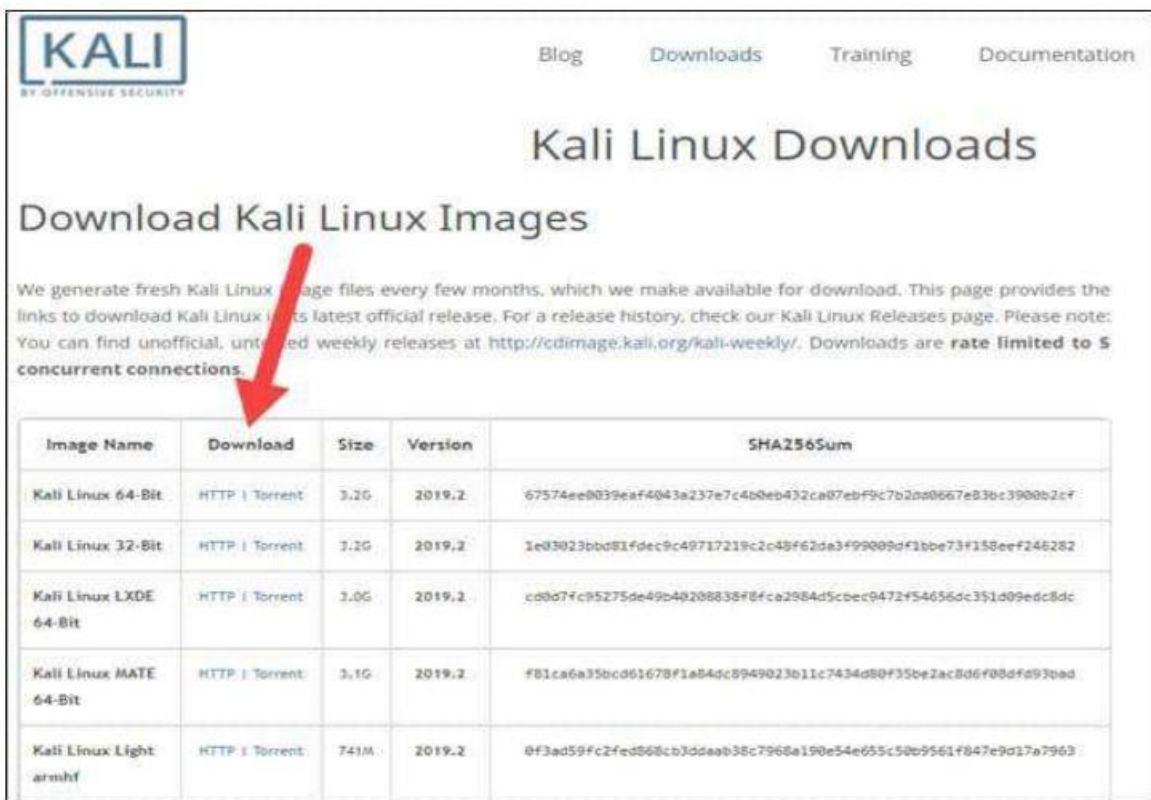


Week (1): Installing Kali Linux on Windows machine:

Kali Linux: is a Debian-derived Linux distribution designed for penetration testing. With over 600 preinstalled penetration-testing programs, it earned a reputation as one of the best operating systems used for security testing. As a security-testing platform, it is best to install Kali as a VM on VirtualBox.

Step (1): Download Kali Linux ISO Image:

Depending on the system you have, download the 64-bit or 32-bit version.



We generate fresh Kali Linux image files every few months, which we make available for download. This page provides the links to download Kali Linux's latest official release. For a release history, check our Kali Linux Releases page. Please note: You can find unofficial, untested weekly releases at <http://cdimage.kali.org/kali-weekly/>. Downloads are **rate limited to 5 concurrent connections**.

