



Go to <https://www.kali.org/get-kali/#kali-platforms>

# Choose your Platform |

LIGHT  DARK

Once you get there, scroll down



### 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.

 Recommended



### Virtual Machines

- ✓ Snapshots functionality
- ✓ 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.

 Recommended



### ARM

- ✓ Range of hardware from the leave-behind devices end to high-end modern servers
- ✗ System architecture limits certain packages
- ✗ Not always customized kernel

Works on relatively inexpensive & low powered Single Board Computers (SBCs) as well as modern ARM



### Mobile

- ✓ Kali layered on Android
- ✓ Kali in your pocket, on the go
- ✓ Mobile interface (compact view)

A mobile penetration testing platform for Android devices, based on Kali Linux. Kali NetHunter consists



### Cloud

- ✓ Fast deployment
- ✓ Can leverage provider's resources
- ✗ Provider may become costly
- ✗ Not always customized kernel

Hosting providers which have Kali Linux pre-installed, ready to go, without worrying about infrastructure

# Installer Images

Kali is a rolling Linux distribution, meaning as soon as we have an update, we ship it. Would-be users have a variety of images to choose from. For more information, please see [Which Image Should I Download?](#) and [Kali Branches](#). For most users, we **recommend the latest "point release" image below**, except in cases when a user requires a specific bug patch, in which case the weekly build may be best.

We generate fresh Kali Linux image files [every quarter](#). These become the official "point" releases. These images are tested and subsequently announced with a blog post.

## [Installation Documentation >](#)

Our previous [Kali Linux's releases](#).

## Kali Linux 2023.3 Changelog

- 64-bit
- 32-bit
- Apple Silicon (ARM64)



Click on Apple Silicon (ARM64)



# Kali Linux 2023.3 Changelog

64-bit | 32-bit | **Apple Silicon (ARM64)**

  
**Weekly**  
Untested images with the latest updates  
↓ 3.1G repository sum

**Recommended**

  
**Installer**  
Complete offline installation with customization  
↓ 3.2G torrent sum

  
**NetInstaller**  
All packages are downloaded during installation  
↓ 4.6G torrent sum

**Click the download icon for the main installer**



Q.) How to download Kali Linux images...  
Q.) Can I still download the mini image?

Want an Updated or Custom Kali Image?



kali-linux-2023.3-installer-arm64.iso  
1m 53s left — 213 MB of 3.3 GB (26.6 MB/sec)  
Show all downloads

# Kali Linux 2023.3 Changelog

64-bit | 32-bit | **Apple Silicon (ARM64)**

**Make sure the file extension for the download is .iso**

Weekly	Installer	NetInstaller
	 <b>Recommended</b>	
<b>Weekly</b> Untested images with the latest updates	<b>Installer</b> Complete offline installation with customization	<b>NetInstaller</b> All packages are downloaded during installation
↓ 3.1G repository sum	↓ 3.2G torrent sum	↓ 4.4G torrent sum

- Q.) What's the differences between: Installer? NetInstaller? Everything? Weekly? Live?
- Q.) How to download Kali Linux images securely?
- Q.) Can I still download the mini image?

Want an Updated or Custom Kali Image?



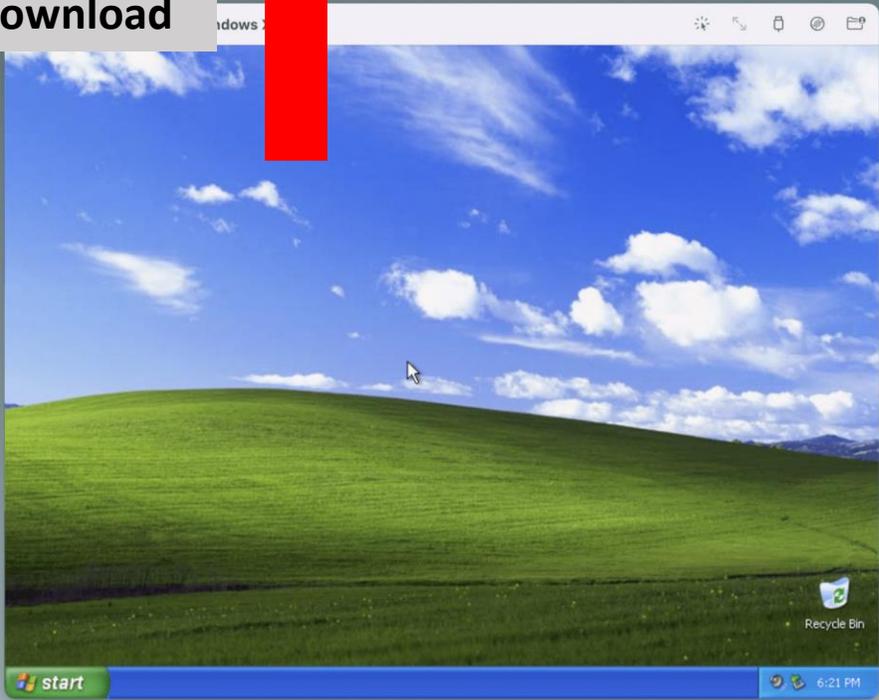


Next, go to <https://mac.getutm.app>

Securely run operating systems on your Mac

Download Mac App Store

Click Download



Click on UTM.dmg



UTM.dmg  
Completed — 233 MB

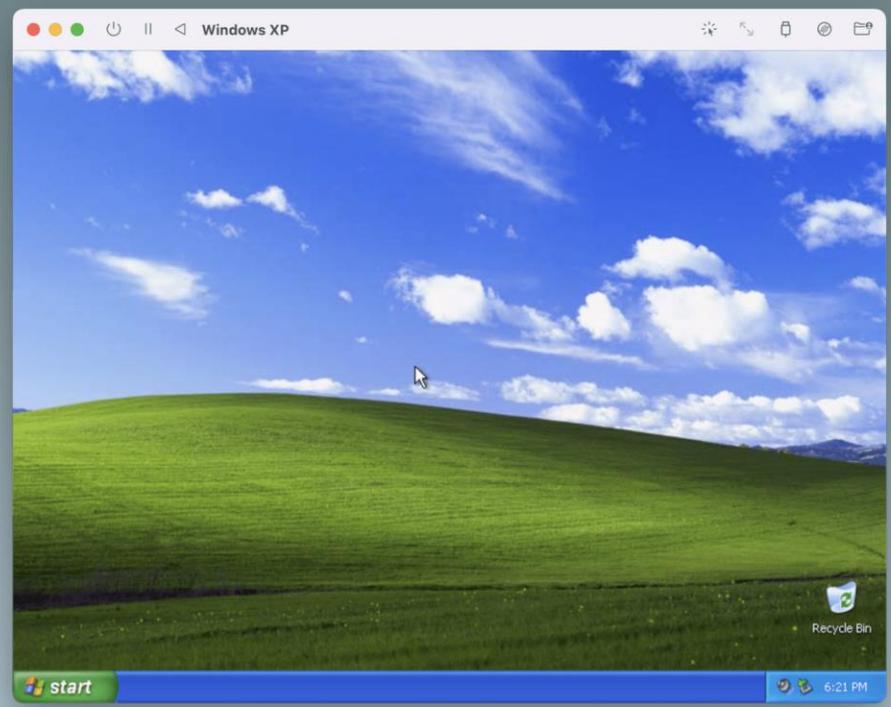
kali-linux-2023.3-installer-arm64.iso  
Completed — 3.3 GB

Show all downloads

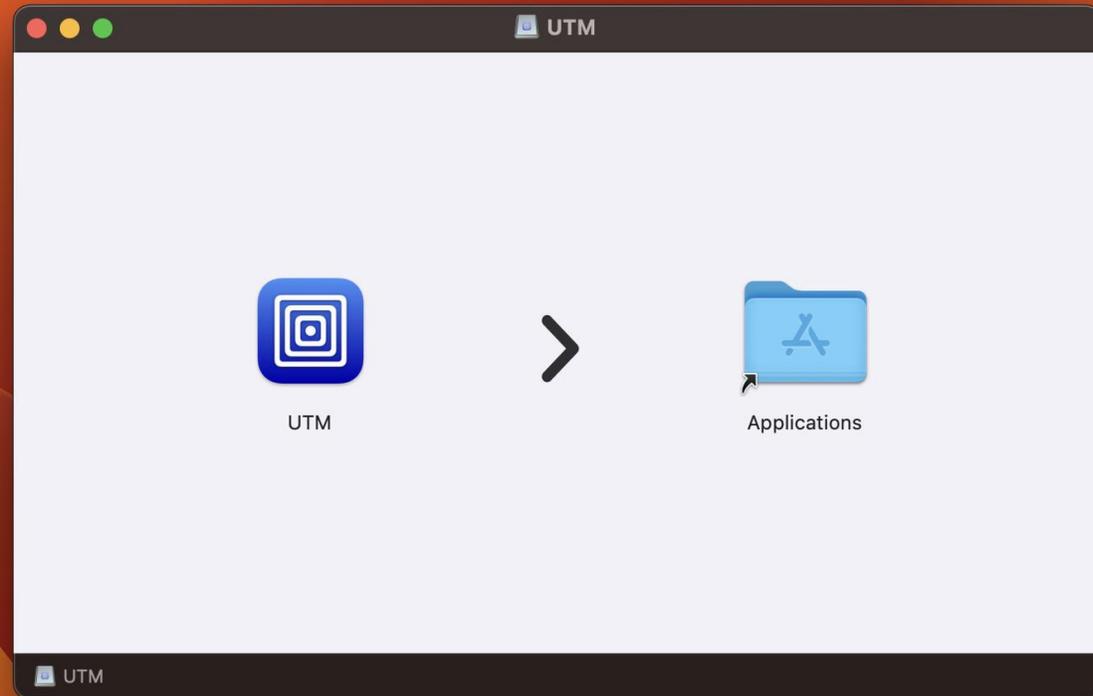
Securely run operating systems on your Mac

Download

Mac App Store



**Drag UTM into your  
Mac's Applications folder**



Search



Firefox



Google Slides



Google Docs

Now find UTM in your apps, and open it.

