WEB SECURITY: DVWA – VULNERABLE WEB APPLICATION

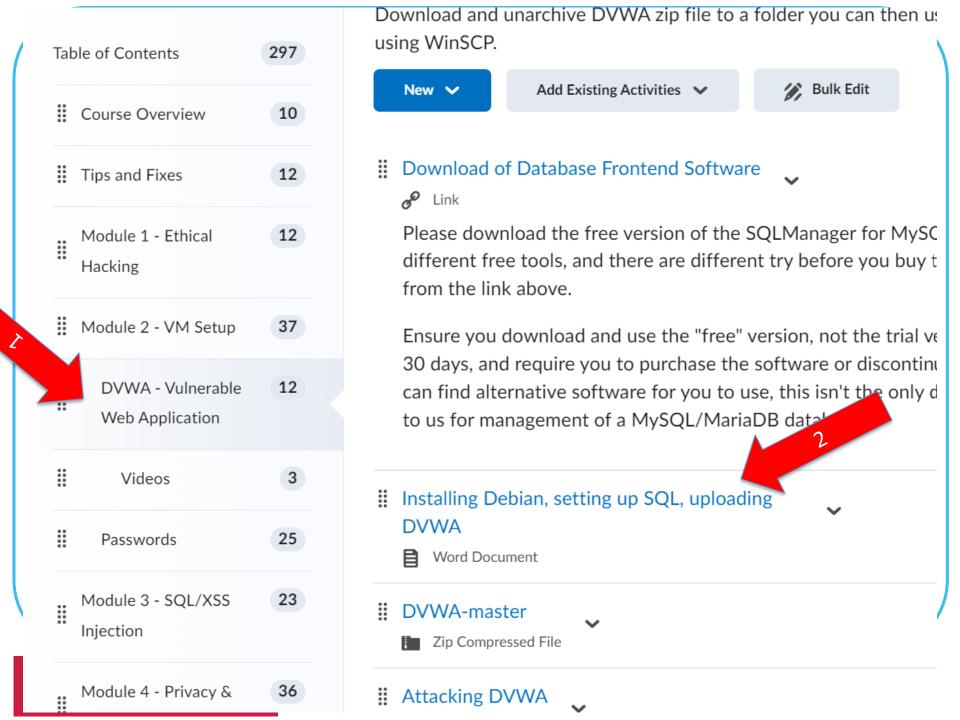
RRC Polytech
Full Stack Web Development
Winnipeg, MB Canada



Motivation

➤ Hackers are (or could be) actually good, pleasant and extremely intelligent people who could keep computer criminals on the run (run away, escaping).

Ankit Fadia



Download Software from the Following Links

Download the following files:

SQL Manager:

https://www.sglmanager.net/tools/free

-> For MySQL (https://www.sqlmanager.net/products/mysql/manager/download/128)

VirtualBox VM Client:

https://www.virtualbox.org/wiki/Downloads

-> Windows hosts (https://download.virtualbox.org/virtualbox/6.1.30/VirtualBox-6.1.30-148432- Win.exe)

Linux OS - Debian Distribution:

https://www.debian.org/distrib/

-> Smaller net install ISO is fine: https://www.debian.org/distrib/netinst (Choose your processor architecture link from there)

Kali (Linux) OS:

https://cdimage.kali.org/kali-2021.4a/kali-linux-2021.4a-installer-amd64.iso



Install VirtualBox VM

- > Download the Word document
- ➤ Install VirtualBox

Download VirtualBox VM

₩ VirtualBox

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Documentation

Community



Search:

Download VirtualBox

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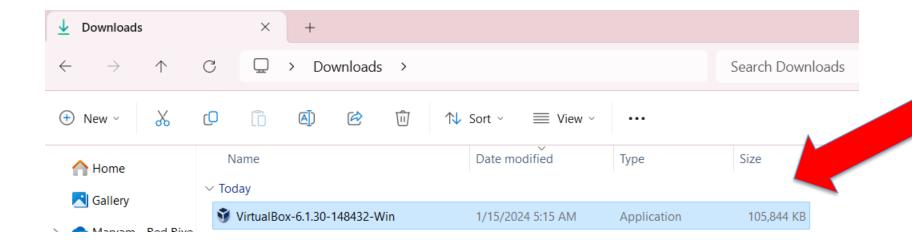




Download Virtualbox

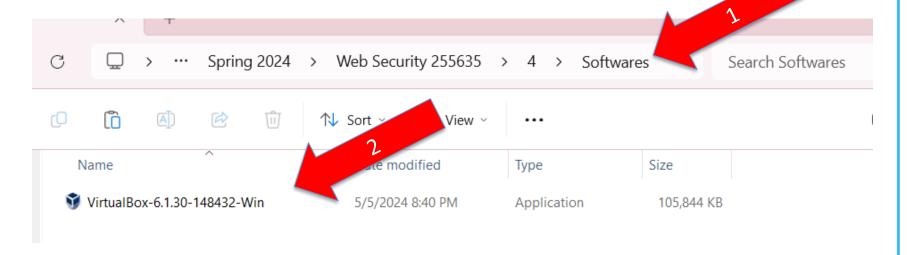
- ➤ Installing virtualbox
 - Google > virtualbox download
 - Click on the second link "Downloading Debian"
 - VirtualBox 7.1.4 platform packages Windows hosts -
 - > the latest VirtualBox

Download VirtualBox- 6.1.30 (7.1.4)



Create a folder, rename it as "Softwares"

➤ Paste all your Web Security Software in this folder



Download Debian

- **>** Google
- ➤ Type: download debian

Download Debian

- ➤ Installing Debian
 - Google > Debian download
 - Click on the second link "Downloading Debian"
 - This is Debian 12 for 64-bit PC (amd64) Debian 12.8.0 amd64-netinst.iso. - > the latest Debian

