HOW TO SET UP YOUR OWN **TESTING LAB ENVIRONMENT**

A HOW TO GUIDE

This e-book will guide you through the basics of installing the software and the steps needed to get your virtual machines and lab environment up and running.

Written By:

Dan Cannon

INTRODUCTION

Welcome to your journey into building a lab environment with VirtualBox!

Whether you're an aspiring penetration tester or just someone passionate about cybersecurity, having a safe and controlled environment to practice and experiment is crucial.

This e-book is designed to guide you through the very basics of installing the necessary software and getting virtual machines (VMs) up and running.

Creating a lab environment will not only help you sharpen your skills, but also ensure that your testing activities do not interfere with any real-world systems.

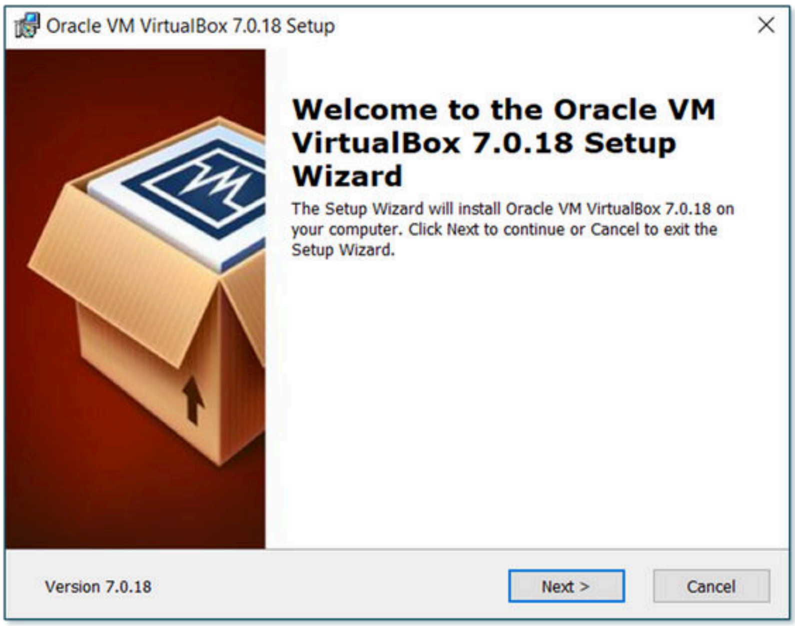
We'll start from scratch, so even if you're new to virtualisation, you'll find this guide accessible and straightforward.

With detailed instructions and accompanying screenshots, you'll be able to set up your own lab and dive into the world of penetration testing with confidence.

SETTING UP YOUR OWN **TESTING LAB**

Ready to get started?

Go to your downloads folder and double click the VirtualBox executable to install it.



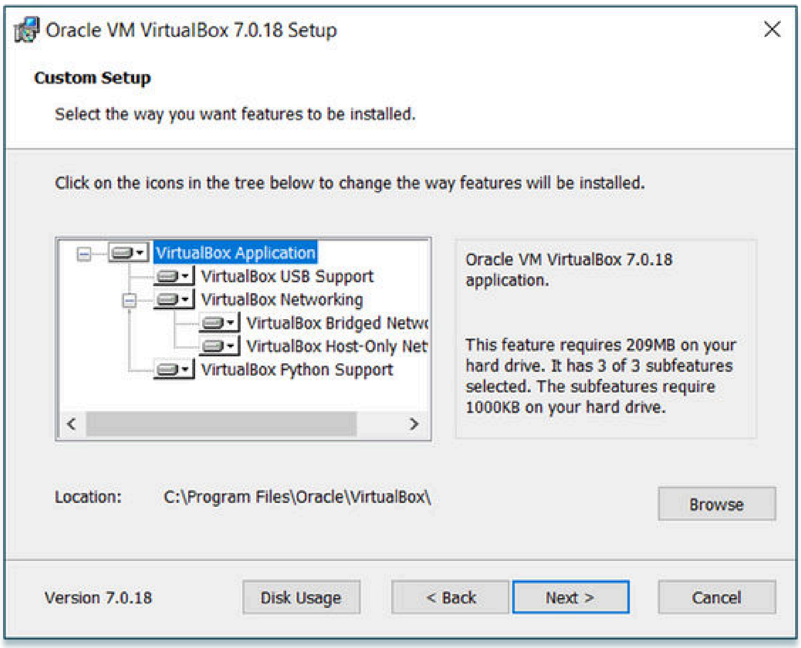
Oracle VM VirtualBox 7.0.18 Setup

Welcome to the Oracle VM VirtualBox 7.0.18 Setup Wizard

The Setup Wizard will install Oracle VM VirtualBox 7.0.18 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.

Version 7.0.18

Click **Next**



Oracle VM VirtualBox 7.0.18 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 Bridged Netw
    - VirtualBox Host-Only Net
  - VirtualBox Python Support

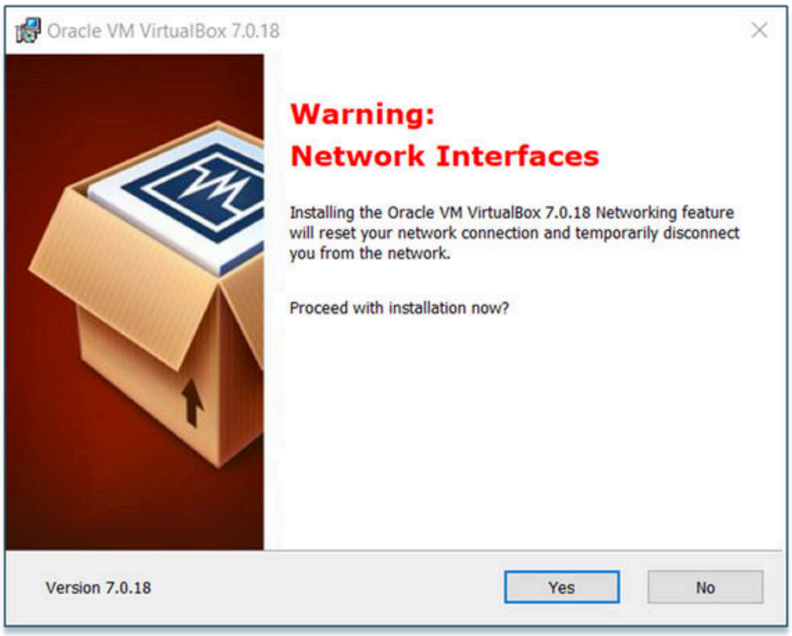
Oracle VM VirtualBox 7.0.18 application.

This feature requires 209MB on your hard drive. It has 3 of 3 subfeatures selected. The subfeatures require 1000KB on your hard drive.

Location: C:\Program Files\Oracle\VirtualBox\

Version 7.0.18

Click **Next**



Oracle VM VirtualBox 7.0.18

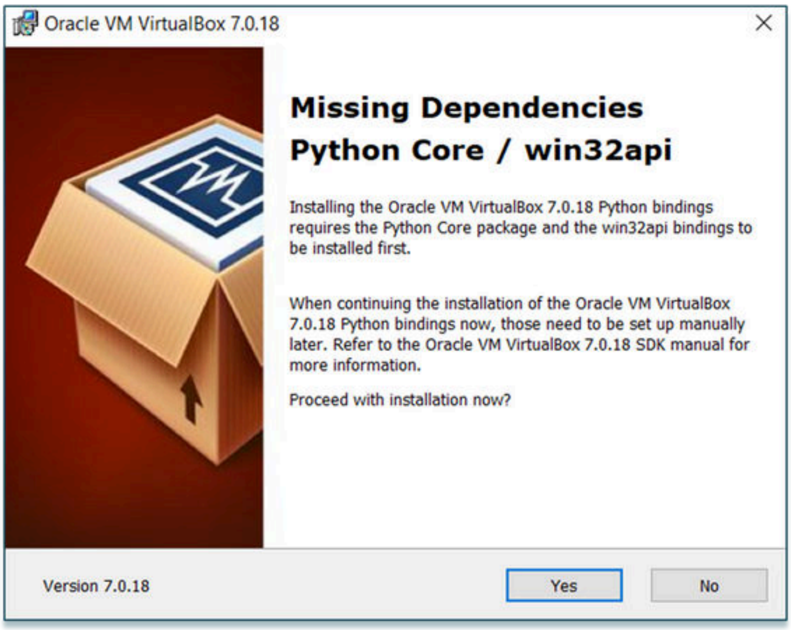
Warning:
Network Interfaces

Installing the Oracle VM VirtualBox 7.0.18 Networking feature will reset your network connection and temporarily disconnect you from the network.

Proceed with installation now?

Version 7.0.18

Click **YES**



Oracle VM VirtualBox 7.0.18

Missing Dependencies
Python Core / win32api

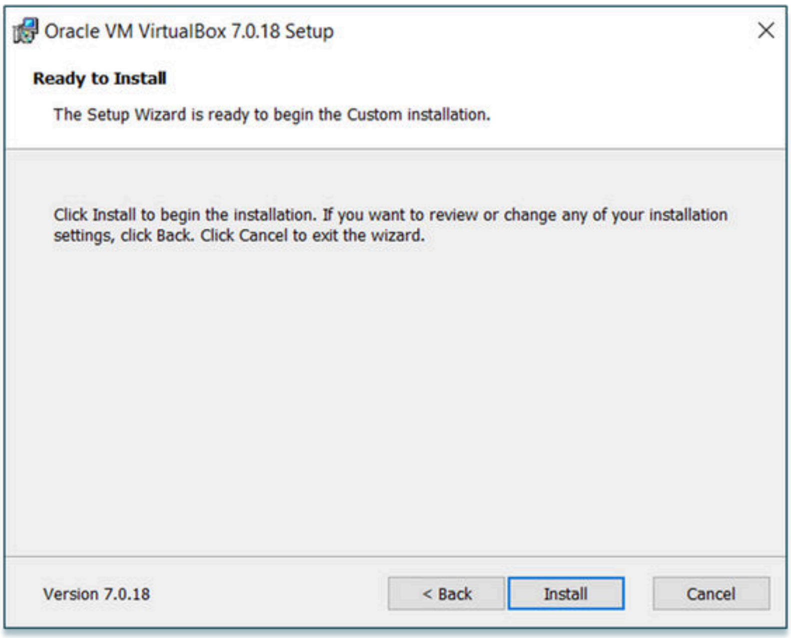
Installing the Oracle VM VirtualBox 7.0.18 Python bindings requires the Python Core package and the win32api bindings to be installed first.