Image Name	Download	Size	Version	SHA256Sum
Kali Linux 64-Bit	HTTP Torrent	3.2G	2019.2	67574ee8039eaf4043a237e7c4b0eb432ca87ebf9c7b20a0667e83bc3900b2cf
Kali Linux 32-Bit	HTTP Torrent	3.2G	2019.2	1e03023b0d81fdec9c49717219c2c48f62de3f99009df1bbe73f158ee246282
Kali Linux LXDE 64-Bit	HTTP Torrent	3.0G	2019.2	cd0b7fc95275de49b40208838f8fca2084d5cbe9472f54656dc351d09edc8dc
Kali Linux MATE 64-Bit	HTTP Torrent	3.1G	2019.2	f81ca6a35bcd61678f1a84dc8949023b11c7434d80f35be2ac8d6f08df093bd
Kali Linux Light armhf	HTTP Torrent	741M	2019.2	0f3ad59fc2fed808cb3ddea038c7960a190e54e655c50b9561f847e9d17a7963

Step (2): Create Kali Linux VirtualBox Container:

You need to install VirtualBox. Download both the platform packages for Window hosts and VirtualBox Extension Pack.

After downloading the .iso image, create a new virtual machine and import Kali as its OS.

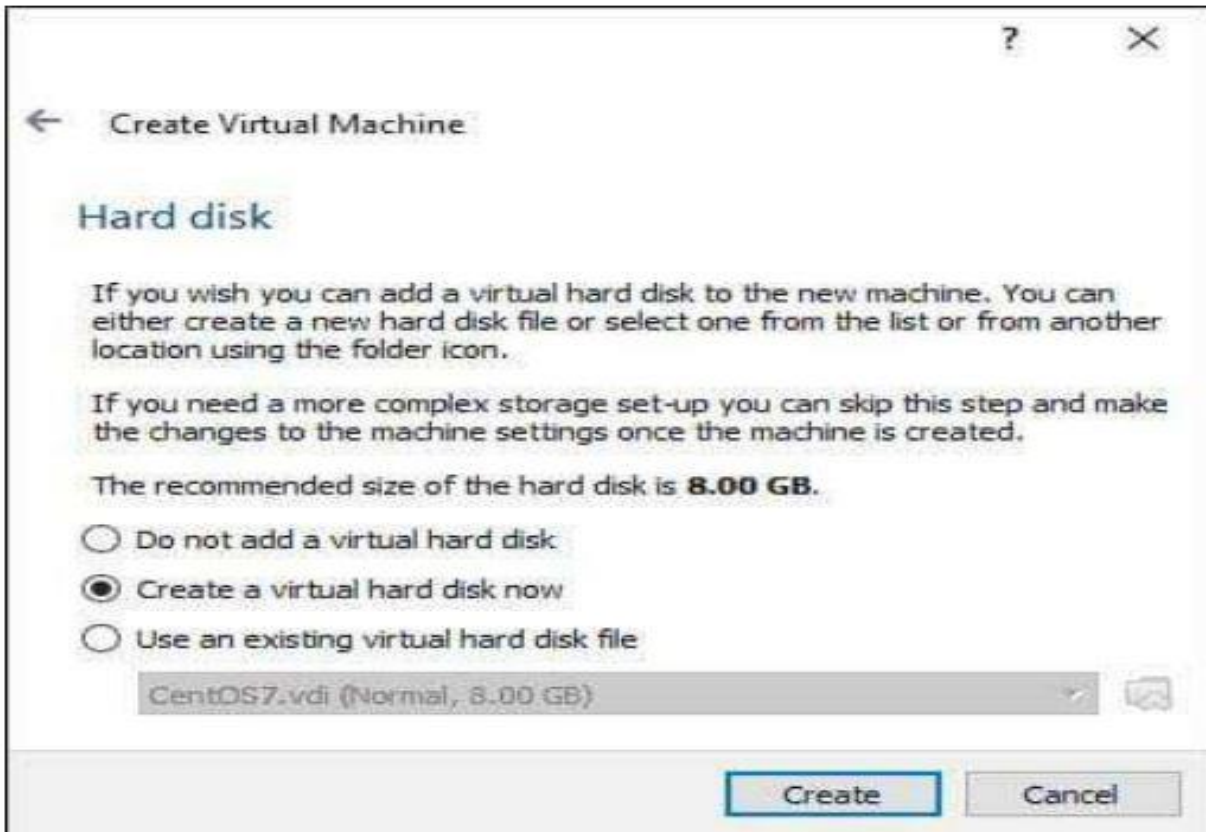
1. Launch VirtualBox Manager and click the new icon.

