

ASSIGNMENT 2 REPORT

LAB SETUP

Kali Linux & Metasploitable 2

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Executive Summary:

The purpose of this report is to document the setup of a hacker lab, including the installation of **Kali Linux** and **Metasploitable 2** in virtualbox.

Kali Linux is a Debian-derived Linux distribution that is maintained by Offensive Security. It is a specially designed OS for network analysts, Penetration testers, or in simple words, it is for those who work under the umbrella of cybersecurity and analysis.

Metasploitable is a virtualized Linux-based operating system that comes pre-loaded with a variety of vulnerabilities often found in operating systems that can be exploited. It was created to test the Metasploit Framework. It is an operating system designed specifically for practicing penetration testing, network security, and Metasploit-Framework skills, among other things.

The report provides steps to create the setup. It is essential to note that this lab is intended for educational and testing purposes only,

VIRTUALBOX INSTALLATION:

- Download virtualbox for its official website and install the .exe file.

KALI LINUX SETUP

DOWNLOADING KALI LINUX ISO :

- Search kali linux in web browser and enter on its official website,
- Select the distribution that you want to install.
- Download the ISO image of the distribution from their websites.

Create a New Virtual Machine:

- Open VirtualBox.
- Click on "New" button on the top
- Enter a name for your virtual machine, select the type as "Linux," and choose the version as "Debian 64".
- Allocate the amount of RAM that you want to assign to the virtual machine.

- Create a virtual hard disk. Choose the default options unless you have specific requirements.

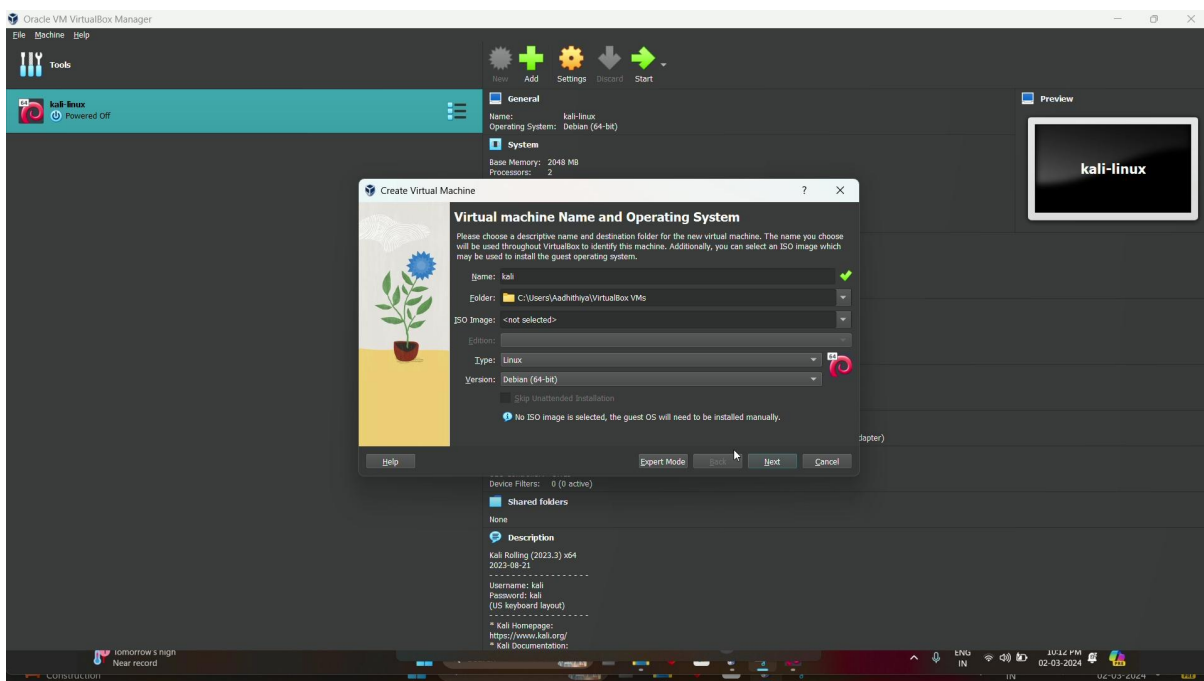
Configure Virtual Machine Settings:

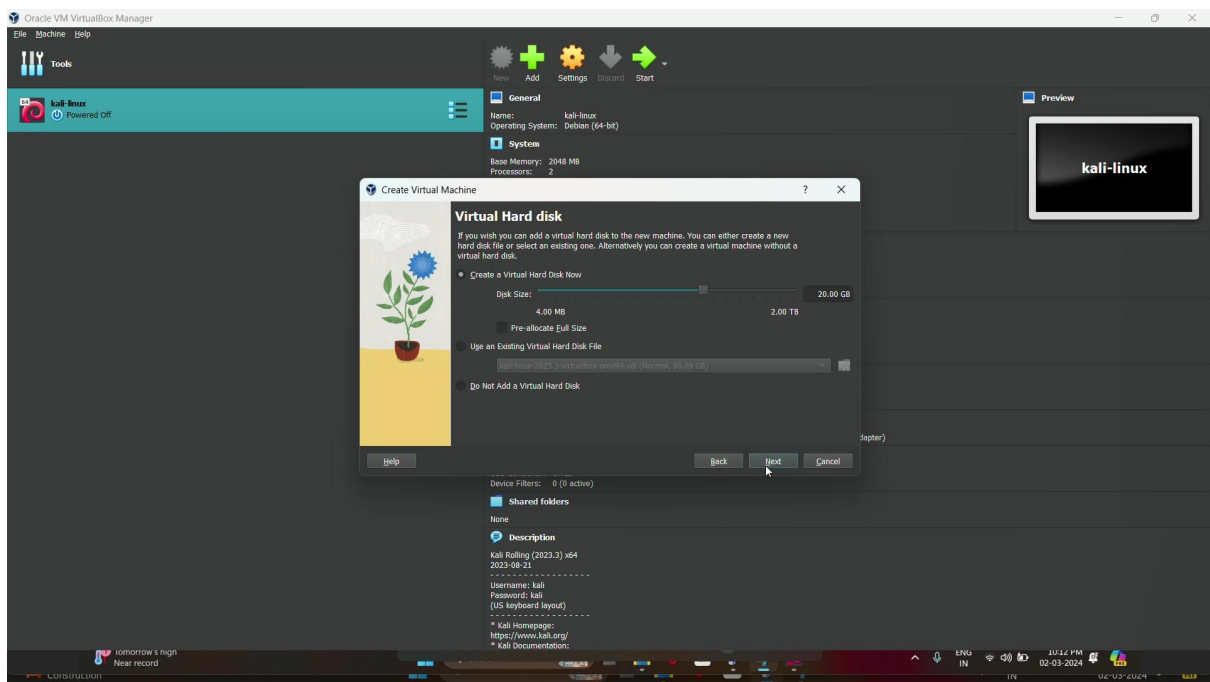
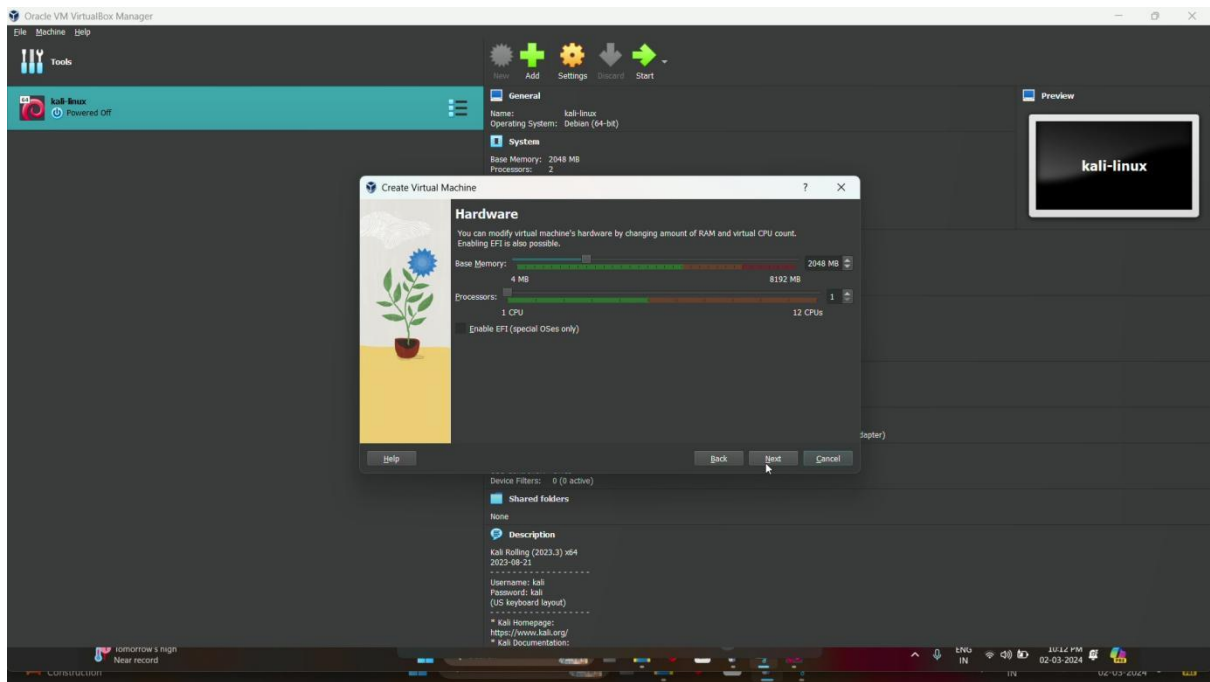
- Select the virtual machine and click on "Settings"
- Under the "System" tab, make sure the boot order includes "Optical" before "Hard Disk."
- Under the "Storage" tab, click on the empty disk next to "Controller: IDE" or "Controller: SATA," and then click the disk icon and choose "Choose a disk file."
- Browse the kali ISO file from your directory.