When continuing the installation of the Oracle VM VirtualBox 7.0.18 Python bindings now, those need to be set up manually later. Refer to the Oracle VM VirtualBox 7.0.18 SDK manual for more information.

Proceed with installation now?

Version 7.0.18

Click **YES**

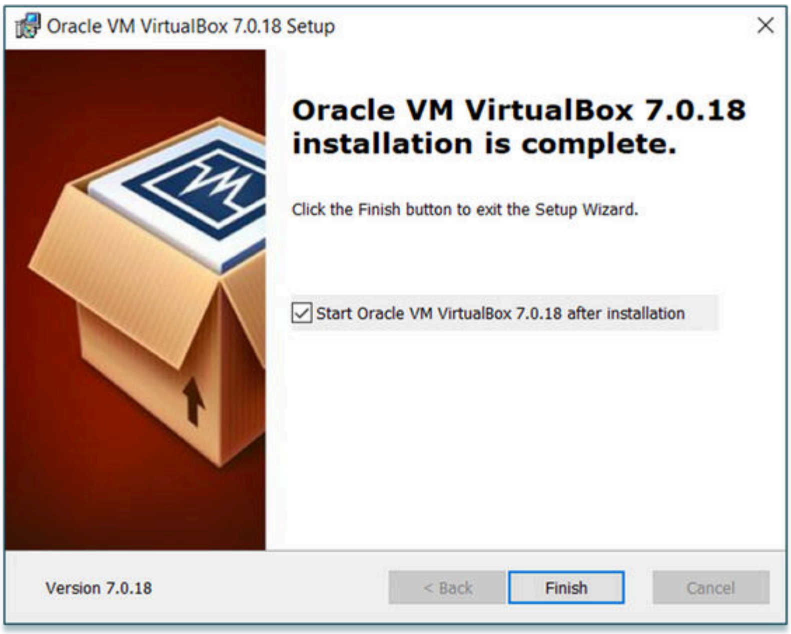


Ready to Install

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.

Click **Install**

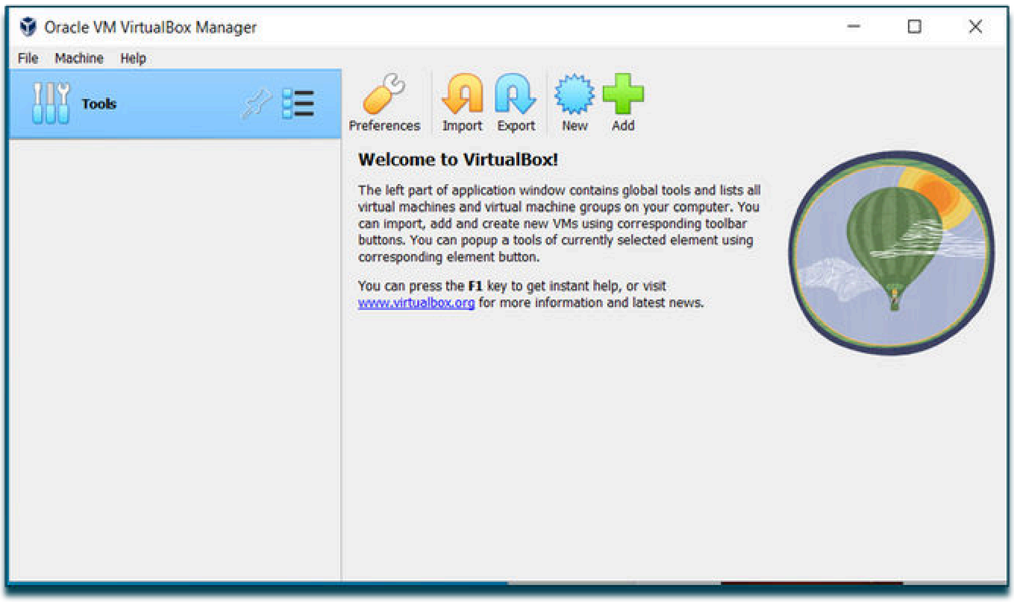


Oracle VM VirtualBox 7.0.18 installation is complete.

Click the Finish button to exit the Setup Wizard.

☑ Start Oracle VM VirtualBox 7.0.18 after installation

Click **Finish**



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.

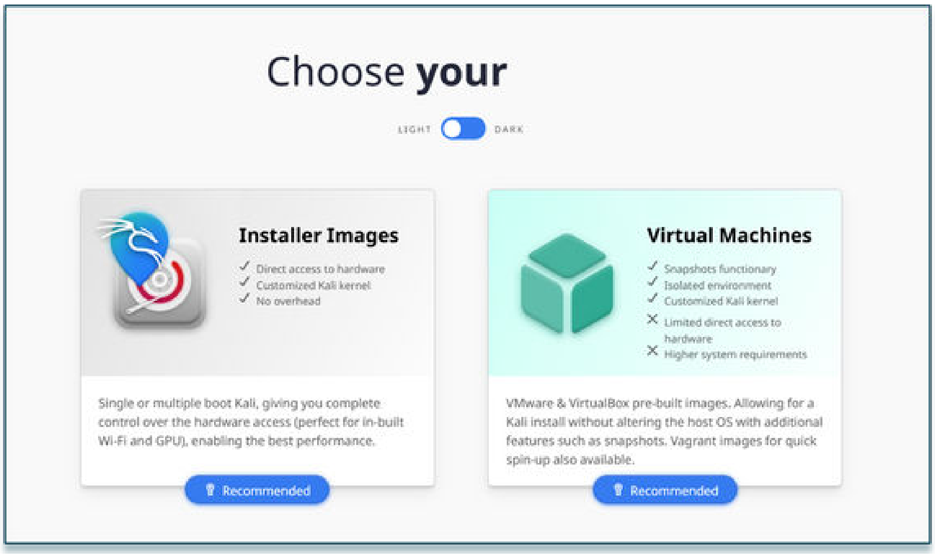
Congratulations, you have now successfully installed VirtualBox.

From here we can create both virtual machines to test from (typically Kali) and virtual machines to attack (anything we choose).

HOW TO CREATE A **TESTING MACHINE**

To create a testing machine, we will use Kali.

You will have two options when it comes to downloading Kali - either to download a pre-built virtual machine, or the image installer (a .iso file)



Choose **your**

Installer Images

- ✓ Direct access to hardware
- ✓ Customized Kali kernel
- ✓ No overhead

Single or multiple boot Kali, giving you complete control over the hardware access (perfect for in-built Wi-Fi and GPU), enabling the best performance.

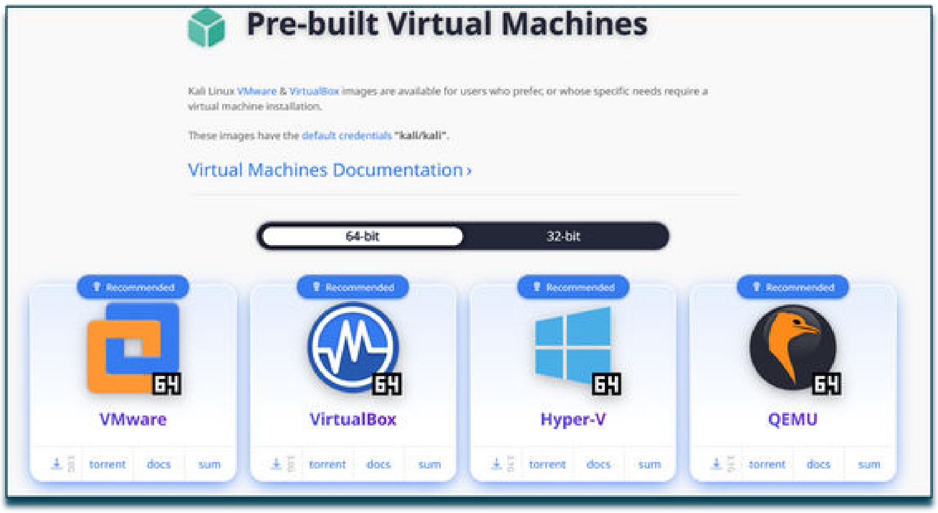
Virtual Machines

- ✓ Snapshots functionary
- ✓ Isolated environment
- ✓ Customized Kali kernel
- ✕ Limited direct access to hardware
- ✕ Higher system requirements

VMware & VirtualBox pre-built images. Allowing for a Kali install without altering the host OS with additional features such as snapshots. Vagrant images for quick spin-up also available.

The key difference is that downloading the ISO file will let you install Kali Linux from scratch, giving you more control over the setup, while the pre-built VM is a ready-to-use version that you can import directly into your virtualisation software, saving time and effort.

First, let's start with using a **prebuilt machine**.



Pre-built Virtual Machines

Kali Linux VMware & VirtualBox images are available for users who prefer, or whose specific needs require a virtual machine installation.

