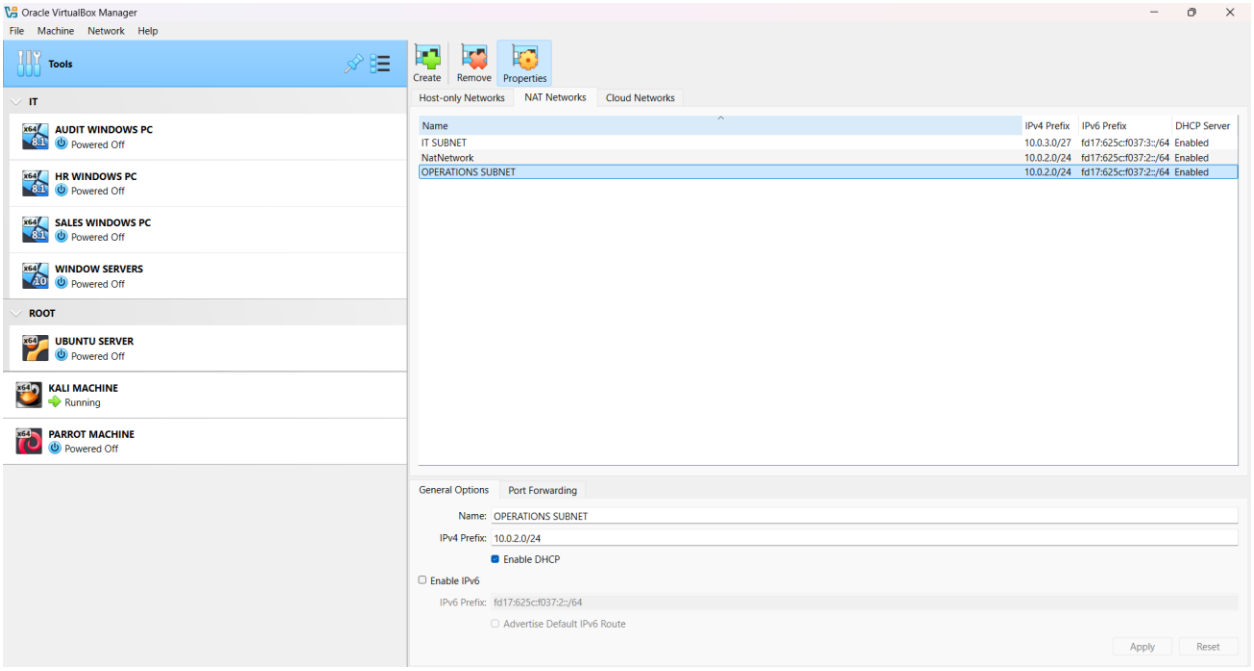
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DHCP Server
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fd17:625c:f037:3::/64
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NatNetwork
10.0.2.0/24
fd17:625c:f037:2::/64
Enabled
OPERATIONS SUBNET
10.0.2.0/24
fd17:625c:f037:2::/64
Enabled
General Options
Port Forwarding
Name:
OPERATIONS SUBNET
IPv4 Prefix:
10.0.2.0/24
Enable DHCP
Enable IPv6
IPv6 Prefix:
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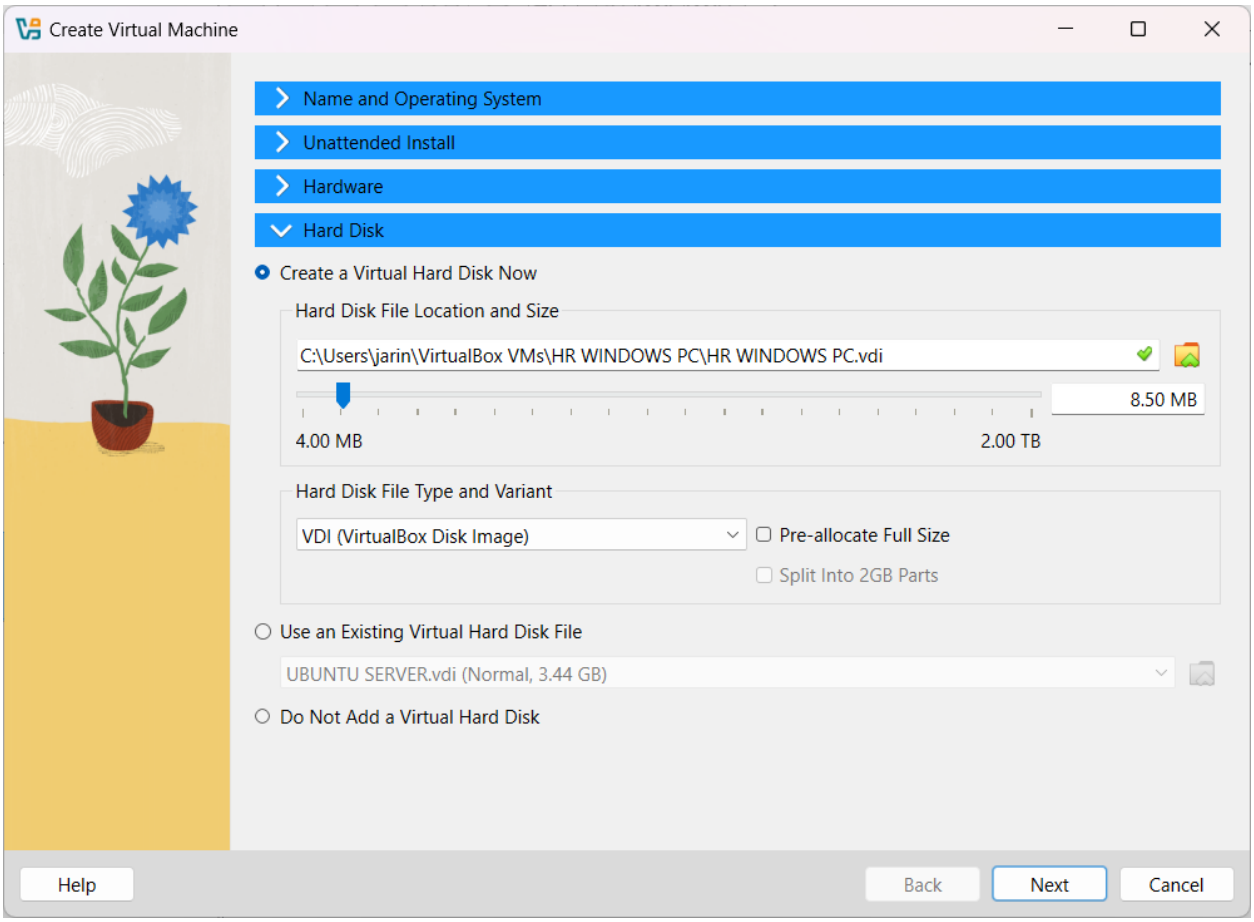
Advertise Default IPv6 Route
Apply
Reset


