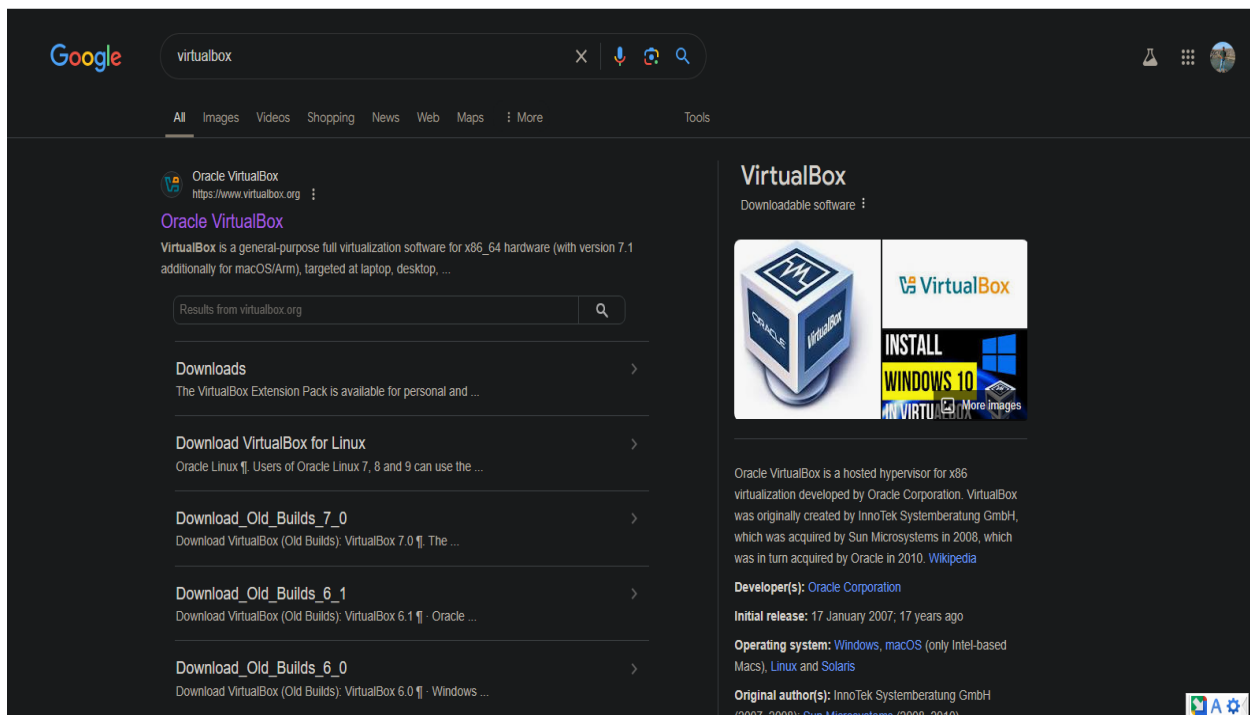# Assignment 1:

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.).

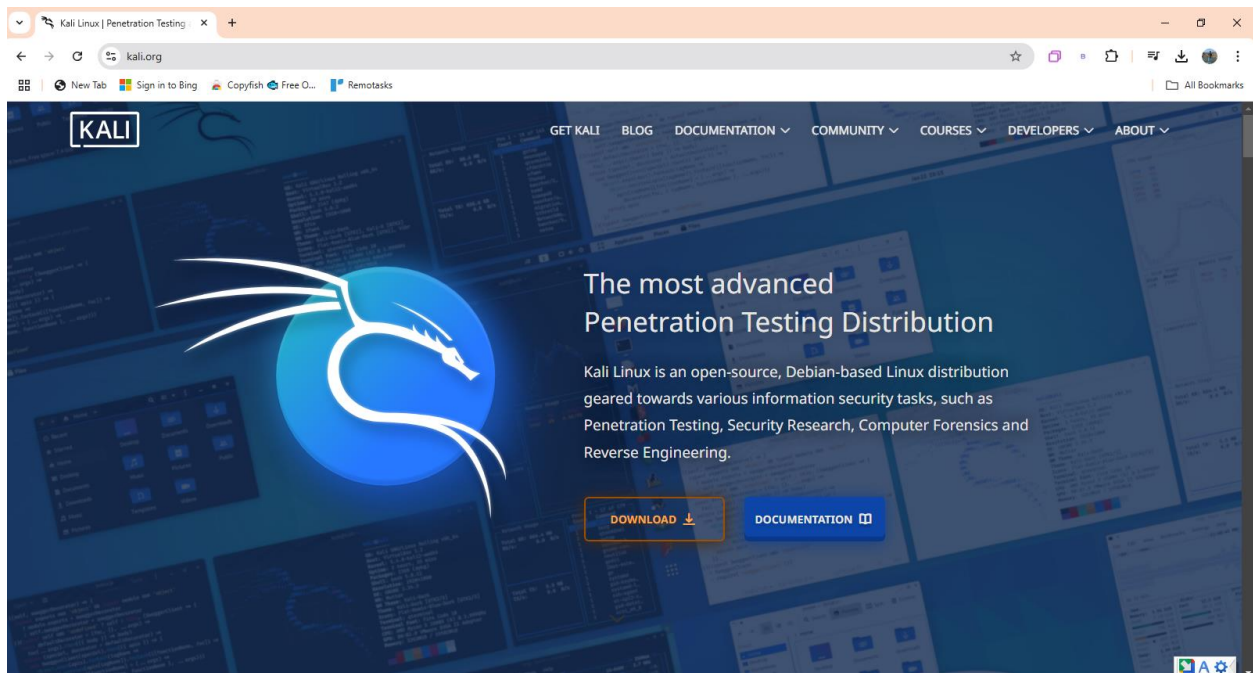- Install Virtual Box following the installation prompts.