Google Sheets

Google Drive



UTM



ProtonVPN



Steam



Todoist



Spotify



Simplenote



OneDrive



Microsoft Word



Microsoft OneNote



Microsoft PowerPoint



Microsoft Outlook



Microsoft Teams



Microsoft Excel



Visual Studio Code



Discord



Slack



Games



Prime Video



Logi Options+



HP Smart



GIMP



Obsidian



zoom.us



VNC Viewer



OpenVPN Connect



BBEdit



Drafts



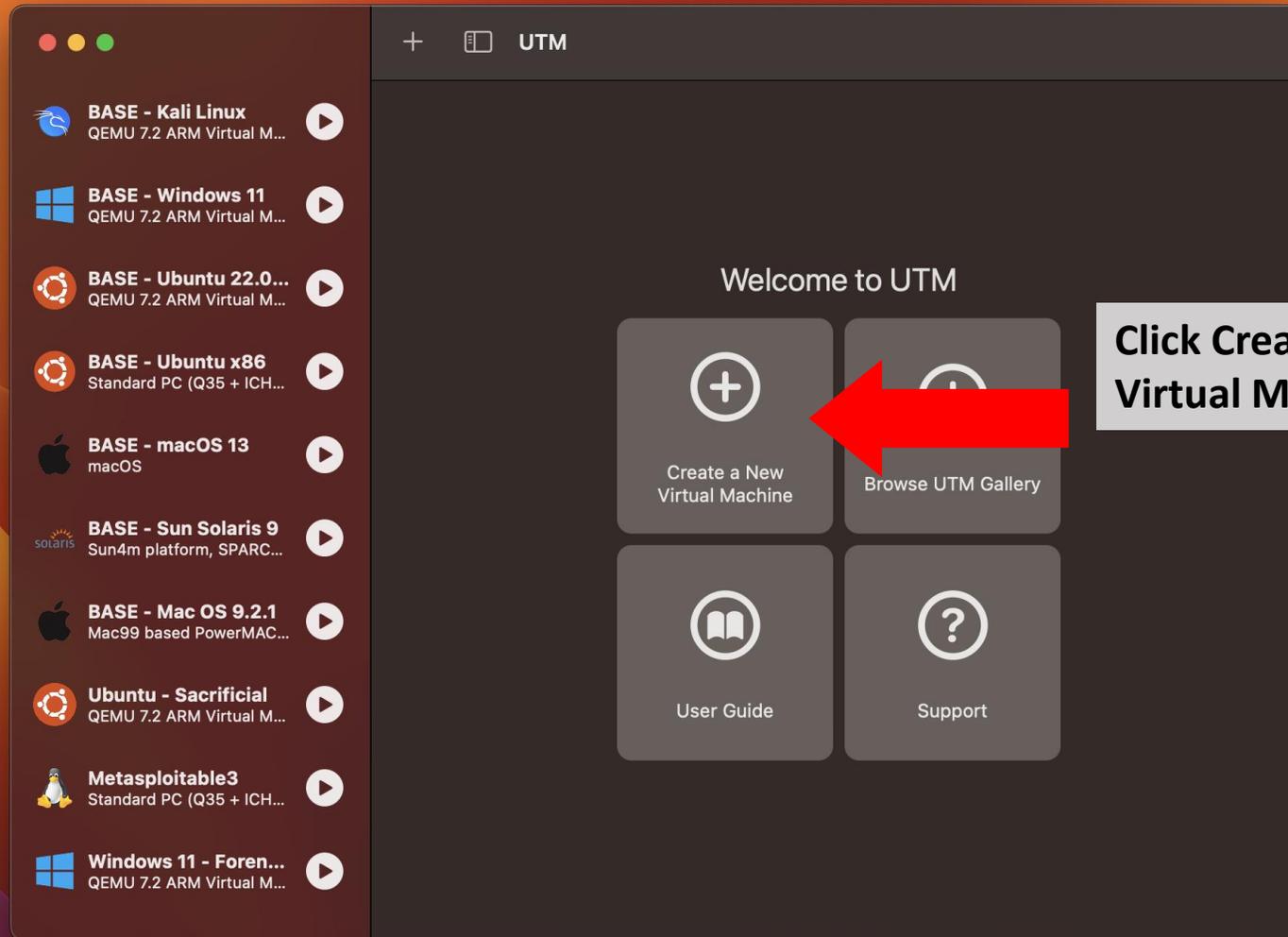
Paper



VLC



Encrypto



**Click Create a New Virtual Machine**

UTM

### Start

Custom

 **Virtualize**  
Faster, but can only run the native CPU architecture.

 **Emulate**  
Slower, but can run other CPU architectures.

Existing

-  Open...
-  Download prebuilt from UTM Gallery...

Cancel

**Select Virtualize**

BASE - Kali Linux  
QEMU 7.2 ARM Virtual M...

BASE - Windows 11  
QEMU 7.2 ARM Virtual M...

BASE - Ubuntu 22.0...  
QEMU 7.2 ARM Virtual M...

BASE - Ubuntu x86  
Standard PC (Q35 + ICH...

BASE - macOS 13  
macOS

BASE - Sun Solaris 9  
Sun4m platform, SPARC...

BASE - Mac OS 9.2.1  
Mac99 based PowerMAC...

Ubuntu - Sacrificial  
QEMU 7.2 ARM Virtual M...

Metasploitable3  
Standard PC (Q35 + ICH...

Windows 11 - Foren...  
QEMU 7.2 ARM Virtual M...

UTM

### Operating System

Preconfigured

- macOS 12+
- Windows
- Linux

Custom

- Other

Cancel Go Back

**Select Linux**

**BASE - Kali Linux**  
QEMU 7.2 ARM Virtual M...

**BASE - Windows 11**  
QEMU 7.2 ARM Virtual M...

**BASE - Ubuntu 22.0...**  
QEMU 7.2 ARM Virtual M...

**BASE - Ubuntu x86**  
Standard PC (Q35 + ICH...

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QEMU 7.2 ARM Virtual M...

**Metasploitable3**  
Standard PC (Q35 + ICH...

**Windows 11 - Foren...**  
QEMU 7.2 ARM Virtual M...

UTM

# Linux

**Virtualization Engine**

Use Apple Virtualization  
Apple Virtualization is experimental and only for advanced use cases. Leave unchecked to use QEMU, which is recommended.

**Boot Image Type**

Boot from kernel image

[Ubuntu Install Guide](#)