2. Name and operating system. A pop-up window for creating a new VM appears. Specify a name and a destination folder. The Type and Version change automatically, based on the name you provide. Make sure the information matches the package you downloaded and click next.



3. Memory size. Choose how much memory to allocate to the virtual machine and click next. The default setting for Linux is 1024 MB. However, this varies depending on your individual needs.

4. Hard disk. The default option is to create a virtual hard disk for the new VM. Click Create to continue. Alternatively, you can use an existing virtual hard disk file or decide not to add one at all.

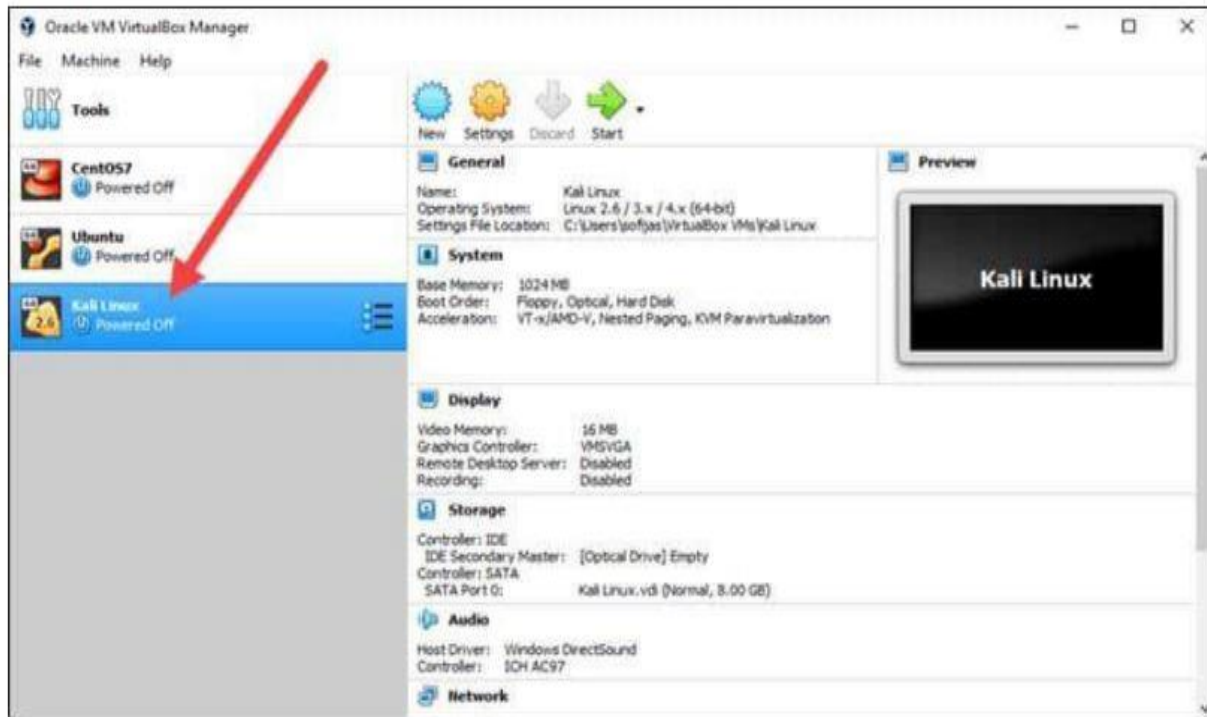


5. Hard disk file type. Stick to the default file type for the new virtual hard disk, VDI (VirtualBox Disk Image). Click Next to continue.

6. Storage on a physical hard disk. Decide between Dynamically allocated and fixed size. The first choice allows the new hard disk to grow and fill up the space dedicated to it. The second, fixed size, uses the maximum capacity from the start. Click Next.