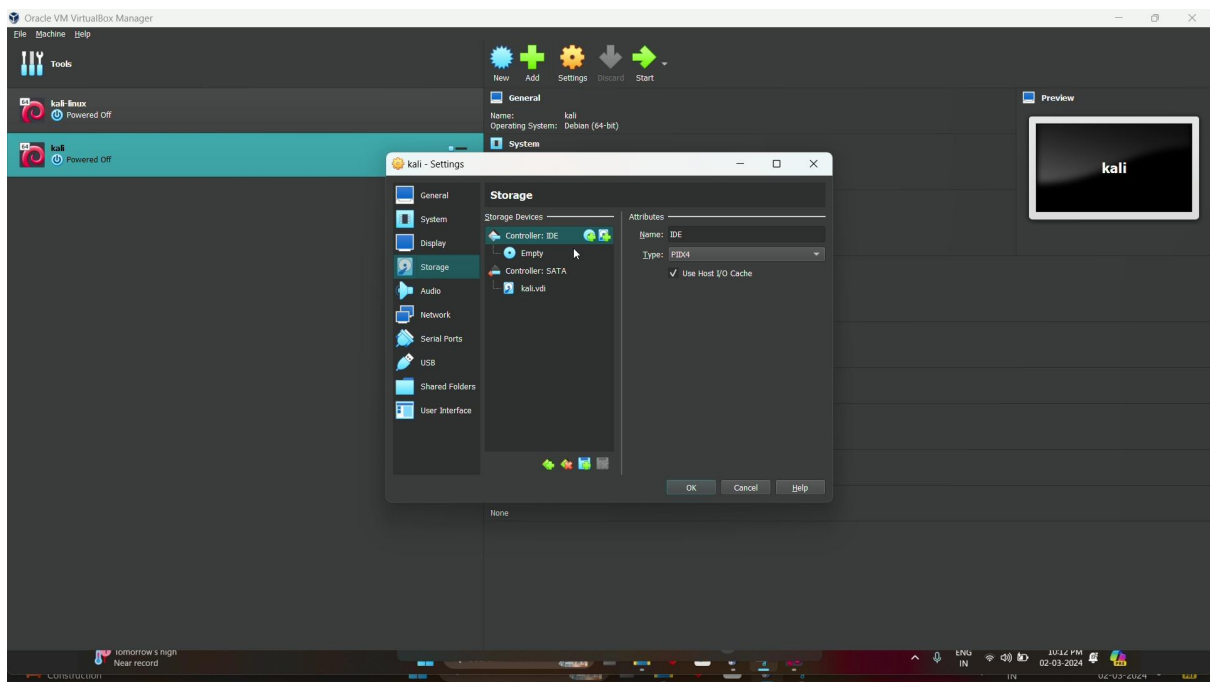
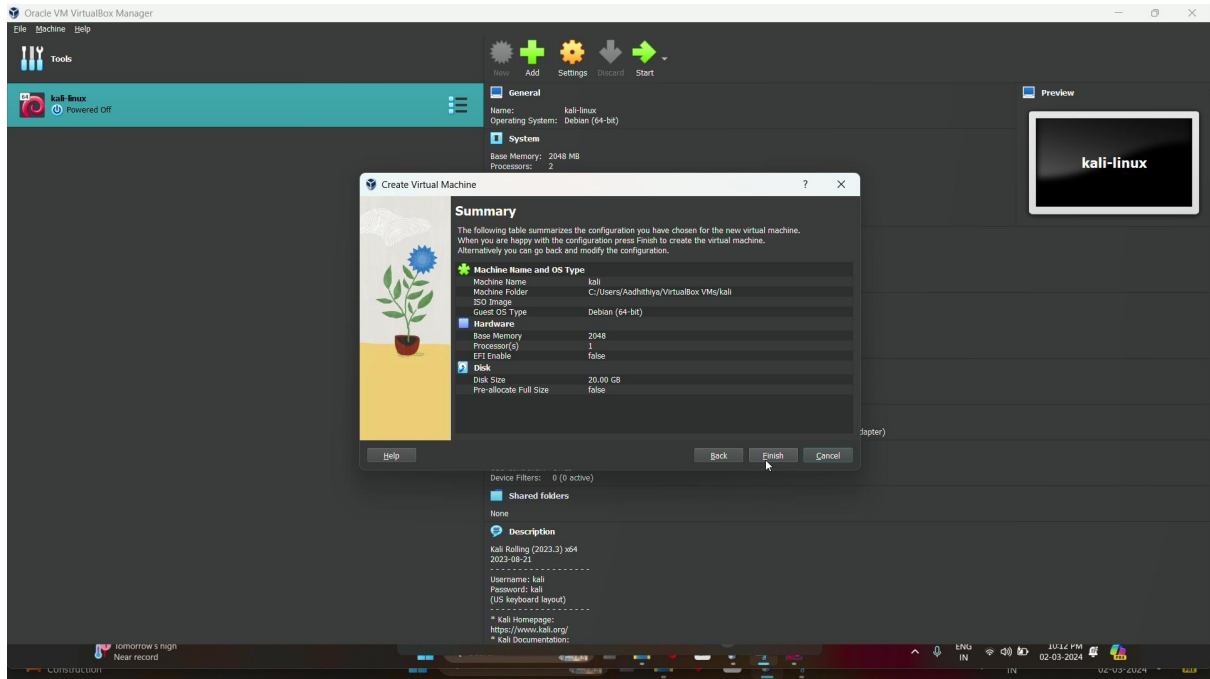
Install Linux:

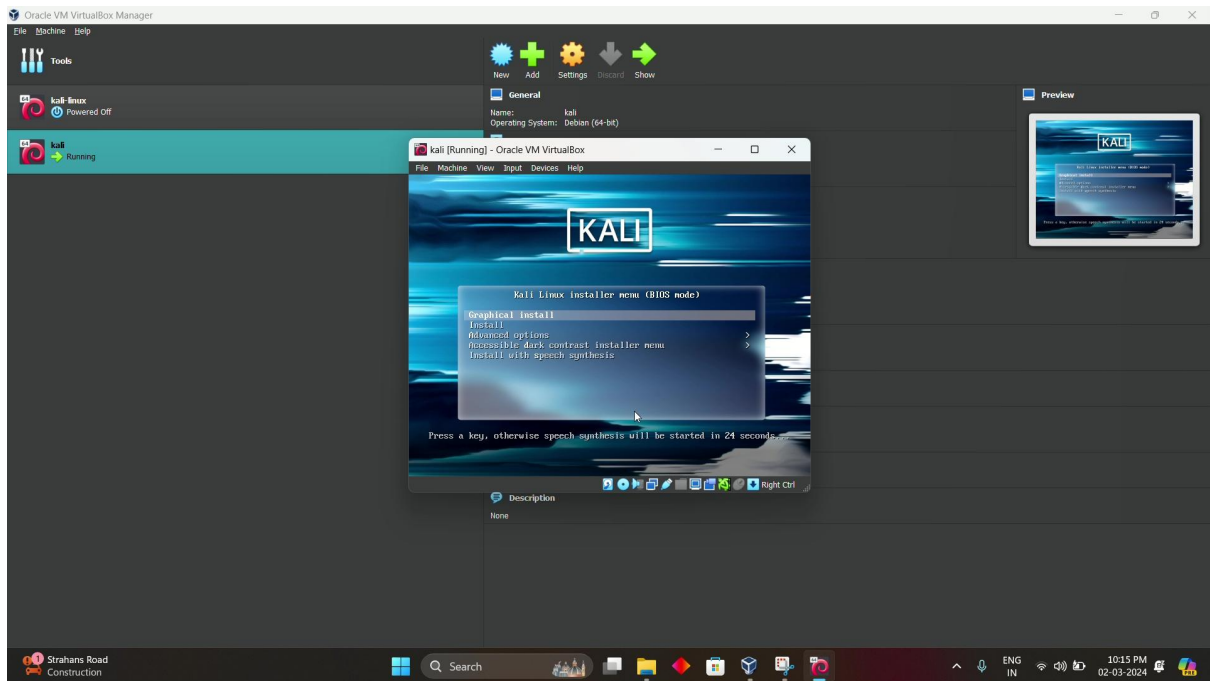
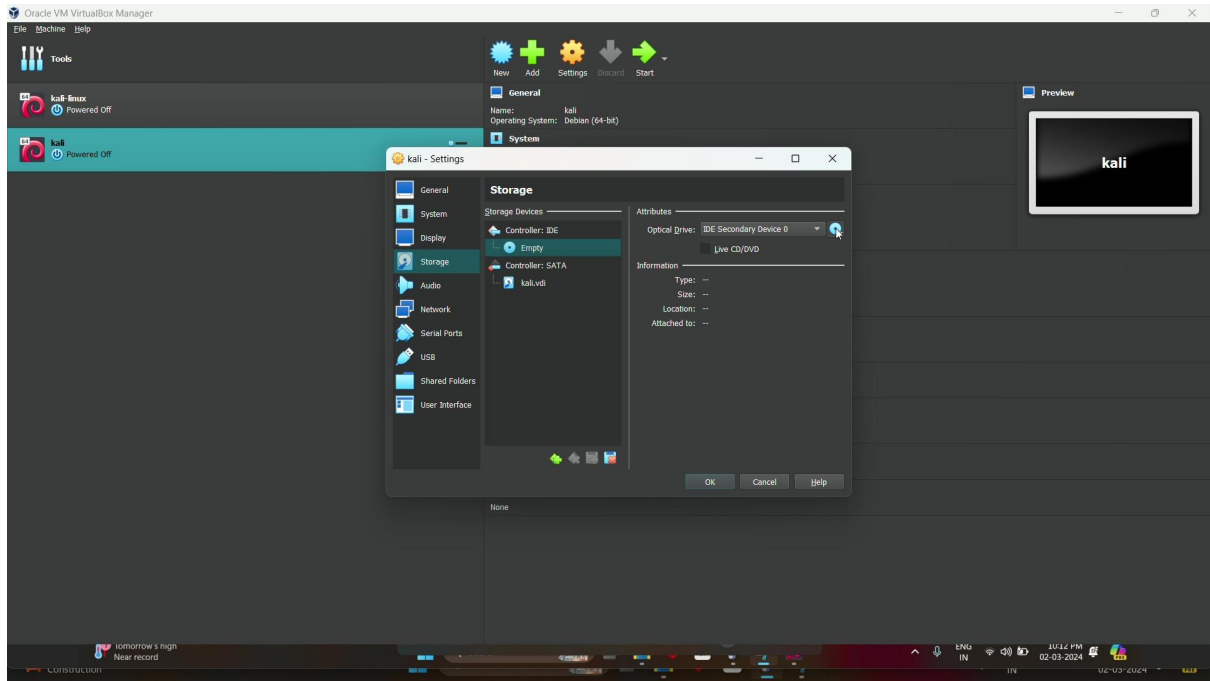
- Start the virtual machine by selecting it from the VirtualBox manager tab and click on "Start" button.
- The virtual machine will boot the Linux ISO you attached.
- When booted up, select the option to install Linux, and follow the on-screen instructions to complete the installation process.
- After installation, the virtual machine will likely prompt to restart.
- Go ahead and restart.