**Boot ISO Image**

Path

**Click Browse**



**BASE - Kali Linux**  
QEMU 7.2 ARM Virtual M...

**BASE - Windows 11**  
QEMU 7.2 ARM Virtual M...

**BASE - Ubuntu 22.0...**  
QEMU 7.2 ARM Virtual M...

**BASE - Ubuntu x86**  
Standard PC (Q35 + ICH...

**BASE - macOS 13**  
macOS

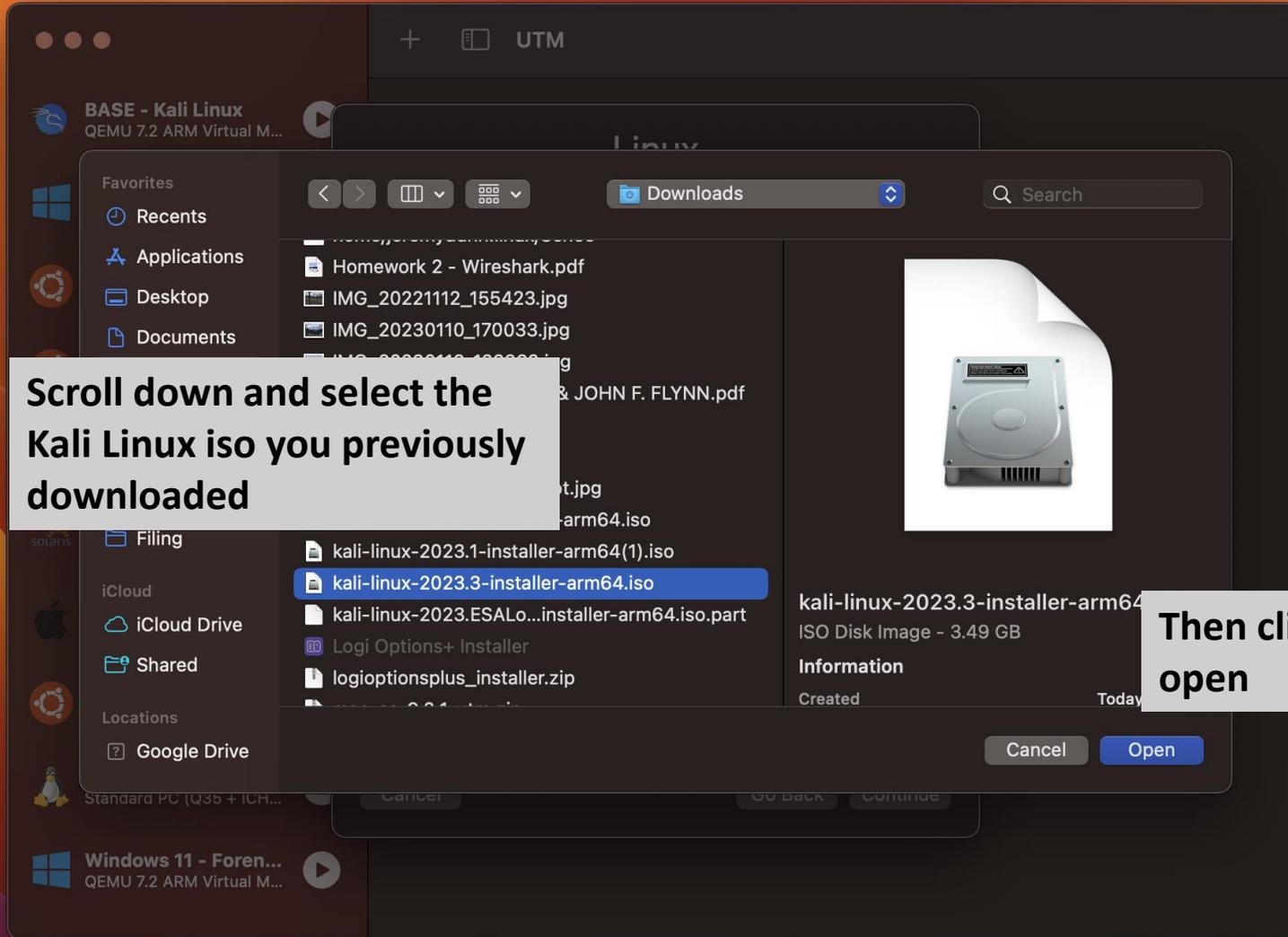
**BASE - Sun Solaris 9**  
Sun4m platform, SPARC...

**BASE - Mac OS 9.2.1**  
Mac99 based PowerMAC...

**Ubuntu - Sacrificial**  
QEMU 7.2 ARM Virtual M...

**Metasploitable3**  
Standard PC (Q35 + ICH...

**Windows 11 - Foren...**  
QEMU 7.2 ARM Virtual M...



**Scroll down and select the Kali Linux iso you previously downloaded**

**Then click open**

UTM

# Linux

**Virtualization Engine**

Use Apple Virtualization  
Apple Virtualization is experimental and only for advanced use cases. Leave unchecked to use QEMU, which is recommended.

**Boot Image Type**

Boot from kernel image  
[Ubuntu Install Guide](#)

**Boot ISO Image**

kali-linux-2023.3-installer-arm64.iso  

**Click Continue**

- BASE - Kali Linux  
QEMU 7.2 ARM Virtual M...
- BASE - Windows 11  
QEMU 7.2 ARM Virtual M...
- BASE - Ubuntu 22.0...  
QEMU 7.2 ARM Virtual M...
- BASE - Ubuntu x86  
Standard PC (Q35 + ICH...
- BASE - macOS 13  
macOS
- BASE - Sun Solaris 9  
Sun4m platform, SPARC...
- BASE - Mac OS 9.2.1  
Mac99 based PowerMAC...
- Ubuntu - Sacrificial  
QEMU 7.2 ARM Virtual M...
- Metasploitable3  
Standard PC (Q35 + ICH...
- Windows 11 - Foren...  
QEMU 7.2 ARM Virtual M...

UTM

**Hardware**

Memory

4096 MB

CPU

CPU Cores Default

Hardware OpenGL Acceleration

Enable hardware OpenGL acceleration

There are known issues in some newer Linux drivers including black screen, broken compositing, and apps failing to render.

Continue again

Cancel Go Back Continue

BASE - Kali Linux QEMU 7.2 ARM Virtual M...

BASE - Windows 11 QEMU 7.2 ARM Virtual M...

BASE - Ubuntu 22.0... QEMU 7.2 ARM Virtual M...

BASE - Ubuntu x86 Standard PC (Q35 + ICH...

BASE - macOS 13 macOS

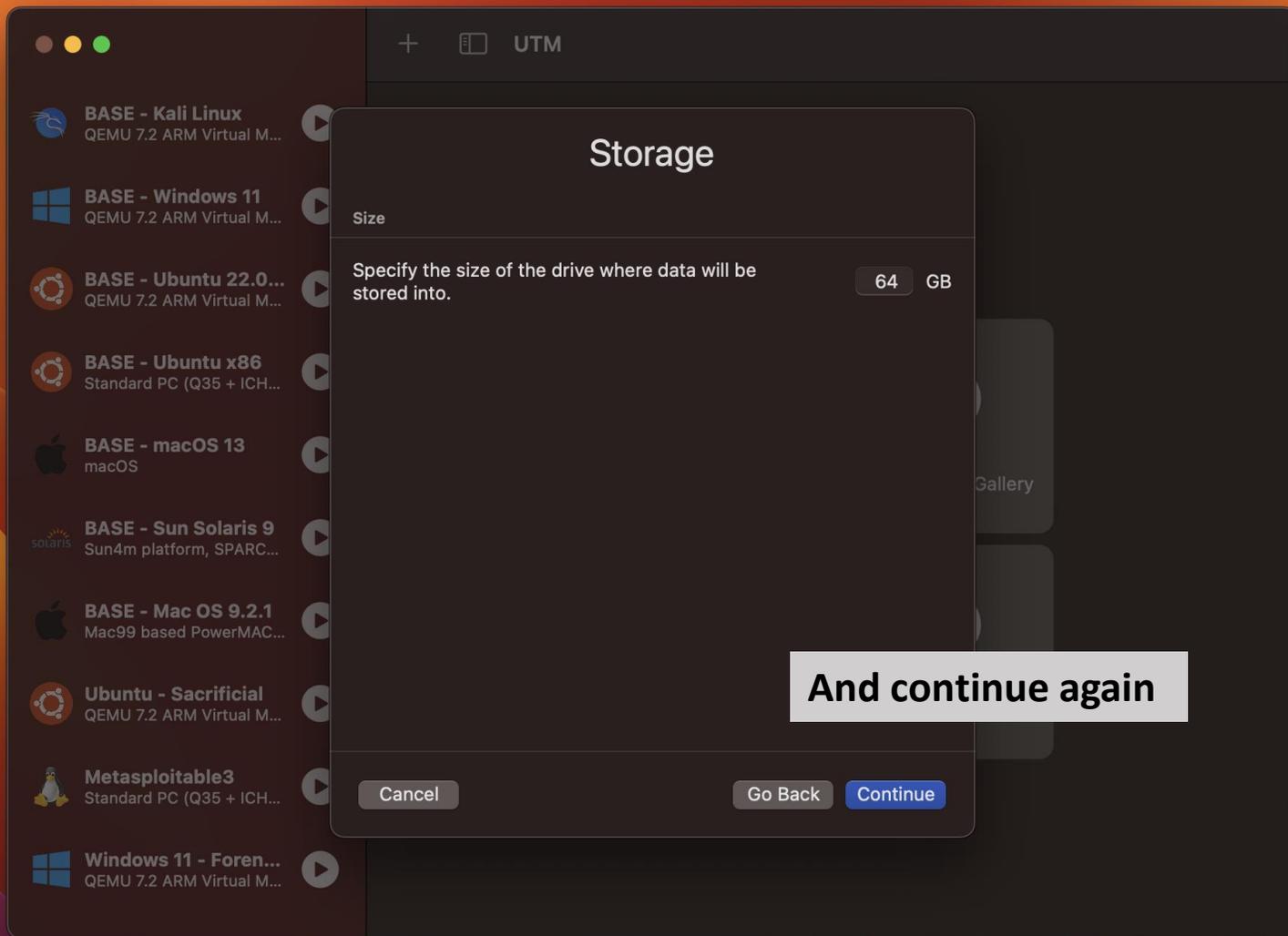
BASE - Sun Solaris 9 Sun4m platform, SPARC...

BASE - Mac OS 9.2.1 Mac99 based PowerMAC...

Ubuntu - Sacrificial QEMU 7.2 ARM Virtual M...

Metasploitable3 Standard PC (Q35 + ICH...

Windows 11 - Foren... QEMU 7.2 ARM Virtual M...



### Storage

Size

Specify the size of the drive where data will be stored into.