7. File location and size. Specify the name and where you want to store the virtual hard disk. Choose the amount of file data the VM is allowed to store on the hard disk. We advise giving it at least 8 gigabytes. Click Create to finish.

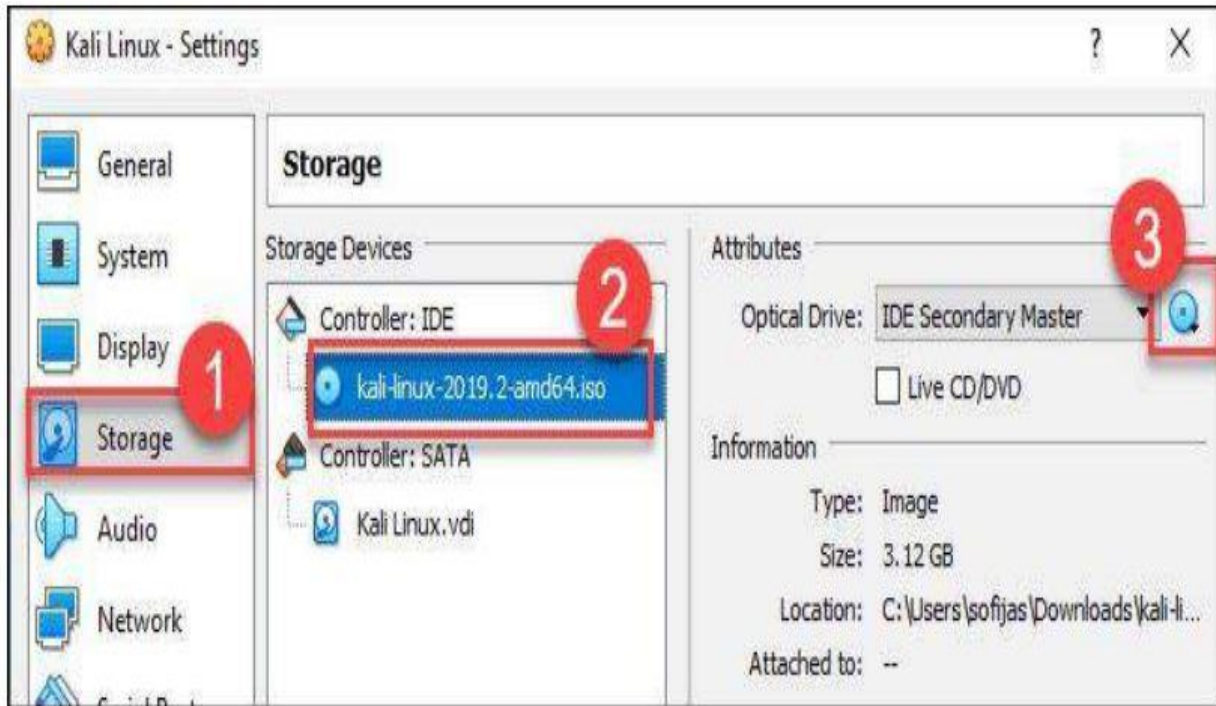
Now you created a new VM. The VM appears on the list in the VirtualBox Manager.



