

# How To Install Kali Linux on VMWare?

## Introduction:

Kali Linux is a Debian-based Linux system created especially for penetration testing and digital forensics. Offensive Security Limited provides funding and maintenance for this. Preloaded with an extensive amount of tools, Kali Linux can handle a wide range of information security activities, including computer forensics, penetration testing, security research, and reverse engineering. It contains 2GB of RAM and 20GB of disk space. It is considered to be among the best operating systems for cybersecurity and hacking.

## Prerequisites:

To successfully install Kali Linux in VMware, you'll need to prepare a few items and meet certain requirements:

### 1. Hardware Requirements:

- **Processor:** A modern processor (dual-core or higher) with virtualization support (Intel VT-x or AMD-V).
- **RAM:** At least 2 GB of RAM (4 GB or more recommended for better performance).
- **Disk Space:** At least 20 GB of free disk space for the Kali Linux installation.

### 2. Software Requirements:

- **Operating System:** A host OS that supports VMware Workstation Player (Windows 7 or later, or a compatible Linux distribution).
- **VMware Workstation Player:** Download and install the latest version from the VMware website.
- **Kali Linux ISO:** Download the latest **Kali Linux ISO file/Virtual machine** from the official Kali Linux download page.

### 3. Virtualization Support:

- **BIOS/UEFI Settings:** Ensure that virtualization technology (VT-x for Intel or AMD-V for AMD) is enabled in your system's BIOS/UEFI settings.

#### **4. Internet Connection:**

- A stable internet connection is required to download the necessary software and ISO file.

#### **5. Basic Knowledge:**

- Familiarity with your host operating system (Windows or Linux).
- Basic understanding of virtualization concepts and how to use VMware Workstation Player.

#### **6. VMware Workstation Player Installation:**

- Ensure VMware Workstation Player is installed on your host system. Follow the installation prompts to complete the setup.

#### **7. Backup Important Data:**

- Before making changes to your system, ensure you have backups of any important data.

#### **Optional Preparations:**

- **External Storage:** If you prefer to keep the virtual machine files on external storage, ensure you have a reliable external hard drive or SSD.
- **Additional Software:** Consider downloading any additional tools or software you may need during the installation process, such as a text editor or network utilities.

With these prerequisites and preparations in place, you'll be ready to proceed with the installation of Kali Linux in VMware Workstation Player.

## Step-by-Step Guide:

### 1. Download VMWare:

- Ensure VMware Workstation Player is installed on your host system. Follow the installation prompts to complete the setup.

### 2. Download Kali Linux:

- Go to the following URL: [Kali.org](https://kali.org)
- Download either virtual machine or iso file on the computer.

### 3. Start the Installation Process:

- After Installing Kali Linux, you can select one of the following options on VMWare:
  - Open Virtual Machine
  - Create a new virtual Machine

### 4. Open virtual machine:

- In Open Virtual Machine, select the Kali Linux Installed file (Not .iso file) and the installation is set .
- Goto 6.

### 5. Create Host Machine:

In create virtual machine, select the iso file and make necessary requirements on the system to allocate the disk space and other settings according to users requirements and then the installation will be set. Includes following steps inside this:

#### Step 1: Choose Installation Method:

- **Graphical Install:** A user-friendly installation interface.
- **Install:** A text-based installation method.

For most users, it's recommended to select **Graphical Install** using the arrow keys and press **Enter**.

#### Step 2: Select Language:

- Choose your preferred language for the installation process and click **Continue**.

### **Step 3: Select Location:**

- Choose your location (country) from the list and click **Continue**.

### **Step 4: Select Keyboard Layout:**

- Choose your keyboard layout and click **Continue**.

### **Step 5: Configure Network**

- **Host Name:**

Enter a hostname for your system (default is "kali") and click **Continue**.

- **Domain Name:**

If you don't have a domain, leave this blank and click **Continue**.

### **Step 6: Set Up User Accounts**

- **Root Password:**

You will be prompted to set a password for the root user (or create a non-root user). Enter a strong password and click **Continue**.

- **User Account Setup:**

If creating a non-root user, enter your full name and click **Continue**.

Enter a username and click **Continue**.

Set a password for the user account and click **Continue**.

### **Step 7: Partition Disks**

- **Partition Method:**

You will be prompted to choose a partitioning method. You can select:

- **Guided – Use entire disk:** Recommended for beginners.
- **Manual:** For advanced users who want to customize partitions.

Select your preferred option and click **Continue**.

#### **Step 8: Install GRUB Bootloader**

- **Install GRUB:**

When prompted, select “Yes” to install the GRUB bootloader.

#### **Step 9: Device for GRUB Installation:**

Select the disk (usually /dev/sda) where you want to install GRUB and click **Continue**.

### **6. Complete Installation**

- **Finish Installation:**

Once the installation completes, you will see a message indicating that the installation is complete.

- **Reboot the System:**

Click on “Continue” to reboot your computer.

## **Conclusion**

Installing Kali Linux in VMware involves the following steps:

- 1. Preparation:** Download and install VMware Workstation Player, and then download the Kali Linux ISO file from the official website.
- 2. Create a New Virtual Machine:** Open VMware, create a new virtual machine, and select the downloaded Kali Linux ISO file as the installation media.
- 3. Configure Settings:** Customize the virtual machine settings, such as allocating RAM and CPU resources, and configuring network options.
- 4. Start the Installation Process:** Power on the virtual machine to boot from the ISO file, and follow the installation prompts to configure language, network settings, and partition the virtual disk.

5. **Complete Installation:** Install the GRUB bootloader, and once the installation is complete, reboot the virtual machine to access Kali Linux.

### Additional Resources

- **Kali Linux Documentation:** The official documentation offers comprehensive guidance on using Kali Linux: [Kali Linux Documentation](#)
- **Kali Linux Forums:** Engage with the community for support and discussions: [Kali Linux Forums](#)
- **YouTube Tutorials:** Many video tutorials provide visual guidance on the installation and setup of Kali Linux.

### Troubleshooting Tips

- **Boot Issues:** If the virtual machine does not boot from the ISO:
  - Ensure the ISO file is correctly selected in the virtual machine settings.
  - Verify that the virtual machine settings are configured to boot from the CD/DVD drive first.
- **Installation Freezes or Errors:** If the installation process hangs:
  - Check the integrity of the downloaded ISO file by verifying the SHA256 checksum.
  - Make sure your computer meets the hardware requirements for running VMware.
- **Network Issues:** If you experience connectivity problems during installation:
  - Ensure that the virtual machine's network adapter is configured correctly (NAT or Bridged mode).
  - Check that your host machine has an active internet connection.
- **Post-Installation Issues:** If you encounter problems after installation:

- Refer to the Kali Linux forums for troubleshooting advice.
- Regularly update your system using the terminal with `apt update` and `apt upgrade`.