



Kali Linux Installation



Downloading a Kali ISO Image

- ▶ Where to Download The only official source of Kali Linux ISO images is the Downloads section of the Kali website. Due to its popularity, numerous sites offer Kali images for download, but they should not be considered trustworthy and indeed may be infected with malware or otherwise cause irreparable damage to your system.
- ▶ → <https://www.kali.org/downloads/>

Downloading kali Image

Image Name	Download	Size	Version	sha256sum
Kali 64 bit	ISO Torrent	2.6G	2017.1	49b1c5769b909220060dc4c0e11ae09d97a270a80d259e05773101df62e11e9d
Kali 32 bit	ISO Torrent	2.7G	2017.1	501b3747e5ac7c698217392fe49ec21dacee277404500fc49d4a0ee82625aabe
Kali 64 bit Light	ISO Torrent	0.8G	2017.1	5c0f6300bf9842b724df92cb20e4637f4561ffc03029cdcb21af3902442ae9b0
Kali 32 bit Light	ISO Torrent	0.8G	2017.1	6c83101ecf8702c7d93d32562e822b639d5c577314b448e3b8330995e0f07e0f
Kali 64 bit e17	ISO Torrent	2.4G	2017.1	ae293cf679f38a4f17d090a272ccb13d7619e66d4502374154186c12891fb99c
Kali 64 bit KDE	ISO Torrent	2.7G	2017.1	839741fec378114ff068df3ec2dbed9d8e4fae613e690d50b25ce9cc1468104b
Kali 64 bit Mate	ISO Torrent	2.6G	2017.1	3ea748aa8c5f50d80f020acdbca5f0398ee90242bb4413c12985e1865186ca9e
Kali 64 bit Xfce	ISO Torrent	2.5G	2017.1	8a17c2f54850585760b9d32a22e26df9a28f395b401753fa0a9b298aef4c4593
Kali 64 bit LXDE	ISO Torrent	2.5G	2017.1	35eae65aaaabba8188dfd963e45b7b4d76e0684e7721c7d232cf18320b7cae3b
Kali armhf	Image Torrent	0.5G	2017.1	a75199aa8a3d7b64561bc03fcd6e3ff8b94743c8769eefaa4b719f04f7cbb63
Kali armel	Image Torrent	0.4G	2017.1	180414422196f0797c1ea5f3c18682bc4b3ced871cb3e874e90de52dd4af877c

Figure 2.1 List of Images Offered for Download

Virtual Box

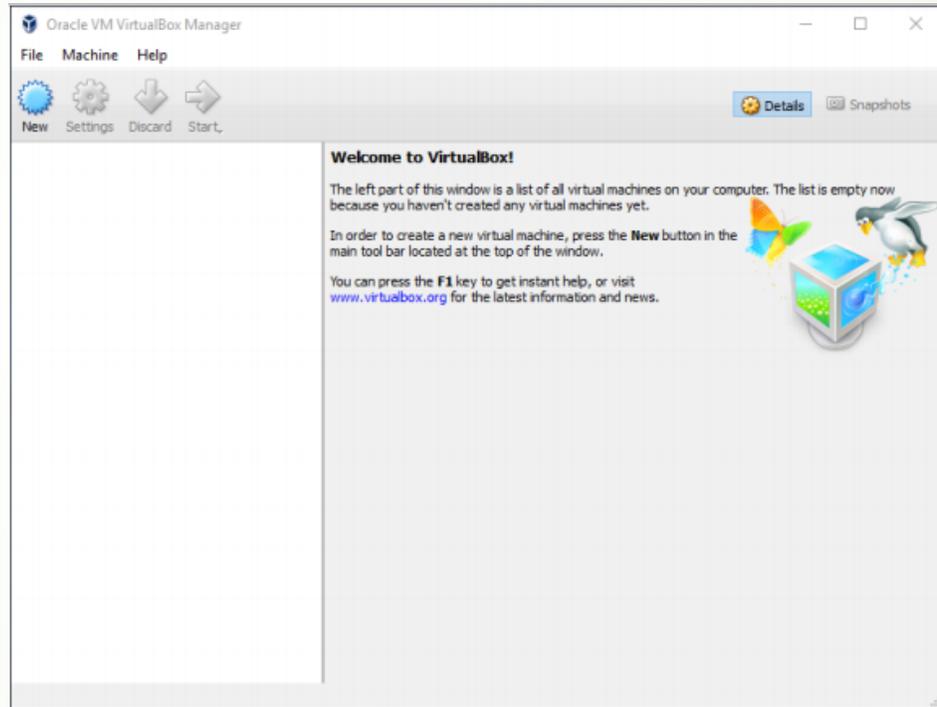


Figure 2.6 VirtualBox's Start Screen

?

×

← Create Virtual Machine

Name and operating system

Please choose a descriptive name for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.

Name:

Type: 

Version: 

?