Downloading Debian

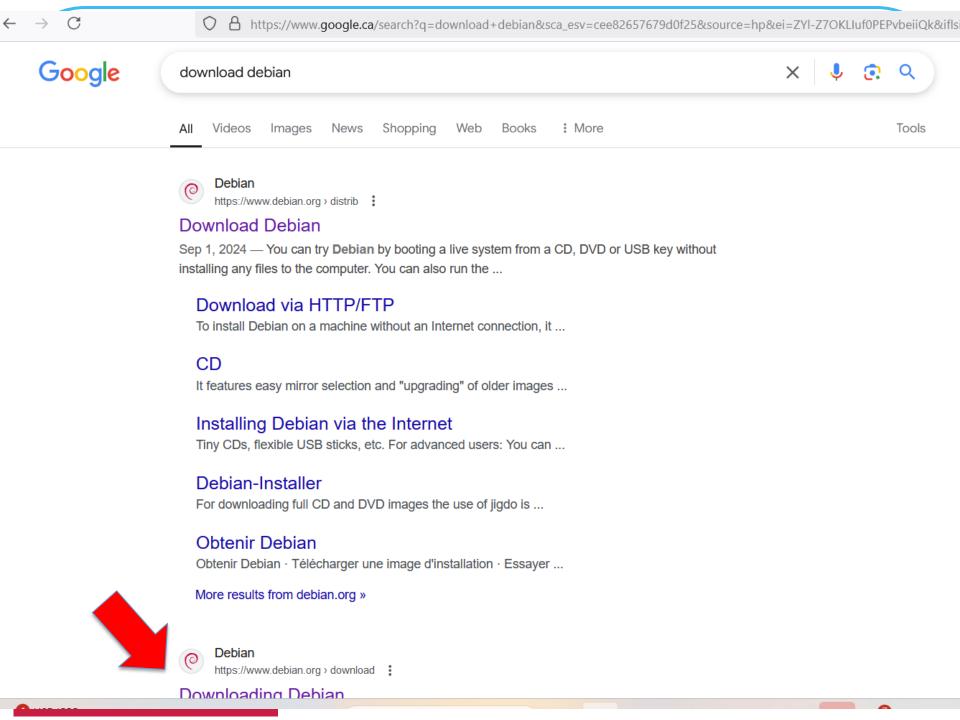
This is Debian 12, codenamed bookworm, netinst, for 64-bit PC (amd64) debian-12.4.0-amd64-netinst.iso.

Download checksum: SHA512SUMS Signature



Important: Make sure to verify your download with the checksum.





Use the Second Link for Downloading Debian

> Use the second link:

Installing Debian via the Internet

Tiny CDs, flexible USB sticks, etc. For advanced users: You can ...

Debian-Installer

For downloading full CD and DVD images the use of jigdo is ...

Obtenir Debian

Obtenir Debian · Télécharger une image d'installation · Essayer ...

More results from debian.org »



Debian

https://www.debian.org > download :

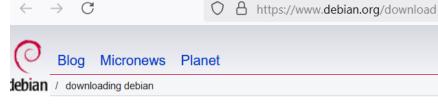
Downloading Debian

May 21, 2024 — **Debian** installer ISOs are hybrid images, which means they can be written directly to CD/DVD/BD media OR to USB sticks. Other Installers.

Download an installation image · Debian CD FAQ · Verifying authenticity



Download Debian with the postfix "-amd64-netinst.iso"



Downloading Debian

This is Debian 12, codenamed bookworm, netinst, for 64-bit PC (amd64) debian-12.8.0-amd64-netinst.iso.

Download checksum: SHA512SUMS Signature

Debian installer ISOs are hybrid images, which means they can be written directly to CD/DVD/BD media OR to <u>USB sticks</u>.

Other Installers

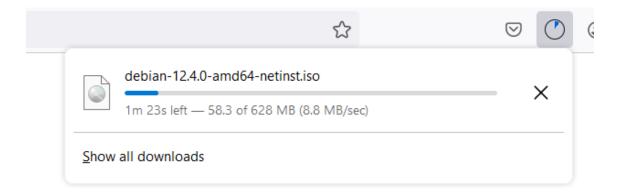
Other installers and images, such as live systems, offline installers for systems without a network connection, installers for other CPU architectures, or

