# Installing Kali Linux on Oracle VirtualBox: Step-by-Step Guide

## Why install Kali Linux on Oracle VirtualBox?

Installing Kali Linux on VirtualBox is a great choice for anyone learning a penetration testing and cybersecurity as it provides a safe, isolated environment for using a variety of tools without damaging your host system. You can take snapshots to revert changes, test configurations, and run it alongside your main operating system without going through the complexity of dual-booting or dedicated hardware. Oracle VirtualBox also offers networking modes, such as NAT, bridged, host-only, and internal, making use of them to create realistic and stable lab environments. This guide walks you step-by-step through downloading and setting up Kali Linux within VirtualBox.

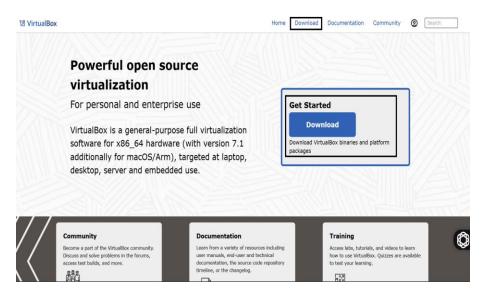
## **Prerequisites**

- A desktop computer or laptop
- At least 8 GB RAM
- 50-100 GB free disk space
- Oracle VM VirtualBox + Extension Pack
- Kali Linux ISO image from the official site (https://www.kali.org/get-kali/)

# Step-by-step Guide

## Step 1: Go to <a href="https://www.virtualbox.org/">https://www.virtualbox.org/</a>

#### 1. Click Download



- 2. Select the platform package for your OS and install
- 3. Download and install the Extension Pack (optional)



## Step 2: Go to https://www.kali.org/get-kali/

1. Select Installer Images



# 2. Download the 64-bit ISO

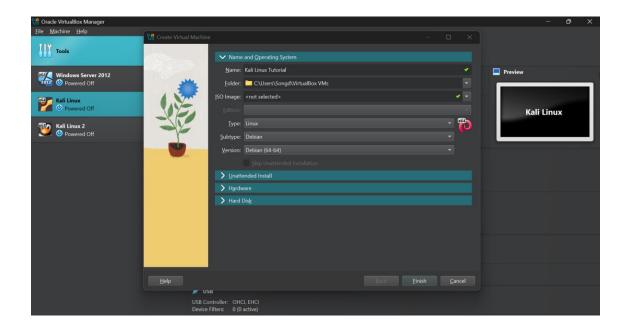


# Step 3: Create a new Virtual Machine

1. Open VirtualBox -> **New** 



- 2. Enter a **Name** (e.g., "Kali Linux Tutorial")
- 3. Type: Linux, Version: Debian (64-bit)
- 4. Click Next



# Step 4: Once Virtual Machine is created, allocate Memory and processors

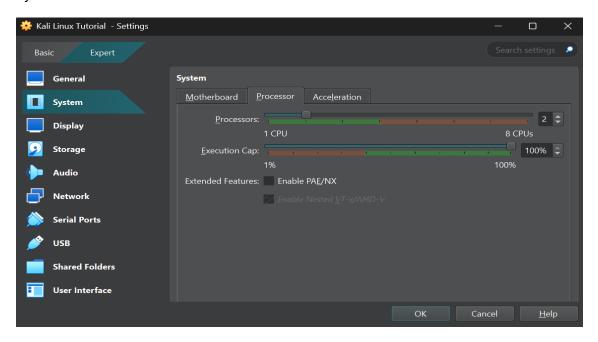
1. Go to Settings -> System



2. Specify the memory size. Recommended: 4096 MB (4 GB) or more



3. Specify the number of CPUs. Recommended: 2 CPUs or more



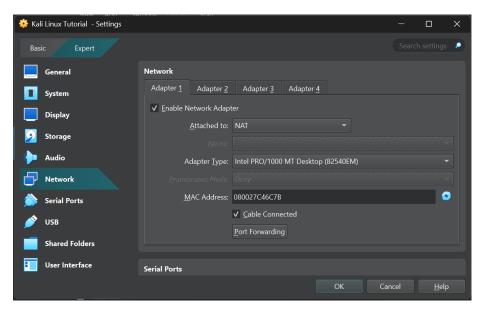
# Step 5: Mount the Kali Linux ISO image file

