INSTALLATION OF KALI LINUX AND WINDOWS IN ORACLE VIRTUAL BOX

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1. Introduction

Kali Linux is a Debian-based Linux distribution widely used for penetration testing, ethical hacking, and cybersecurity research. This project documents the step-by-step process of installing Kali Linux on Oracle VirtualBox, a popular virtualization platform, to create a safe and isolated environment for cybersecurity training.

Installation Prerequisites

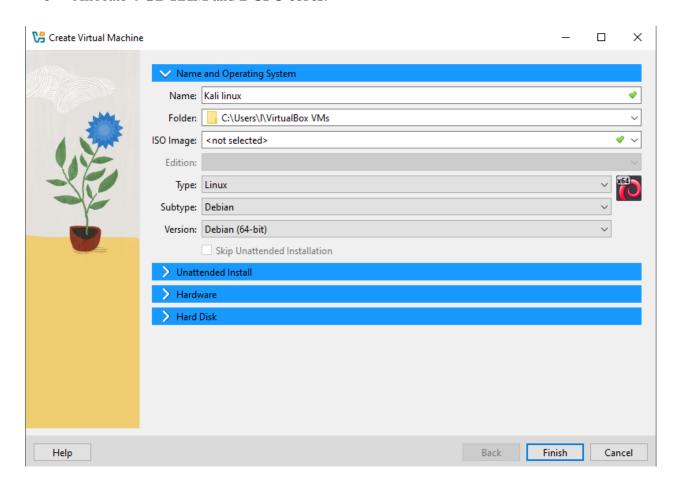
This guide will make also the following assumptions when installing Kali Linux:

- Install Oracle VirtualBox on a host machine.
- Configure a virtual machine (VM) for Kali Linux.
- Perform a guided installation of Kali Linux.
- Verify successful installation and basic functionality

Setting up Virtual Box

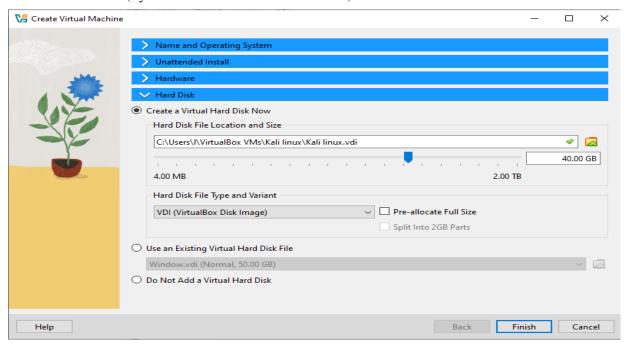
- 1. Download & Install Virtual Box
- Obtain VirtualBox from oracle
- o Follow the installation wizard to complete setup.
- 2. Create a New Virtual Machine
- Open VirtualBox and click New.
- Enter the VM name: "Kali Linux".
- Select **Type: Linux** and **Version: Debian (64-bit)**.

Allocate **4 GB RAM** and **2 CPU cores**.



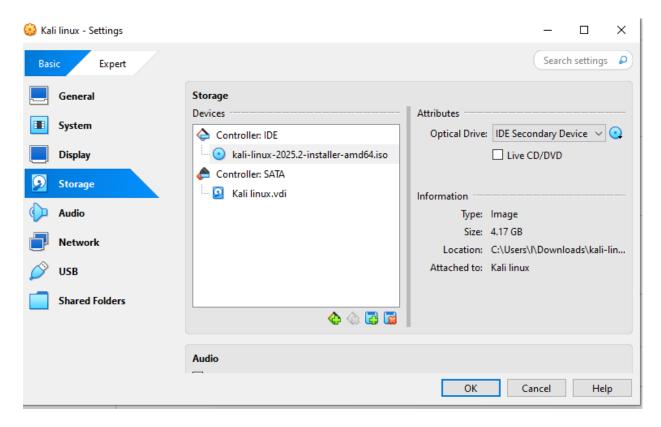
Configure Virtual Hard Disk

- Select "Create a virtual hard disk now".
- Choose VDI (VirtualBox Disk Image).
- Allocate **40 GB** (dynamic allocation recommended).