Create Virtual Machine
Name and Operating System
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Hardware
Hard Disk
Create a Virtual Hard Disk Now
Hard Disk File Location and Size
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8.50 MB
4.00 MB
2.00 TB
Hard Disk File Type and Variant
VDI (VirtualBox Disk Image)
Pre-allocate Full Size
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UBUNTU SERVER.vdi (Normal, 3.44 GB)
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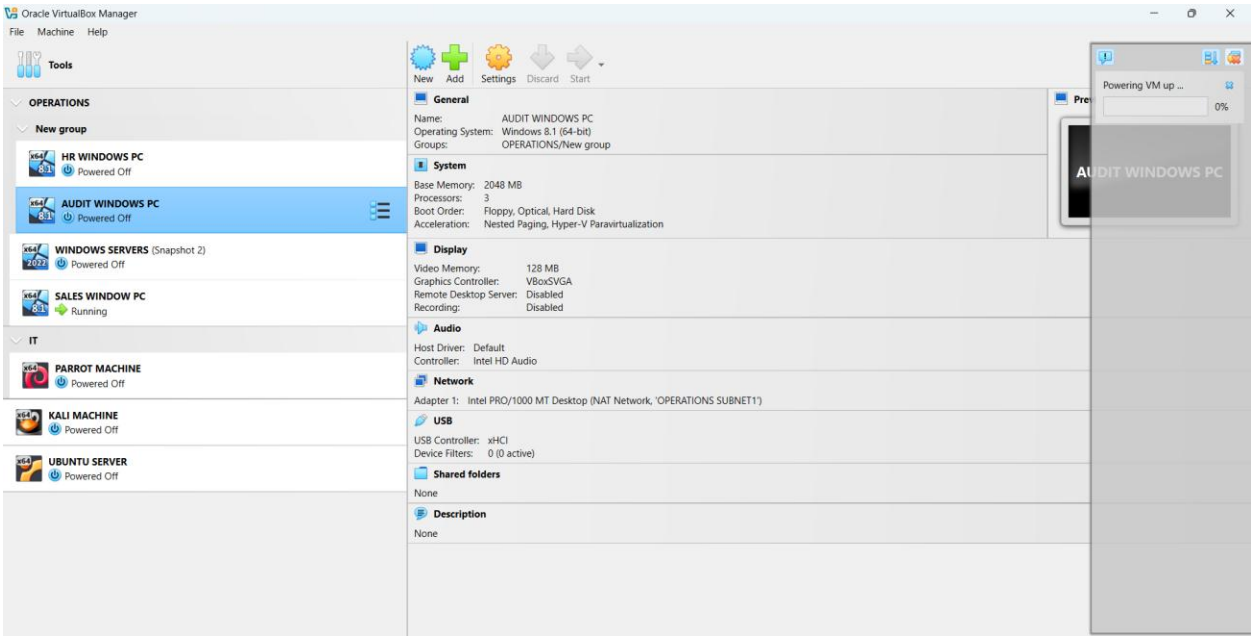
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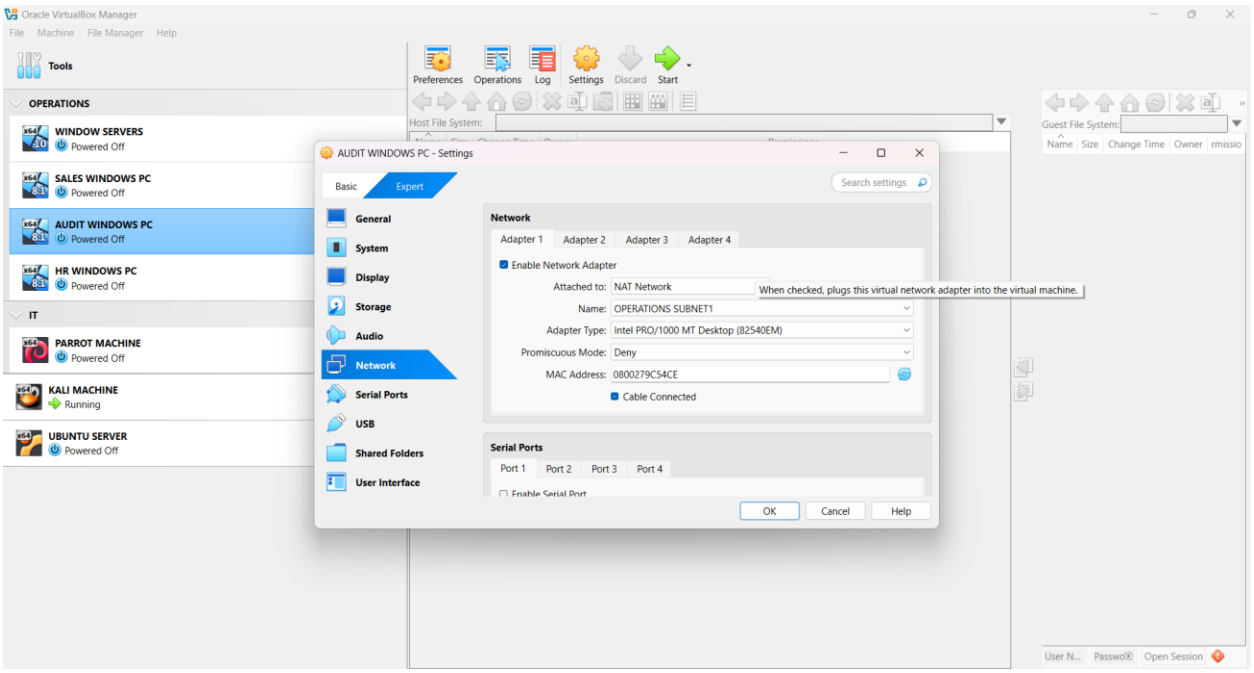
Shared folders
None
Description
None
Powering VM up ...
0%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Host File System:
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AUDIT WINDOWS PC - Settings
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Network
Adapter 1 Adapter 2 Adapter 3 Adapter 4
Enable Network Adapter
Attached to: NAT Network
When checked, plugs this virtual network adapter into the virtual machine.
Name: OPERATIONS SUBNET1
Adapter Type: Intel PRO/1000 MT Desktop (82540EM)
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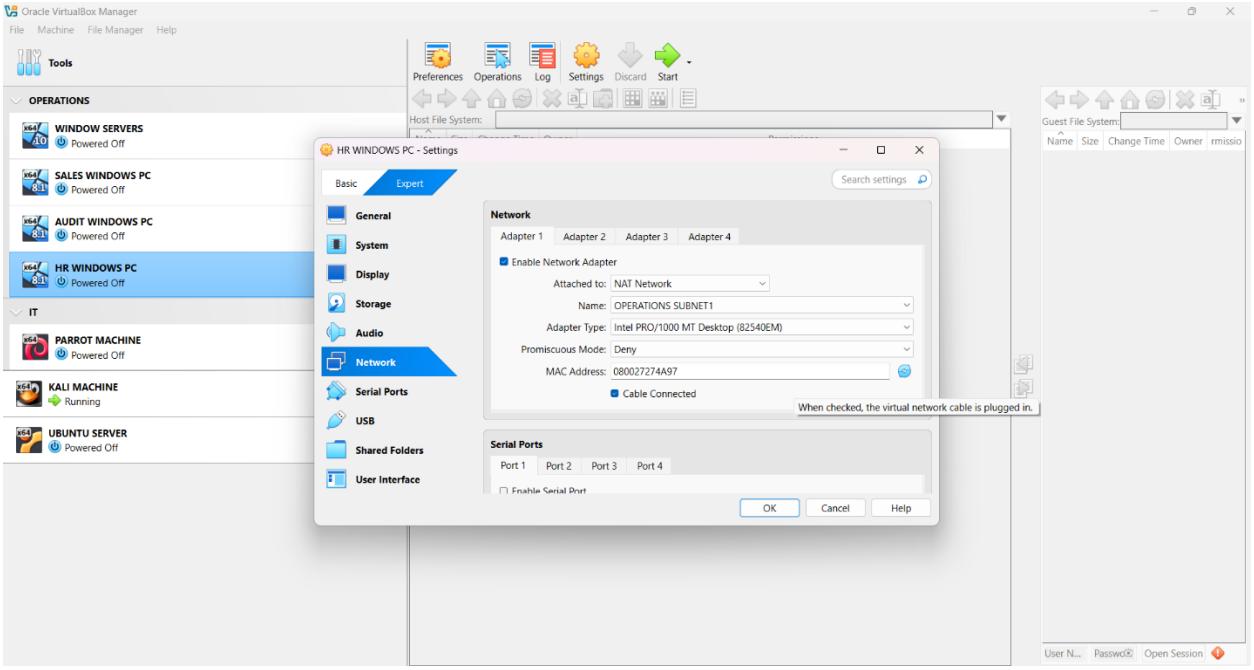
Cable Connected
Serial Ports
Port 1 Port 2 Port 3 Port 4
Enable Serial Port
OK Cancel Help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Adapter 1 Adapter 2 Adapter 3 Adapter 4
Enable Network Adapter
Attached to: NAT Network
Name: OPERATIONS SUBNET1
Adapter Type: Intel PRO/1000 MT Desktop (82540EM)
Promiscuous Mode: Deny