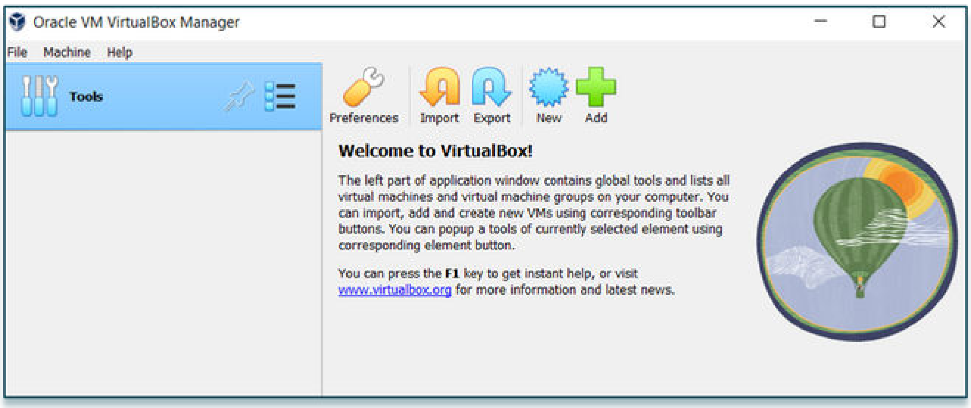
These images have the default credentials "**kali/kali**".

Virtual Machines Documentation ›

Click **Next**

Select the software you use (we are going to assume VirtualBox). This will give you a zipped file.

To access this virtual machine, simply **Add** it to VirtualBox.

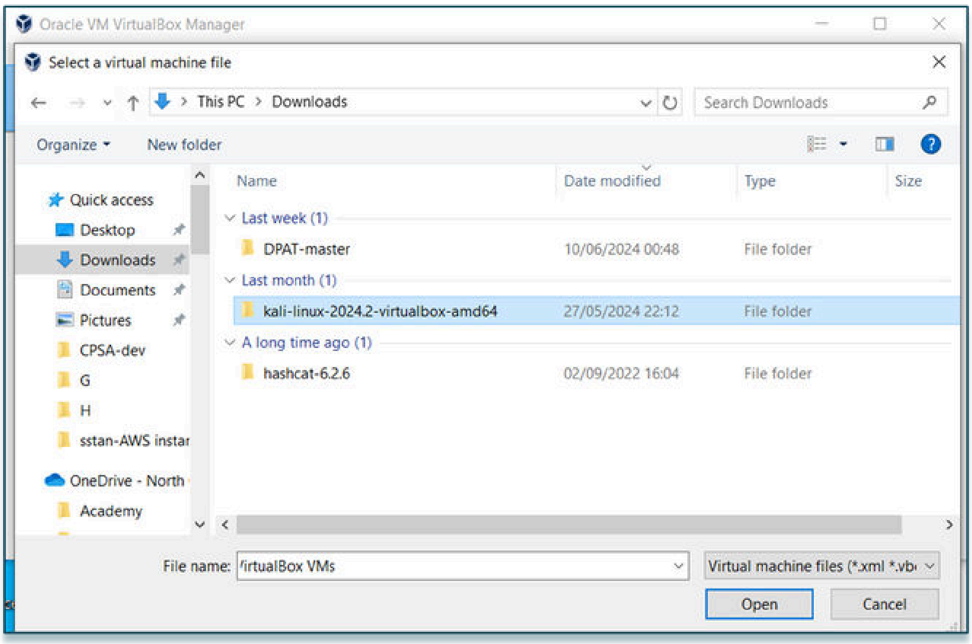


Welcome to VirtualBox!

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.

Click **Add**

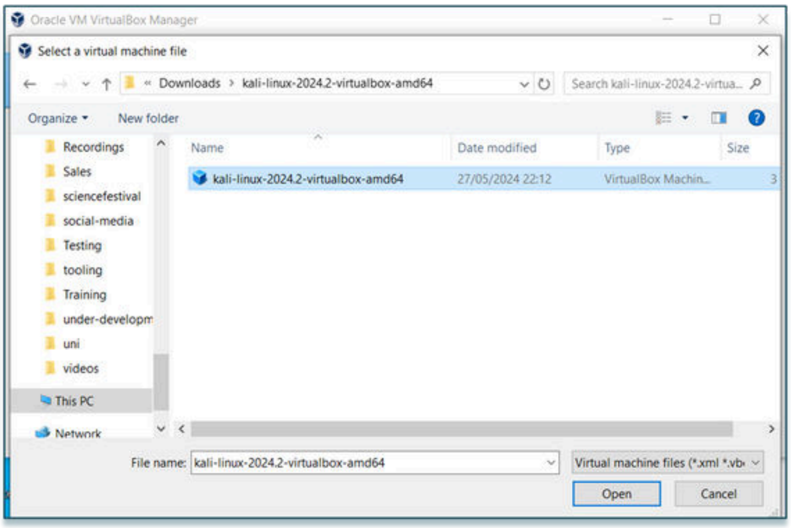


Name	Date modified	Type	Size
Last week (1)			
DPAT-master	10/06/2024 00:48	File folder	
Last month (1)			
kali-linux-2024.2-virtualbox-amd64	27/05/2024 22:12	File folder	
A long time ago (1)			
hashcat-6.2.6	02/09/2022 16:04	File folder	

File name: irtualBox VMs

Virtual machine files (*.xml *.vb

Select the **Kali Linux** folder



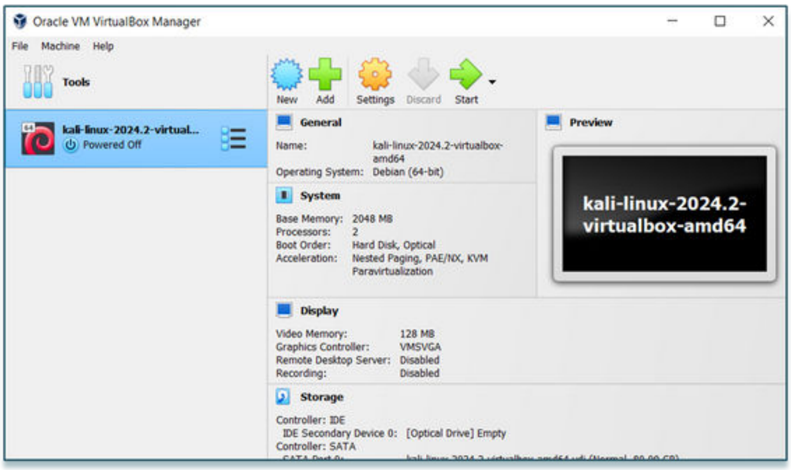
Oracle VM VirtualBox Manager
Select a virtual machine file
« Downloads › kali-linux-2024.2-virtualbox-amd64
Search kali-linux-2024.2-virtua...
Organize ▾
New folder
Recordings
Sales
sciencefestival
social-media
Testing
tooling
Training
under-developm
uni
videos
This PC
Network
Open
Cancel

Name	Date modified	Type	Size
kali-linux-2024.2-virtualbox-amd64	27/05/2024 22:12	VirtualBox Machin...	3

File name: kali-linux-2024.2-virtualbox-amd64

Virtual machine files (*.xml *.vb

And choose the **Kali VirtualBox** file



Oracle VM VirtualBox Manager
File
Machine
Help
Tools
New
Add
Settings
Discard
Start
kali-linux-2024.2-virtual...
Powered Off
Preview
kali-linux-2024.2-virtualbox-amd64

General

Name: kali-linux-2024.2-virtualbox-amd64
Operating System: Debian (64-bit)

System

Base Memory: 2048 MB
Processors: 2
Boot Order: Hard Disk, Optical
Acceleration: Nested Paging, PAE/NX, KVM Paravirtualization

Display

Video Memory: 128 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording: Disabled

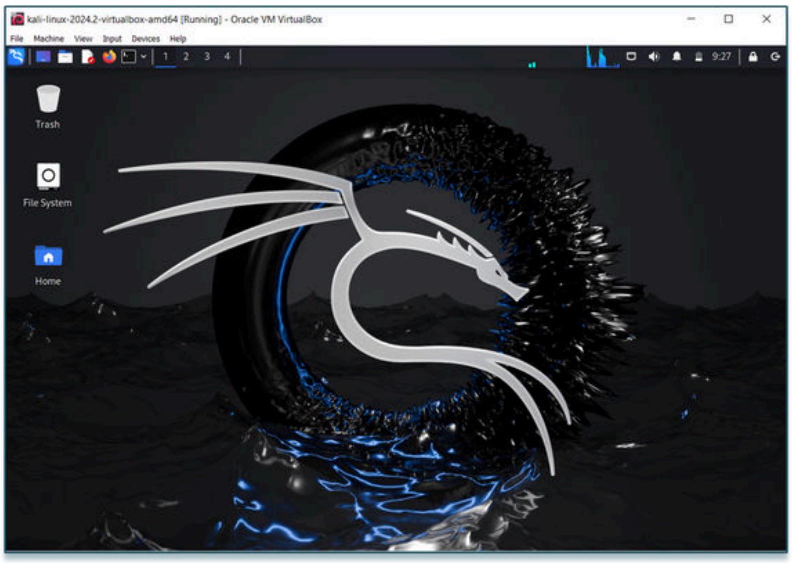
Storage

Controller: IDE
IDE Secondary Device 0: [Optical Drive] Empty
Controller: SATA
SATA Port 0: kali-linux-2024.2-virtualbox-amd64.vdi (Normal, 80.00 GB)

Your Kali machine now appears in your VirtualBox interface.