×

← Create Virtual Machine

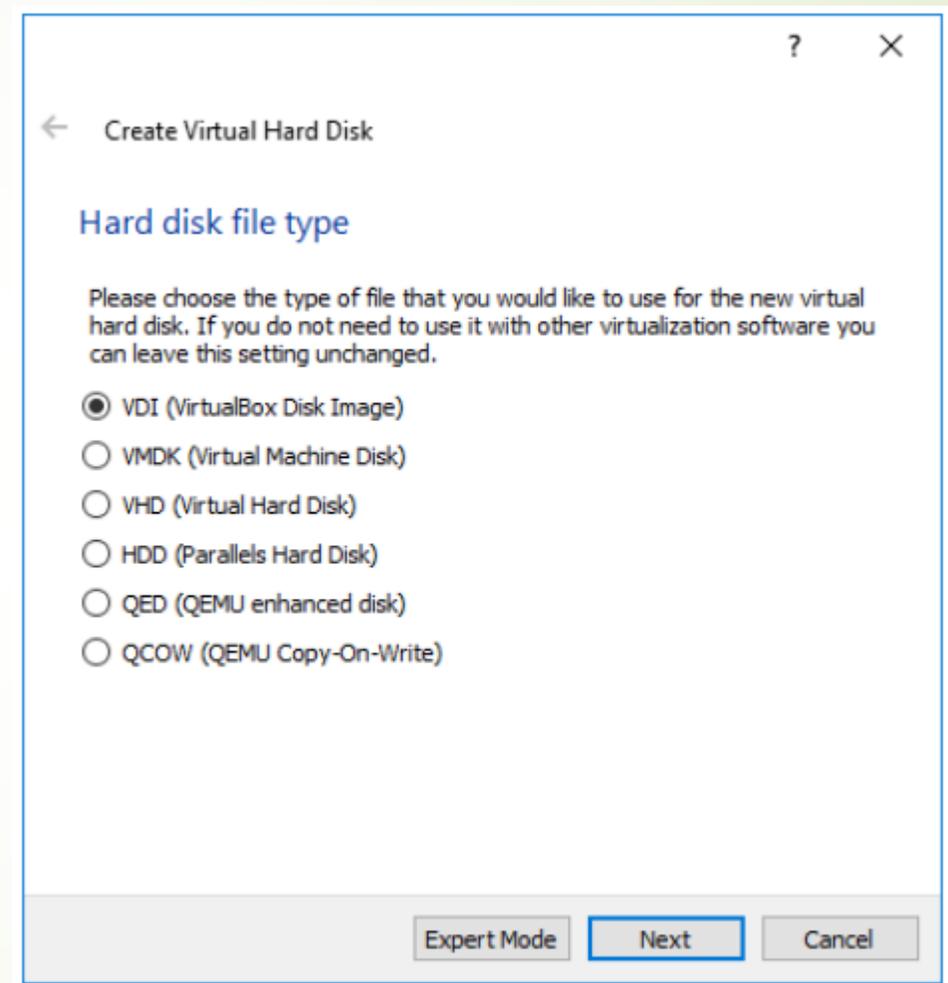
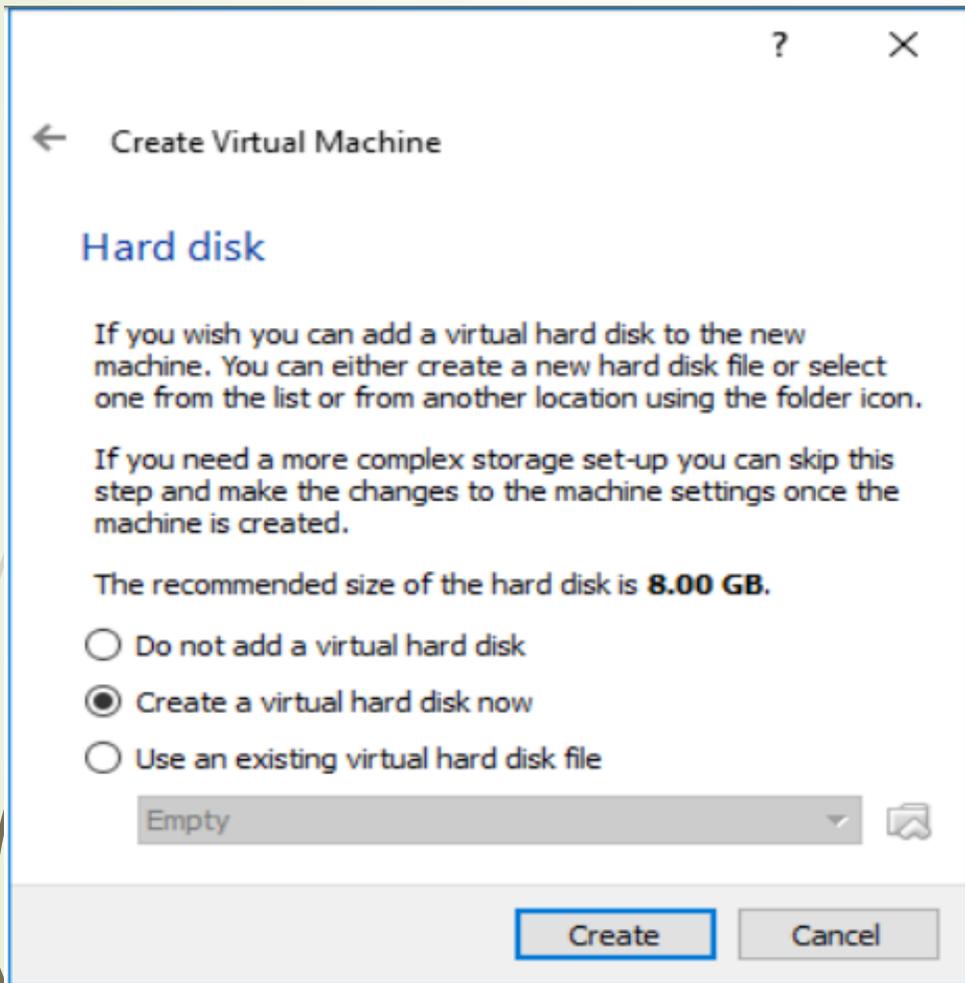
Memory size