64 GB

And continue again

Cancel

Go Back

Continue

UTM

**Shared Directory**

Shared Directory Path

Path

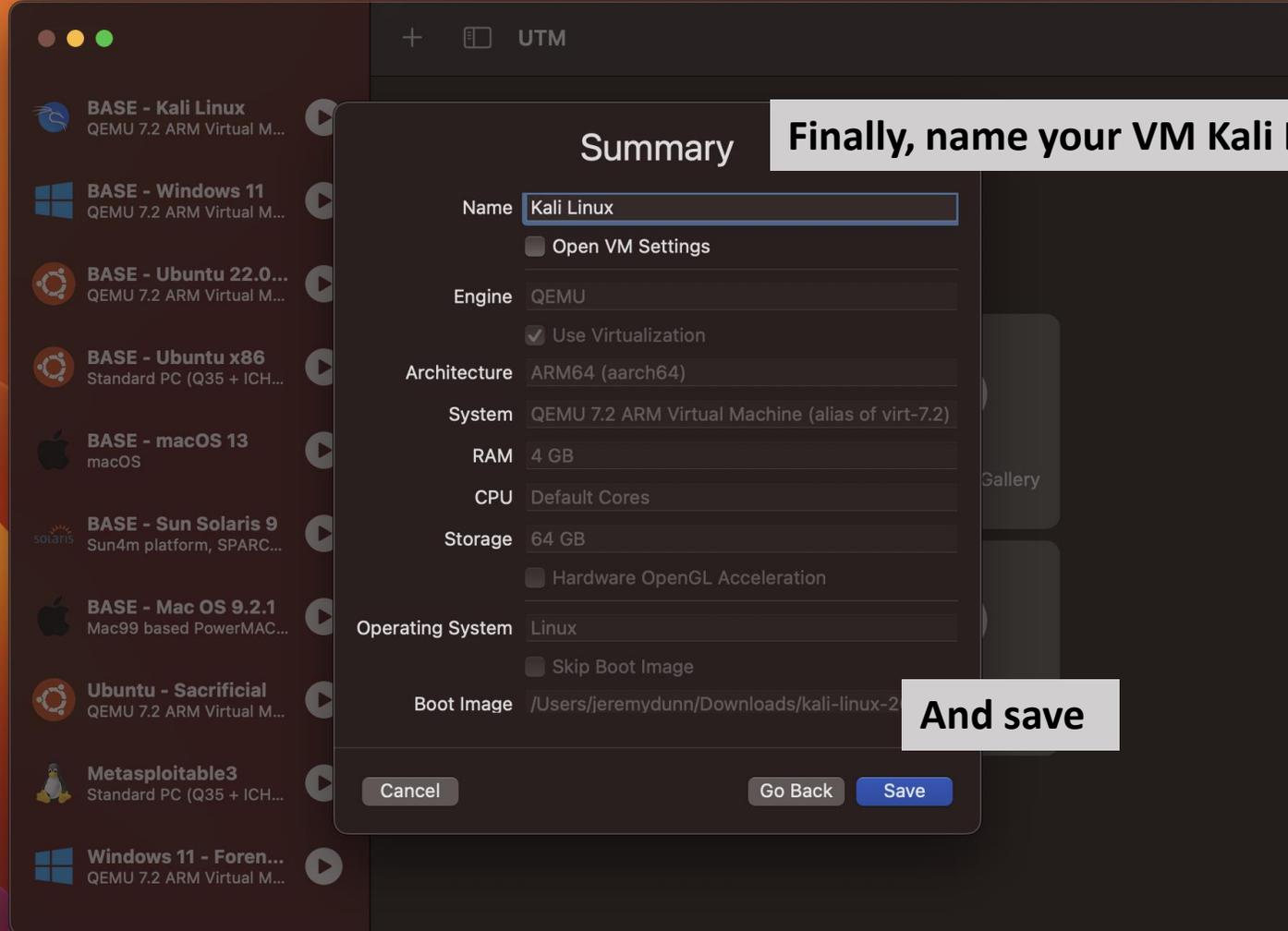
Share is read only

Optionally select a directory to make accessible inside the VM. Note that support for shared directories varies by the guest operating system and may require additional guest drivers to be installed. See UTM support pages for more details.

Gallery

**Keep clicking continue**

- BASE - Kali Linux  
QEMU 7.2 ARM Virtual M...
- BASE - Windows 11  
QEMU 7.2 ARM Virtual M...
- BASE - Ubuntu 22.0...  
QEMU 7.2 ARM Virtual M...
- BASE - Ubuntu x86  
Standard PC (Q35 + ICH...
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Mac99 based PowerMAC...
- Ubuntu - Sacrificial  
QEMU 7.2 ARM Virtual M...
- Metasploitable3  
Standard PC (Q35 + ICH...
- Windows 11 - Foren...  
QEMU 7.2 ARM Virtual M...



Finally, name your VM Kali Linux

### Summary

Name

Open VM Settings

Engine

Use Virtualization

Architecture

System

RAM

CPU

Storage

Hardware OpenGL Acceleration

Operating System

Skip Boot Image

Boot Image

Cancel

Go Back

Save

And save

The screenshot shows the UTM application interface. On the left is a list of virtual machines, and on the right is the details panel for the selected 'Kali Linux' VM. A text box is overlaid on the VM list.

**Your new Kali VM will be the only VM in your list. Once you make more, you will have a longer list like this.**

VM Name	OS	Architecture	Machine	Memory	Size
Kali Linux	QEMU 7.2 ARM Virtual M...	ARM64 (aarch64)	QEMU 7.2 ARM Virtual Machine (alias of virt-7.2) (virt)	4 GB	523 KB
BASE - Kali Linux	QEMU 7.2 ARM Virtual M...				
BASE - Windows 11	QEMU 7.2 ARM Virtual M...				
BASE - QEMU 7.2					
BASE - Standard					
BASE - macOS 13	macOS				
BASE - Sun Solaris 9	Sun4m platform, SPARC...				
BASE - Mac OS 9.2.1	Mac99 based PowerMAC...				
Ubuntu - Sacrificial	QEMU 7.2 ARM Virtual M...				
Metasploitable3	Standard PC (Q35 + ICH...				

**UTM**  
Kali Linux

**Status** Stopped

**Architecture** ARM64 (aarch64)

**Machine** QEMU 7.2 ARM Virtual Machine (alias of virt-7.2) (virt)

**Memory** 4 GB

**Size** 523 KB

Right click on the Kali VM, then click Edit

The image shows the UTM application interface. On the left, a list of virtual machines is displayed, including 'Kali Linux', 'BASE - Kali', 'BASE - Ubi', 'BASE - macOS 13', 'BASE - Sun Solaris 9', 'BASE - Mac OS 9.2.1', 'Ubuntu - Sacrificial', and 'Metasploitable3'. A context menu is open over the 'Kali Linux' VM, with the 'Edit' option selected. The main area on the right shows a large play button and a status bar at the bottom with the following details:

Status	Stopped
Architecture	ARM64 (aarch64)
Machine	QEMU 7.2 ARM Virtual Machine (alias of virt-7.2) (virt)
Memory	4 GB
Size	523 KB

UTM  
Kali Linux

Kali Linux  
QEMU 7.2 ARM Virtual M...

Information  
System  
QEMU  
Arguments  
Input  
Sharing  
Devices  
Display  
Network  
Sound  
+ New...  
Drives  
USB Drive  
VirtIO Drive

Name: Kali Linux

Notes

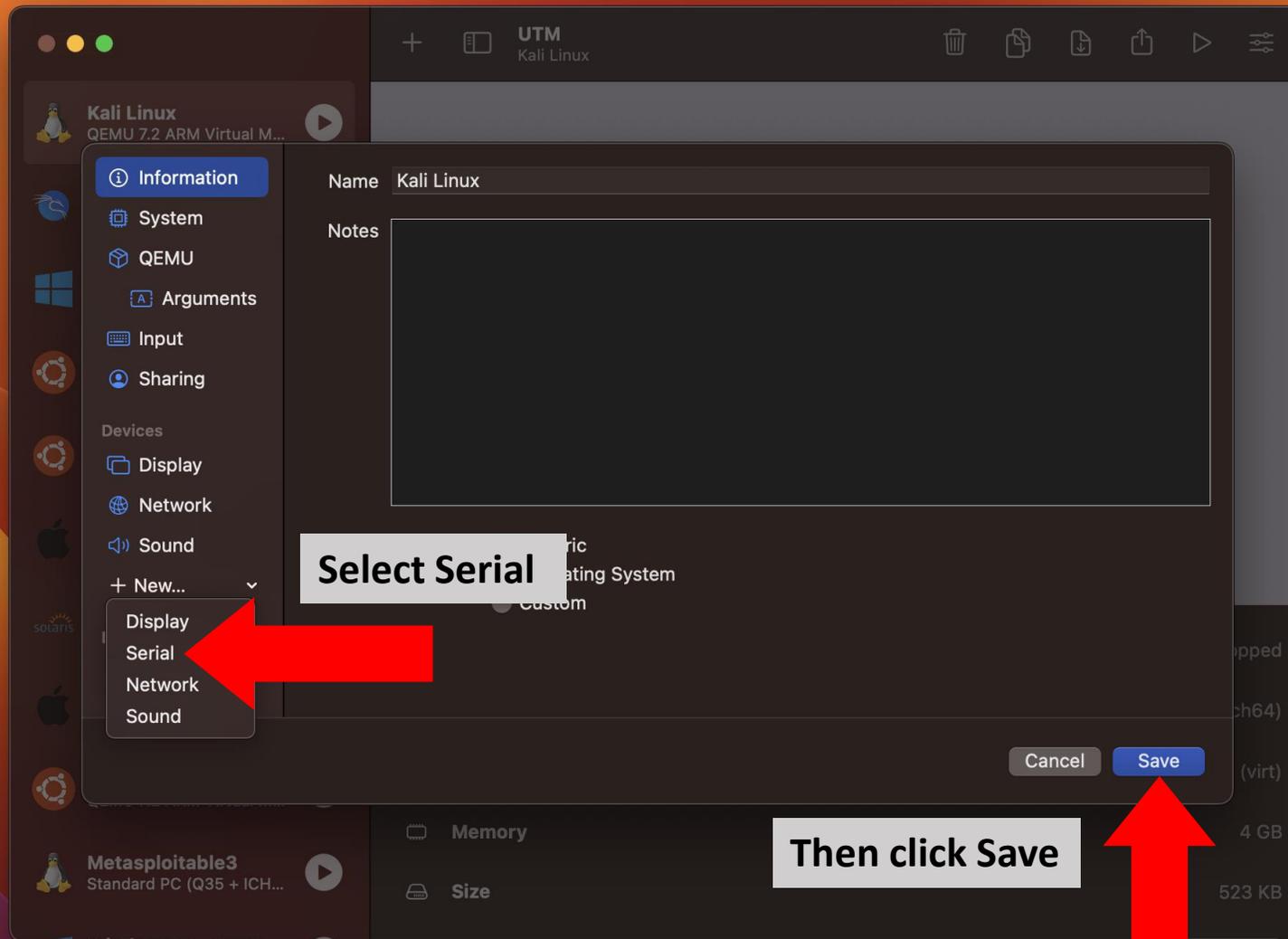
Generic  
 Operating System  
Custom

Click New

Cancel Save

Memory 4 GB  
Size 523 KB

Metasploitable3  
Standard PC (Q35 + ICH...