Pressing start will boot up the machine. It will use the default credentials of **kali:kali**

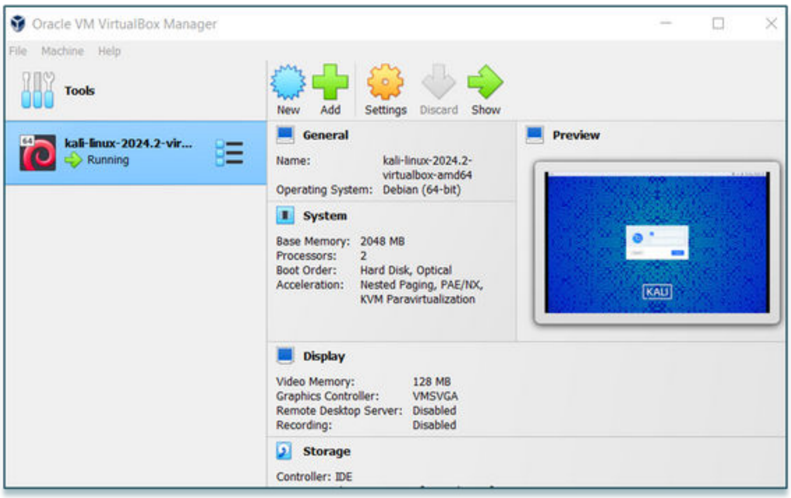
You will now be able to use your Kali virtual machine.


kali-linux-2024.2-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File
Machine
View
Input
Devices
Help
1
2
3
4
9:27
Trash
File System
Home

Alternatively, we can build a virtual machine with an ISO file.

This is the installation file for an operating system. This gives us more flexibility around how much power and storage a virtual machine has.

To do this simply select **New** from the virtual box interface.



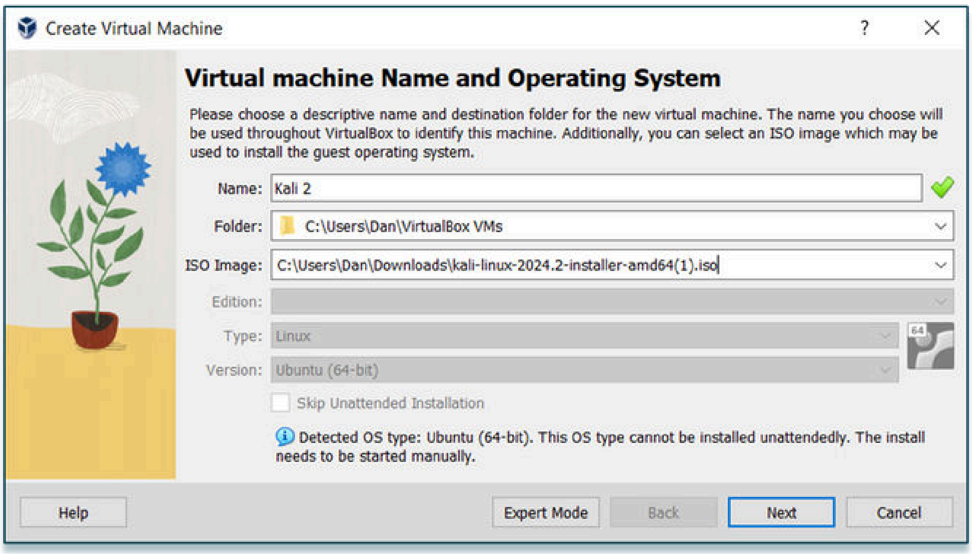
Name: kali-linux-2024.2-virtualbox-amd64
Operating System: Debian (64-bit)

Base Memory: 2048 MB
Processors: 2
Boot Order: Hard Disk, Optical
Acceleration: Nested Paging, PAE/NX, KVM Paravirtualization

Video Memory: 128 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording: Disabled

Controller: IDE

Choose a name for the machine and select the location of the ISO file you have downloaded, then hit **Next**.



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: Kali 2

Folder: C:\Users\Dan\VirtualBox VMs

ISO Image: C:\Users\Dan\Downloads\kali-linux-2024.2-installer-amd64(1).iso

Edition:

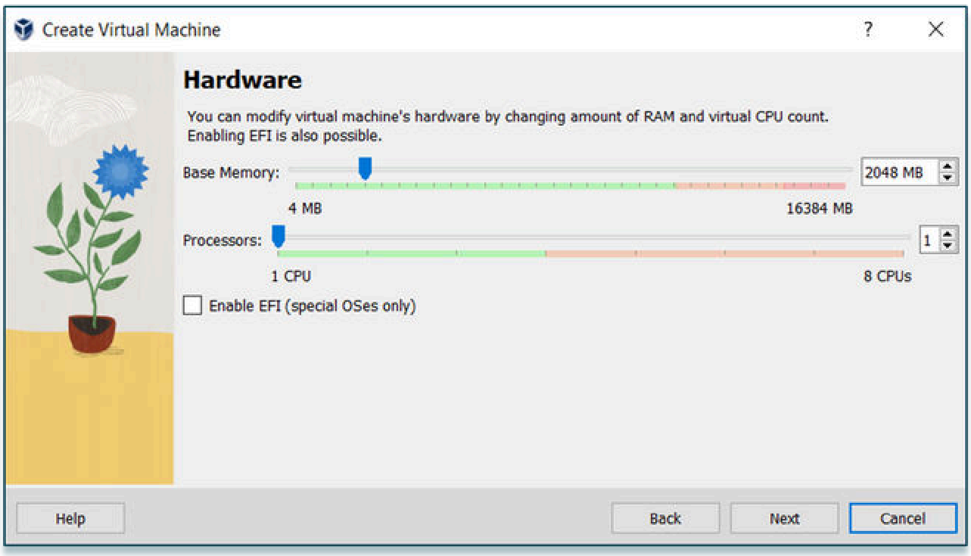
Type: Linux

Version: Ubuntu (64-bit)

□ Skip Unattended Installation

Detected OS type: Ubuntu (64-bit). This OS type cannot be installed unattendedly. The install needs to be started manually.

Choose how much RAM you want to use (you will need to think about how much RAM is available on your computer and how many Virtual Machines you intend to run at the same time).



Create Virtual Machine

Hardware

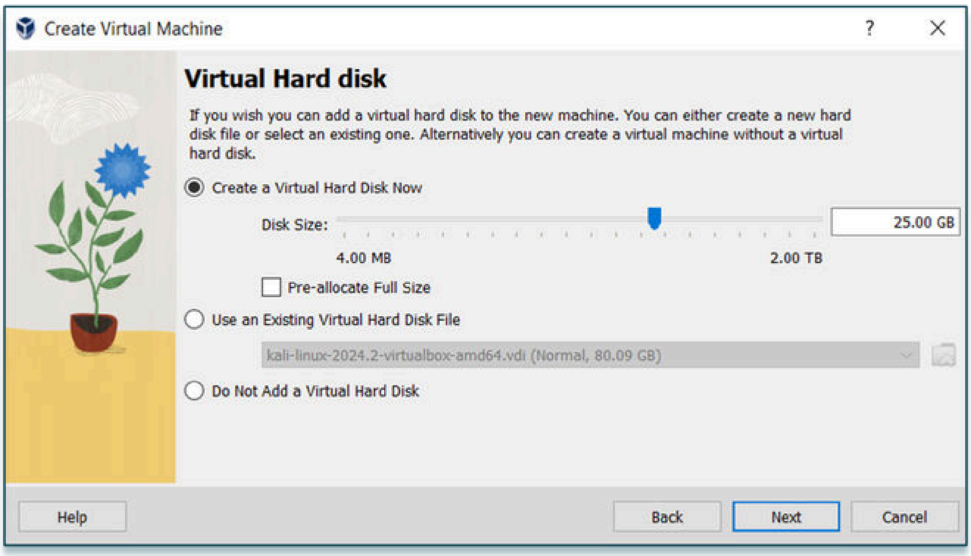
You can modify virtual machine's hardware by changing amount of RAM and virtual CPU count. Enabling EFI is also possible.

Base Memory: 2048 MB

Processors: 1

□ Enable EFI (special OSes only)

Then choose how big you want the virtual hard drive to be.



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)

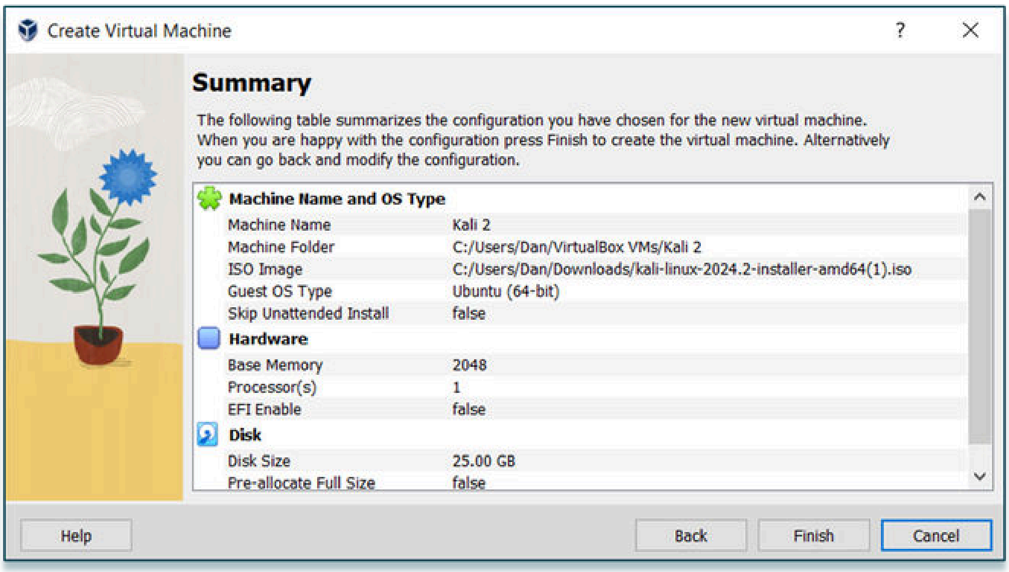
□ Pre-allocate Full Size

○ Use an Existing Virtual Hard Disk File

kali-linux-2024.2-virtualbox-amd64.vdi (Normal, 80.09 GB)