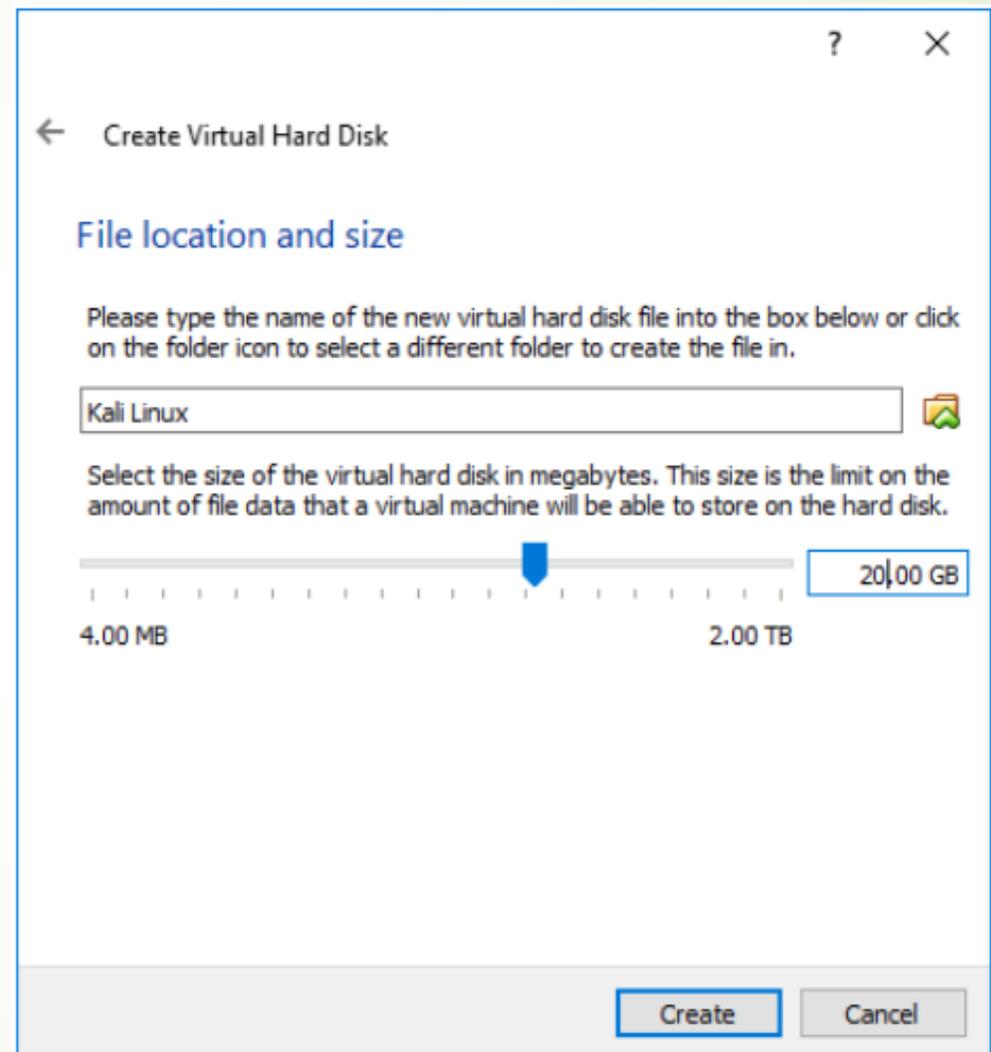
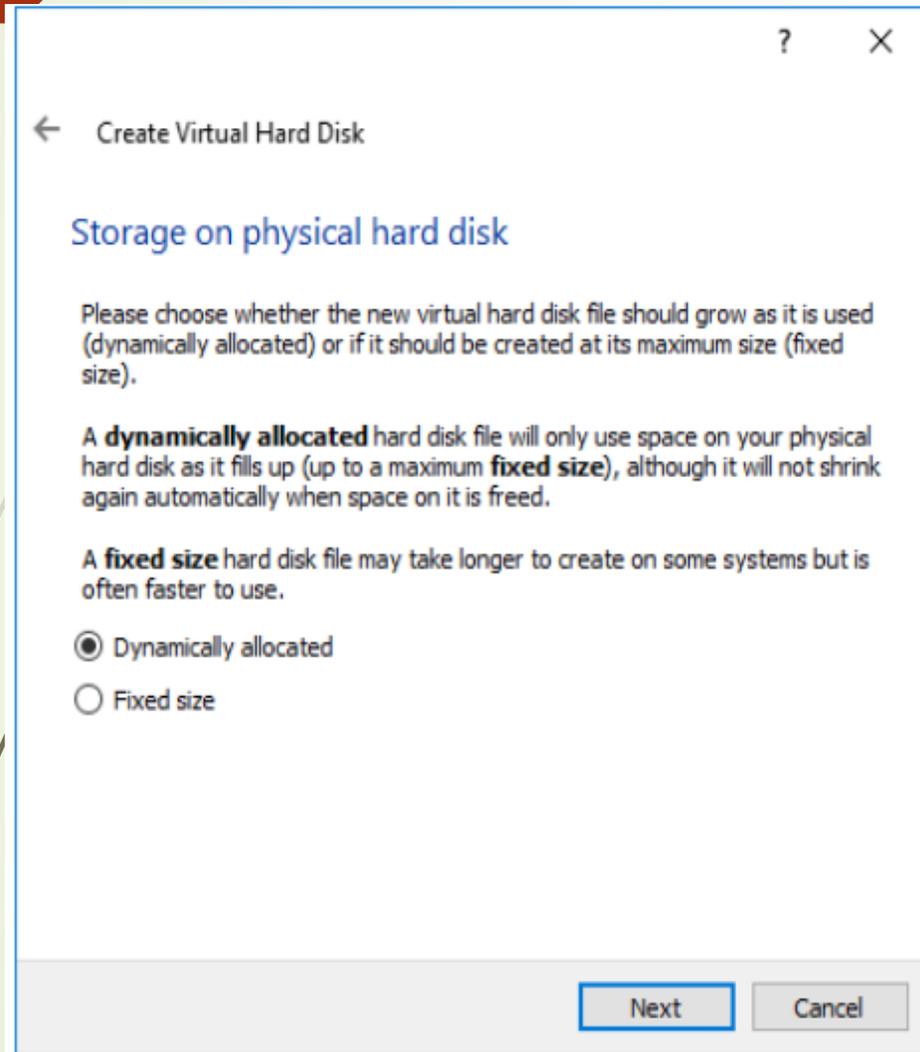
Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.

The recommended memory size is **768 MB**.