Now click the Play arrow next to your Kali VM to start it.

The screenshot shows the UTM application interface. On the left, a list of virtual machines is displayed. The top VM, 'Kali Linux', is highlighted in blue and has a red arrow pointing to its play button. Below it are 'BASE - Kali Linux', 'BASE - Windows 11', 'BASE - Ubuntu 22.0...', 'BASE - Ubuntu x86', 'BASE - macOS 13', 'BASE - Sun Solaris 9', 'BASE - Mac OS 9.2.1', 'Ubuntu - Sacrificial', and 'Metasploitable3'. The right pane shows a large play button in the center. Below the play button, the VM's status and specifications are listed:

Status	Stopped
Architecture	ARM64 (aarch64)
Machine	QEMU 7.2 ARM Virtual Machine (alias of virt-7.2) (virt)
Memory	4 GB
Size	523 KB

Two screens will pop up. Ignore the big one for now, all of the important instructions from here on will be done on the little one.

Hit Enter on your keyboard to begin installation

```
Kali Linux (Terminal 1)
GNU GRUB version 2.06-13+kali1

*Install
Graphical install
Advanced options ...
Accessible dark contrast installer menu ...
Install with speech synthesis

Use the ^ and v keys to select which entry is highlighted.
Press enter to boot the selected OS, `e' to edit the commands
before booting or `c' for a command-line.
```

```
Kali Linux
GNU GRUB version 2.06-13+kali1

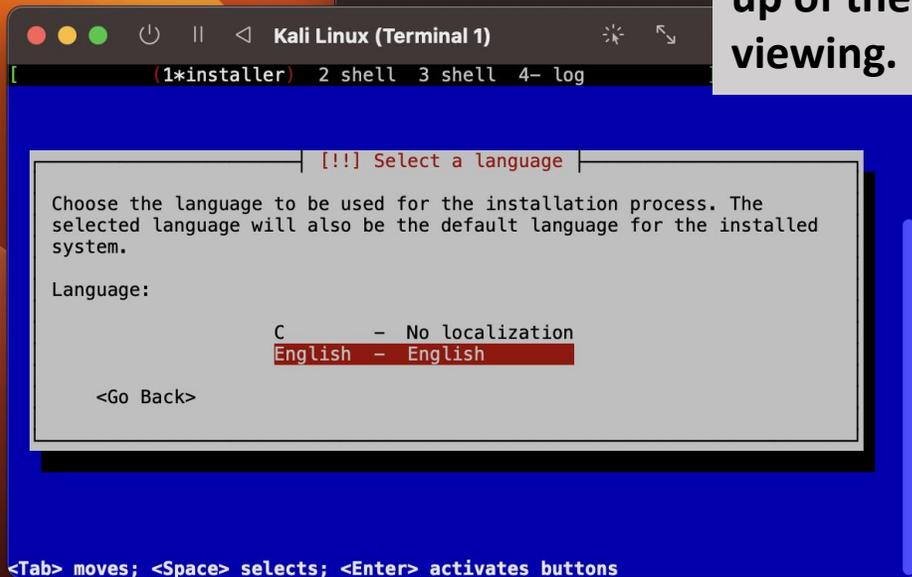
*Install
Graphical install
Advanced options ...
Accessible dark contrast installer menu ...
Install with speech synthesis

Use the ^ and v keys to select which entry is highlighted.
Press enter to boot the selected OS, `e' to edit the commands
before booting or `c' for a command-line.
```

524 KB  
factory Browse



After this step, the big screen will go black. As mentioned earlier, ignore it, all installation will be done on the small screen. All instructions from here to the end of the installation is a close up of the smaller screen for ease of viewing.



Your mouse will not work for these steps. Make sure the window is selected by clicking on it, and follow the rest of these instructions with your arrow keys and enter key.

```
Ubuntu Linux (Terminal 1)
2 shell 3 shell 4- log ][ Sep 14 21:46 ]
!!! Select a language
Choose the language to be used for the installation process. The
selected language will also be the default language for the installed
system.
Language:
C - No localization
English - English
<Go Back>
```

Select English

<Tab> moves; <Space> selects; <Enter> activates buttons

## Select United States

```
Kali Linux (Terminal 1) [ Sep 14 21:47 ]
(1*installer) 2 shell 3 shell 4- log

[!!!] Select your location

The selected location will be used to set your time zone and also for
example to help select the system locale. Normally this should be the
country where you live.

This is a shortlist of locations based on the language you selected.
Choose "other" if your location is not listed.

Country, territory or area:

Seychelles      ↑
Singapore       █
South Africa    █
United Kingdom  █
United States   █
                ↓

<Go Back>
```

**<Tab> moves; <Space> selects; <Enter> activates buttons**

## Select American English

```
Kali Linux (Terminal 1)
(1*installer) 2 shell 3 shell 4- log [ Sep 14 21:47 ]

[!!!] Configure the keyboard

Keymap to use:
American English ↑
Albanian      █
Arabic        █
Asturian      █
Bangladesh    █
Belarusian    █
Bengali       █
Belgian       █
Berber (Latin) █
Bosnian       █
Brazilian     █
British English ↓

<Go Back>

<Tab> moves; <Space> selects; <Enter> activates buttons
```

The different boxes on the page (Go Back, Continue, etc.) can be reached with the tab key.

The hostname can be anything, but I recommend keeping it at the default of kali.

1\*install

[[ Sep 14 21:48 ]

vs  
rtu  
2  
tu  
x  
+  
1:  
la  
SP.

1: [!] Configure the network

Please enter the hostname for this system.

The hostname is a single word that identifies your system to the network. If you don't know what your hostname should be, consult your network administrator. If you are setting up your own home network, you can make something up here.

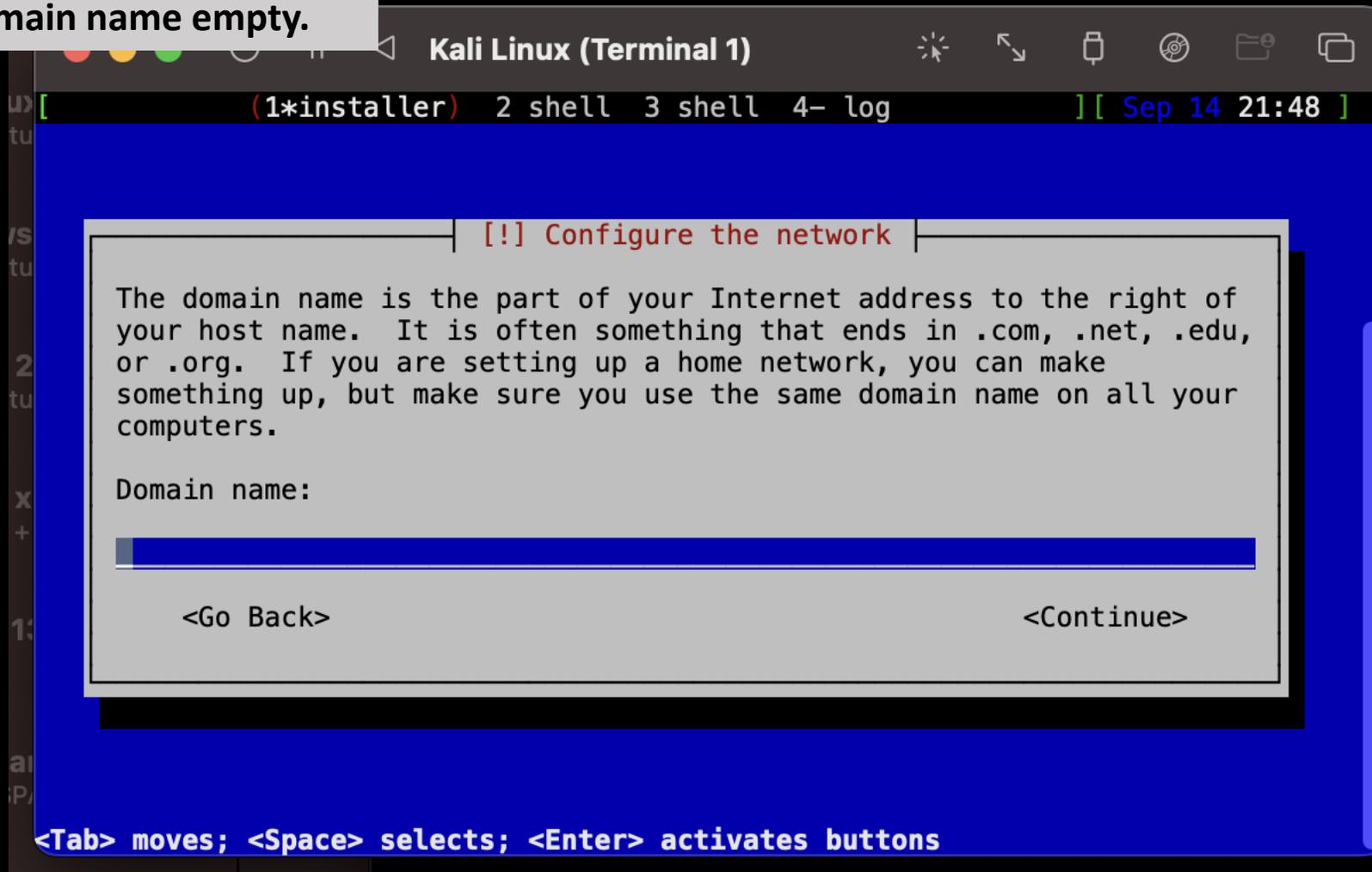
Hostname:

kali

<Go Back> <Continue>

<Tab> moves; <Space> selects; <Enter> activates buttons

Leave the domain name empty.



Tell it your name is kali.  
Again, doesn't actually  
matter, but this is an easy  
default.

```
|| < Kali Linux (Terminal 1) [ Sep 14 21:49 ]
1*installer) 2 shell 3 shell 4- log

!!! 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:
kali

<Go Back> <Continue>

<Tab> moves; <Space> selects; <Enter> activates buttons
```

Make the username kali. This is the default for the Kali Linux distro.

```
Kali Linux (Terminal 1) [ Sep 14 21:49 ]
(1*installer) 2 shell 3 shell 4- log

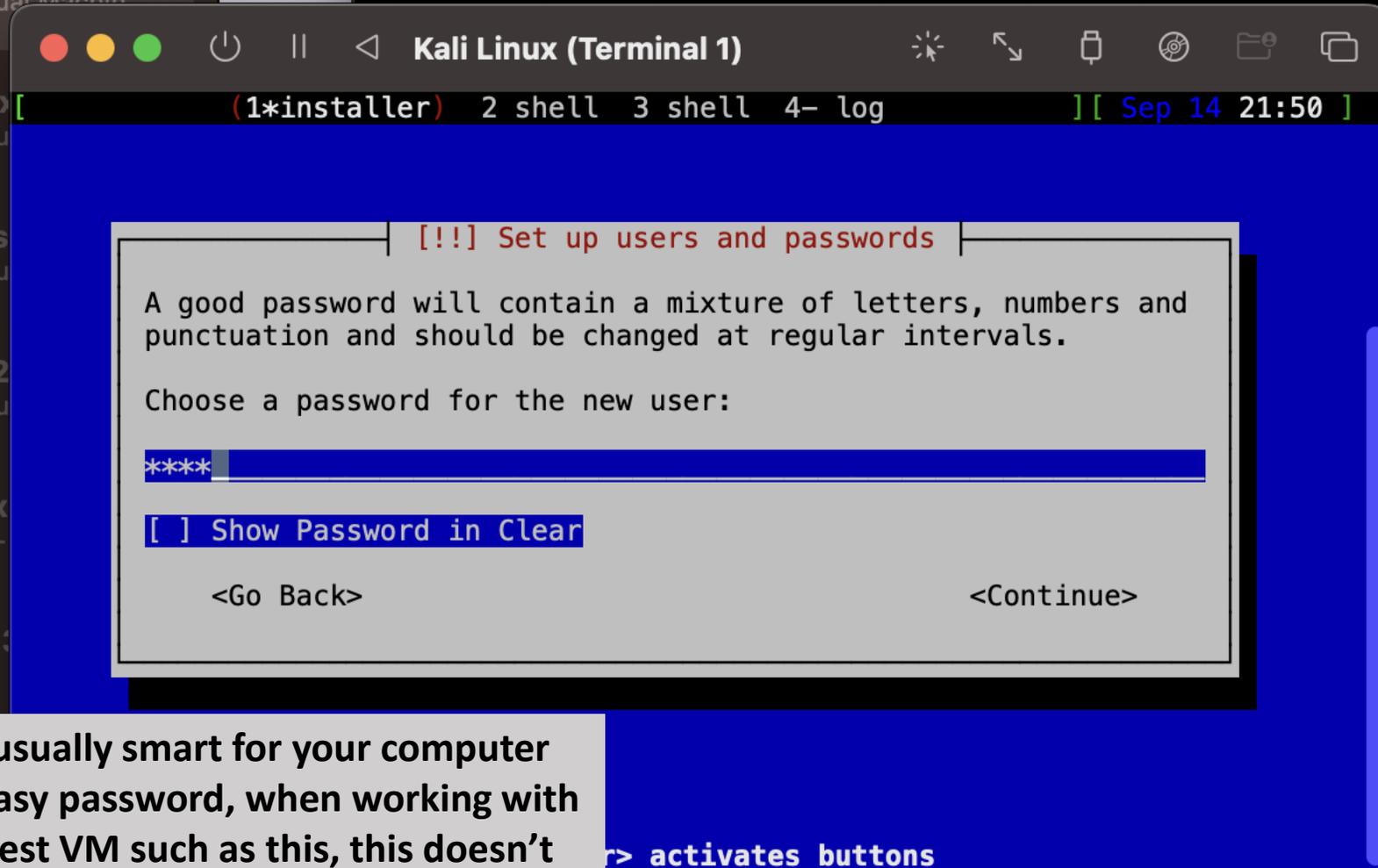
[!!!] Set up users and passwords

Select a username for the new account. Your first name is a
reasonable choice. The username should start with a lower-case
letter, which can be followed by any combination of numbers and more
lower-case letters.

Username for your account:
kali
<Go Back> <Continue>

<Tab> moves; <Space> selects; <Enter> activates buttons
```

## Set the password to kali



Although it's not usually smart for your computer to have such an easy password, when working with an experimental test VM such as this, this doesn't matter as much.

## Verify the password

```
[ (1*installer) 2 shell 3 shell 4- log ] [ Sep 14 21:50 ]
```

[[!!] Set up users and passwords

Please enter the same user password again to verify you have typed it correctly.

Re-enter password to verify:

\*\*\*\*

[ ] Show Password in Clear

<Go Back> <Continue>

<Tab> moves; <Space> selects; <Enter> activates buttons

## Set the time zone to Eastern

```
Kali Linux (Terminal 1) [ Sep 14 21:50 ]
(1*installer) 2 shell 3 shell 4- log

[!] Configure the clock

If the desired time zone is not listed, then please go back to the
step "Choose language" and select a country that uses the desired
time zone (the country where you live or are located).

Select your time zone:

  Eastern  ↑
  Central  █
  Mountain ███
  Pacific  ███
  Alaska   ███
  Hawaii   ███
  Arizona  ███
  East Indiana ↓

<Go Back>

<Tab> moves; <Space> selects; <Enter> activates buttons
```

Select Guided – use the entire disk

```
Kali Linux (Terminal 1)
(1*installer) 2 shell 3 shell 4- log  ][ Sep 14 21:51 ]

[!!!] Partition disks

The installer can guide you through partitioning a disk (using
different standard schemes) or, if you prefer, you can do it
manually. With guided partitioning you will still have a chance later
to review and customise the results.

If you choose guided partitioning for an entire disk, you will next
be asked which disk should be used.

Partitioning method:

  Guided - use entire disk
  Guided - use entire disk and set up LVM
  Guided - use entire disk and set up encrypted LVM
  Manual

  <Go Back>

<Tab> moves; <Space> selects; <Enter> activates buttons
```

## Select Virtual disk 1 (vda)

```
Kali Linux (Terminal 1) [ (1*installer) 2 shell 3 shell 4- log ] [ Sep 14 21:51 ]
```

```
[ (!!)] Partition disks
```

```
Note that all data on the disk you select will be erased, but not before you have confirmed that you really want to make the changes.
```

```
Select disk to partition:
```

```
Virtual disk 1 (vda) - 68.7 GB Virtio Block Device
```

```
<Go Back>
```

```
<Tab> moves; <Space> selects; <Enter> activates buttons
```

Select All files in one partition

```
Kali Linux (Terminal 1) [ Sep 14 21:51 ]
(1*installer) 2 shell 3 shell 4- log

[!] Partition disks

Selected for partitioning:

Virtual disk 1 (vda) - Virtio Block Device: 68.7 GB

The disk can be partitioned using one of several different schemes.
If you are unsure, choose the first one.

Partitioning scheme:

  All files in one partition (recommended for new users)
  Separate /home partition
  Separate /home, /var, and /tmp partitions

<Go Back>

<Tab> moves; <Space> selects; <Enter> activates buttons
```