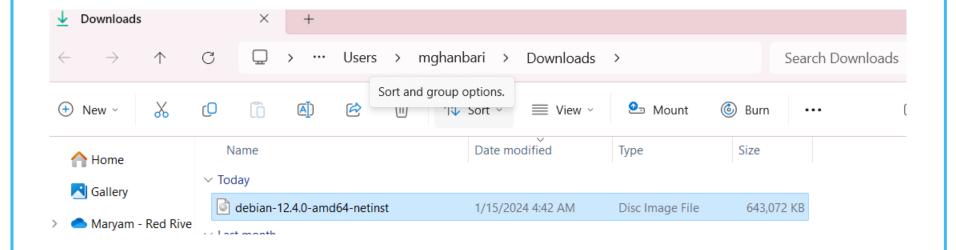
Related Links

Installation Guide

Release Notes



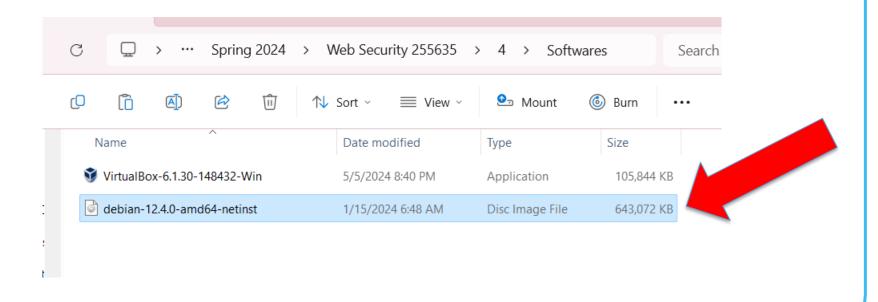




Download Debian

- ➤ Google:
 - Downloading Debian



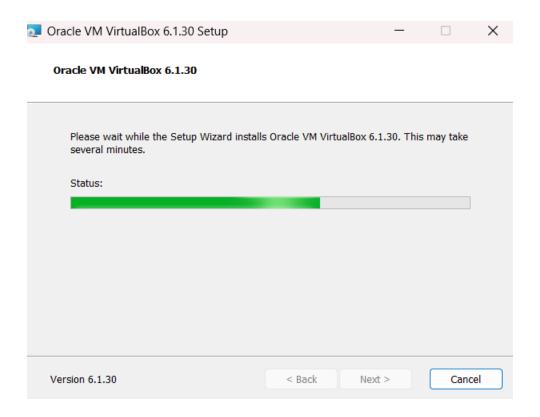


Installing Virtual Box

VirtualBox



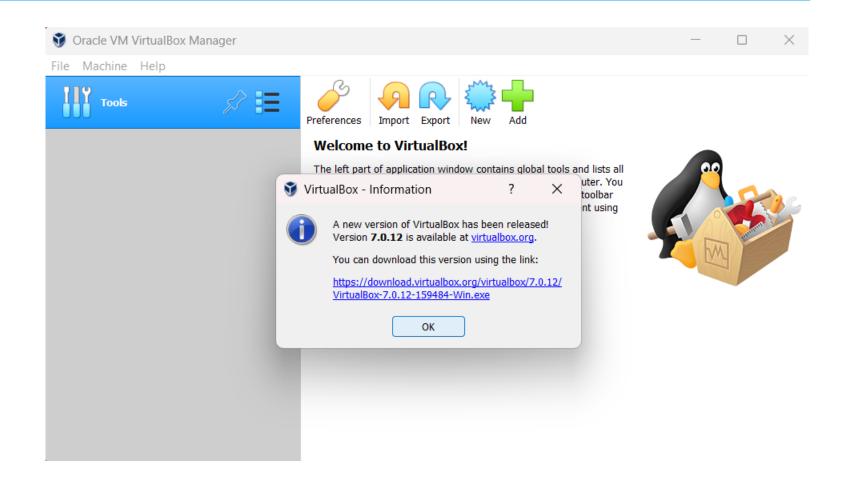
VirtualBox



