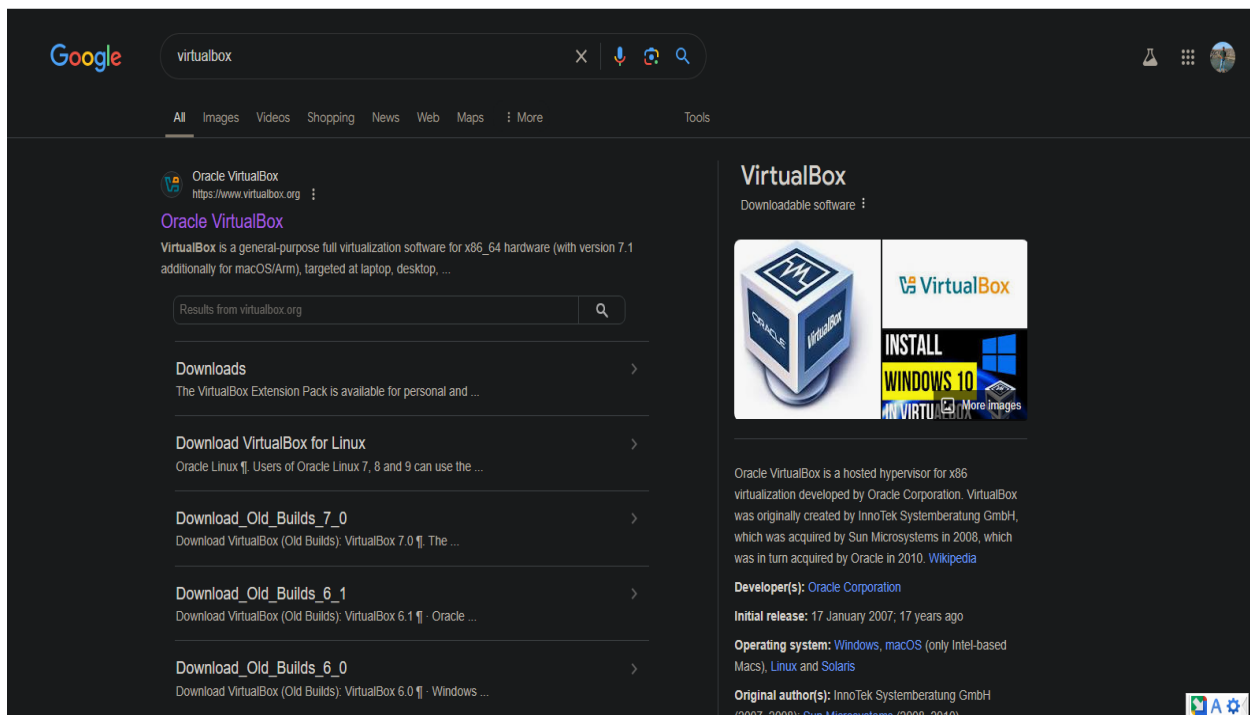


# Assignment 1:

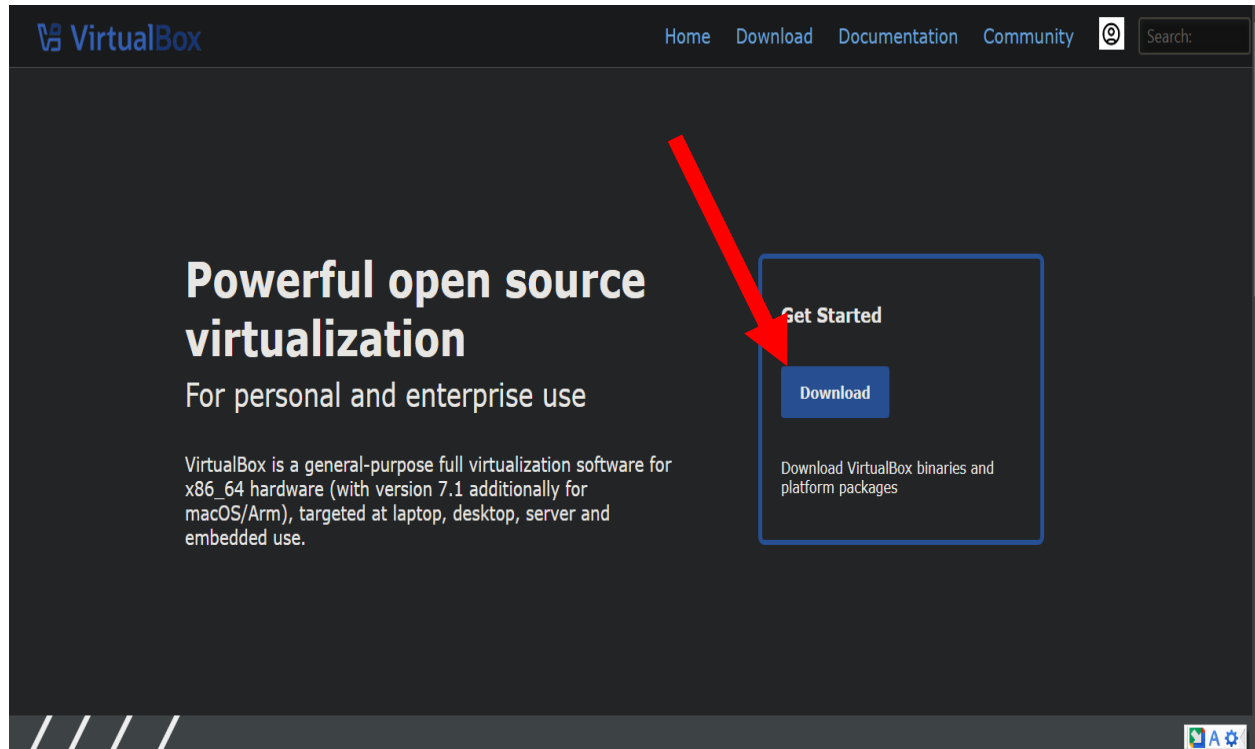
## Step-1: Downloading and setting Kali Linux in Virtual Box.