MAC Address: 080027274A97
Cable Connected
When checked, the virtual network cable is plugged in.
Serial Ports
Port 1 Port 2 Port 3 Port 4
OK Cancel Help
Guest File System:
Name Size Change Time Owner rmissio
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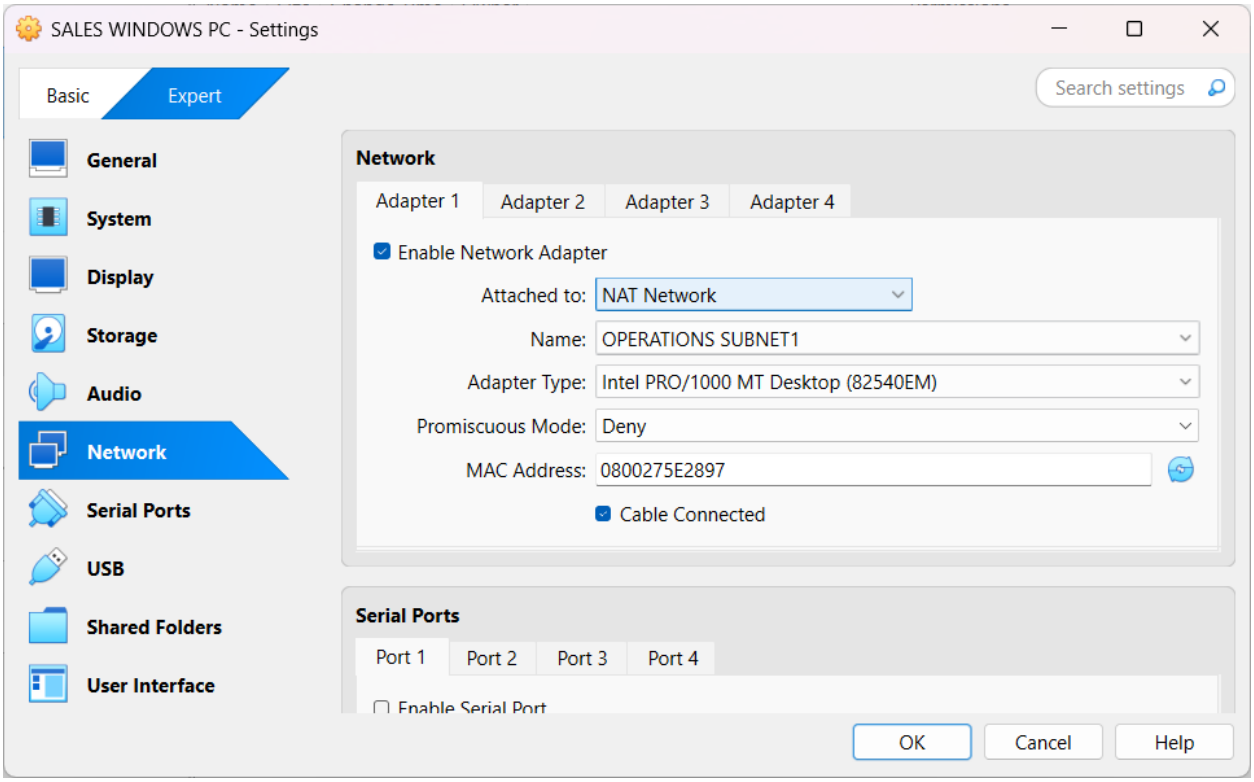
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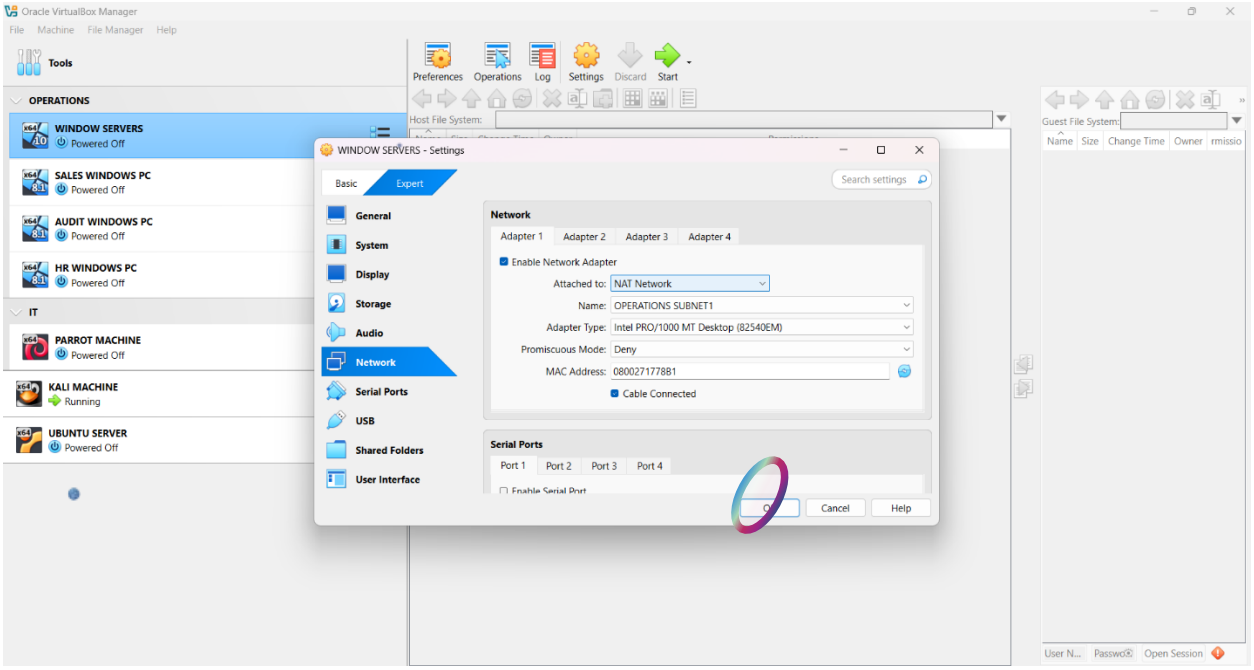
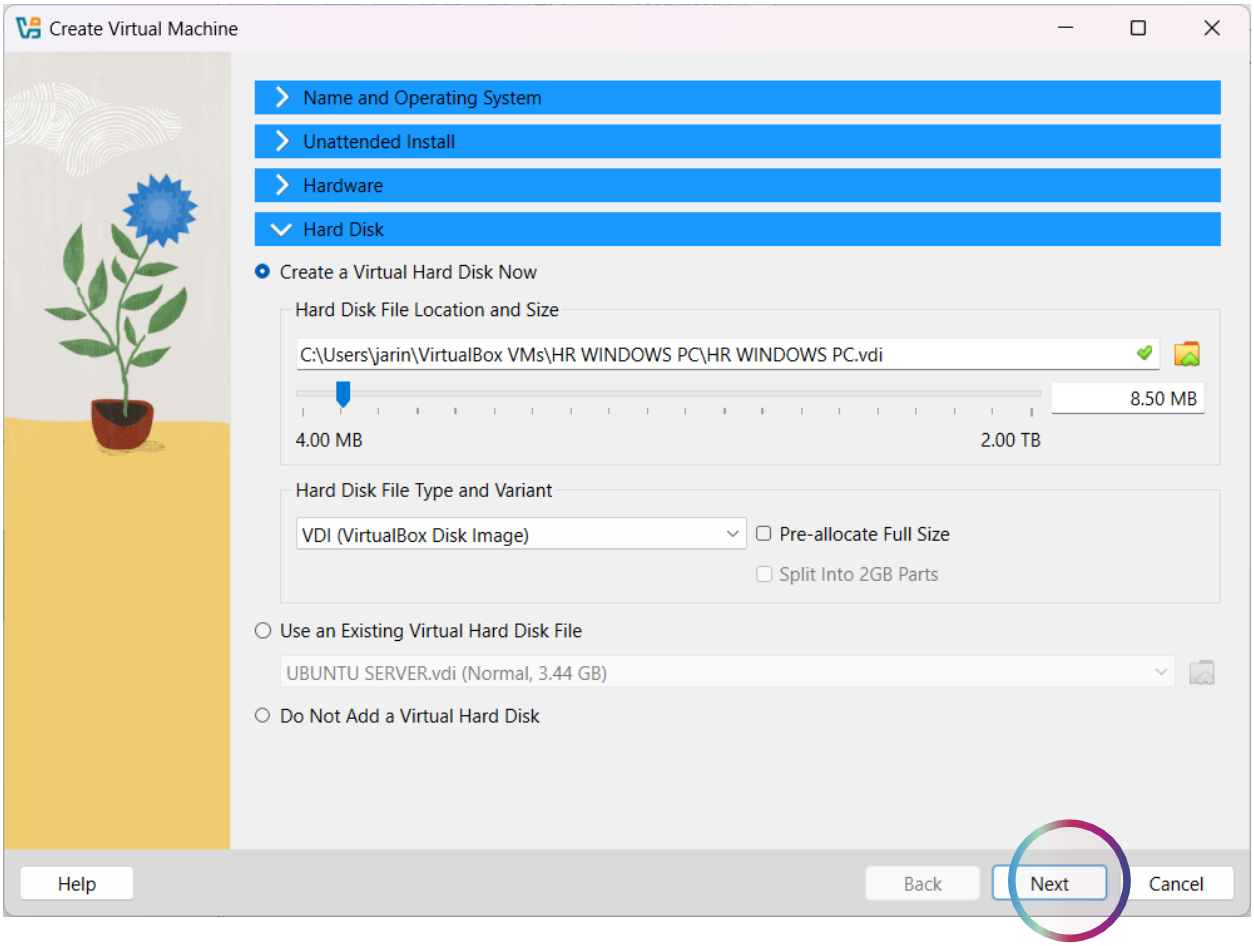
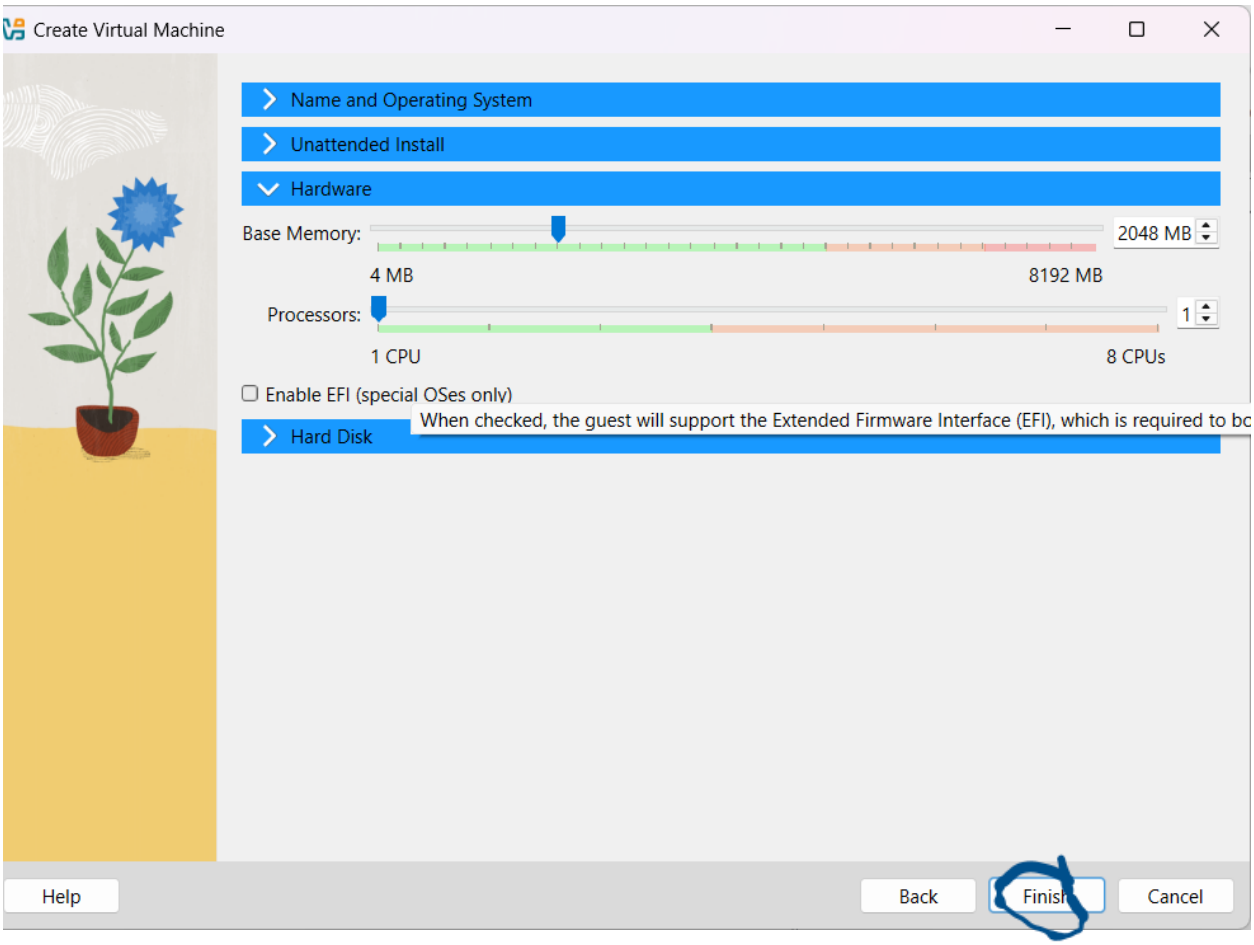
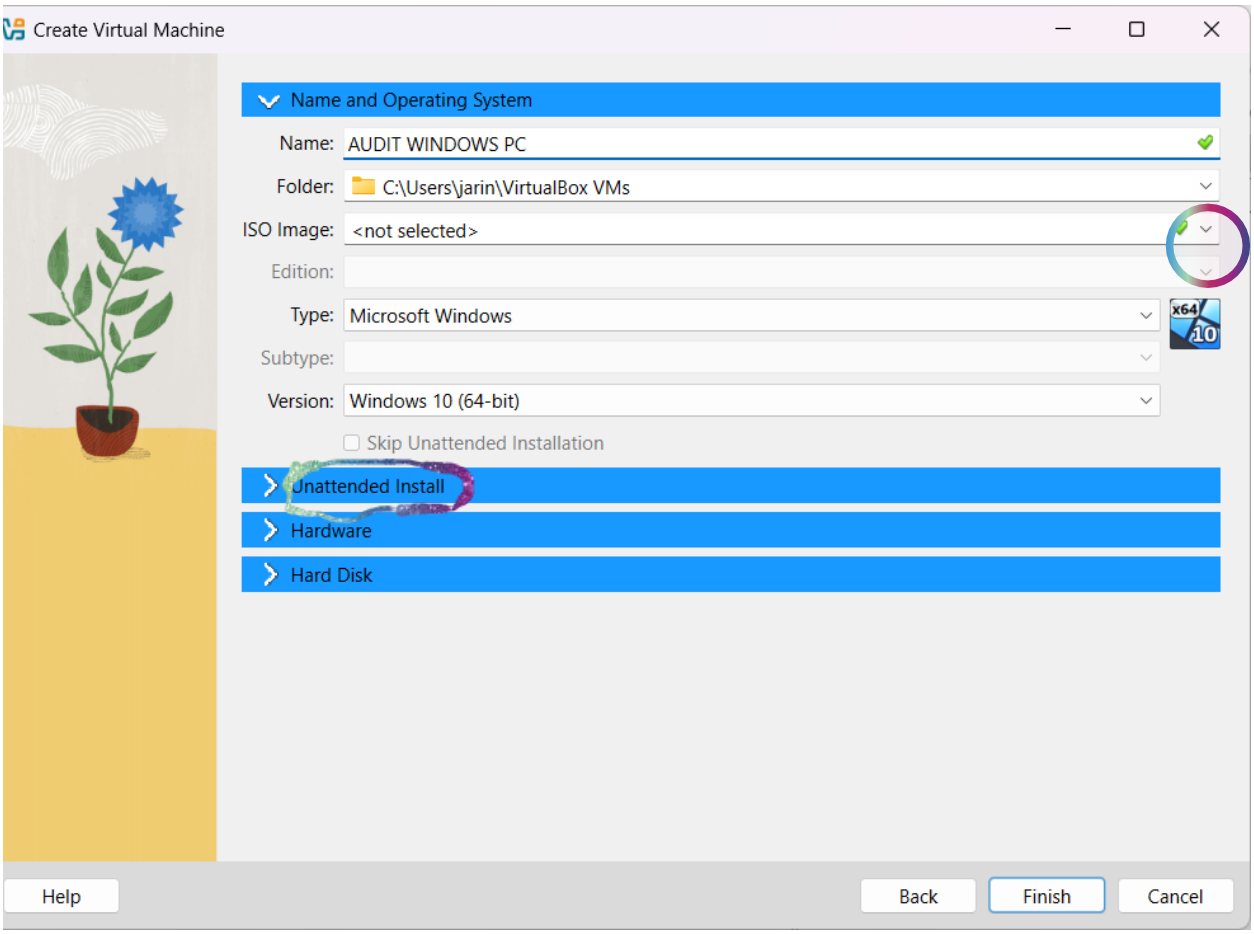
Enable Network Adapter
Attached to: NAT Network
Name: OPERATIONS SUBNET1
Adapter Type: Intel PRO/1000 MT Desktop (82540EM)
Promiscuous Mode: Deny
MAC Address: 0800275E2897
Cable Connected
Serial Ports
Port 1 Port 2 Port 3 Port 4
Enable Serial Port
OK Cancel Help