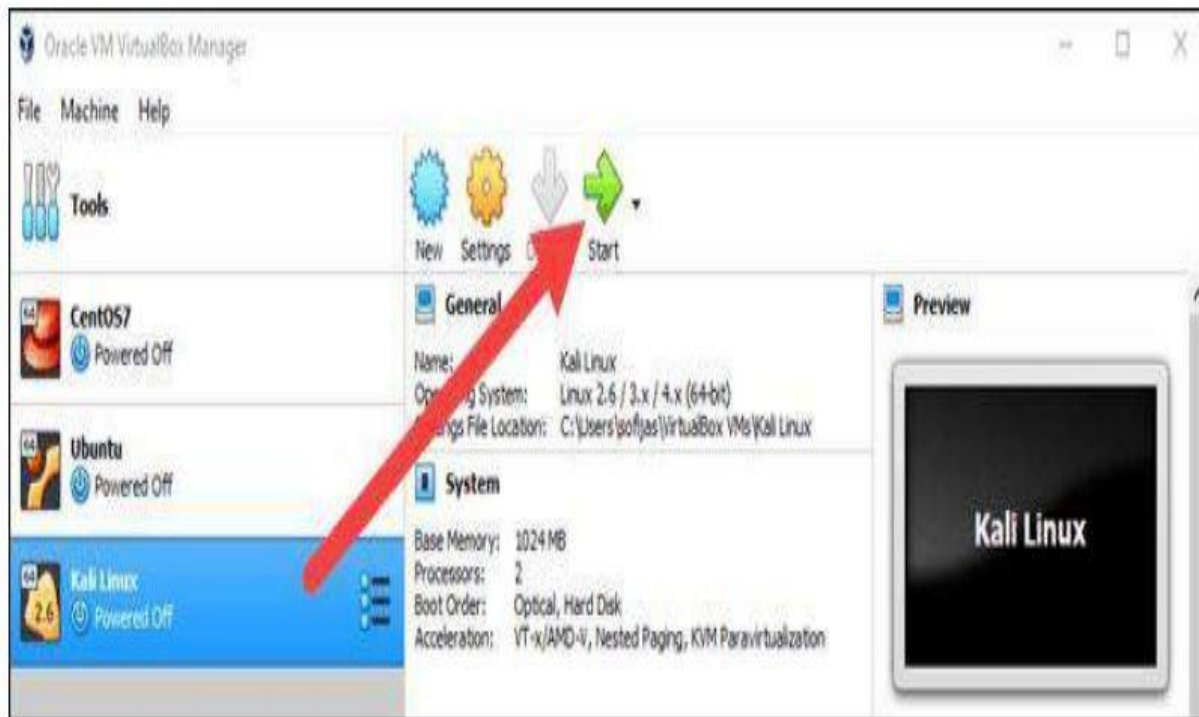
Step (3): Configure Virtual Machine Settings

The next step is adjusting the default virtual machine settings.

1. Select a virtual machine and click the Settings icon. Make sure you marked the correct VM and that the right-hand side is displaying details for Kali Linux.
2. Navigate to Storage settings. Add the downloaded Kali image to a storage device under Controller: IDE. Click the disk icon to search for the image. Once finished, close the Settings window.