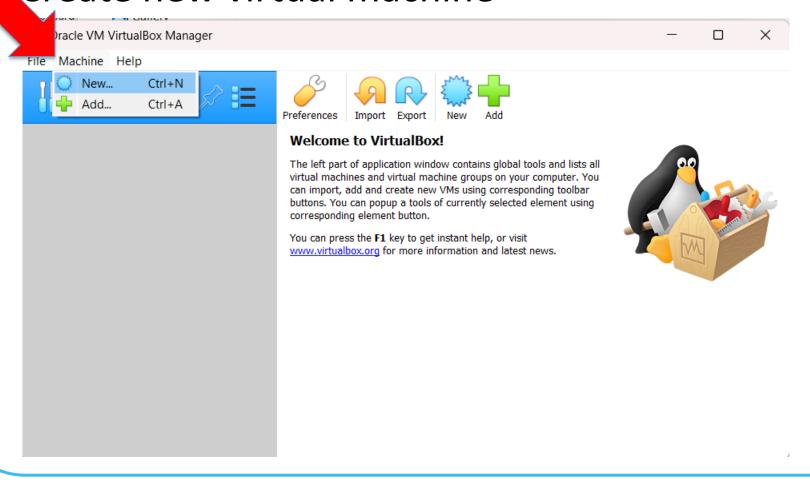
VirtualBox

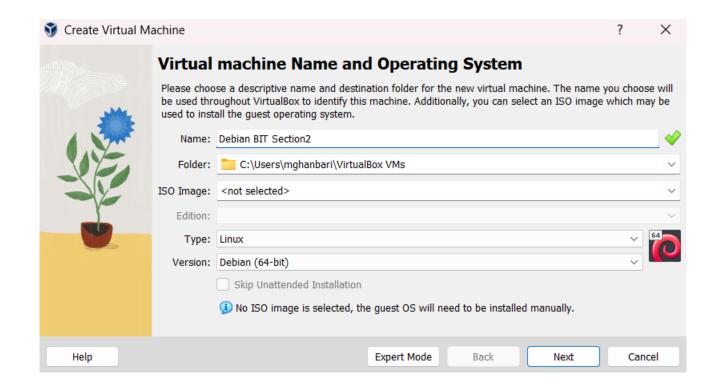


Installing Debian

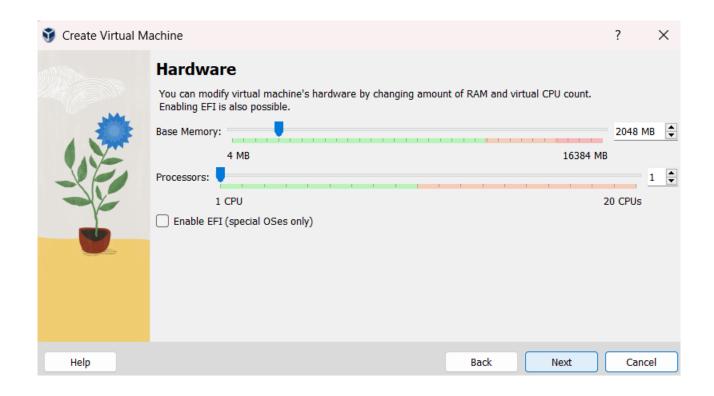


Create new virtual machine

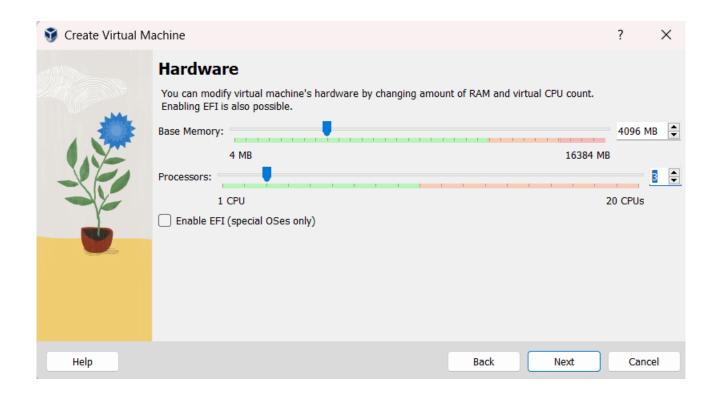


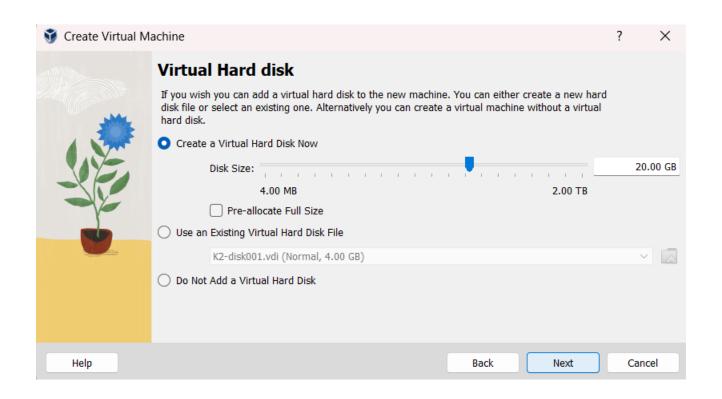


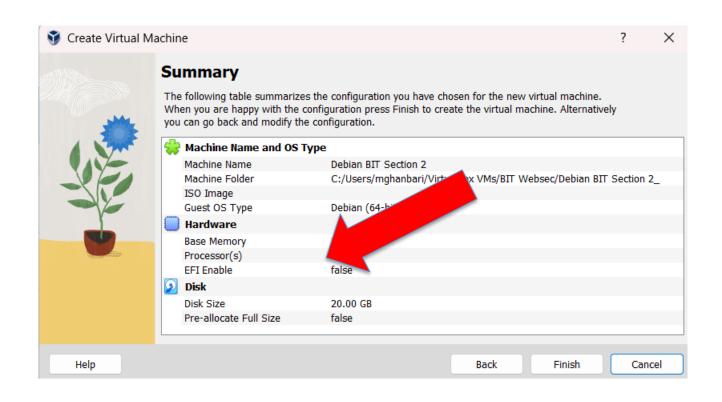
Error



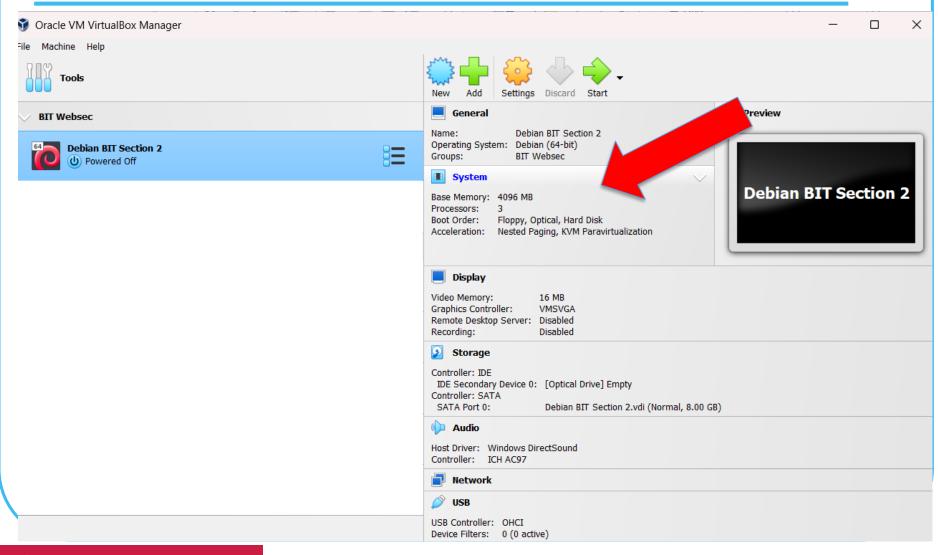