- 1. Go to **Settings** -> **Storage**.
- 2. Under Controller: IDE, click the empty disk -> Choose a disk file
- 3. Select your Kali ISO -> Click OK



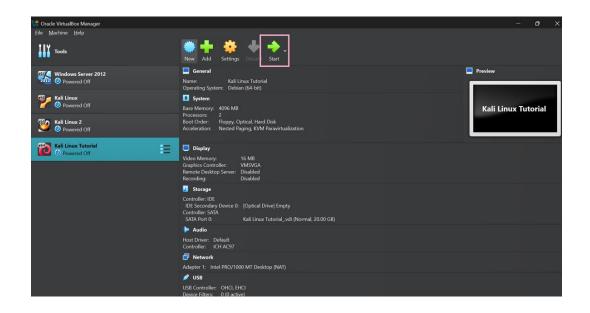
# **Step 6: Configure Network Settings (Optional)**

- 1. Go to Settings -> Network
- 2. Ensure Attached to: NAT (default)



**Step 7: Start the Virtual Machine** 

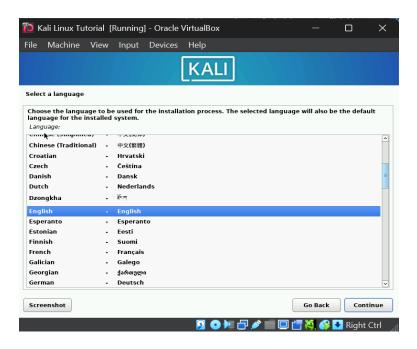
1. Click Start



## 2. Choose Graphical Install



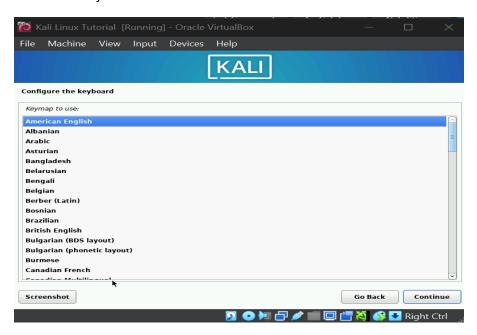
## 3. Select language



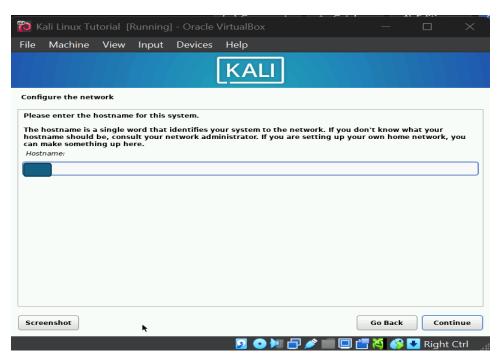
# 4. Select country



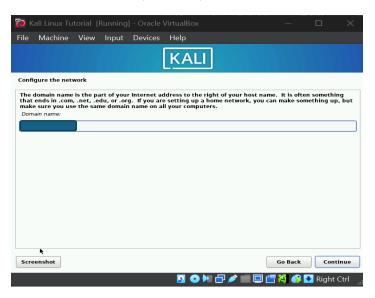
## 5. Choose keyboard



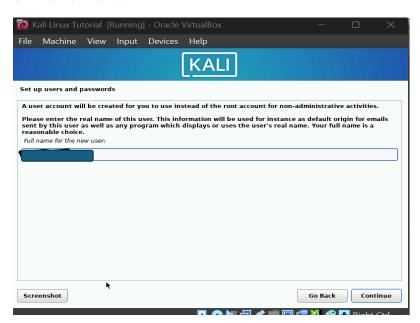
#### 6. Set hostname



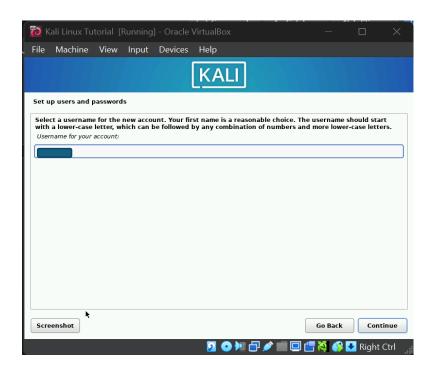
## 7. Set domain name (Optional)