- Visit the [Oracle Virtual Box website (<https://www.virtualbox.org/>) and download the latest version compatible with your operating system (Windows, macOS , Linux, etc.).
- Install Virtual Box following the installation prompts.



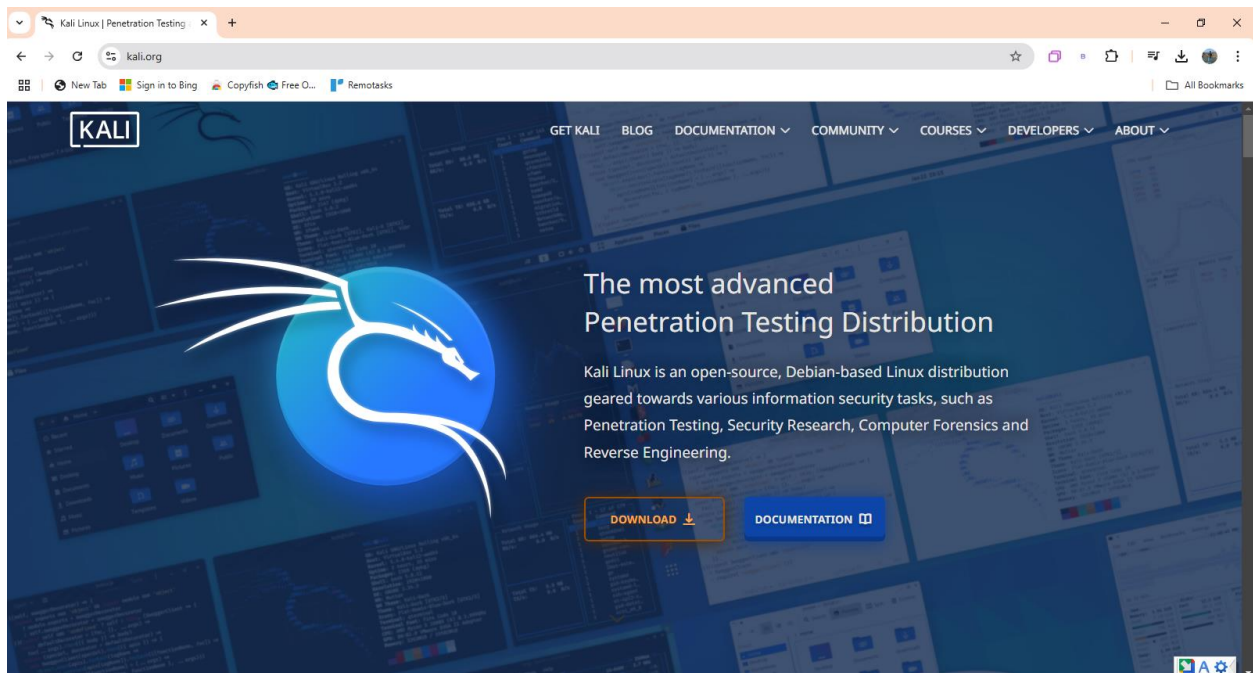
The screenshot shows a Google search for 'virtualbox'. The search results page displays the Oracle VirtualBox website as the top result. The website description states: 'VirtualBox is a general-purpose full virtualization software for x86\_64 hardware (with version 7.1 additionally for macOS/Arm), targeted at laptop, desktop, ...'. Below the description, there is a search bar and a list of download links. The links include 'Downloads', 'Download VirtualBox for Linux', 'Download\_Old\_Builds\_7\_0', 'Download\_Old\_Builds\_6\_1', and 'Download\_Old\_Builds\_6\_0'. To the right of the search results, there is a 'VirtualBox' section with a 'Downloadable software' link. This section features a 'VirtualBox' logo and a 'INSTALL' button. Below the logo, there is a description of VirtualBox as a hosted hypervisor for x86 virtualization, developed by Oracle Corporation. It mentions that VirtualBox was originally created by InnoTek Systemberatung GmbH, which was acquired by Sun Microsystems in 2008, and then by Oracle in 2010. The section also lists the developer as Oracle Corporation, the initial release date as 17 January 2007, the operating system as Windows, macOS (only Intel-based), Linux, and Solaris, and the original author(s) as InnoTek Systemberatung GmbH (2007–2008) and Sun Microsystems (2008–2010).