Installing Kali Linux

- 1. Attach Kali Linux ISO
- o Go to **Settings** > **Storage**.
- o Under Controller: IDE, select the Kali Linux ISO file.



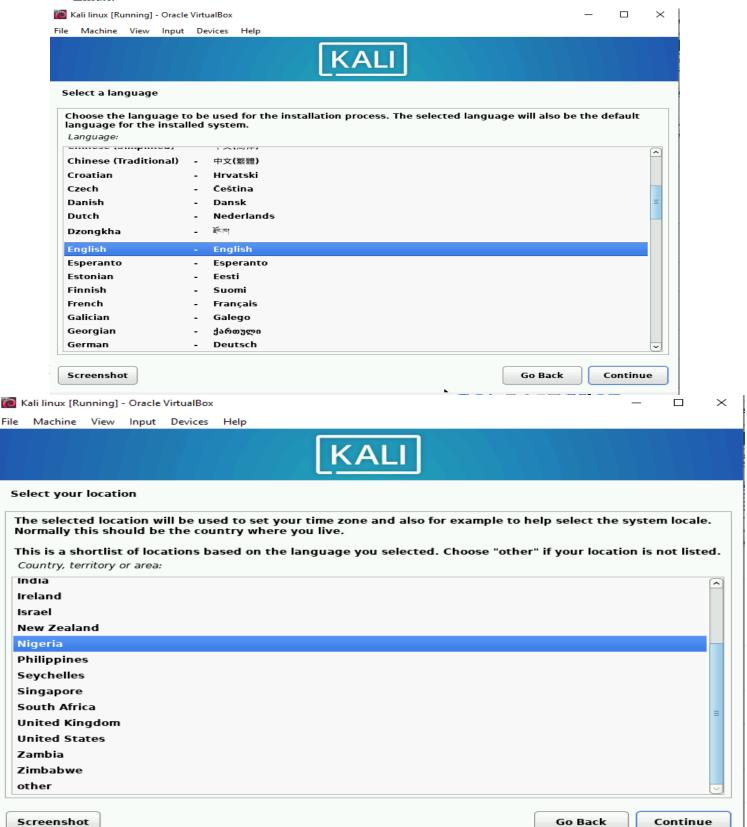
Kali Linux Installation Procedure

1. To start your installation, boot with your chosen installation medium. You should be greeted with the Kali Linux Boot screen. Choose either **Graphical install** or **Install** (Text-Mode). In this example, we chose the Graphical install.