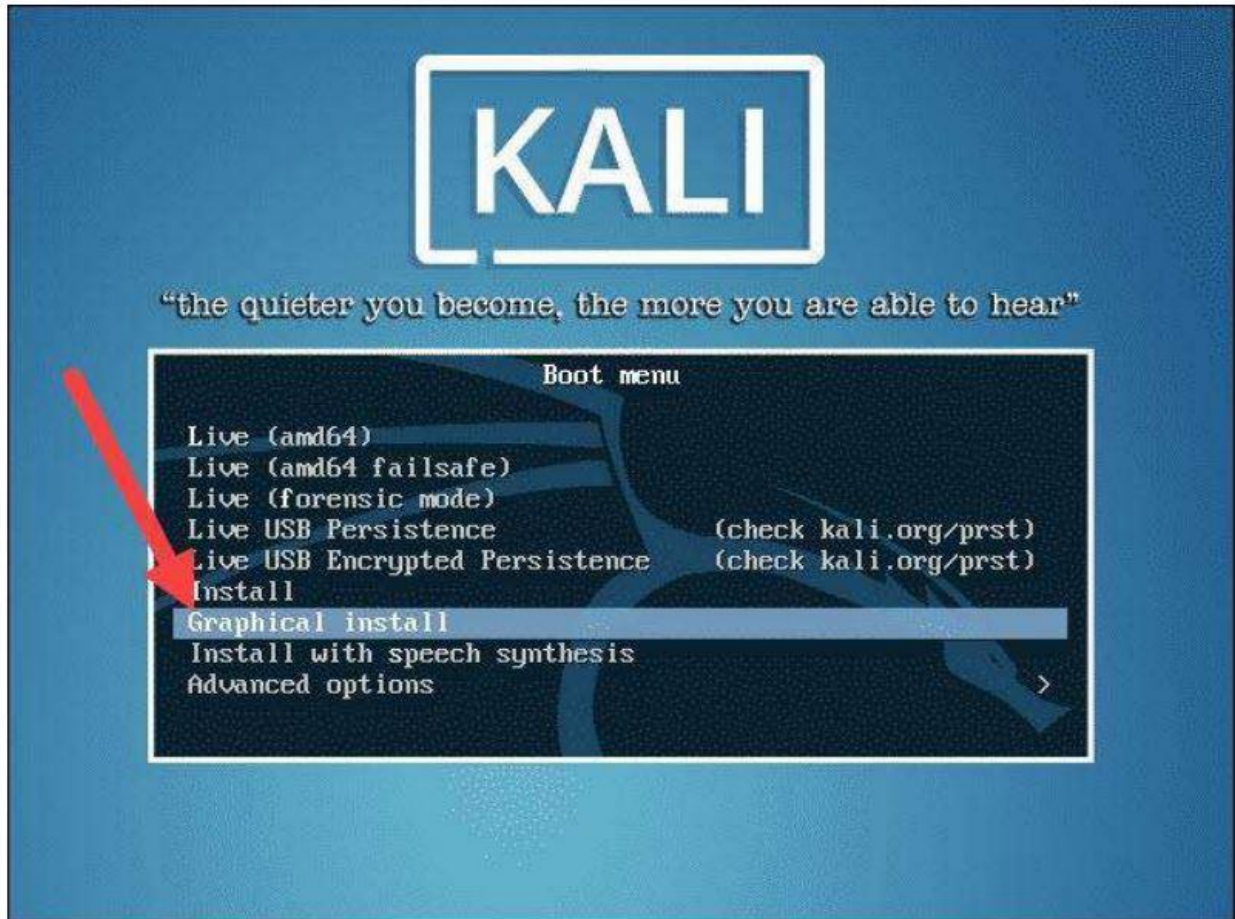
3. Click the Start icon to begin installing Kali.