MB

4 MB 4096 MB





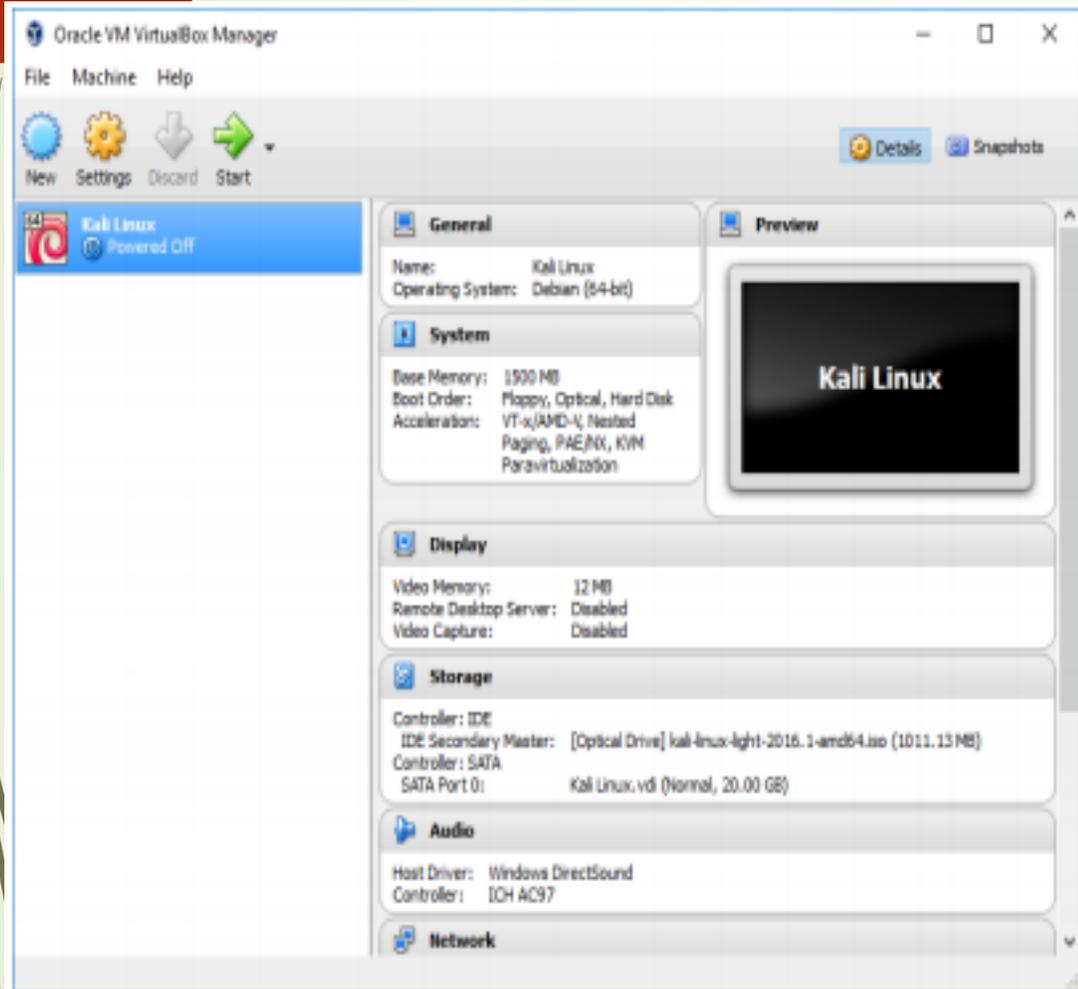


Figure 2.13 The New Virtual Machine Appears in the List

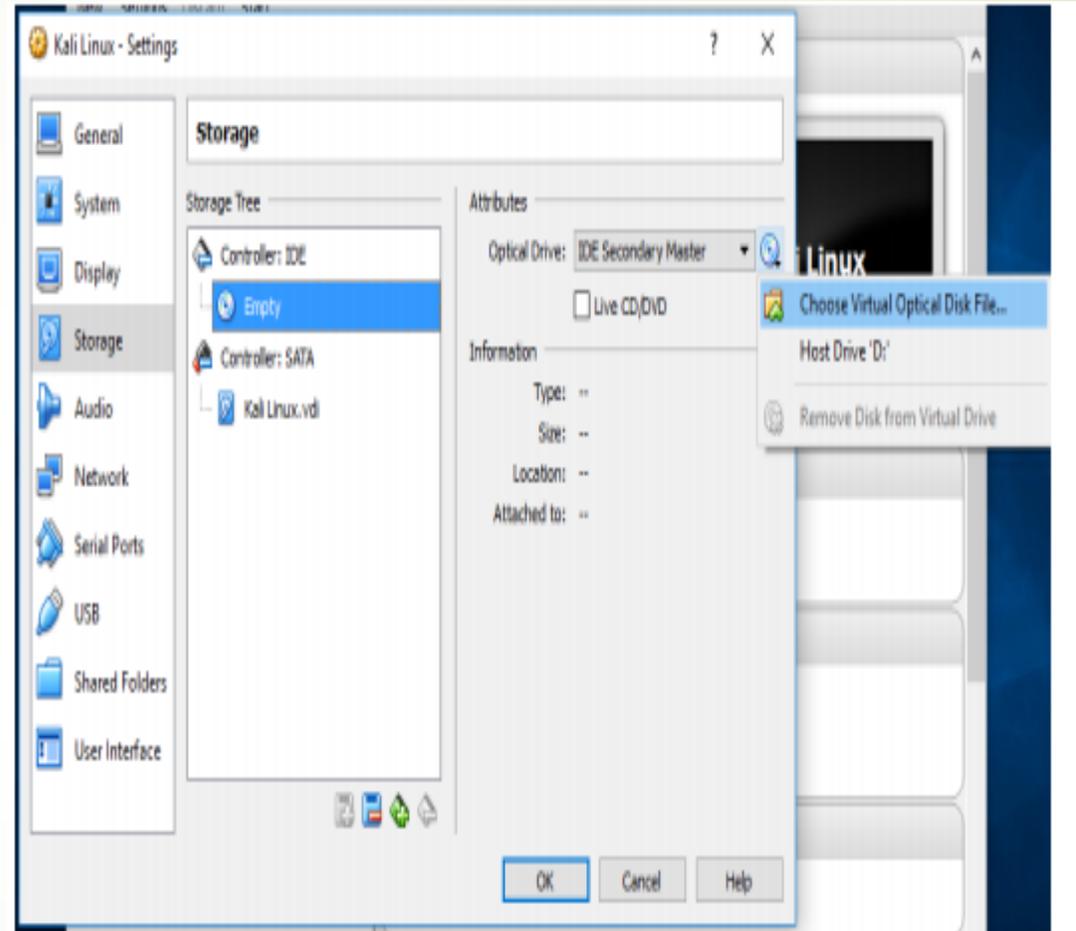


Figure 2.14 Storage Settings

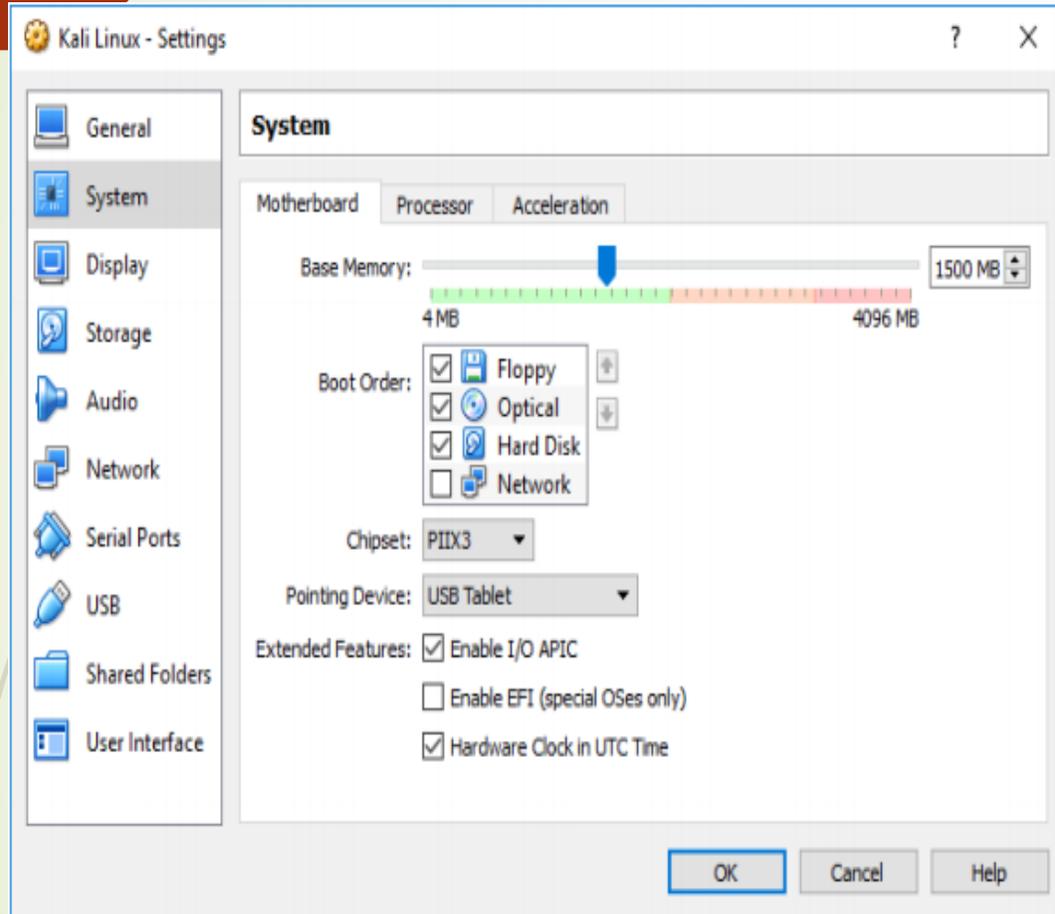


Figure 2.15 System Settings: Motherboard

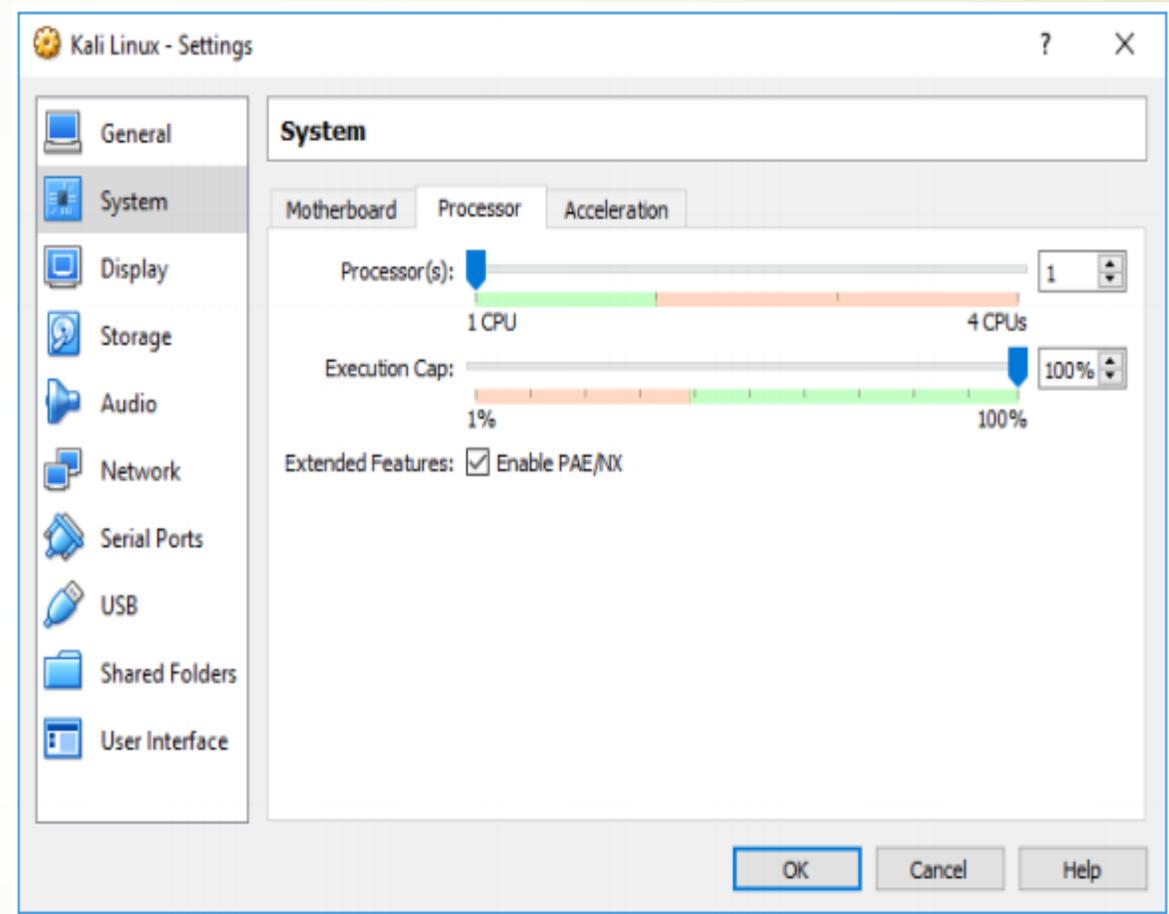


Figure 2.16 System Settings: Processor



“the quieter you become, the more you are able to hear”

```
Boot menu
Live (amd64)
Live (amd64 failsafe)
Live (forensic mode)
Live USB Persistence (check kali.org/prst)
Live USB Encrypted Persistence (check kali.org/prst)
Install
Graphical install
Install with speech synthesis
Advanced options
```