Select Finish partitioning  
and write changes to disk

```
Kali Linux (Terminal 1)
(1*installer) 2 shell 3 shell 4- log [ Sep 14 21:52 ]

[!!!] Partition disks

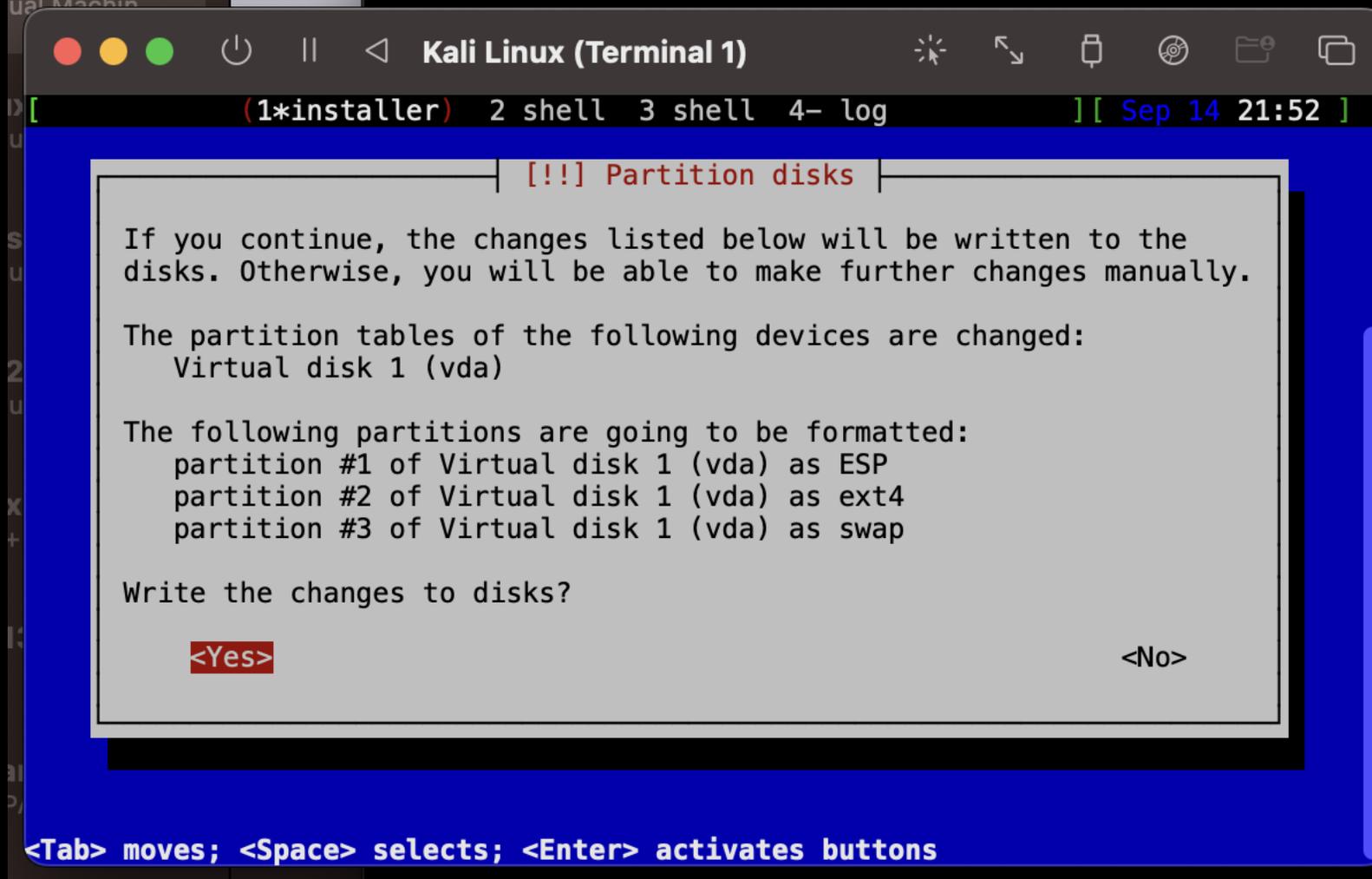
This is an overview of your currently configured partitions and mount
points. Select a partition to modify its settings (file system, mount
point, etc.), a free space to create partitions, or a device to
initialize its partition table.

Virtual disk 1 (vda) - 68.7 GB Virtio Block Device ↑
>          1.0 MB      FREE SPACE                ⌘
>   #1     536.9 MB   B  f  ESP                    ⌘
>   #2     67.2 GB   f  ext4      /                 ⌘
>   #3     1.0 GB    f  swap        swap           ⌘
>          1.0 MB      FREE SPACE                ⌘

Undo changes to partitions      |
Finish partitioning and write changes to disk  | ↓
<Go Back>

<F1> for help; <Tab> moves; <Space> selects; <Enter> activates buttons
```

## Confirm the changes



```
[ (1*installer) 2 shell 3 shell 4- log ] [ Sep 14 21:52 ]
```

[!!] Partition disks

If you continue, the changes listed below will be written to the disks. Otherwise, you will be able to make further changes manually.

The partition tables of the following devices are changed:  
Virtual disk 1 (vda)

The following partitions are going to be formatted:  
partition #1 of Virtual disk 1 (vda) as ESP  
partition #2 of Virtual disk 1 (vda) as ext4  
partition #3 of Virtual disk 1 (vda) as swap

Write the changes to disks?

**<Yes>** <No>

**<Tab> moves; <Space> selects; <Enter> activates buttons**

It will take a minute to think while it is partitioning. Don't interrupt the process, wait for it to finish.

The image shows a terminal window titled "Kali Linux (Terminal 1)". The terminal has a blue background and displays the following text:

```
(1*installer) 2 shell 3 shell 4- log ] [ Sep 14 21:52 ]
```

Below the terminal output, a progress bar is shown with the text "Installing the base system" above it. The progress bar is partially filled with red, and the text "39%" is displayed in the center. Below the progress bar, the text "Unpacking perl-base..." is visible.

Leave all of these options as the default. Hit Enter to continue.

```
(1*installer) 2 shell 3 shell 4- log [ Sep 14 21:53 ]
```

[!] Software selection

At the moment, only the core of the system is installed. The default selections below will install Kali Linux with its standard desktop environment and the default tools.

You can customize it by choosing a different desktop environment or a different collection of tools.

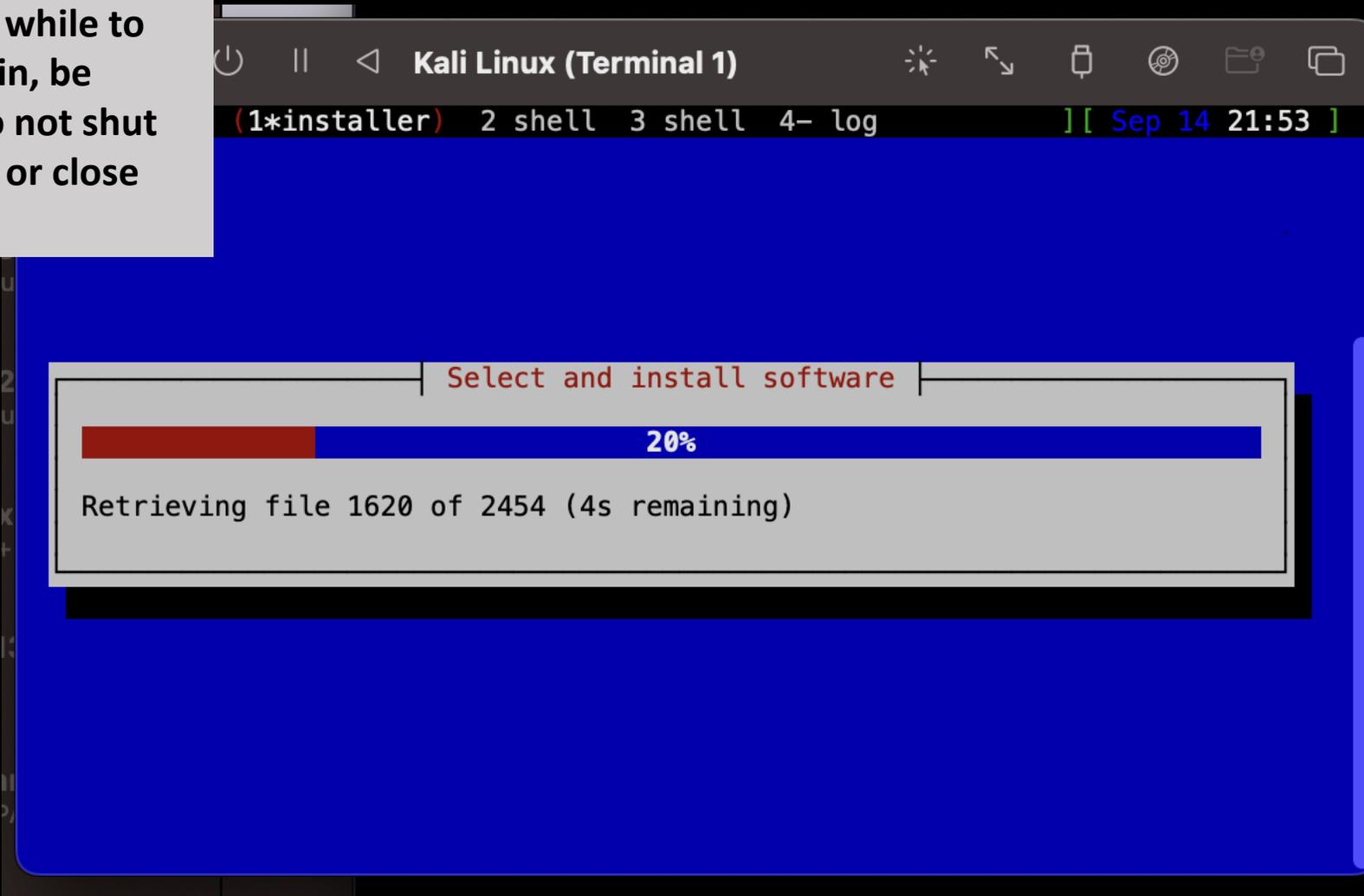
Choose software to install:

- [\*] Desktop environment [selecting this item has no effect]
- [\*] ... Xfce (Kali's default desktop environment)
- [ ] ... GNOME
- [ ] ... KDE Plasma
- [\*] Collection of tools [selecting this item has no effect]

<Continue>

<Tab> moves; <Space> selects; <Enter> activates buttons

The install will finish up. This will take a while to complete. Again, be patient, and do not shut your computer or close out the VM.