## Step-2: Select the download button



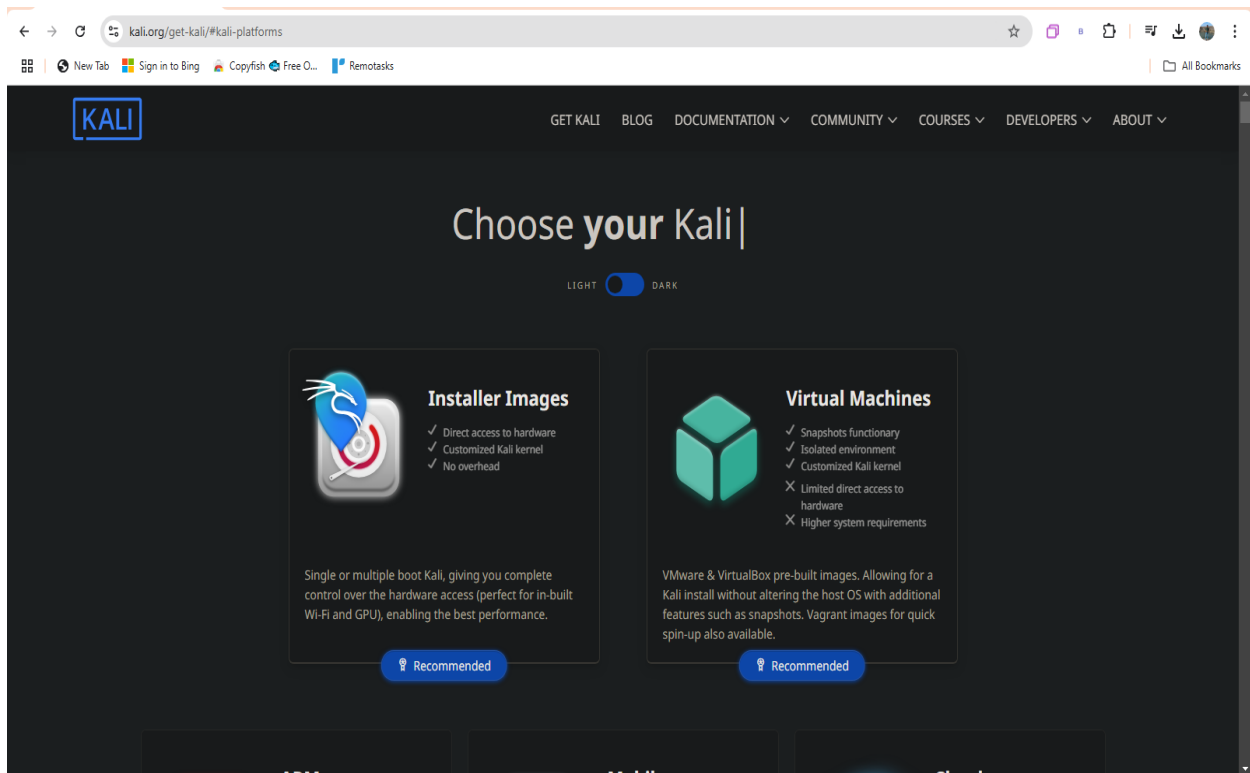
# Step-3: Download Kali Linux

- Go to the [official Kali Linux download page](https://www.kali.org/get-kali/) and download the appropriate ISO file (64-bit or 32-bit, depending on your system's compatibility).
- Choose the installer image for a complete setup.