Step 4: Installing and Setting Up Kali Linux

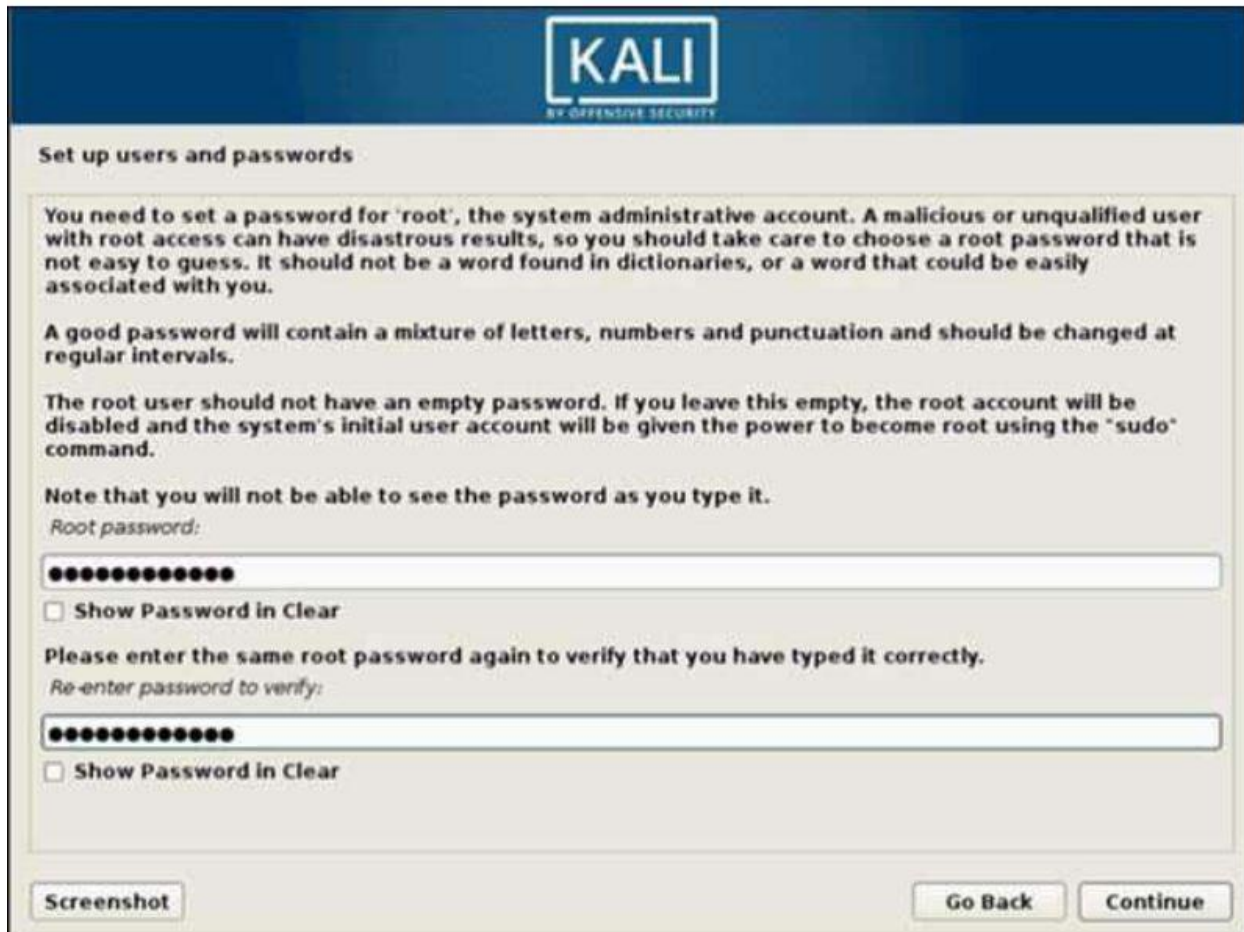
After you booted the installation menu by clicking Start, a new VM VirtualBox window appears with the Kali welcome screen.

Select the Graphical install option and go through the following installation steps for setting up Kali Linux in VirtualBox.



1. Select a language. Choose the default language for the system (which will also be the language used during the installation process).
2. Select your location. Find and select your country from the list (or choose "other").
3. Configure the keyboard. Decide which keymap to use. In most cases, the best option is to select American English.
4. Configure the network. First, enter a hostname for the system and click Continue.

5. Next, create a domain name (the part of your internet address after your hostname). Domain names usually end in .com, .net, .edu, etc. Make sure you use the same domain name on all your machines (leave it empty for now).
6. Set up users and passwords. Create a strong root password for the system administrator account.



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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.