Maryam Computer



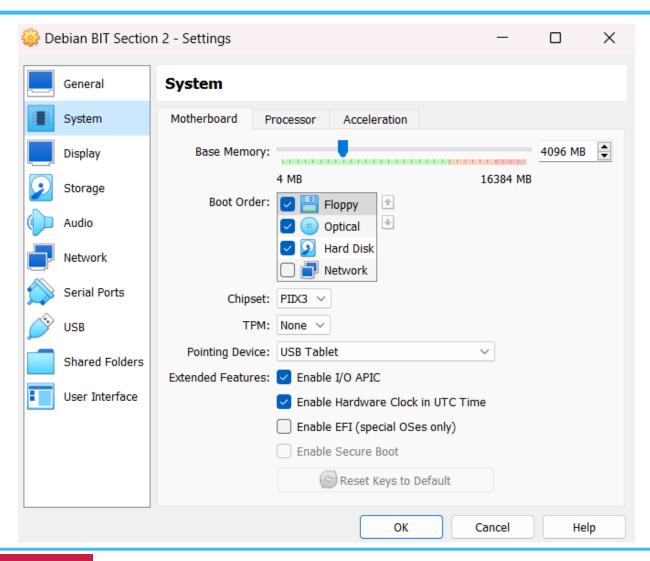




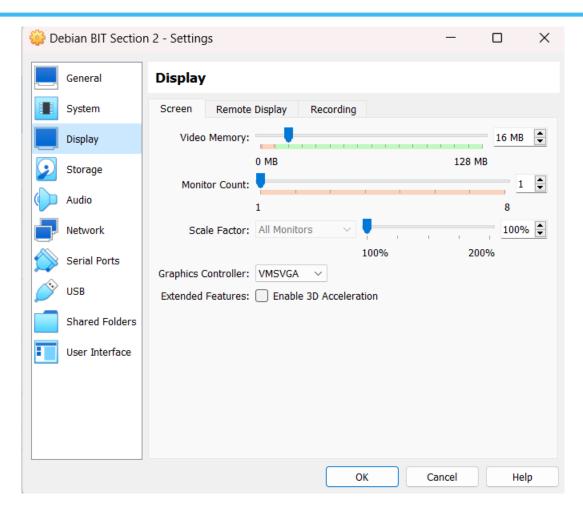
Setup Debian



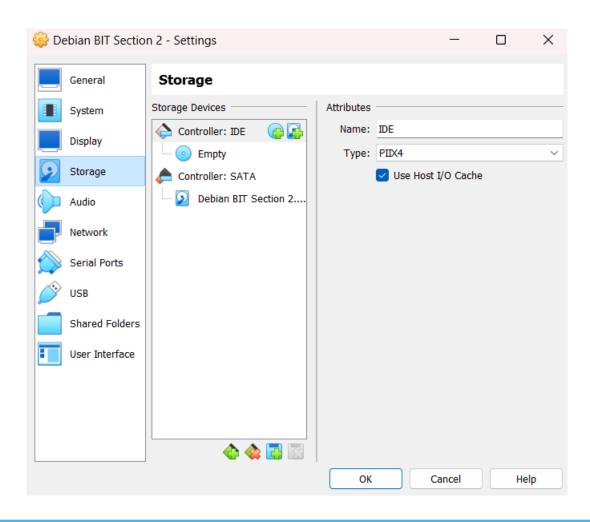
Debian -> System



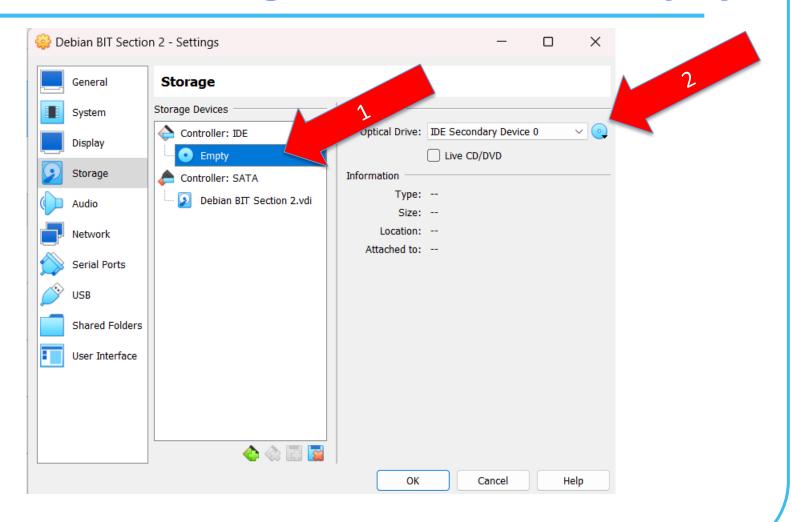
Debian -> Display



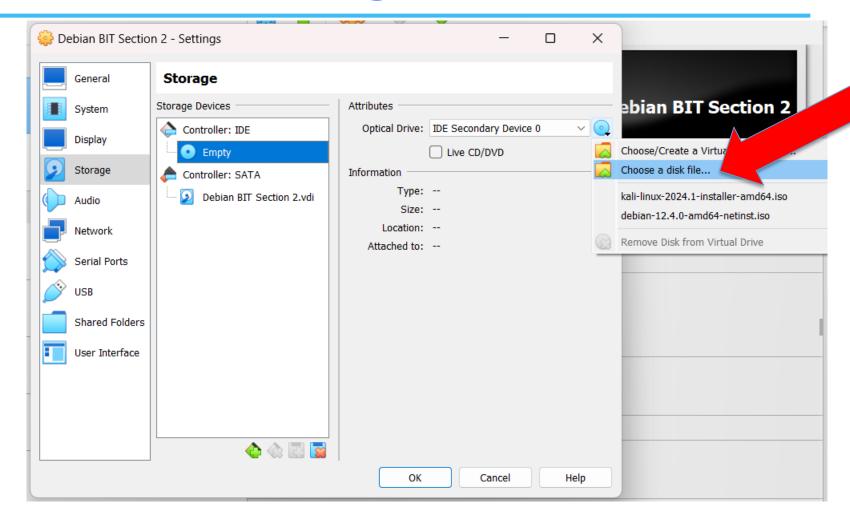
Debian -> Storage (we modify it)