SCREENSHOTS









METASPLOITABLE SETUP

Download Metasploitable 2:

- Download Metasploitable 2 from a trusted source. The file will be in .VMDK format, which is compatible with Virtual box.

Import Metasploitable 2 into VirtualBox:

- Launch VirtualBox.
- Click on "New" and enter the machine name.
- Select the type as "**Linux**" and version as "**Ubuntu(32-bit)**"
- Click "Next" and leave the hardware configuration in default.
- In virtual hard settings select "**Use an existing virtual hard disk file**" and choose the file from your directory.
- Review the summary and click on finish.

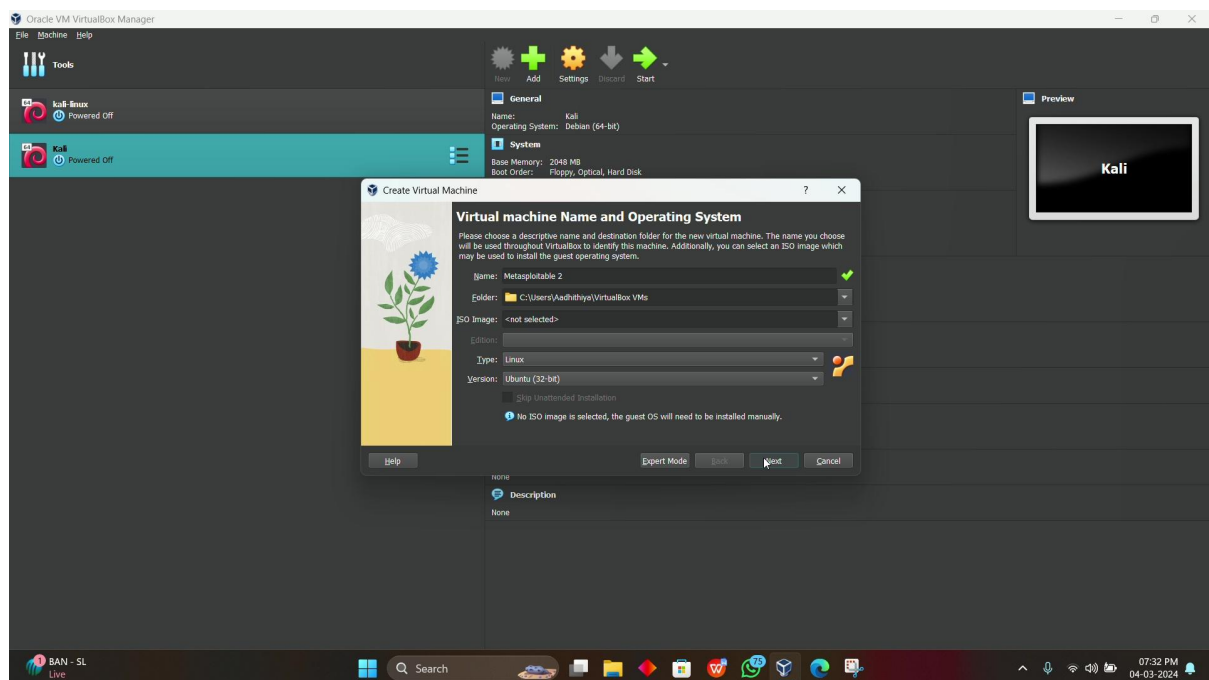
Configure Metasploitable 2 VM (if required)