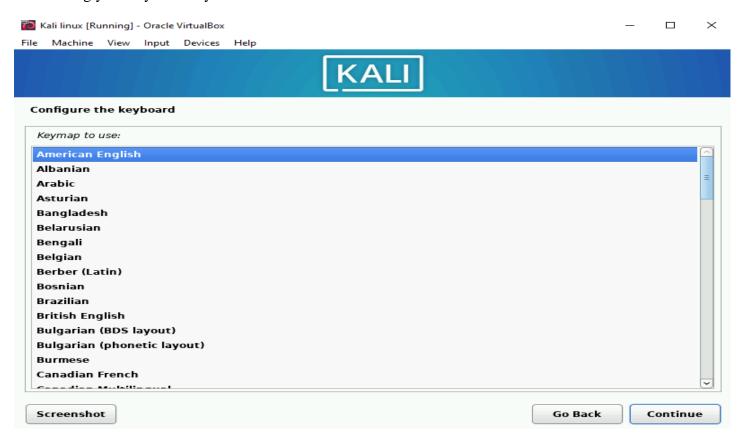


LANGUAGE

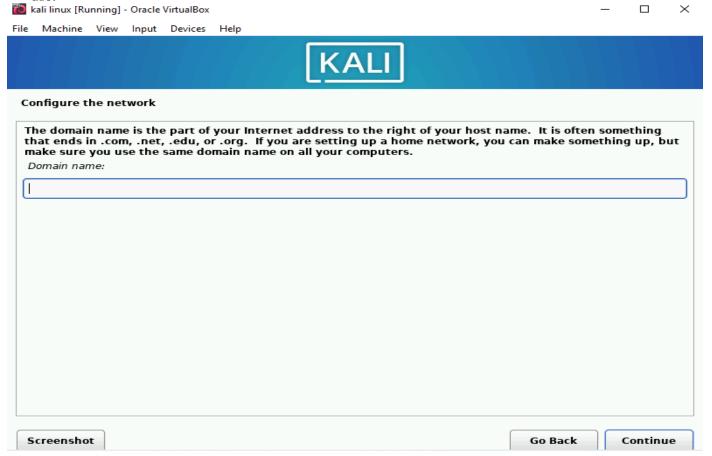
2. Select your preferred language. This will be used for both the setup process and once you are using Kali Linux.