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:

- Chinese (Simplified) - 中文(简体)
- Chinese (Traditional) - 中文(繁體)
- Croatian - Hrvatski
- Czech - Čeština
- Danish - Dansk
- Dutch - Nederlands
- Dzongkha - ཅེལ་
- English - English
- Esperanto - Esperanto
- Estonian - Eesti
- Finnish - Suomi
- French - Français
- Galician - Galego
- Georgian - ქართული
- German - Deutsch
- Greek - Ελληνικά

Screenshot

Go Back

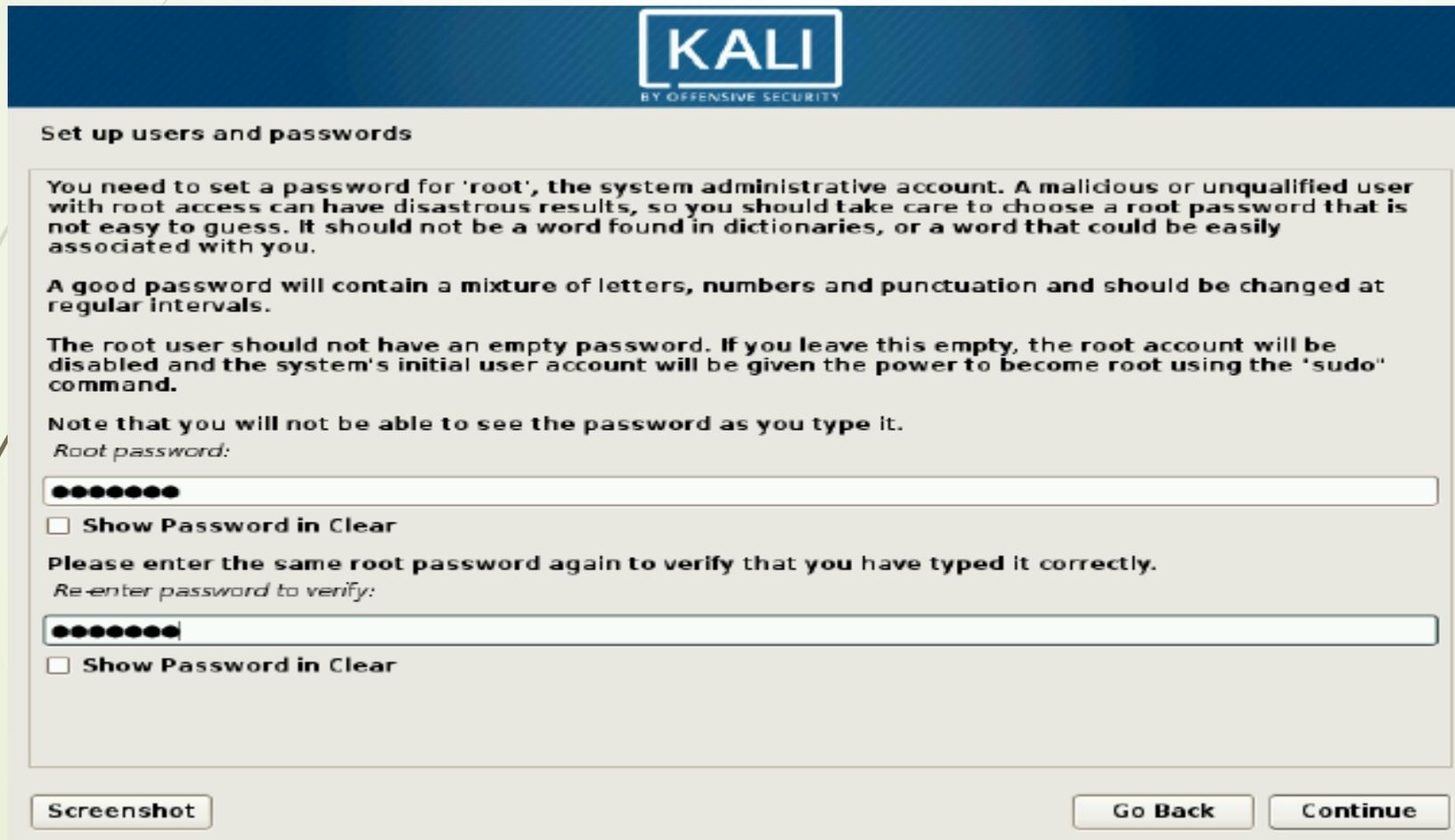
Continue

Selecting the Keyboard Layout



Root Password

The installer prompts for a password (Figure 4.6, “Root Password” [page 72]) since it automatically creates a super-user root account. The installer also asks for a confirmation of the password to prevent any input error which would later be difficult to adjust.



The screenshot shows the 'Set up users and passwords' screen from the Kali Linux installer. At the top, there is a blue header with the 'KALI' logo and the tagline 'BY OFFENSIVE SECURITY'. Below the header, the title 'Set up users and passwords' is displayed. The main content area contains several paragraphs of instructions and two password input fields. The first paragraph explains the importance of setting a strong password for the root user. The second paragraph provides guidelines for a good password. The third paragraph states that the root user should not have an empty password. The fourth paragraph notes that the password will not be visible as it is typed. Below this, there is a text input field for the root password, which is currently filled with ten black dots. To the left of the field is a checkbox labeled 'Show Password in Clear'. The second paragraph of instructions asks the user to re-enter the password to verify it. Below this, there is another text input field for the password, also filled with ten black dots, with a 'Show Password in Clear' checkbox to its left. At the bottom of the screen, there are three buttons: 'Screenshot', 'Go Back', and 'Continue'.

KALI
BY OFFENSIVE SECURITY

Set up users and passwords

You need to set a password for 'root', the system administrative account. A malicious or unqualified user with root access can have disastrous results, so you should take care to choose a root password that is not easy to guess. It should not be a word found in dictionaries, or a word that could be easily associated with you.

A good password will contain a mixture of letters, numbers and punctuation and should be changed at regular intervals.

The root user should not have an empty password. If you leave this empty, the root account will be disabled and the system's initial user account will be given the power to become root using the 'sudo' command.