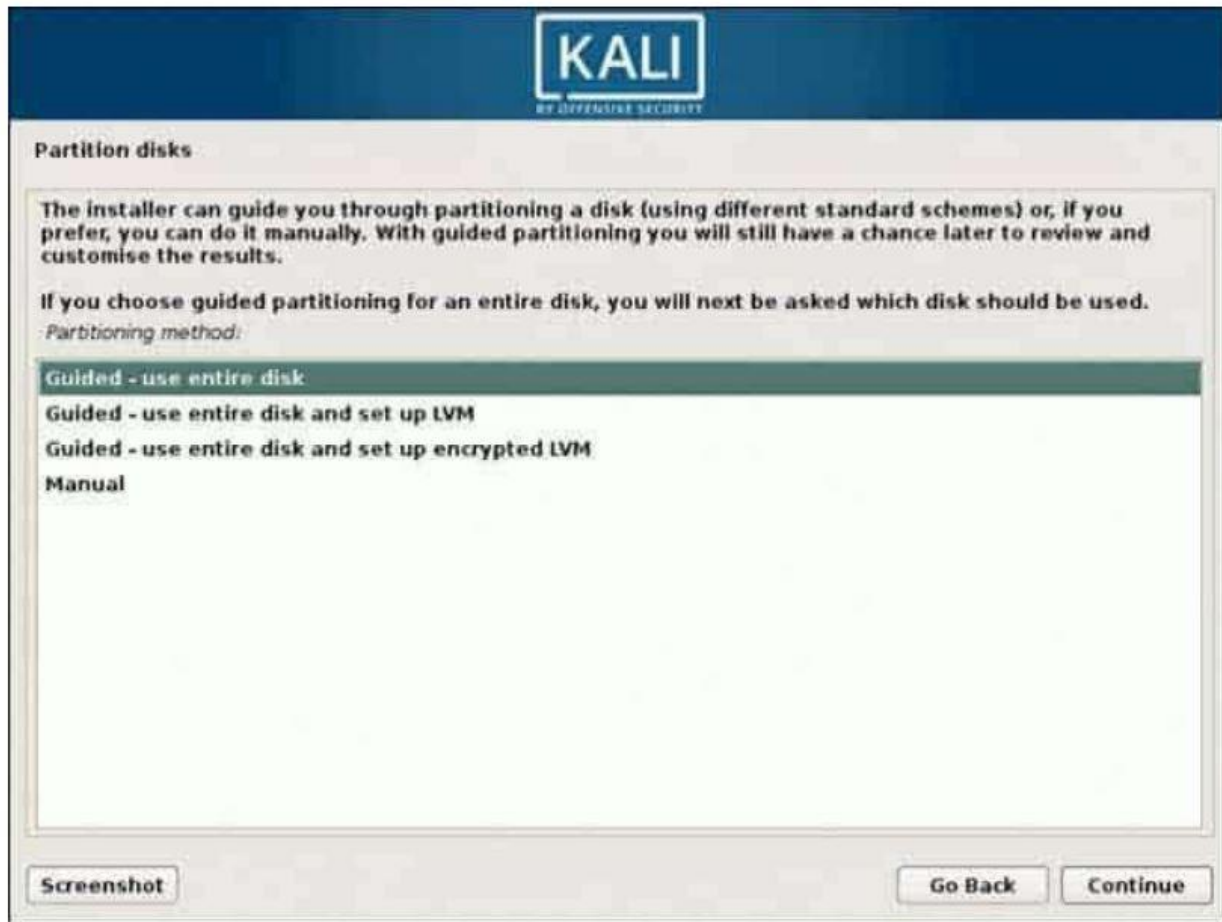
The root user should not have an empty password. If you leave this empty, the root account will be disabled and the system's initial user account will be given the power to become root using the "sudo" command.

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

Root password:

 Show Password in Clear

7. Configure the clock. Select your time zone from the available options.
8. Partition disks. Select how you would like to partition the hard disk. Unless you have a good reason to do it manually, go for the Guided –use entire disk option



9. Then, select which disk you want to use for partitioning. As you created a single virtual hard disk in Step 3: Adjust VM Settings, you do not have to worry about data loss. Select the only available option – SCSI3 (0,0,0) (sda) – 68.7 GB ATA VBOX HARDDISK (the details after the dash vary depending on your virtualization software).

10. Next, select the scheme for partitioning. If you are a new user, go for all files in one partition.

11. The wizard gives you an overview of the configured partitions. Continue by navigating to Finish partitioning and write changes to disk. Click Continue and confirm with Yes.

12. The wizard starts installing Kali. While the installation bar loads, additional configuration settings appear.

13. Configure the package manager. Select whether you want to use a network mirror and click Continue. Enter the HTTP proxy information if you are using one. Otherwise, leave the field blank and click Continue again.

14. Install the GRUB boot loader on a hard disk. Select Yes and Continue. Then, select a boot loader device to ensure the newly installed system is bootable.

15. Once you receive the message Installation is complete, click Continue to reboot your VM. With this, you have successfully installed Kali Linux on VirtualBox. After rebooting, the Kali login screen appears. Type in a username (root) and password you entered in the previous steps.

Finally, the interface of Kali Linux appears on your screen