○ Do Not Add a Virtual Hard Disk

Once you are happy with your settings, you will see the following menu:

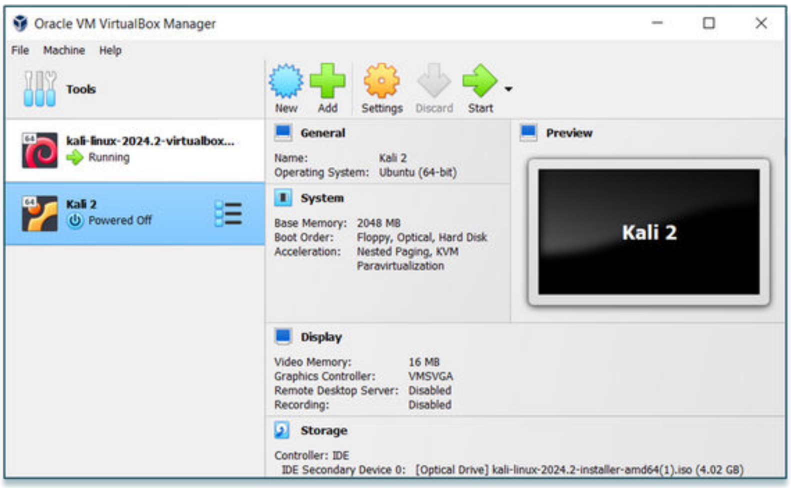


Summary

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	Kali 2
Machine Folder	C:/Users/Dan/VirtualBox VMs/Kali 2
ISO Image	C:/Users/Dan/Downloads/kali-linux-2024.2-installer-amd64(1).iso
Guest OS Type	Ubuntu (64-bit)
Skip Unattended Install	false
Hardware	
Base Memory	2048
Processor(s)	1
EFI Enable	false
Disk	
Disk Size	25.00 GB
Pre-allocate Full Size	false

Hit **Finish** and your VM will be available from the VirtualBox interface.



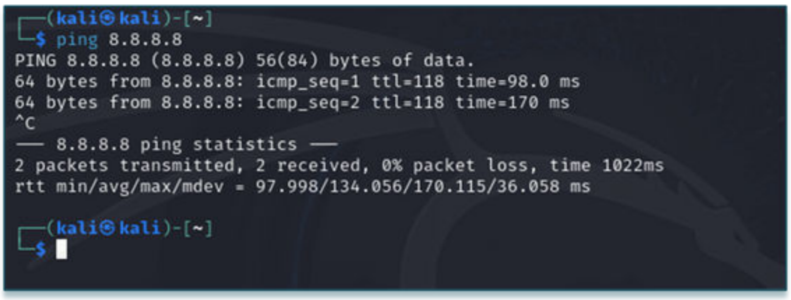
Name: Kali 2
Operating System: Ubuntu (64-bit)

Base Memory: 2048 MB
Boot Order: Floppy, Optical, Hard Disk
Acceleration: Nested Paging, KVM Paravirtualization

Video Memory: 16 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording: Disabled

Controller: IDE
IDE Secondary Device 0: [Optical Drive] kali-linux-2024.2-installer-amd64(1).iso (4.02 GB)

Once you have created your virtual machine, a simple way to test whether you have network and internet connectivity is to use the terminal (command prompt) to ping something on your network or an internet accessible IP address.



```
┌──(kali㉿kali)-[~]
└─$ ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=118 time=98.0 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=118 time=170 ms
^C
── 8.8.8.8 ping statistics ──
2 packets transmitted, 2 received, 0% packet loss, time 1022ms
rtt min/avg/max/mdev = 97.998/134.056/170.115/36.058 ms

┌──(kali㉿kali)-[~]
└─$ █
```

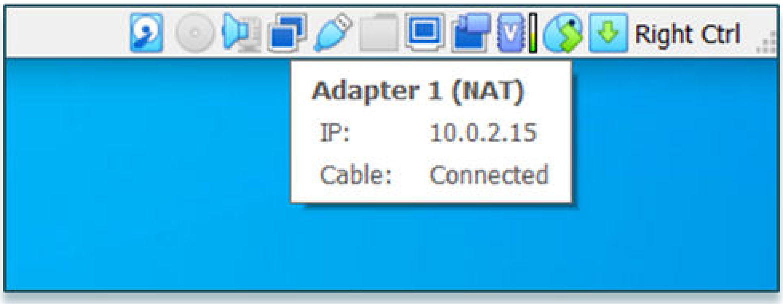
(Don’t forget, in Linux ping does not stop after 4 packets, to stop you will need to press CTRL+C)

When using virtual machines, you can select to use NAT (Network Address Translation) or bridged mode.

In NAT mode, the VM uses your computer's internet connection, like it's hiding behind your computer.

In bridged mode, the VM gets its own internet connection, just like any other computer in your house.

By default, most VMs use NAT; the main difference is that your VM will not get an IP address for the network your laptop is on due to it not being on that network. If you want your VM to get an IP address that you recognise as part of your network you will need to use bridged mode

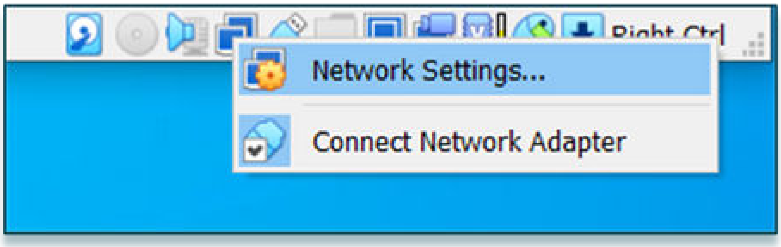


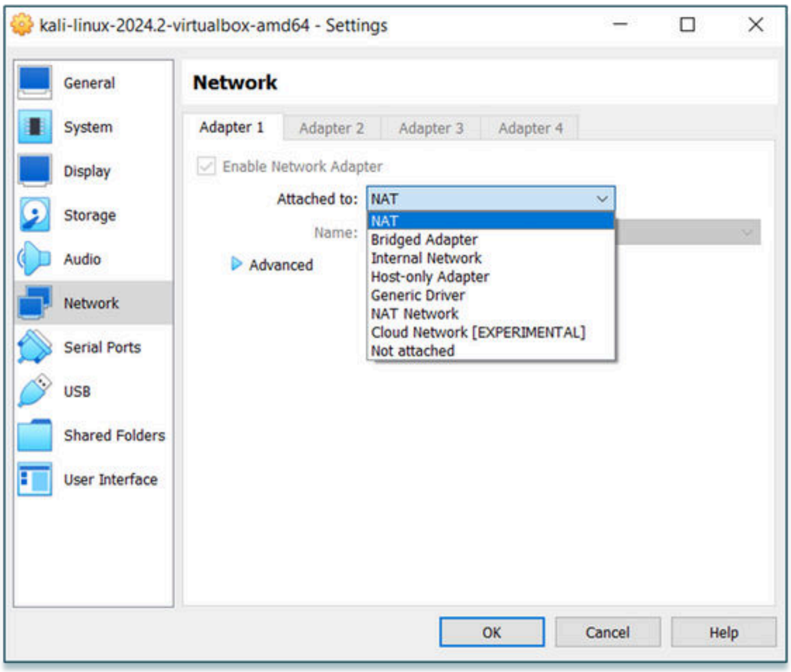
Adapter 1 (NAT)

IP: 10.0.2.15

Cable: Connected

VM is currently in NAT mode. By right clicking the icon of two computers, we get the option to look at the network settings





kali-linux-2024.2-virtualbox-amd64 - Settings

Network

☑ Enable Network Adapter

Attached to: NAT

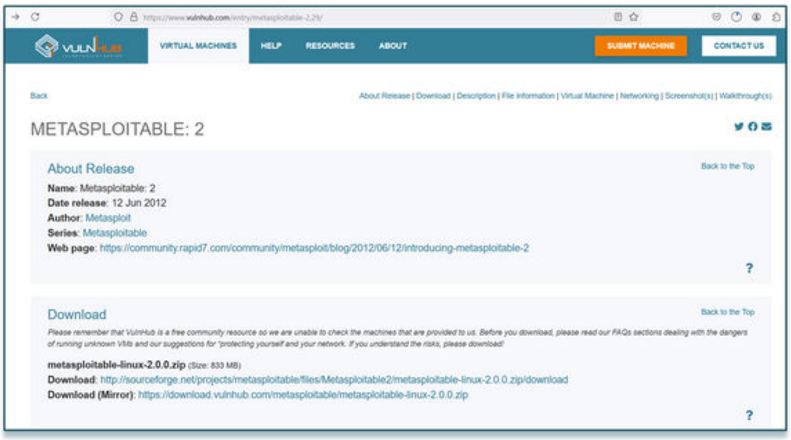
Name:

HOW TO CREATE A **TARGET MACHINE**

Now it's time to create a couple of target machines to practice against.

We are going to use Metasploitable 2 (an old and well documented vulnerable machine so there are plenty of walkthroughs online if you get stuck).

First of all, navigate to https://www.vulnhub.com/entry/metasploitable-2,29/ and download the virtual machine.


https://www.vulnhub.com/entry/metasploitable-2,29/
VULNHUB
VIRTUAL MACHINES
HELP
RESOURCES
ABOUT
SUBMIT MACHINE
CONTACT US
Back
About Release | Download | Description | File Information | Virtual Machine | Networking | Screenshot(s) | Walkthrough(s)
Back to the Top
?