Note that you will not be able to see the password as you type it.

Root password:

●●●●●●

Show Password in Clear

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

Re-enter password to verify:

●●●●●●

Show Password in Clear

Screenshot Go Back Continue

Configuring the Clock

If the network is available, the system's internal clock will be updated from a network time protocol(NTP) server. This is beneficial because it ensures timestamps on logs will be correct from the first boot.

If your country spans multiple time zones, you will be asked to select the timezone that you want to use, "Timezone Selection"

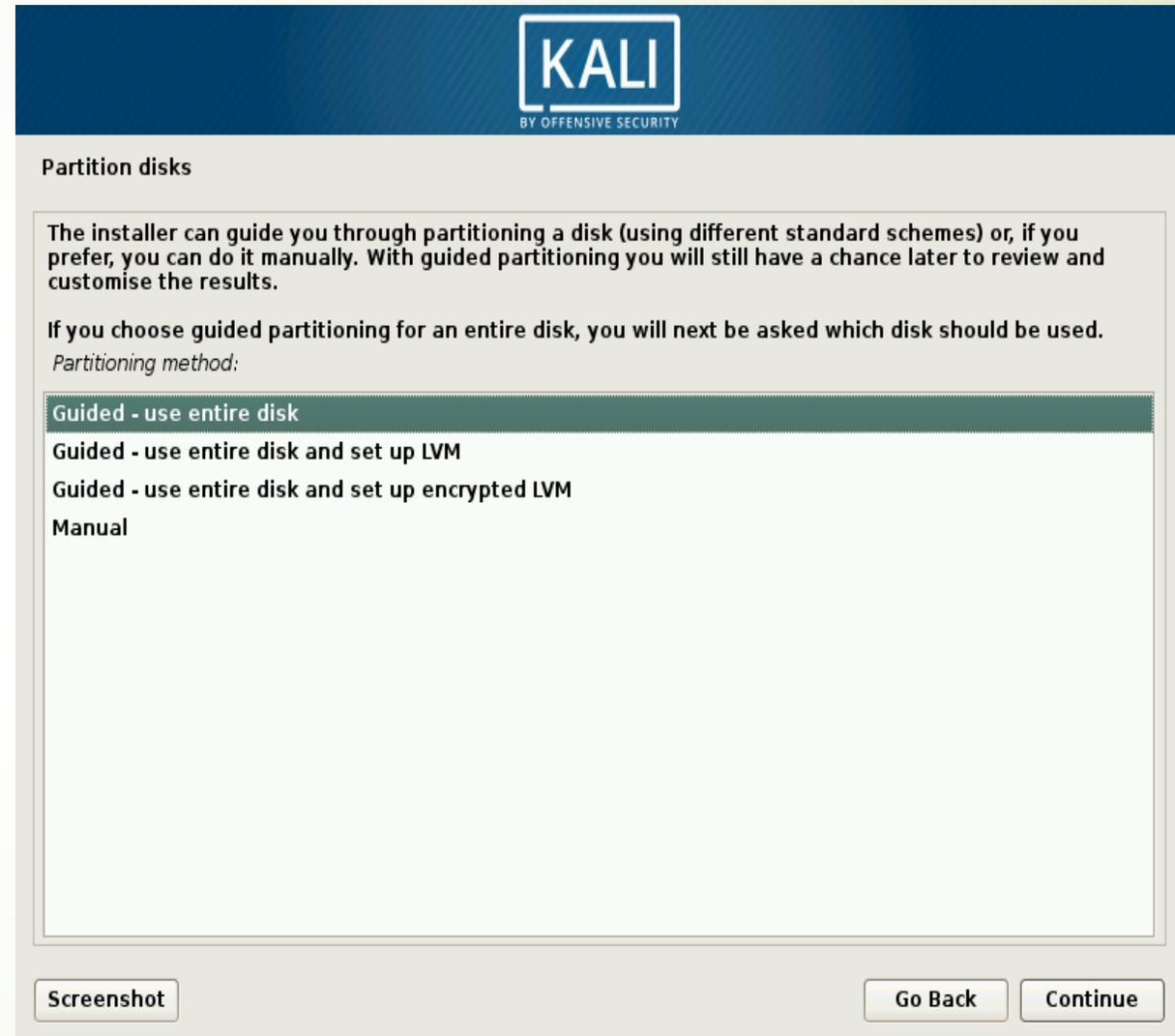


Partitioning

Partitioning is an indispensable step in installation, which consists of dividing the available space on the hard drives into discrete sections (partitions) according to the intended function of the computer and those partitions. Partitioning also involves choosing the file systems to be used. All of these decisions will have an influence on performance, data security, and server administration.

The partitioning step is traditionally difficult for new users. However, the Linux file systems and partitions, including virtual memory (or swap partitions) must be defined as they form the foundation of the system. This task can become complicated if you have already installed another operating system on the machine and you want the two to coexist. In this case, you must make sure not to alter its partitions, or if need be, resize them without causing damage.

To accommodate more common (and simpler) partition schemes, most users will prefer the Guided mode that recommends partition configurations and provides suggestions each step of the way. More advanced users will appreciate the Manual mode, which allows for more advanced configurations. Each mode shares certain capabilities.



Partitioning

Guided Partitioning The first screen in the partitioning tool “Choice of Partitioning Mode” presents entry points for the guided and manual partitioning modes. “Guided -use entire disk” is the simplest and most common partition scheme, which will allocate an entire disk to Kali Linux.

The next two selections use Logical Volume Manager (LVM) to set up logical (instead of physical), optionally encrypted, partitions. We will discuss LVM and encryption later in this chapter. Finally, the last choice initiates manual partitioning, which allows for more advanced partitioning schemes, such as installing Kali Linux alongside other operating systems.

The next screen (“Disk to Use for Guided Partitioning”) allows you to choose the disk where Kali will be installed by selecting the corresponding entry (for example, “Virtual disk 1 (vda) - 32.2 GB Virtio Block Device”). Once selected, guided partitioning will continue. This option will erase all of the data on this disk, so choose wisely.



Next, the guided partitioning tool offers three partitioning methods, which correspond to different usages,





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.