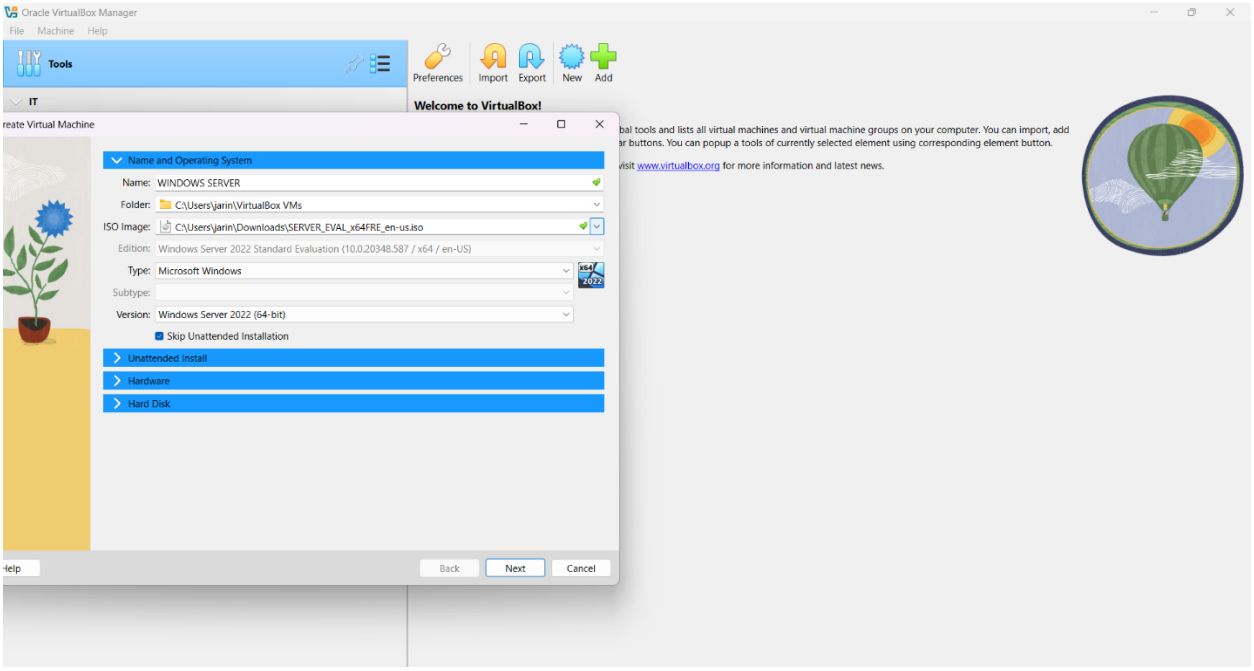
Now you will see WINDOWS SERVER listed on the VirtualBox dashboard/manager in the below diagram. Before we start the VM we can modify the settings of the VM if we want or you might want to assign more processors or change the networking adapters