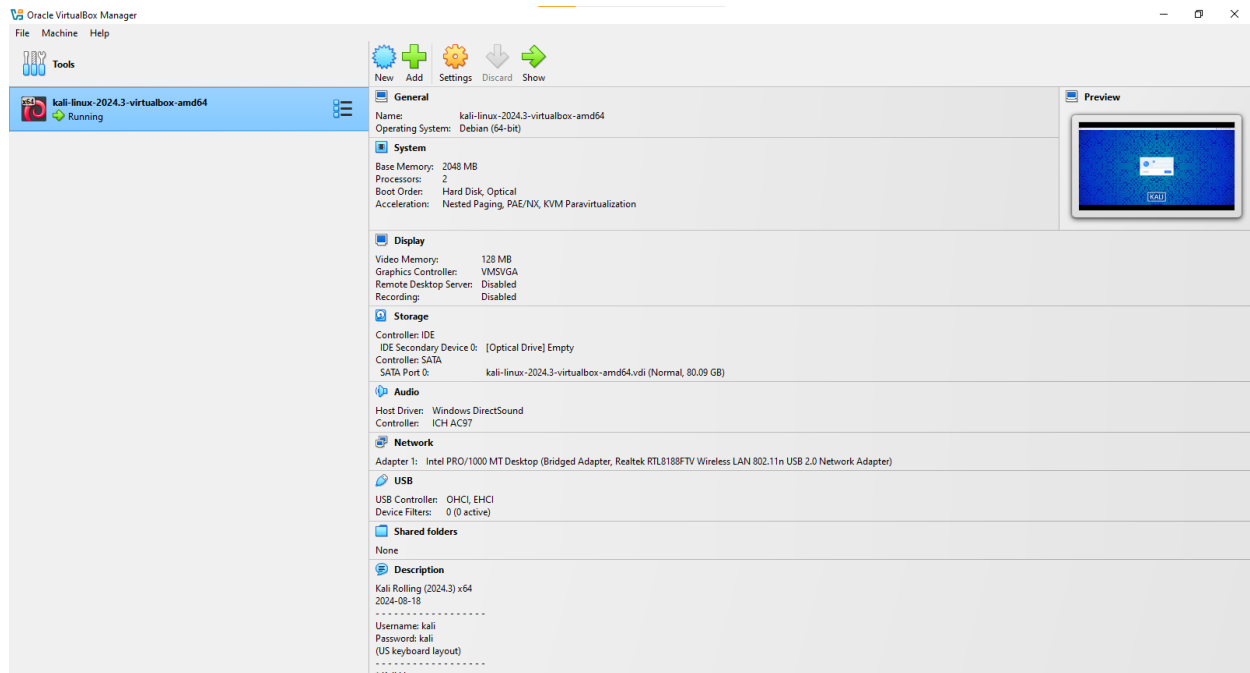
# Step 4: Choose your platform

In this section we are selecting the virtual machine which we previously downloaded.



# Step 5: Setup Virtual machine

After setup virtual machine it looks like this, you need to start the machine to run the Kali Linux.



## Step 6: Open Kali Linux



## Step-by-Step Instructions:

1. **Download VirtualBox**
  - Visit the [Oracle VirtualBox website](#) and download the latest version compatible with your operating system (Windows, macOS, Linux, etc.).
  - Install VirtualBox following the installation prompts.
2. **Download Kali Linux ISO**
  - Go to the official Kali Linux download page and download the appropriate ISO file (64-bit or 32-bit, depending on your system's compatibility).
  - Choose the installer image for a complete setup.
3. **Create a New Virtual Machine in VirtualBox**
  - Open VirtualBox, click on "New" to create a new virtual machine.
  - **Name** the virtual machine "Kali Linux" and select **Type** as "Linux" and **Version** as "Debian (64-bit)".
  - Allocate RAM (at least 2GB, but 4GB or higher is recommended for better performance).
  - Select "Create a virtual hard disk now" and allocate at least 20GB of disk space.
4. **Attach the Kali Linux ISO**
  - Go to the "Settings" of the Kali Linux virtual machine in VirtualBox.
  - Under "Storage", click on the **Empty** optical drive, then click on the disk icon and choose "Choose a disk file."
  - Select the Kali Linux ISO you downloaded.
5. **Configure Network Settings**
  - In the "Settings" menu, go to "Network" and set "Attached to" as "Bridged Adapter" for direct network access.
6. **Start the Installation Process**
  - Start the Kali Linux virtual machine by clicking "Start."
  - When prompted, select the **Graphical install** option for a user-friendly installation.
  - Follow the on-screen instructions to set up language, location, and keyboard settings.
  - Configure network settings if prompted, and create a root password.
7. **Partition the Disk**
  - Choose "Guided - use entire disk" if you are new to Linux or virtualization.
  - Proceed with the default partition settings and write changes to the disk.
8. **Complete the Installation**
  - Allow the installation to finish, which may take some time.
  - Once installed, reboot the virtual machine. Remember to remove the ISO from the virtual optical drive in VirtualBox.