Guided partitioning

Configure software RAID

Configure the Logical Volume Manager

Configure encrypted volumes

Configure iSCSI volumes

Virtual disk 1 (vda) - 32.2 GB Virtio Block Device

- > #1 primary 30.1 GB f ext4 /
- > #5 logical 2.1 GB f swap swap

Undo changes to partitions

Finish partitioning and write changes to disk

Screenshot

Help

Go Back

Continue



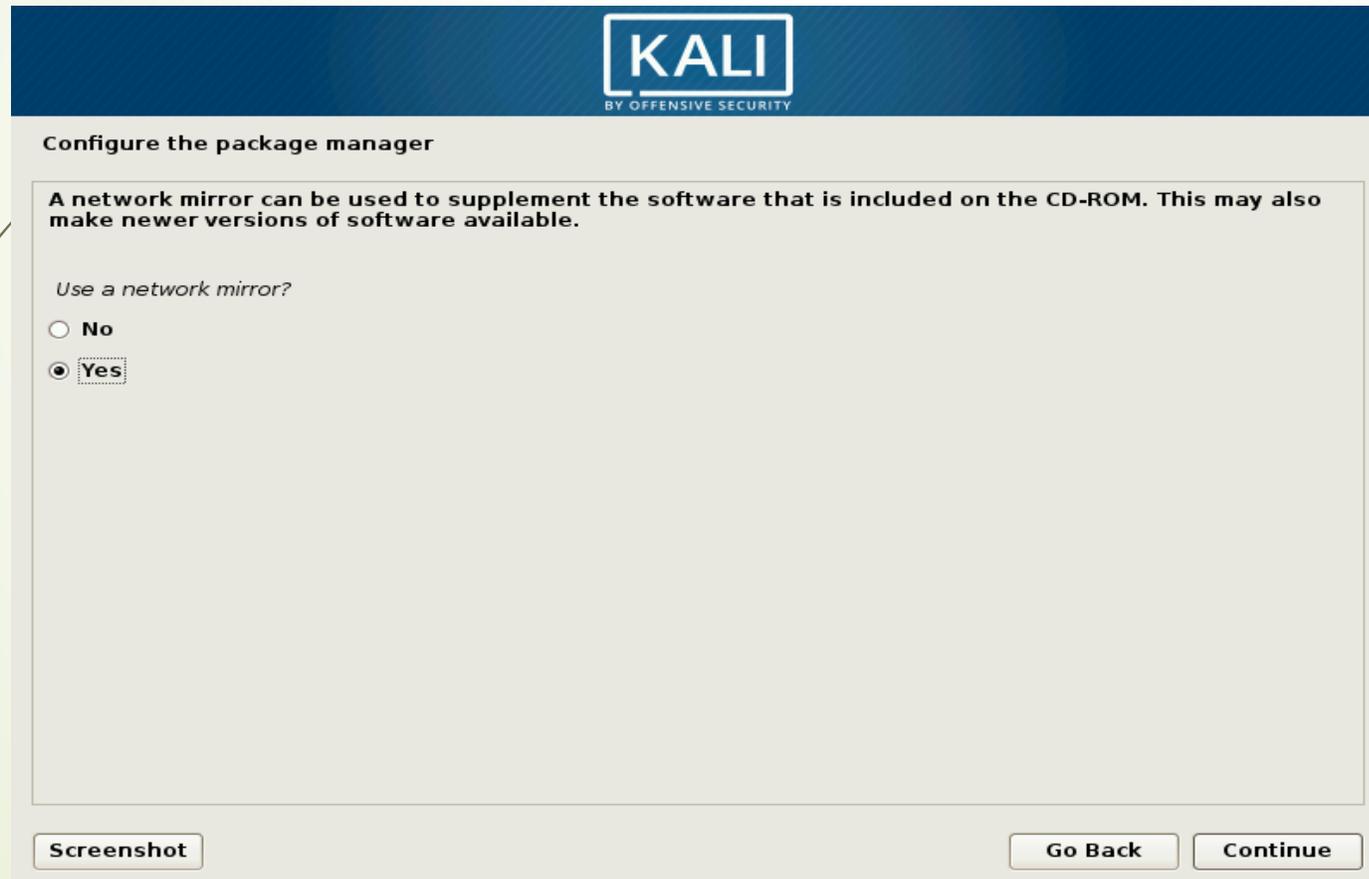
Install the system

Installing the system...

Copying data to disk...

Configuring the Package Manager (apt)

In order to be able to install additional software, APT needs to be configured and told where to find Debian packages. In Kali, this step is mostly non-interactive as we force the mirror to be `http.kali.org`. You just have to confirm whether you want to use this mirror ("Use a Network Mirror). If you don't use it, you won't be able to install supplementary packages with `apt` unless you configure a package repository later



The screenshot shows a configuration window titled "Configure the package manager" with the Kali logo at the top. The window contains the following text and options:

Configure the package manager

A network mirror can be used to supplement the software that is included on the CD-ROM. This may also make newer versions of software available.

Use a network mirror?

No

Yes

At the bottom of the window, there are three buttons: "Screenshot", "Go Back", and "Continue".



Configure the package manager

If you need to use a HTTP proxy to access the outside world, enter the proxy information here. Otherwise, leave this blank.

The proxy information should be given in the standard form of "http://[[user]:[pass]@]host[:port]"/".

HTTP proxy information (blank for none):

Screenshot

Go Back

Continue



Install the GRUB boot loader on a hard disk

It seems that this new installation is the only operating system on this computer. If so, it should be safe to install the GRUB boot loader to the master boot record of your first hard drive.

Warning: If the installer failed to detect another operating system that is present on your computer, modifying the master boot record will make that operating system temporarily unbootable, though GRUB can be manually configured later to boot it.

Install the GRUB boot loader to the master boot record?

- No
- Yes

Screenshot

Go Back

Continue



Install the GRUB boot loader on a hard disk

You need to make the newly installed system bootable, by installing the GRUB boot loader on a bootable device. The usual way to do this is to install GRUB on the master boot record of your first hard drive. If you prefer, you can install GRUB elsewhere on the drive, or to another drive, or even to a floppy.

Device for boot loader installation:

Enter device manually

/dev/vda

Screenshot

Go Back

Continue



Finish the installation



Installation complete

Installation is complete, so it is time to boot into your new system. Make sure to remove the installation media, so that you boot into the new system rather than restarting the installation.

Screenshot

Go Back

Continue