Step-2: Select the download button
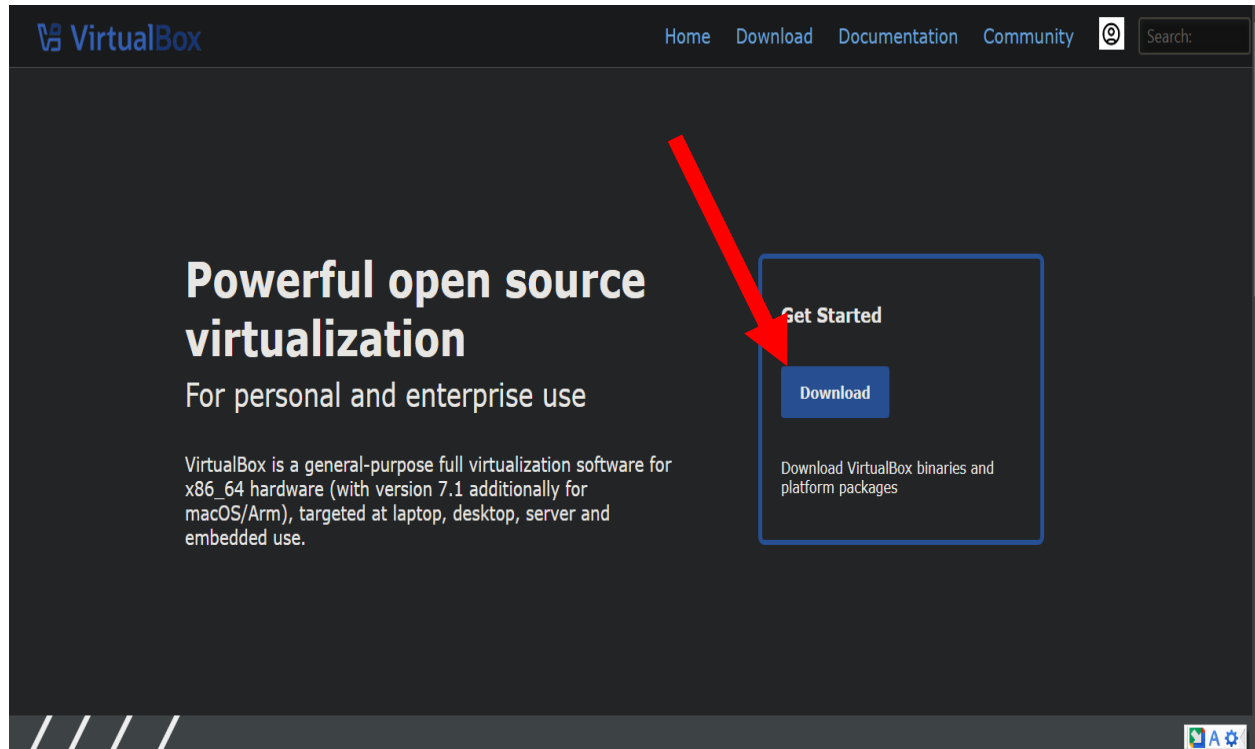
Step-3: Download Kali Linux