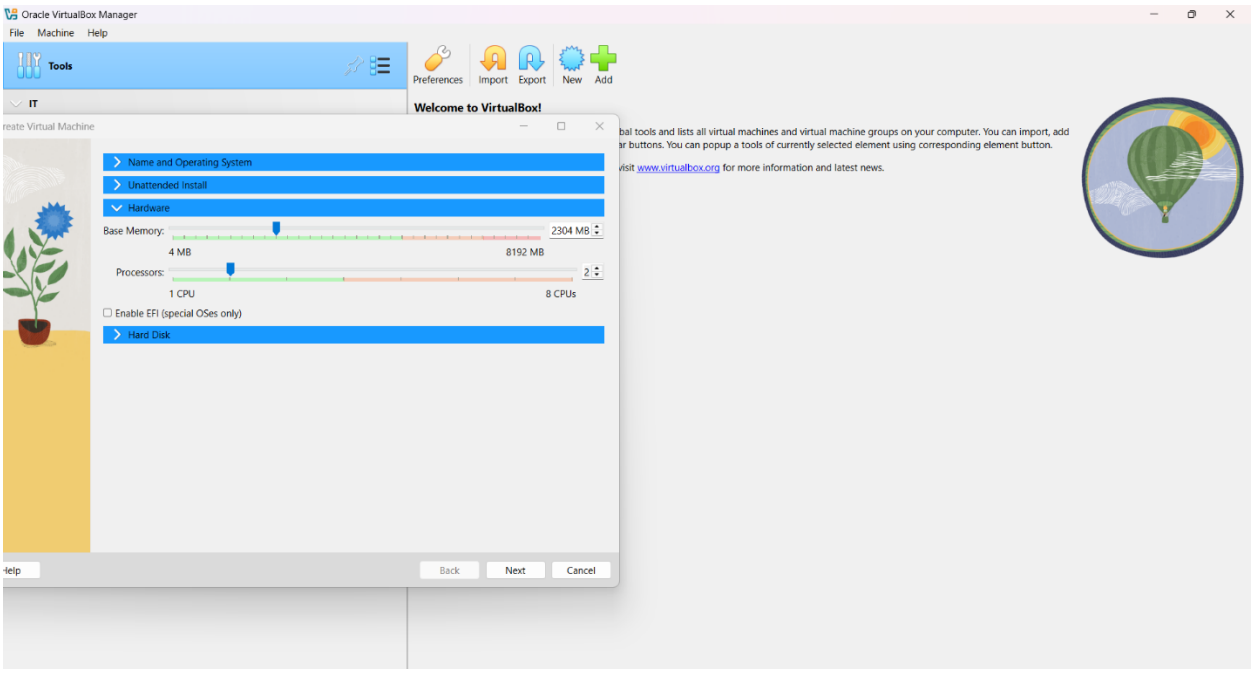

Oracle VirtualBox Manager
Tools
OPERATIONS
WINDOW SERVERS
Powered Off
SALES WINDOWS PC
Powered Off
AUDIT WINDOWS PC
Powered Off
HR WINDOWS PC
Powered Off
IT
PARROT MACHINE
Powered Off
KALI MACHINE
Running
UBUNTU SERVER
Powered Off
Preferences
Operations
Log
Settings
Discard
Start
WINDOW SERVERS - Settings
Basic
Expert
Search settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
Adapter 1
Adapter 2
Adapter 3
Adapter 4
Enable Network Adapter
Attached to: NAT Network
Name: OPERATIONS SUBNET1
Adapter Type: Intel PRO/1000 MT Desktop (82540EM)
Promiscuous Mode: Deny
MAC Address: 080027177881
Cable Connected
Port 1
Port 2
Port 3
Port 4
Cancel
Help