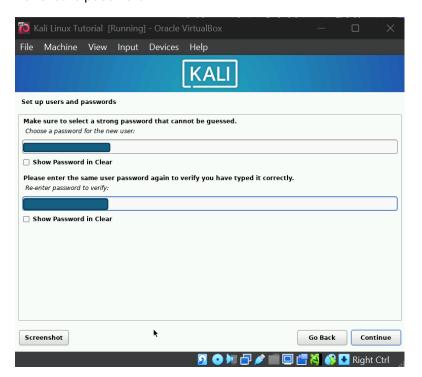
## 8. Enter full name



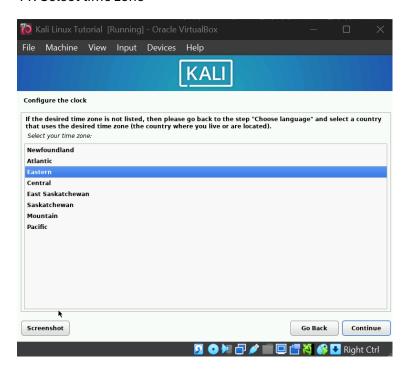
## 9. Create username



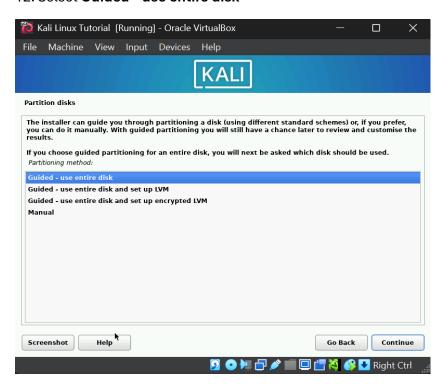
## 10. Create password



#### 11. Select time zone



## 12. Select Guided - use entire disk



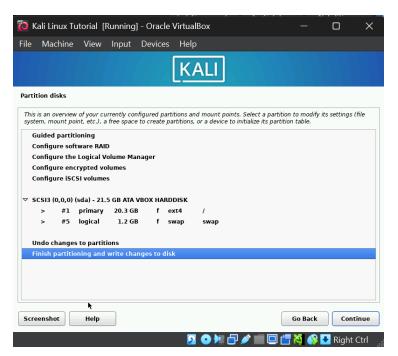
## 13. Click Continue



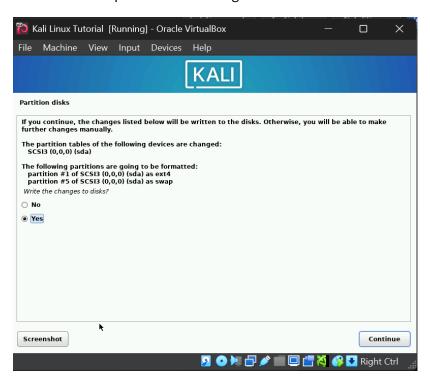
# 14. Select All files in one partition (recommended for new users)



# 15. Choose Finish partitioning and write changes to disk



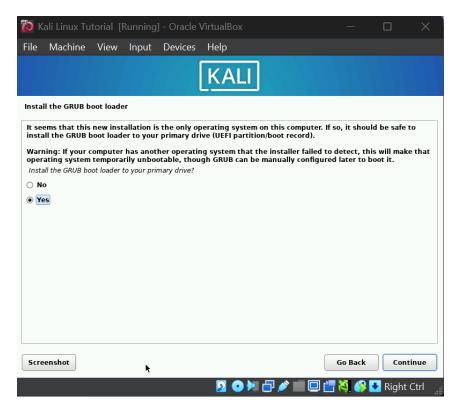
## 16. Select Yes option to write changes



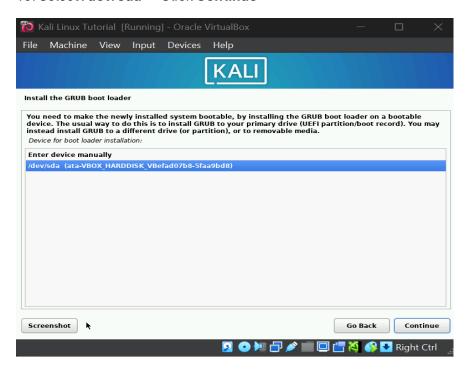
## 17. Install **Desktop Environment**



## 18. Choose Yes to install GRUB Bootloader



## 19. Select /dev/sda -> Click Continue



## 20. Reboot VM