METASPLOITABLE: 2

About Release

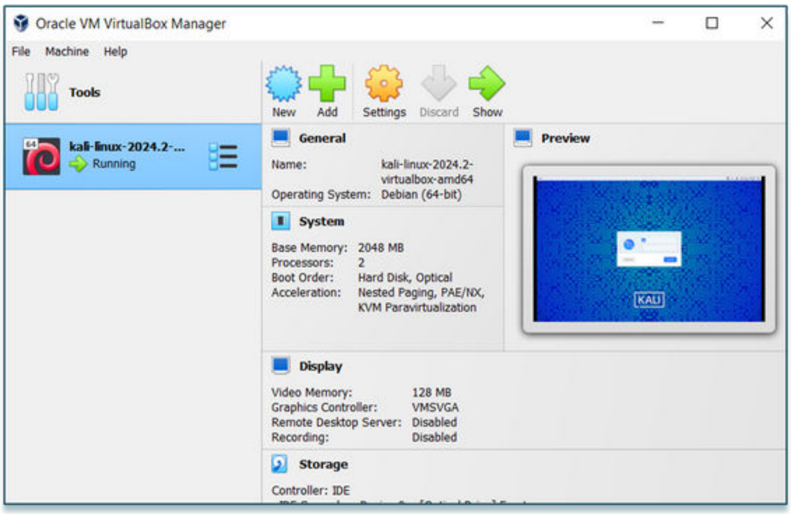
Name: Metasploitable: 2
Date release: 12 Jun 2012
Author: Metasploit
Series: Metasploitable
Web page: https://community.rapid7.com/community/metasploit/blog/2012/06/12/introducing-metasploitable-2

Download

Please remember that VulnHub is a free community resource so we are unable to check the machines that are provided to us. Before you download, please read our FAQs sections dealing with the dangers of running unknown VMs and our suggestions for "protecting yourself and your network. If you understand the risks, please download!

metasploitable-linux-2.0.0.zip (Size: 833 MB)
Download: http://sourceforge.net/projects/metasploitable/files/Metasploitable2/metasploitable-linux-2.0.0.zip/download
Download (Mirror): https://download.vulnhub.com/metasploitable/metasploitable-linux-2.0.0.zip

This will download a zipped VDI file (Virtual Disk Image) – essentially the hard drive of a machine, rather than the whole virtual machine. This means that we have to set up a VM and then provide this file as the 'hard drive' to be used. Go to your VirtualBox manager interface.



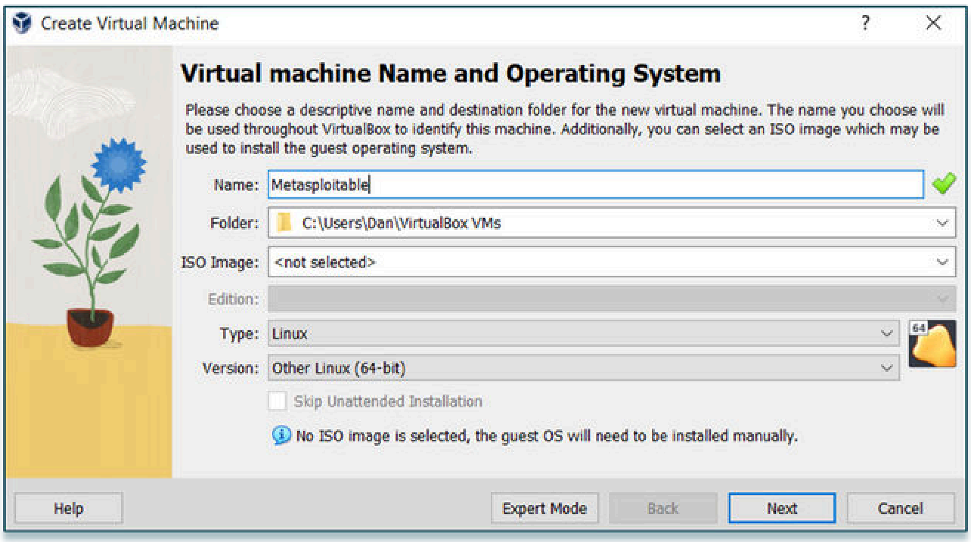
General
Name: kali-linux-2024.2-virtualbox-amd64
Operating System: Debian (64-bit)

System
Base Memory: 2048 MB
Processors: 2
Boot Order: Hard Disk, Optical
Acceleration: Nested Paging, PAE/NX, KVM Paravirtualization

Display
Video Memory: 128 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording: Disabled

Storage
Controller: IDE

Click **New** and **Name** the virtual machine what ever you choose. Then set the **Type** to **Linux** and **Version** to **Other Linux (64-bit)**.



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: Metasploitable

Folder: C:\Users\Dan\VirtualBox VMs

ISO Image: <not selected>

Edition:

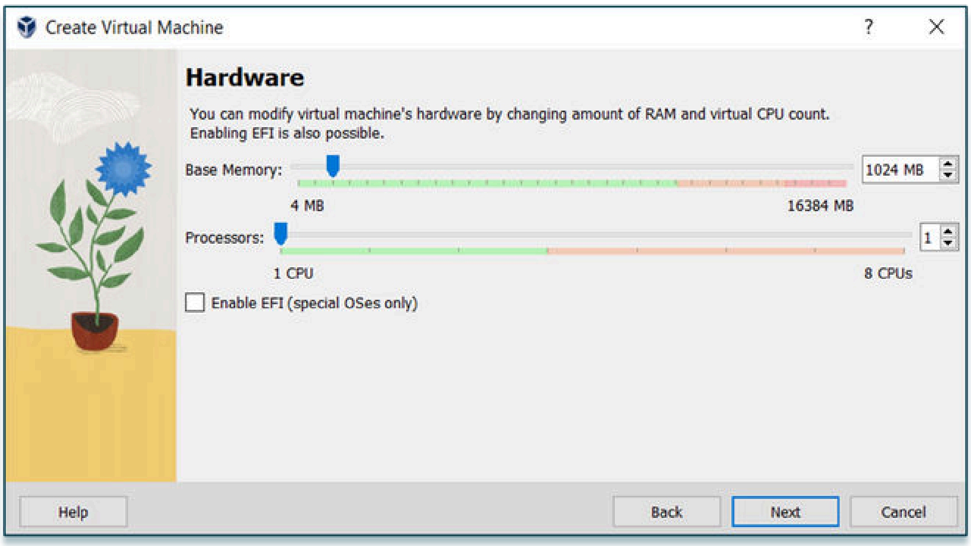
Type: Linux

Version: Other Linux (64-bit)

□ Skip Unattended Installation

No ISO image is selected, the guest OS will need to be installed manually.

Next you will configure how much RAM you want to assign to this virtual machine (1GB should be plenty).



Create Virtual Machine

Hardware

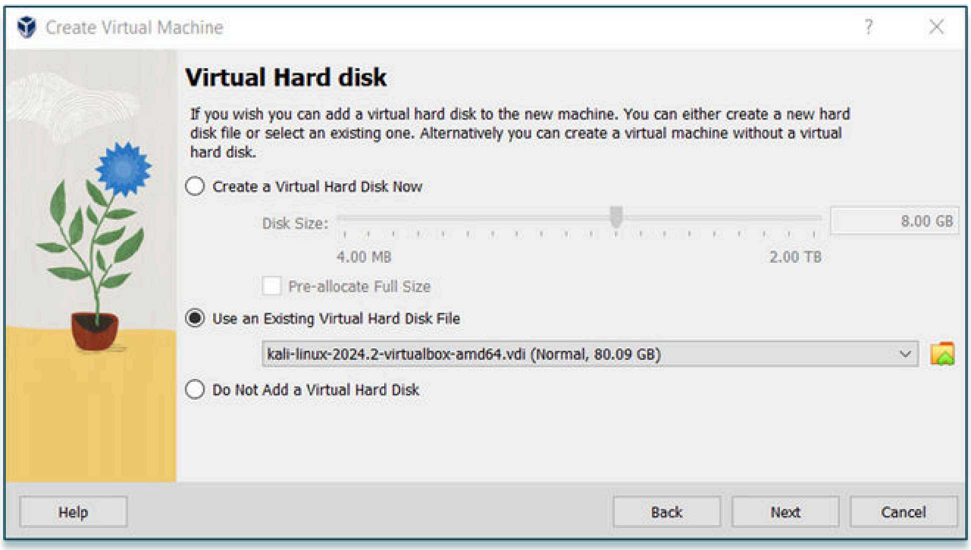
You can modify virtual machine's hardware by changing amount of RAM and virtual CPU count. Enabling EFI is also possible.

Base Memory: 1024 MB (4 MB – 16384 MB)

Processors: 1 (1 CPU – 8 CPUs)

□ Enable EFI (special OSes only)

Then you will select the hard disk, choose the option **Use an Existing Virtual Hard Disk File** and click the **Folder** icon.