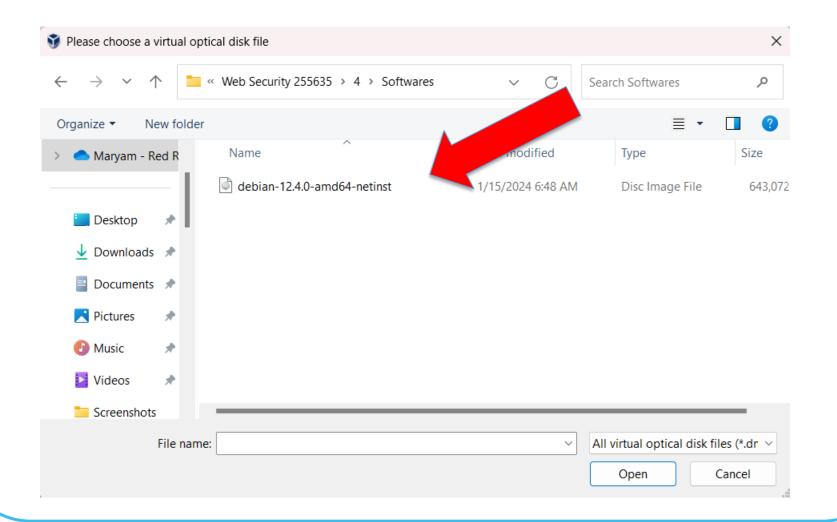


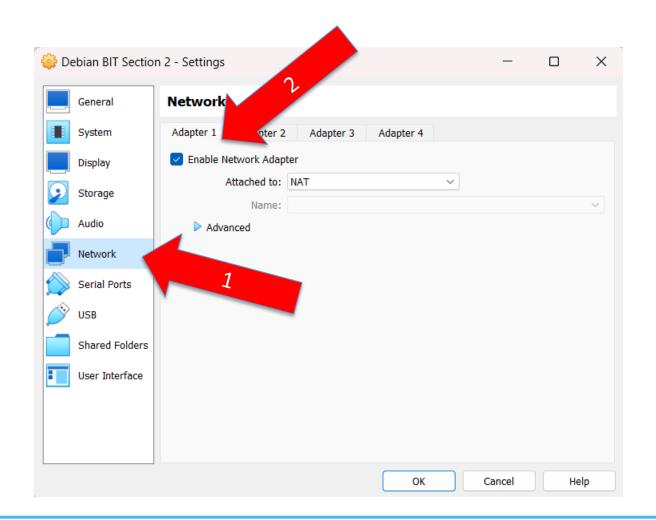
Debian -> Storage -> click on empty

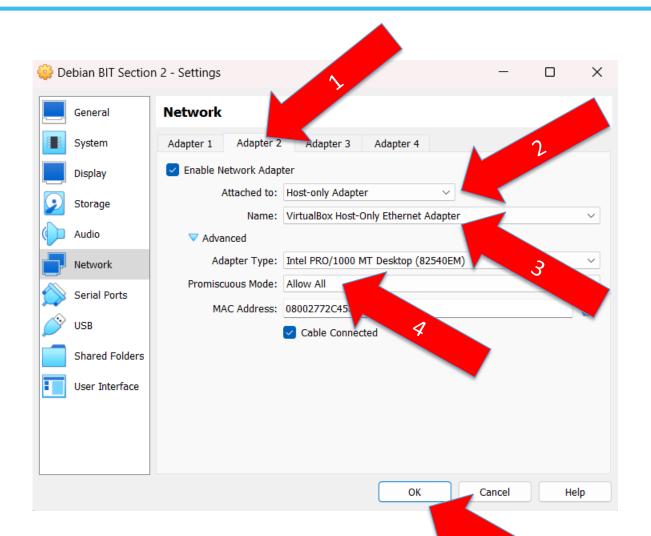


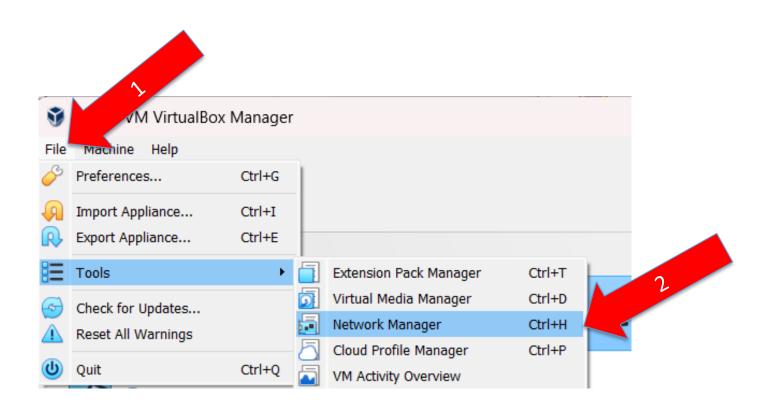
Debian -> Storage ->

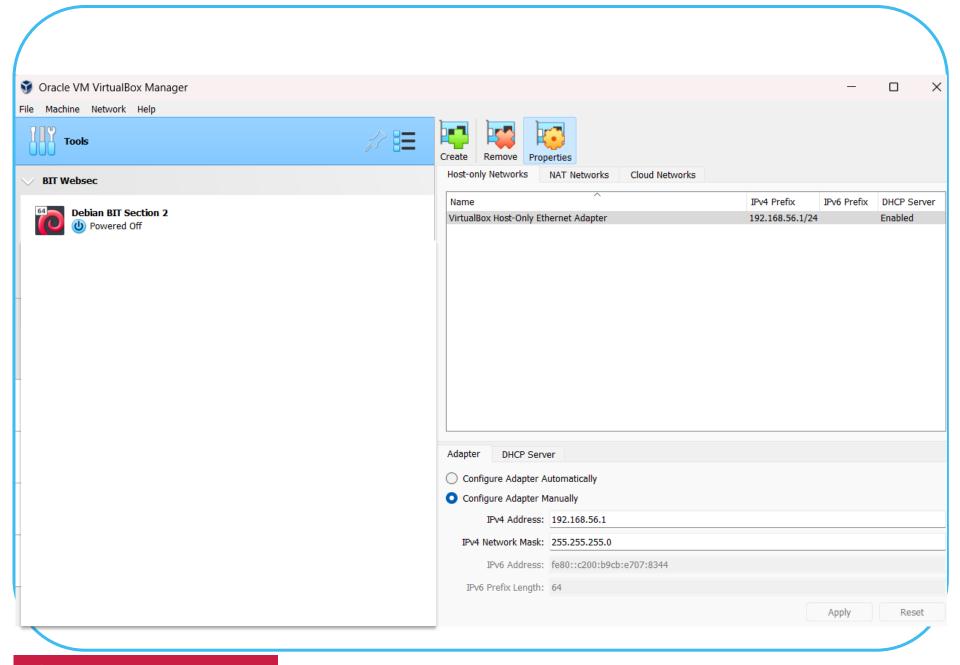


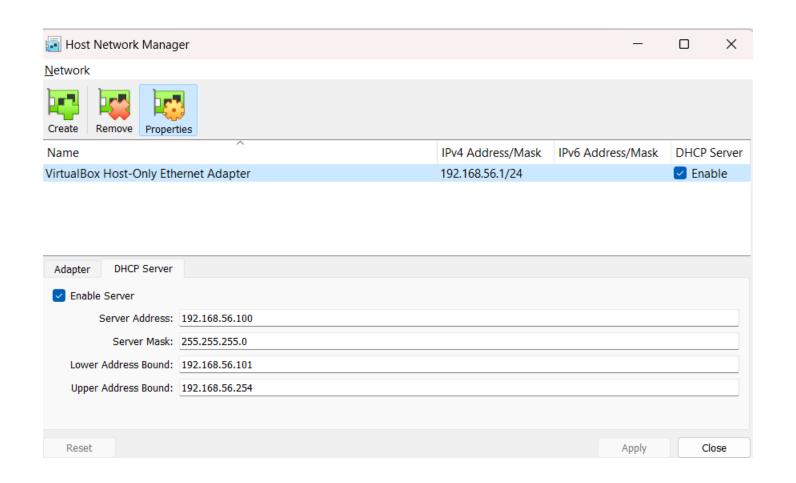