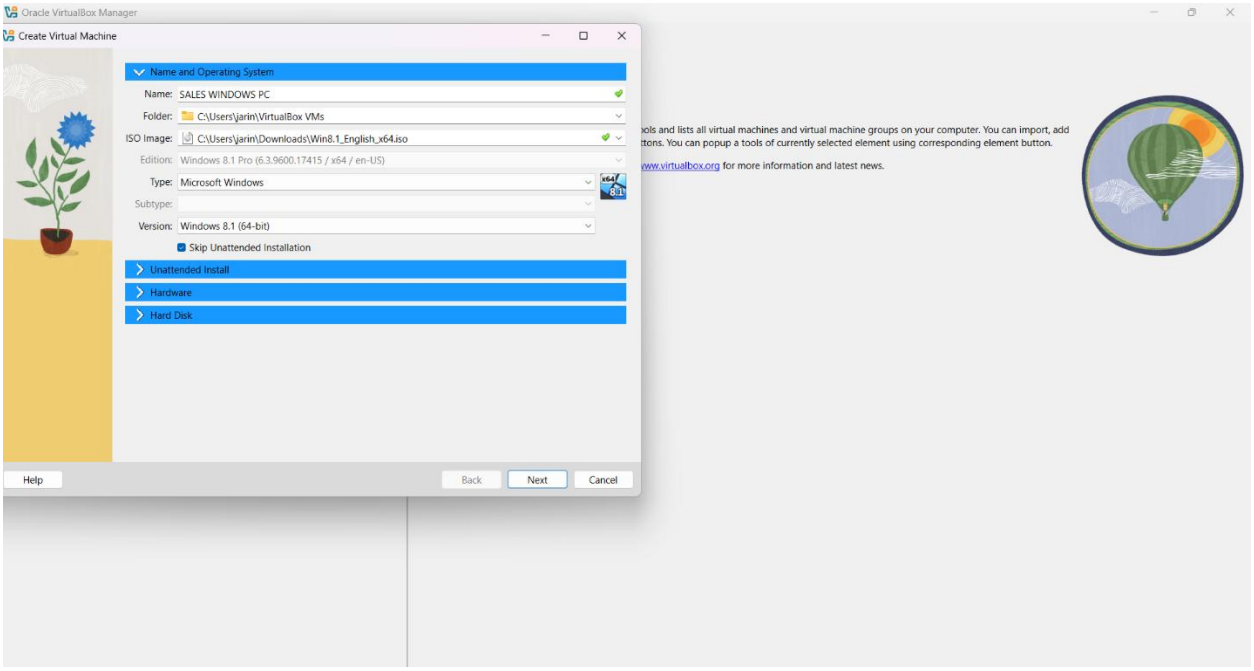

Create Virtual Machine
Name and Operating System
Unattended Install
Hardware
Hard Disk
Create a Virtual Hard Disk Now
Hard Disk File Location and Size
C:\Users\jarin\VirtualBox VMs\HR WINDOWS PC\HR WINDOWS PC.vdi
8.50 MB
4.00 MB
2.00 TB
Hard Disk File Type and Variant
VDI (VirtualBox Disk Image)
Pre-allocate Full Size
Split Into 2GB Parts
Use an Existing Virtual Hard Disk File
UBUNTU SERVER.vdi (Normal, 3.44 GB)
Do Not Add a Virtual Hard Disk
Help
Back
Next
Cancel

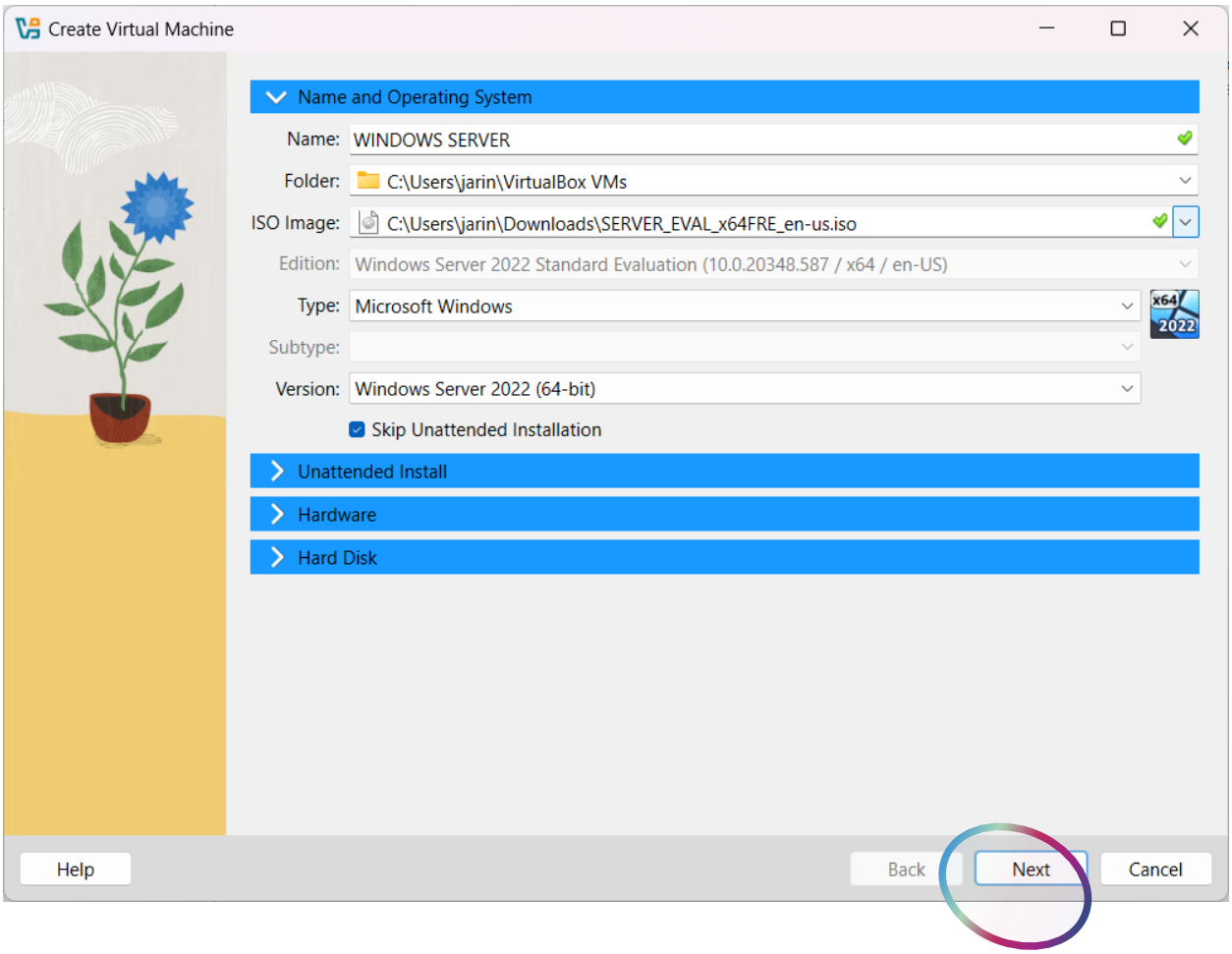

Create Virtual Machine
Name and Operating System
Unattended Install
Hardware
Base Memory:
2048 MB
4 MB
8192 MB
Processors:
1
1 CPU
8 CPUs
Enable EFI (special OSes only)
When checked, the guest will support the Extended Firmware Interface (EFI), which is required to bo
Hard Disk
Help
Back
Finish
Cancel