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: 8.00 GB (4.00 MB – 2.00 TB)

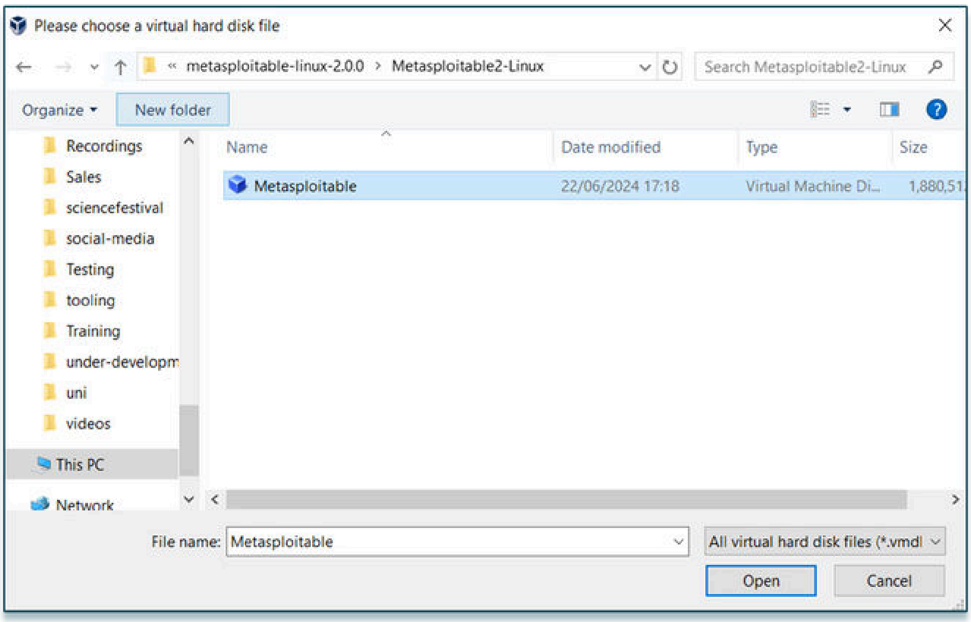
□ Pre-allocate Full Size

● Use an Existing Virtual Hard Disk File

kali-linux-2024.2-virtualbox-amd64.vdi (Normal, 80.09 GB)

○ Do Not Add a Virtual Hard Disk

Choose to **Add** a hard disk and then navigate to your Metasploitable download (make sure you have unzipped the file) and hit **Open**, then **Choose**.



Please choose a virtual hard disk file

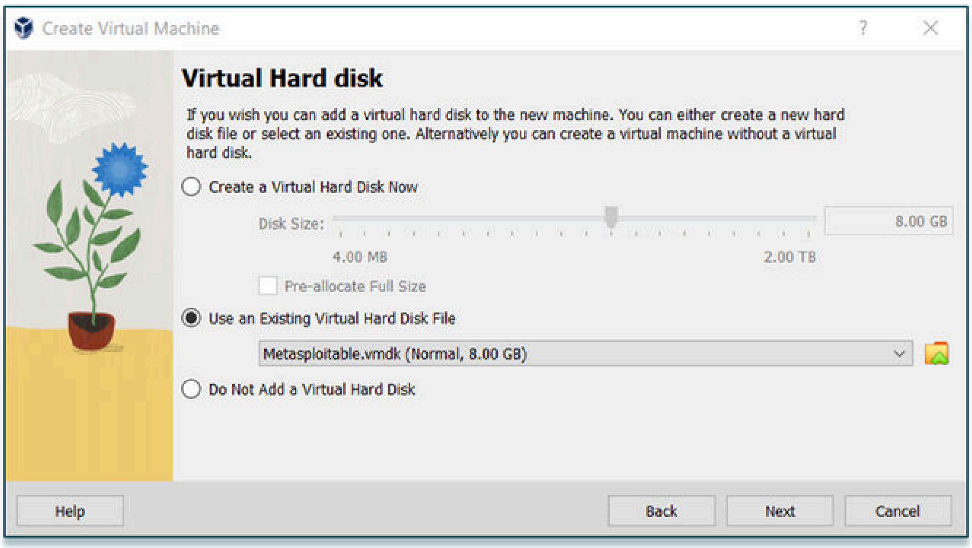
« metasploitable-linux-2.0.0 › Metasploitable2-Linux

Name	Date modified	Type	Size
Metasploitable	22/06/2024 17:18	Virtual Machine Di...	1,880,51

File name: Metasploitable

All virtual hard disk files (*.vmdl

Then you will select the hard disk, choose the option **Use an Existing Virtual Hard Disk File** and click the **Folder** icon.



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: 8.00 GB

4.00 MB — 2.00 TB

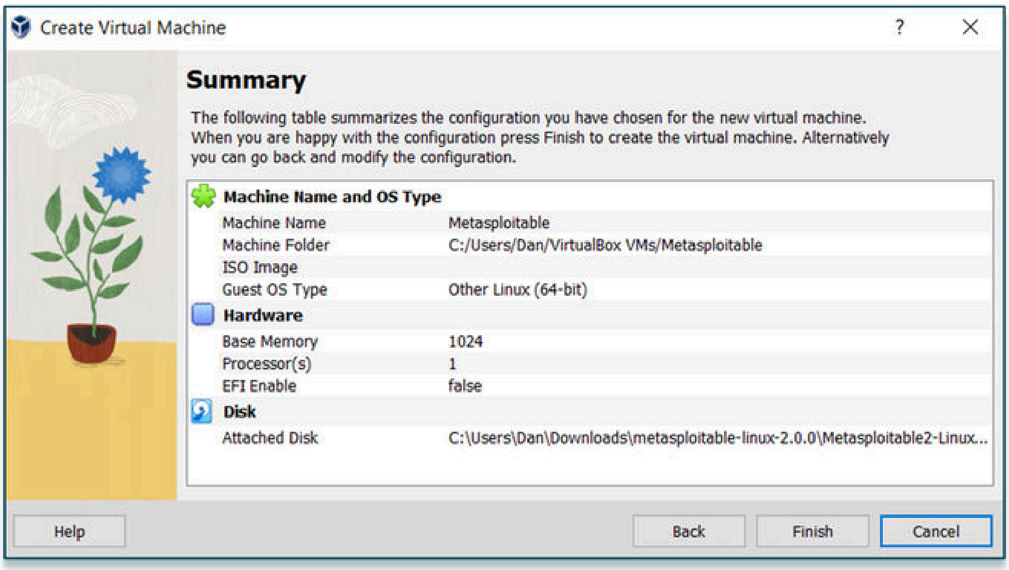
□ Pre-allocate Full Size

● Use an Existing Virtual Hard Disk File

Metasploitable.vmdk (Normal, 8.00 GB)

○ Do Not Add a Virtual Hard Disk

Hit **Next**. Then at the following screen, hit **Finish**



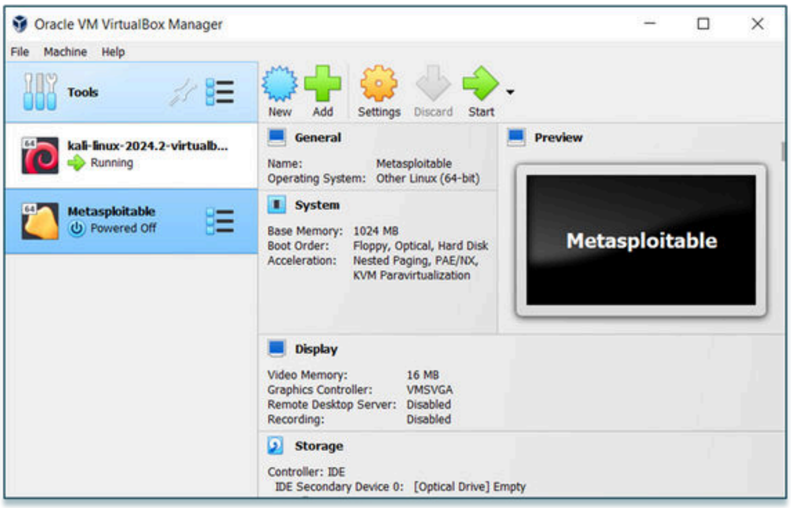
Create Virtual Machine

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	Metasploitable
Machine Folder	C:/Users/Dan/VirtualBox VMs/Metasploitable
ISO Image	
Guest OS Type	Other Linux (64-bit)
Hardware	
Base Memory	1024
Processor(s)	1
EFI Enable	false
Disk	
Attached Disk	C:\Users\Dan\Downloads\metasploitable-linux-2.0.0\Metasploitable2-Linux...

Metasploitable is now available from VirtualBox and can be turned on (if you need to log into the machine the credentials are **msfadmin:msfadmin**).



kali-linux-2024.2-virtualb...
Running

Metasploitable
Powered Off

General

Name: Metasploitable
Operating System: Other Linux (64-bit)

System

Base Memory: 1024 MB
Boot Order: Floppy, Optical, Hard Disk
Acceleration: Nested Paging, PAE/NX, KVM Paravirtualization

Display

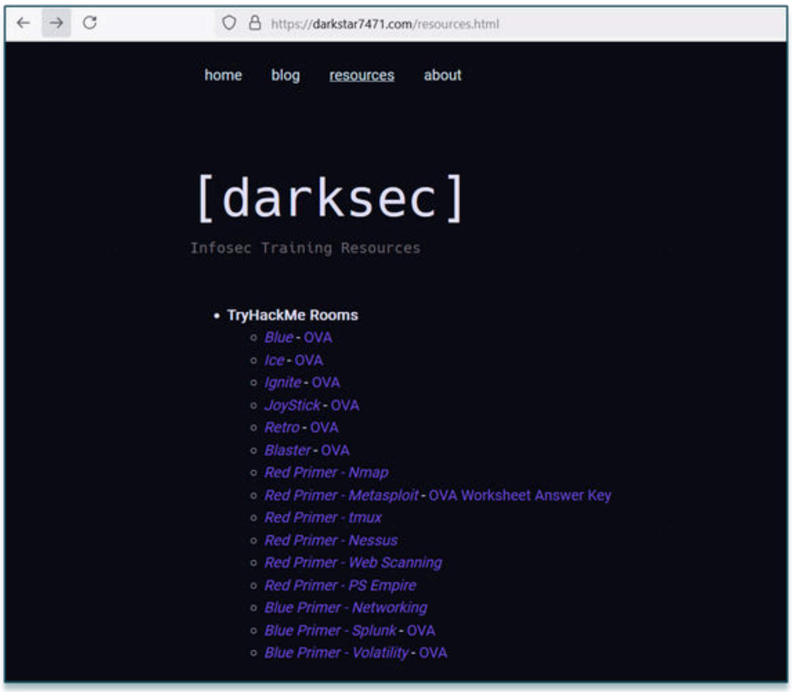
Video Memory: 16 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording: Disabled

Storage

Controller: IDE
IDE Secondary Device 0: [Optical Drive] Empty

To have a Windows machine to test against, we will use the machine **Blue** from **Hack The Box**. This is a commonly used vulnerable Windows machine, again with plenty of write ups available across the internet in case you get stuck.