4. Selecting your keyboard layout.

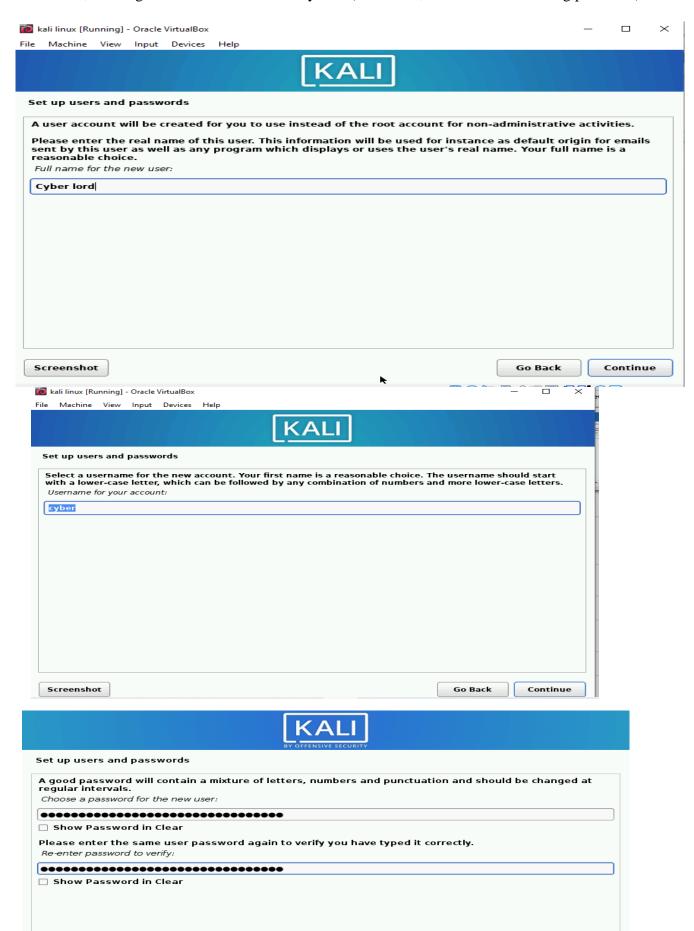


6. You may optionally provide a default domain name for this system to use. Preferred to be blank for local use.

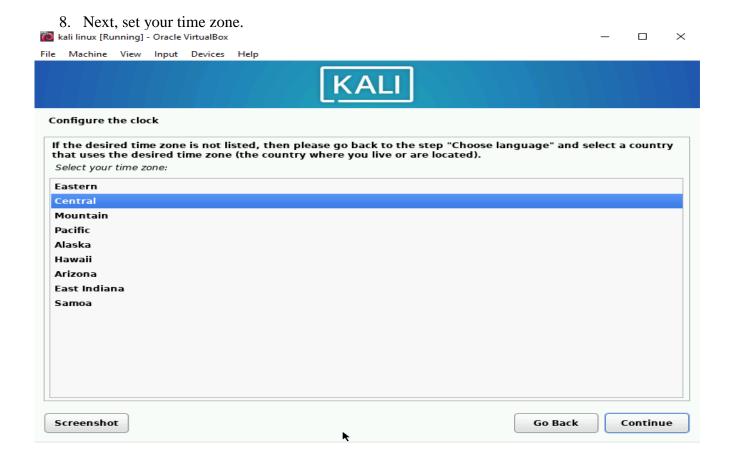


User Accounts

7. Next, creating the user account for the system (Full name, username and a strong password).



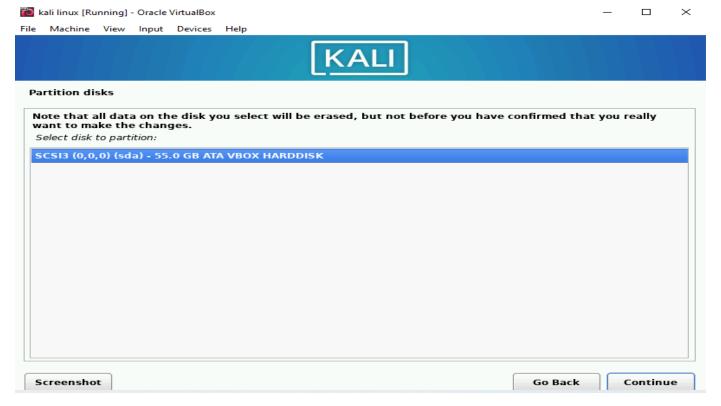
Clock



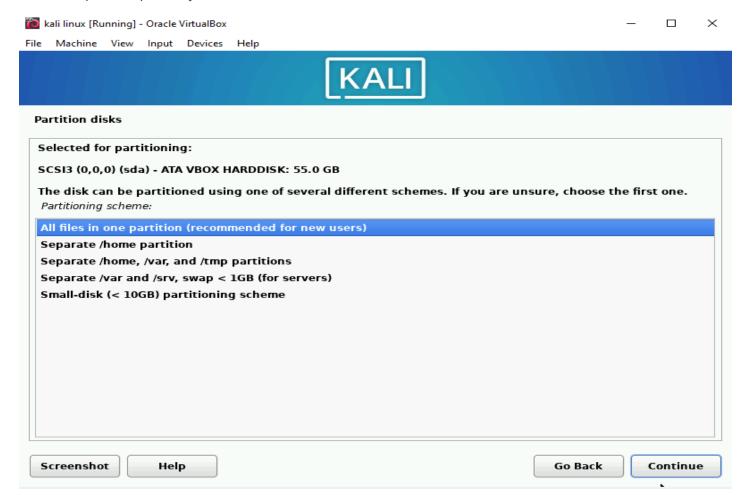
9. The installer will now scan your disks and present different setup options. Since we're using a **clean disk** for a **single-boot installation**, we'll select:

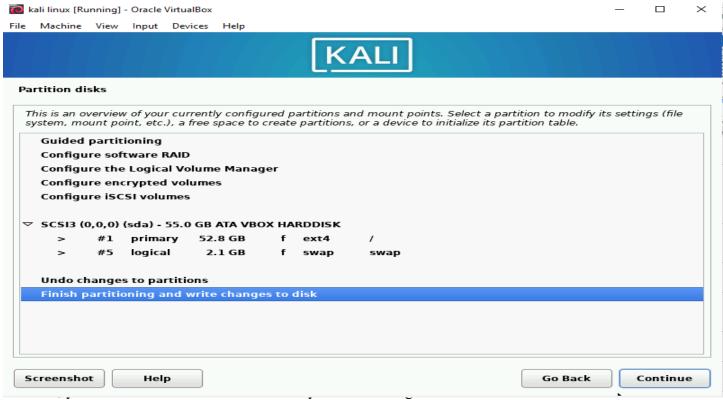


10. Select the disk to be partitioned.

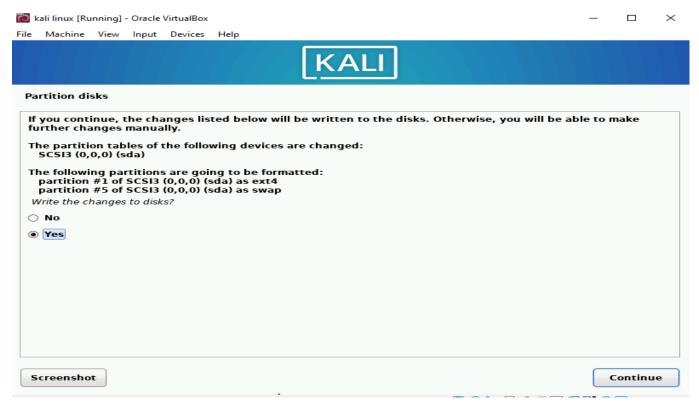


11. Keeping **all files in one partition** (the default option) is the easiest and recommended choice. This setup works perfectly for standard Kali Linux installations.