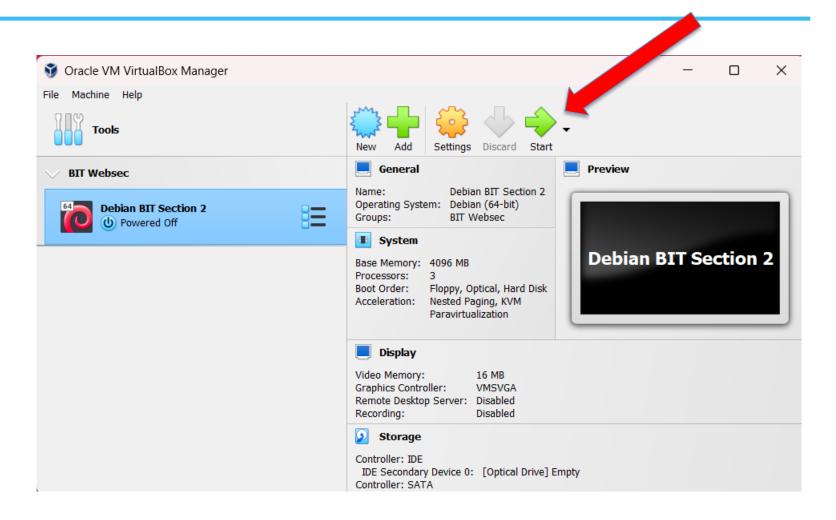




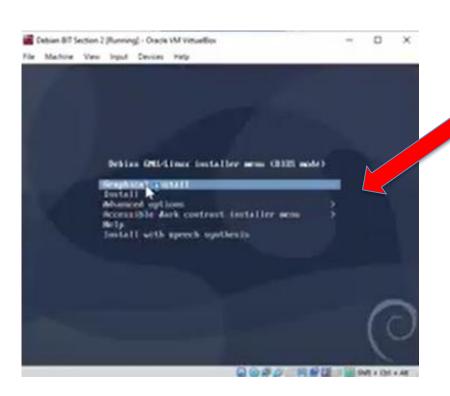




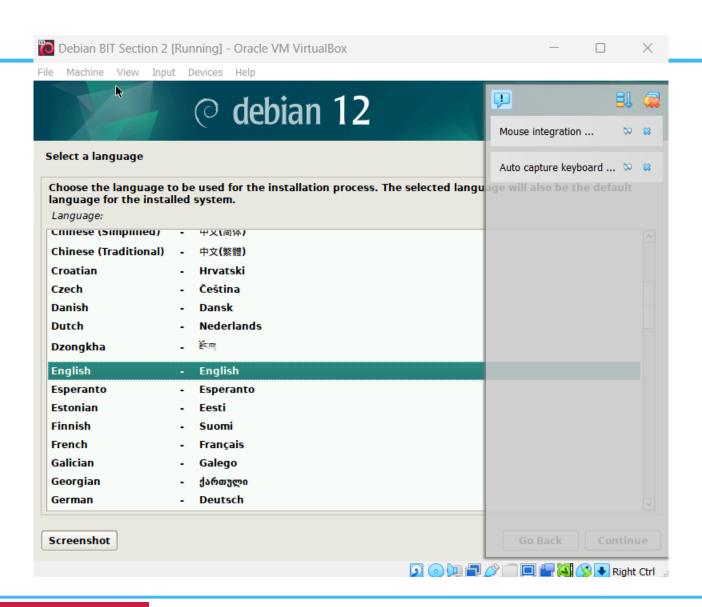
Debian







Graphical Install

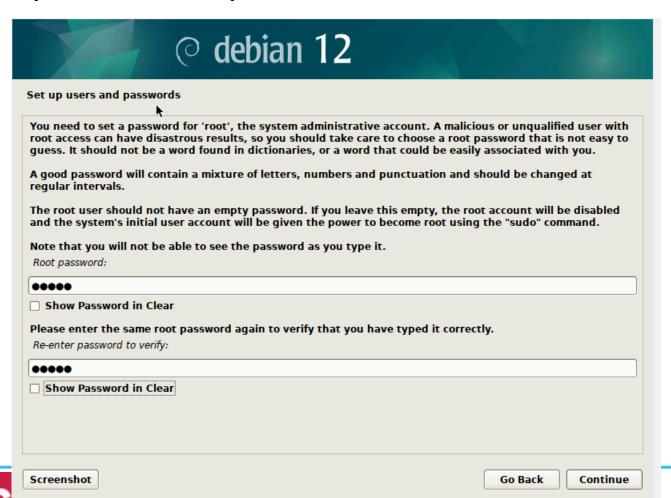


- > Canada
- > American English
- ➤ Configure the Network: First
 - NAT
- ➤ Name: deb
- ➤ Domain name: opsys.bit
- ➤ Password: password