To get started, download **Blue** from https://darkstar7471.com/resources.html by choosing the **OVA** link next to Blue.



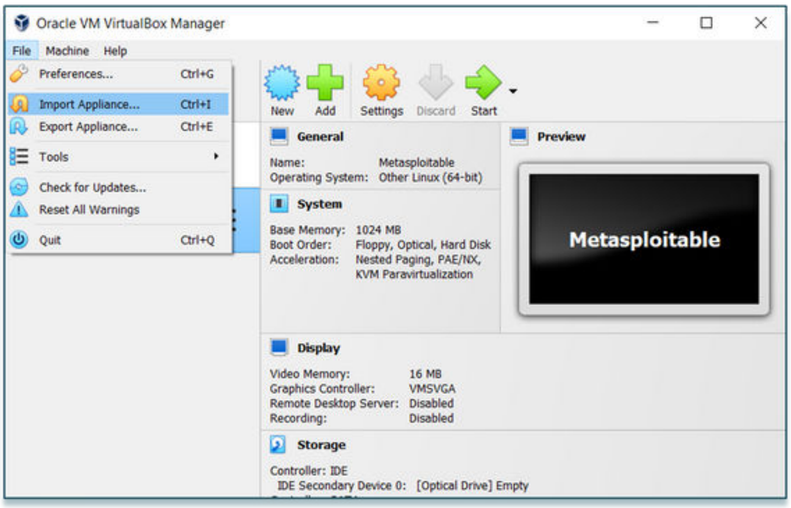
[darksec]

Infosec Training Resources

- TryHackMe Rooms
  - Blue - OVA
  - Ice - OVA
  - Ignite - OVA
  - JoyStick - OVA
  - Retro - OVA
  - Blaster - OVA
  - Red Primer - Nmap
  - Red Primer - Metasploit - OVA Worksheet Answer Key
  - Red Primer - tmux
  - Red Primer - Nessus
  - Red Primer - Web Scanning
  - Red Primer - PS Empire
  - Blue Primer - Networking
  - Blue Primer - Splunk - OVA
  - Blue Primer - Volatility - OVA

This will download a zip file that contains the prebuilt VM called **CTF - Win7**.

We can now import this file into VirtualBox as an appliance, by navigating to **File**, **Import Appliance**.



General

Name: Metasploitable
Operating System: Other Linux (64-bit)

System

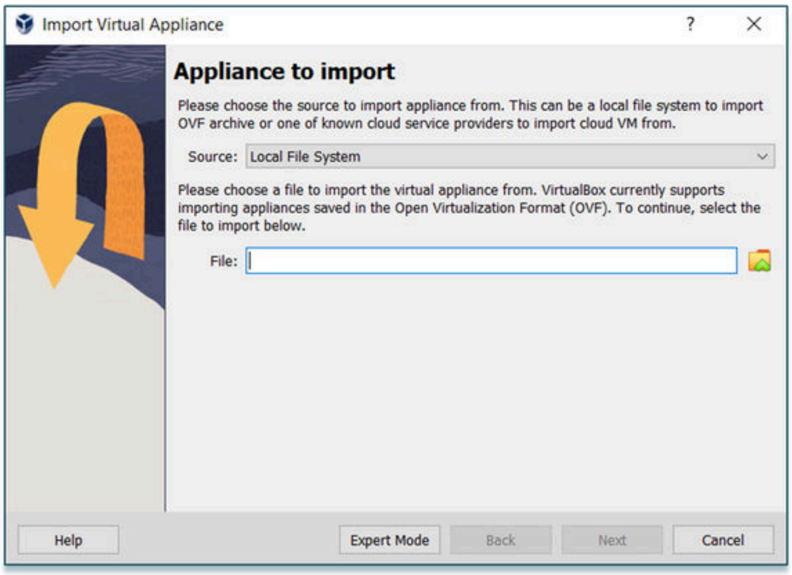
Base Memory: 1024 MB
Boot Order: Floppy, Optical, Hard Disk
Acceleration: Nested Paging, PAE/NX, KVM Paravirtualization

Display

Video Memory: 16 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording: Disabled

Storage

Controller: IDE
IDE Secondary Device 0: [Optical Drive] Empty



Appliance to import

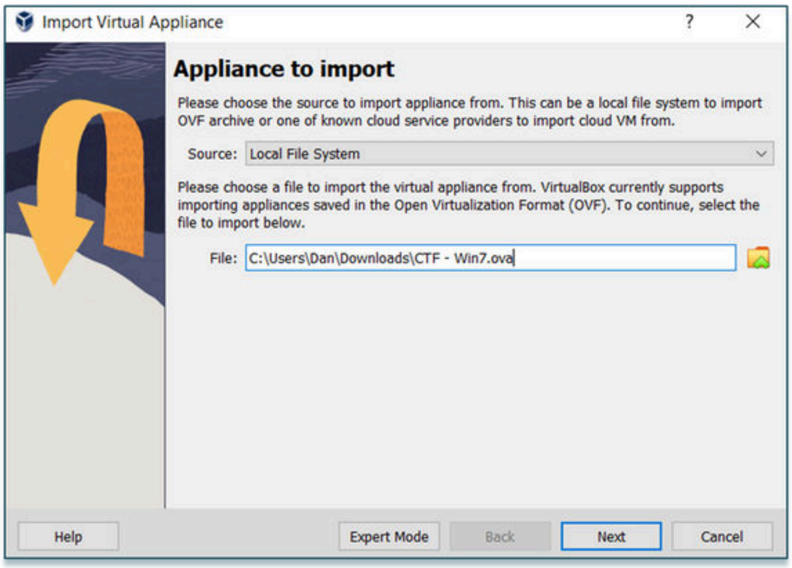
Please choose the source to import appliance from. This can be a local file system to import OVF archive or one of known cloud service providers to import cloud VM from.

Source: Local File System

Please choose a file to import the virtual appliance from. VirtualBox currently supports importing appliances saved in the Open Virtualization Format (OVF). To continue, select the file to import below.

File:

From here, we simply select the **CTF – Win 7 OVA** file and hit **Next**



Appliance to import

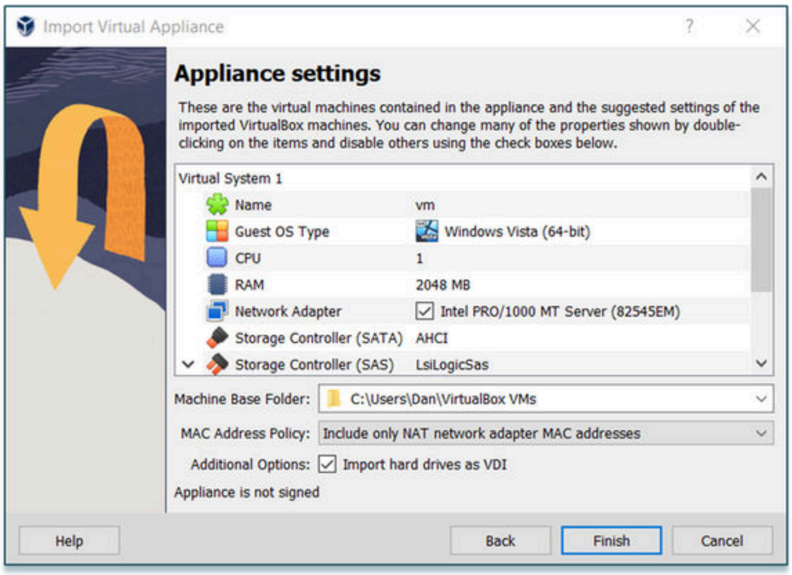
Please choose the source to import appliance from. This can be a local file system to import OVF archive or one of known cloud service providers to import cloud VM from.

Source: Local File System

Please choose a file to import the virtual appliance from. VirtualBox currently supports importing appliances saved in the Open Virtualization Format (OVF). To continue, select the file to import below.

File: C:\Users\Dan\Downloads\CTF - Win7.ova

Then **Finish**



Appliance settings

These are the virtual machines contained in the appliance and the suggested settings of the imported VirtualBox machines. You can change many of the properties shown by double-clicking on the items and disable others using the check boxes below.

Virtual System 1

Name	vm
Guest OS Type	Windows Vista (64-bit)
CPU	1
RAM	2048 MB
Network Adapter	☑ Intel PRO/1000 MT Server (82545EM)
Storage Controller (SATA)	AHCI
Storage Controller (SAS)	LsiLogicSas

Machine Base Folder: C:\Users\Dan\VirtualBox VMs

MAC Address Policy: Include only NAT network adapter MAC addresses

Additional Options: ☑ Import hard drives as VDI

Appliance is not signed

To be able to scan both the Metasploitable and Blue VMs, make sure that they are both set to **Bridged Mode** so that they are given an IP address on your network.

Congratulations - you’ve now set up your very own lab environment with VirtualBox!

By following this guide, you've taken an important step towards becoming a proficient penetration tester.

Your new lab provides a safe space to explore, test, and refine your skills without the risk of causing harm to live systems.

Remember, the world of cybersecurity is vast and ever evolving.

Use your lab environment to continuously practice and stay up to date with the latest tools and techniques.

And don’t forget to keep an eye out for future guides, on adding more functionality to your lab environment.

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Our trainers have over 12 years experience creating and delivering training courses that get results

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