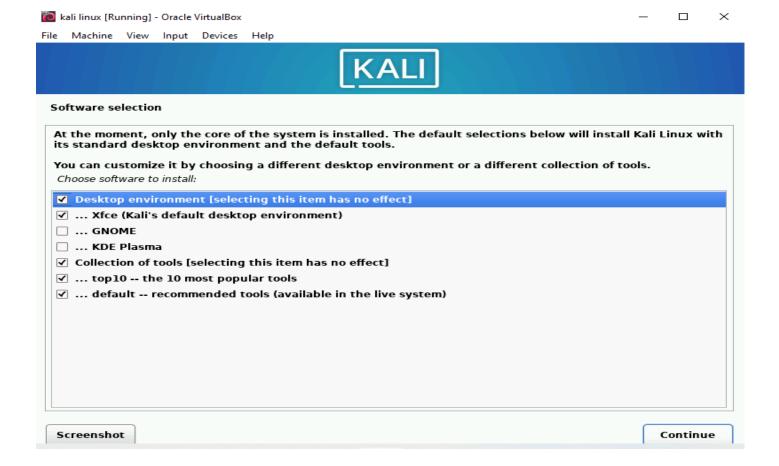




changes. After you click *Continue*, the installer will go to work and you'll have an almost finished installation.

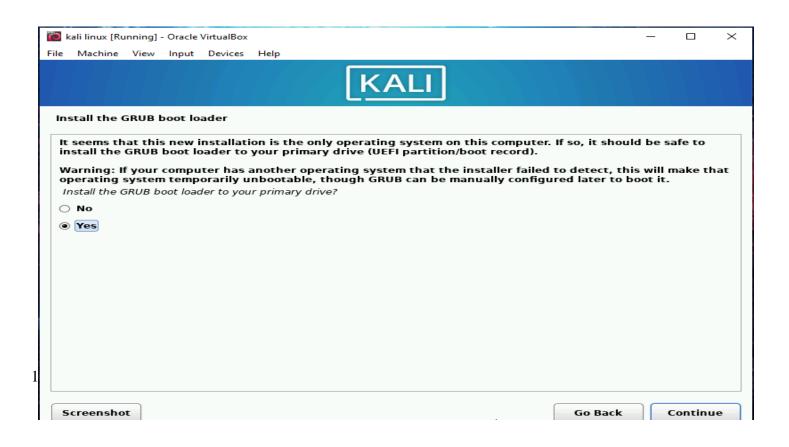


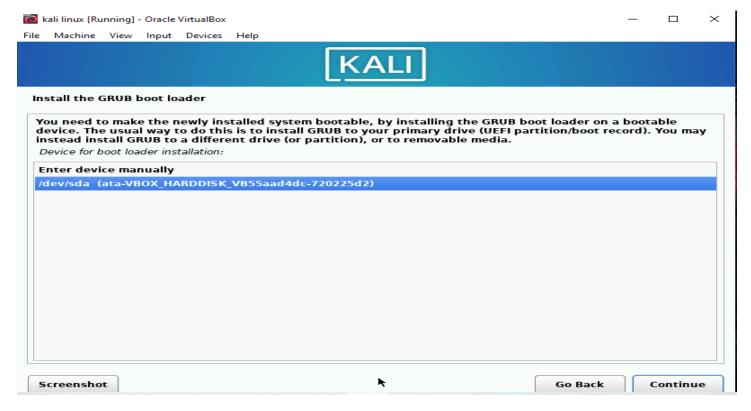
13. The default selections will install a standard Kali Linux system and you don't really have to change anything here.



BOOT INFORMATION

14. Next confirm to install the GRUB boot loader.





REBOOT

16. Finally, click Continue to reboot into your new Kali Linux installation



The installation Kali Linux is completed.