It will automatically reboot, and you will be back at the screen you started at. Close both of these windows.

The image shows a Kali Linux virtual machine interface. At the top, a window titled "Kali Linux" displays the GNU GRUB version 2.06-13+kali1 boot menu. Below it, a terminal window titled "Kali Linux (Terminal 1)" shows the same GRUB menu. A blue dashed box highlights the menu options: `*Install`, `Graphical install`, `Advanced options ...`, `Accessible dark contrast installer menu ...`, and `Install with speech synthesis`. Below the terminal, a text box provides instructions: "Use the ^ and v keys to select which entry is highlighted. Press enter to boot the selected OS, 'e' to edit the commands before booting or 'c' for a command-line." In the background, a sidebar lists various virtual machines, including "BASE - Kali Linux", "BASE - Windows", "BASE - Ubuntu 2", "BASE - Ubuntu x", "BASE - macOS 1", "BASE - Sun Solar", "BASE - Mac OS 9.2.1", "Ubuntu - Sacrificial", and "Metasploitable3". At the bottom, a "Shared Directory" section shows a file named "Size" with a size of "524 KB" and a "Browse" button.

Kali Linux  
QEMU 7.2 ARM

BASE - Kali  
QEMU 7.2 ARM

BASE - Windows 11  
QEMU 7.2 ARM Virtual M...

BASE - Ubuntu 22.0...  
QEMU 7.2 ARM Virtual M...

BASE - Ubuntu x86  
Standard PC (Q35 + ICH...

BASE - macOS 13  
macOS

BASE - Sun Solaris 9  
Sun4m platform, SPARC...

BASE - Mac OS 9.2.1  
Mac99 based PowerMAC...

Ubuntu - Sacrificial  
QEMU 7.2 ARM Virtual M...

Metasploitable3  
Standard PC (Q35 + ICH...

**It asks for confirmation to kill the VM. Click OK.**

Kali Linux

GNU GRUB version 2.06-13+kali1

install  
Advanced options ...  
Accessible dark contr...  
Install with speech s...

Confirmation  
Closing this window will kill the VM.

OK  
Cancel  
 Don't ask again

Use the ▲ and ▼ keys to select which entry is highlighted.  
Press enter to boot the selected OS, 'e' to edit the commands  
before booting or 'c' for a command-line.

Size 524 KB

Shared Directory Browse

Right click on the Kali VM, then click Edit

The image shows the UTM application interface. On the left, a list of virtual machines is displayed, including 'Kali Linux', 'BASE - Kali Linux', 'BASE - Ubuntu', 'BASE - macOS 13', 'BASE - Sun Solaris 9', 'BASE - Mac OS 9.2.1', 'Ubuntu - Sacrificial', and 'Metasploitable3'. A context menu is open over the 'Kali Linux' VM, with the following options: Show in Finder, Edit, Run, Run without saving changes, Share..., Move..., Clone..., New from template..., and Delete. The 'Edit' option is highlighted. On the right, the 'Kali Linux' VM is selected, and its details are shown in a table format:

Property	Value
Status	Stopped
Architecture	ARM64 (aarch64)
Machine	QEMU 7.2 ARM Virtual Machine (alias of virt-7.2) (virt)
Memory	4 GB
Size	523 KB

Right click on Serial,  
and select Remove

The image shows the UTM (User-mode Emulator) interface for configuring a virtual machine named 'Kali Linux'. The main window displays the VM's settings, including Name, Notes, and Icon. The 'Devices' section is expanded, showing a list of hardware components: Display, Serial, Network, Sound, and a '+ New...' button. The 'Serial' device is selected, and a context menu is open over it, showing a 'Remove' option. A red arrow points from a text box to the 'Serial' device. The 'Icon' section shows the 'Operating System' icon selected. The 'Drives' section shows a 'USB Drive' option. The 'Memory' section shows '4 GB' and the 'Size' section shows '13.63 GB'. The background is a colorful abstract pattern.

Right click on USB Drive, and select Delete

The screenshot shows the UTM application window titled "UTM Kali Linux". The main interface is divided into several sections:

- System:** Includes fields for "Name" (Kali Linux) and "Notes".
- QEMU Arguments:** A text area for specifying QEMU command-line arguments.
- Input:** A section for configuring input devices.
- Sharing:** A section for configuring sharing options.
- Devices:** A list of virtual devices including Display, Serial, and Sound.
- Drives:** A list of virtual drives including "USB Drive", "VirtIO Drive", and "New...". A red arrow points to "USB Drive", which has a context menu open with "Delete" and "Move Down" options.
- Icon:** A section for selecting an icon, with "Operating System" selected.
- Memory:** A section for configuring memory, currently set to 4 GB.
- Size:** A section for configuring size, currently set to 13.63 GB.

At the bottom right, there are "Cancel" and "Save" buttons.

UTM  
Kali Linux

Kali Linux  
QEMU 7.2 ARM Virtual M...  
System

QEMU

Arguments

Input

Sharing

Devices

Display

Serial

Sound

+ New...

Drives

USB Drive

VirtIO Drive

New...

Metasploitable3  
Standard PC (Q35 + ICH...)

Memory 4 GB

Size 13.63 GB

Path: kali-linux-2023.3-installer-arm64.iso  
Clear Browse...

Removable Drive

Read Only?

Image Type: CD/DVD (ISO) Image

Interface: USB

Size: 3.25 GB

Compress <|> Resize...

Cancel Save

**Select Delete**



Are you sure you want to permanently delete this disk image?

Delete Cancel

UTM  
Kali Linux

Kali Linux  
QEMU 7.2 ARM Virtual M...

- Information
- System
- QEMU
  - Arguments
- Input
- Sharing
- Devices
  - Display
  - Serial
  - Sound
  - + New...
- Drives
  - VirtIO Drive
  - New...

Click Save

Cancel Save

Metasploitable3  
Standard PC (Q35 + ICH...

Memory 4 GB

Size 13.63 GB

Now click the Play arrow next to your Kali VM to start it.

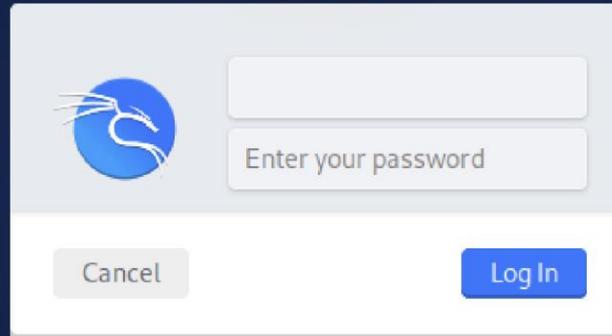
The screenshot shows the UTM application interface. On the left, a list of virtual machines is displayed, each with an icon, name, and a play button. A red arrow points to the play button of the first VM, 'Kali Linux'. The main window displays a large play button. Below the main window, a status panel shows details for the selected VM.

VM Name	Platform	Play Button
Kali Linux	QEMU 7.2 ARM Virtual M...	Play
BASE - Kali Linux	QEMU 7.2 ARM Virtual M...	Play
BASE - Windows 11	QEMU 7.2 ARM Virtual M...	Play
BASE - Ubuntu 22.0...	QEMU 7.2 ARM Virtual M...	Play
BASE - Ubuntu x86	Standard PC (Q35 + ICH...	Play
BASE - macOS 13	macOS	Play
BASE - Sun Solaris 9	Sun4m platform, SPARC...	Play
BASE - Mac OS 9.2.1	Mac99 based PowerMAC...	Play
Ubuntu - Sacrificial	QEMU 7.2 ARM Virtual M...	Play
Metasploitable3	Standard PC (Q35 + ICH...	Play

Property	Value
Status	Stopped
Architecture	ARM64 (aarch64)
Machine	QEMU 7.2 ARM Virtual Machine (alias of virt-7.2) (virt)
Memory	4 GB
Size	523 KB

It will start normally like you were booting an OS. If you followed along, the username is kali and the password is kali.



A login dialog box for Kali Linux. It features the Kali Linux logo (a blue circle with a white dragon) on the left. To the right of the logo are two input fields: the top one is empty, and the bottom one contains the text "Enter your password". Below the input fields are two buttons: a grey "Cancel" button on the left and a blue "Log In" button on the right.

**KALI**