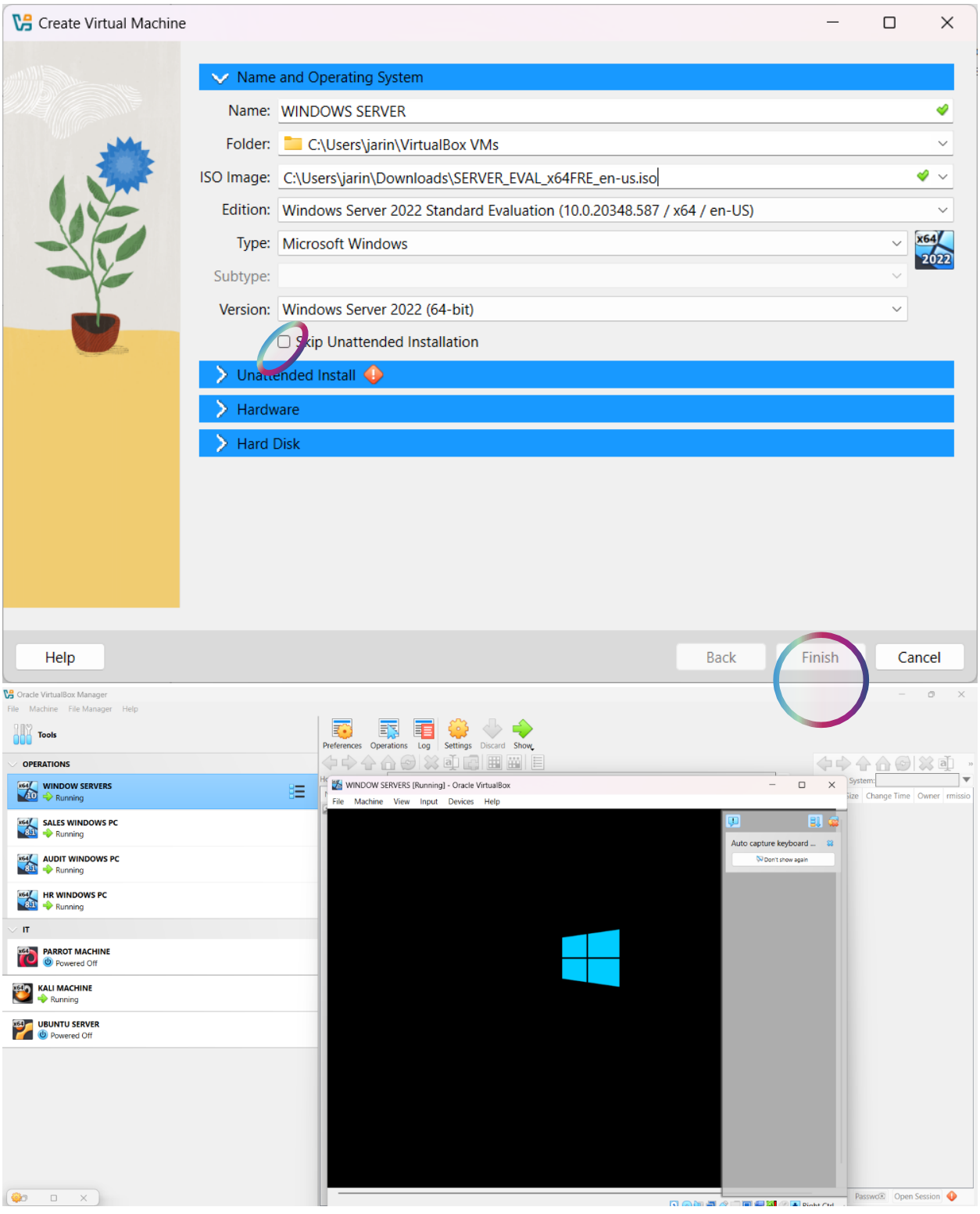

Create Virtual Machine
Name and Operating System
Name: AUDIT WINDOWS PC
Folder: C:\Users\jarin\VirtualBox VMs
ISO Image: <not selected>
Edition:
Type: Microsoft Windows
Subtype:
Version: Windows 10 (64-bit)
Skip Unattended Installation
Unattended Install
Hardware
Hard Disk
Help
Back
Finish
Cancel


Oracle VirtualBox Manager
File Machine Help
Tools
Preferences Import Export New Add
Welcome to VirtualBox!
Create Virtual Machine
Name and Operating System
Name: WINDOWS SERVER
Folder: C:\Users\jarin\VirtualBox VMs
ISO Image: C:\Users\jarin\Downloads\SERVER_EVAL_x64FRE_en-us.iso
Edition: Windows Server 2022 Standard Evaluation (10.0.20348.587 / x64 / en-US)
Type: Microsoft Windows
Subtype:
Version: Windows Server 2022 (64-bit)
Skip Unattended Installation
Unattended Install
Hardware
Hard Disk
Help
Back
Next
Cancel


Oracle VirtualBox Manager
File Machine Help
Tools
Preferences Import Export New Add
IT
Welcome to VirtualBox!
Create Virtual Machine
Name and Operating System
Unattended Install
Hardware
Base Memory: 2304 MB
4 MB 8192 MB
Processors: 2
1 CPU 8 CPUs
Enable EFI (special OSes only)
Hard Disk
Help Back Next Cancel


Oracle VirtualBox Manager
Create Virtual Machine
Name and Operating System
Name: SALES WINDOWS PC
Folder: C:\Users\jarin\VirtualBox VMs
ISO Image: C:\Users\jarin\Downloads\Win8.1_English_x64.iso
Edition: Windows 8.1 Pro (6.3.9600.17415 / x64 / en-US)
Type: Microsoft Windows
Subtype:
Version: Windows 8.1 (64-bit)
Skip Unattended Installation
Unattended Install
Hardware
Hard Disk
Help Back Next Cancel


Create Virtual Machine
Name and Operating System
Name: WINDOWS SERVER
Folder: C:\Users\jarin\VirtualBox VMs
ISO Image: C:\Users\jarin\Downloads\SERVER_EVAL_x64FRE_en-us.iso
Edition: Windows Server 2022 Standard Evaluation (10.0.20348.587 / x64 / en-US)
Type: Microsoft Windows
Subtype:
Version: Windows Server 2022 (64-bit)
Skip Unattended Installation
Unattended Install
Hardware
Hard Disk
Help
Back
Next
Cancel


Create Virtual Machine
Name and Operating System
Name: WINDOWS SERVER
Folder: C:\Users\jarin\VirtualBox VMs
ISO Image: C:\Users\jarin\Downloads\SERVER_EVAL_x64FRE_en-us.iso
Edition: Windows Server 2022 Standard Evaluation (10.0.20348.587 / x64 / en-US)
Type: Microsoft Windows
Subtype:
Version: Windows Server 2022 (64-bit)
Skip Unattended Installation
Unattended Install
Hardware
Hard Disk
Help
Back
Finish
Cancel
Oracle VirtualBox Manager
Tools
OPERATIONS
WINDOW SERVERS
Running
SALES WINDOWS PC
Running
AUDIT WINDOWS PC
Running
HR WINDOWS PC
Running
IT
PARROT MACHINE
Powered Off
KALI MACHINE
Running
UBUNTU SERVER
Powered Off
Preferences
Operations
Log
Settings
Discard
Show
WINDOW SERVERS [Running] - Oracle VirtualBox
File
Machine
View
Input
Devices
Help
Auto capture keyboard ...
Don't show again