  - 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.
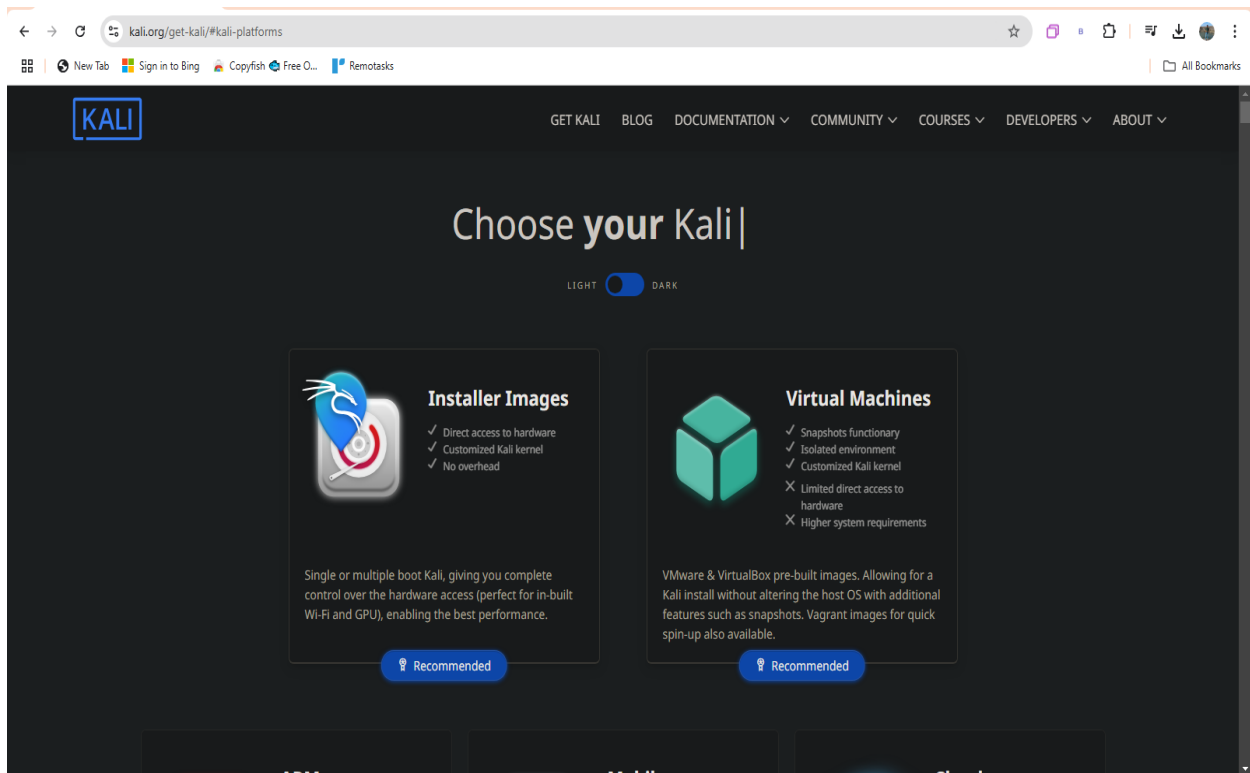
Step 5: Setup Virtual machine

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.
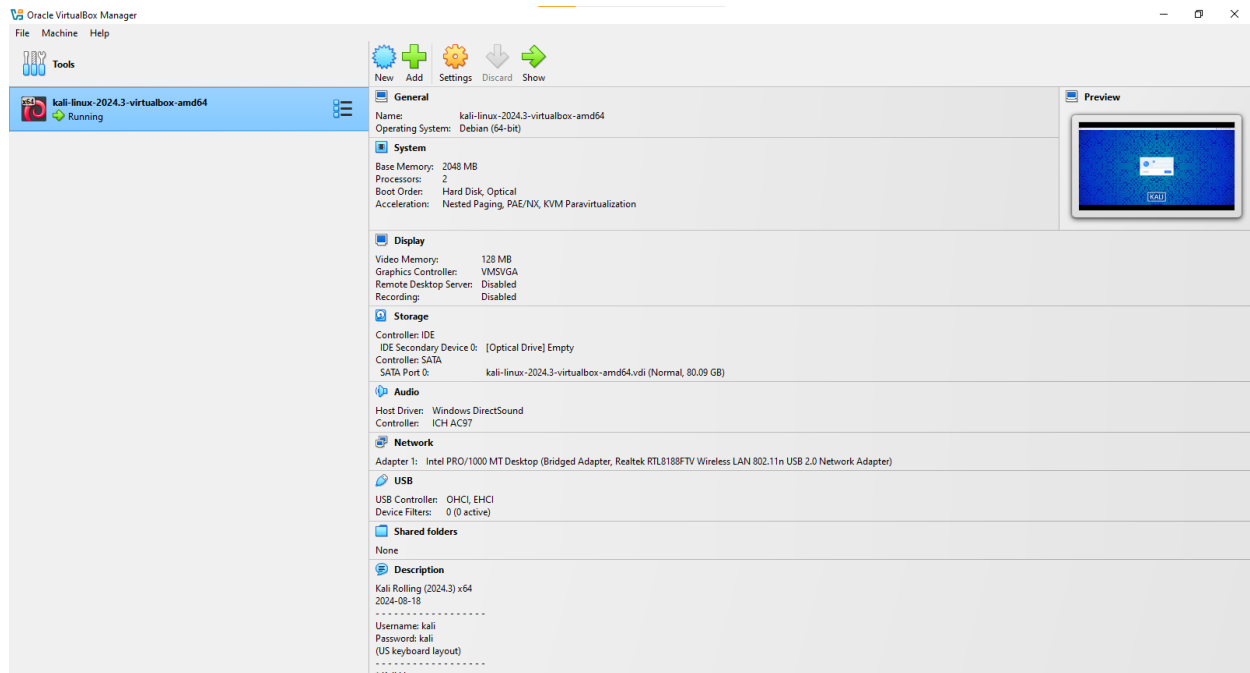2. **Download Kali Linux ISO**
   - Go to the official Kali Linux download page and download the appropriate ISO file (64-bit or 32-bit, depending on your system's compatibility).
   - Choose the installer image for a complete setup.
3. **Create a New Virtual Machine in VirtualBox**
   - Open VirtualBox, 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.