Root Password: password

Root password : password



⊘ debian 12 Set up users and passwords A user account will be created for you to use instead of the root account for non-administrative activities. Please enter the real name of this user. This information will be used for instance as default origin for emails sent by this user as well as any program which displays or uses the user's real name. Your full name is a reasonable choice. Full name for the new user: maryam Screenshot Go Back Continue

➤ Root Password: password

> User password: admin



- Canada Time Zone: central
- Guided partitioning: first (use entire disk)
- ➤ Default Continue
- > First: Default Continue (All files in one partition)
- ➤ Default Continue
- ➤ Partitioning: yes
- > CD or DVD: no
- ➤ Package manager: Canada



- ➤ Configure the package manager
 - ftp.ca.Debian.org

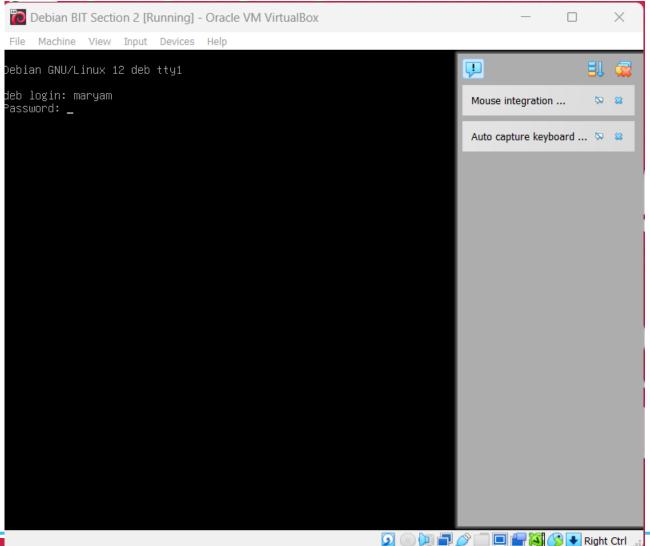
- > (empty) Continue
- > No

➤ Select the last two check box (SSH, Standard system utilities)

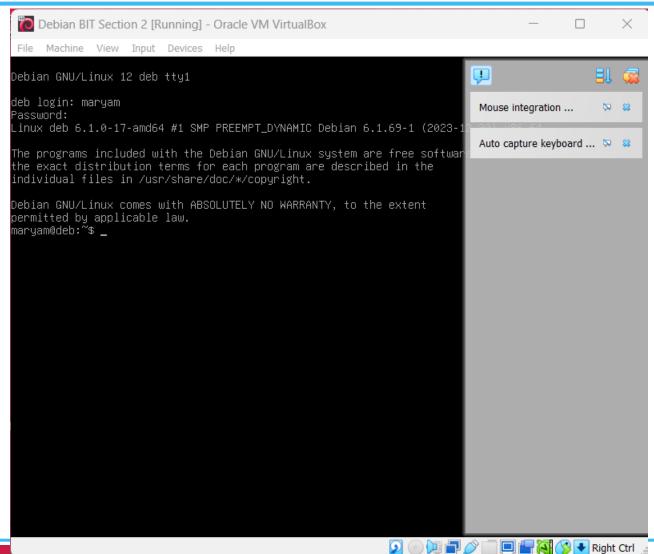
Stice Xfice Xfice	Deblan desktop environment	
Xfce KEE Flasma Cinnamon HAZE LXDE		
KEE Plasma Cinnamon HAZE LXDE		
Clenamen MAIT LXIDE LXIDE web server print server		
HATE LXDE LXDE		
LXDE LXQE web server print server		
□ LXQt □ web server □ print server □ SSH server		
print server print server		
Distillances		
SSSF server		
- Control of the Cont		
€ standard system stitles		
	⊗ standard system utilities	

- ➤ Boot loader: Yes
- ➤ Select second (not manually)
- ➤ Continue (REBOOT)
- **≻** Enter

Login as regular user / admin

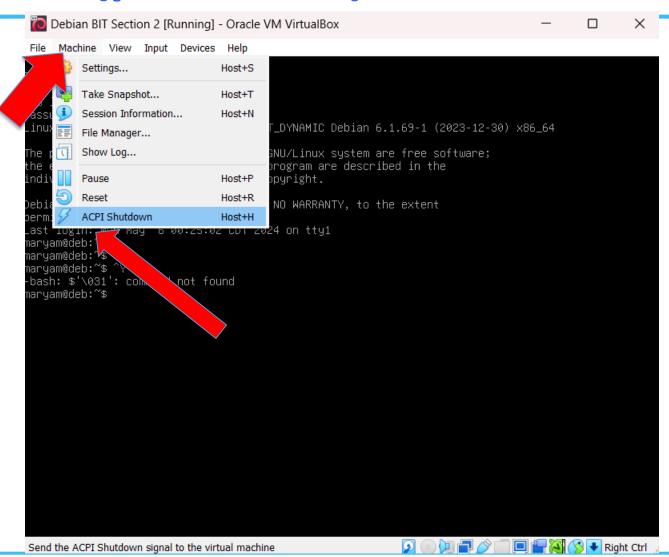


Login as regular user / admin



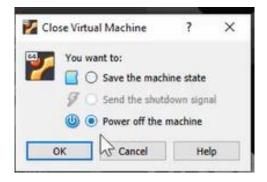
Shutdown Debian

Debian (power off)



Debian (power off)

- > Second method
 - Input -> Keyboard -> Insert Ctrl-Alt-Del
 - Close (x) and "power of the machine" -> ok



Oracle VM VirtualBox (Quit)

➤ File -> Quit