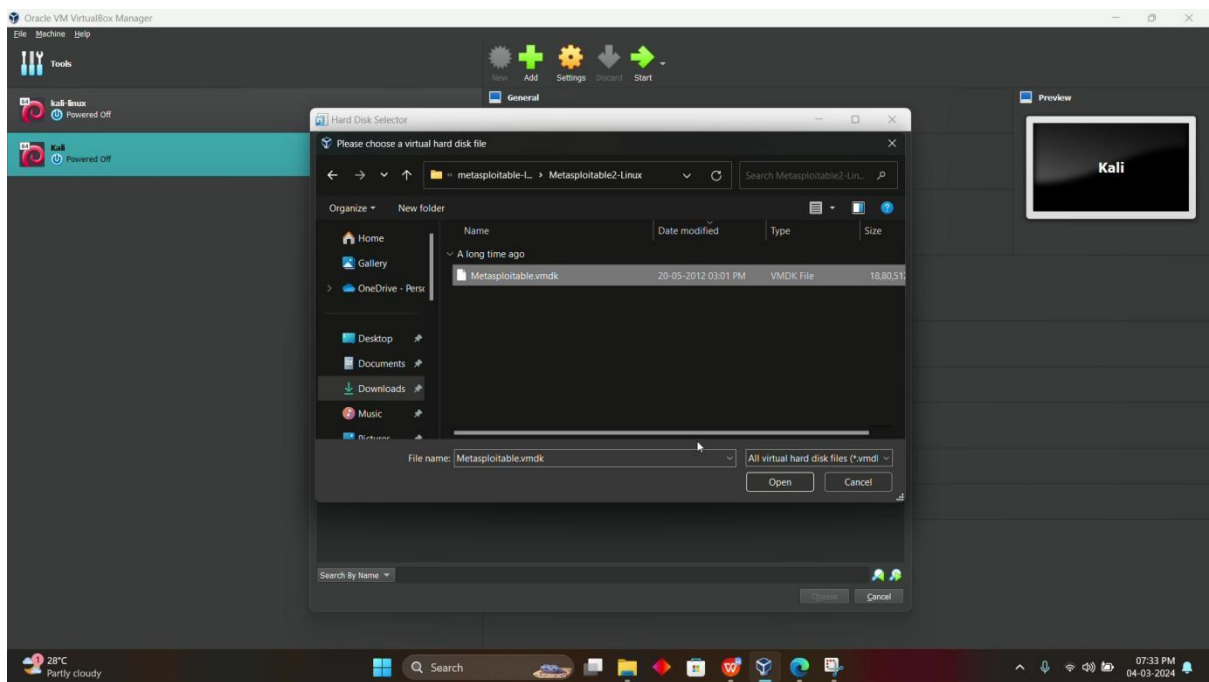
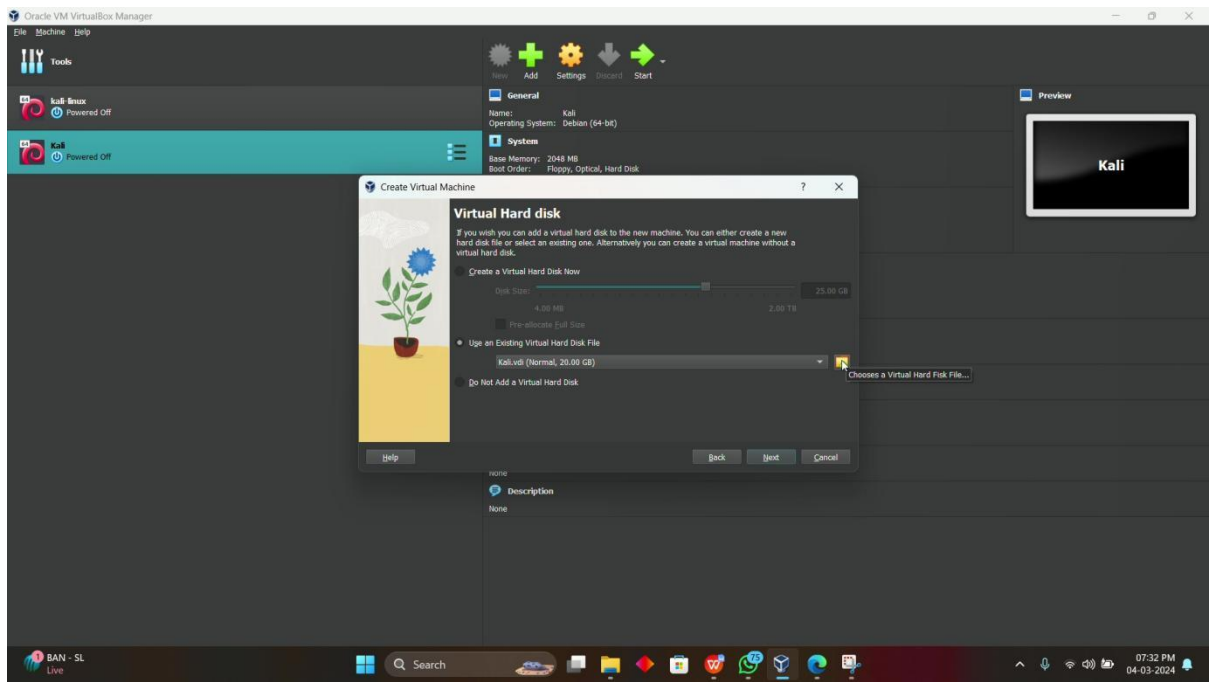
- Select the Metasploitable from the VirtualBox manager tab.
- Click on "Settings".
- Adjust settings if necessary, but you may adjust based on your system resources.
- Click "OK" to save the settings.

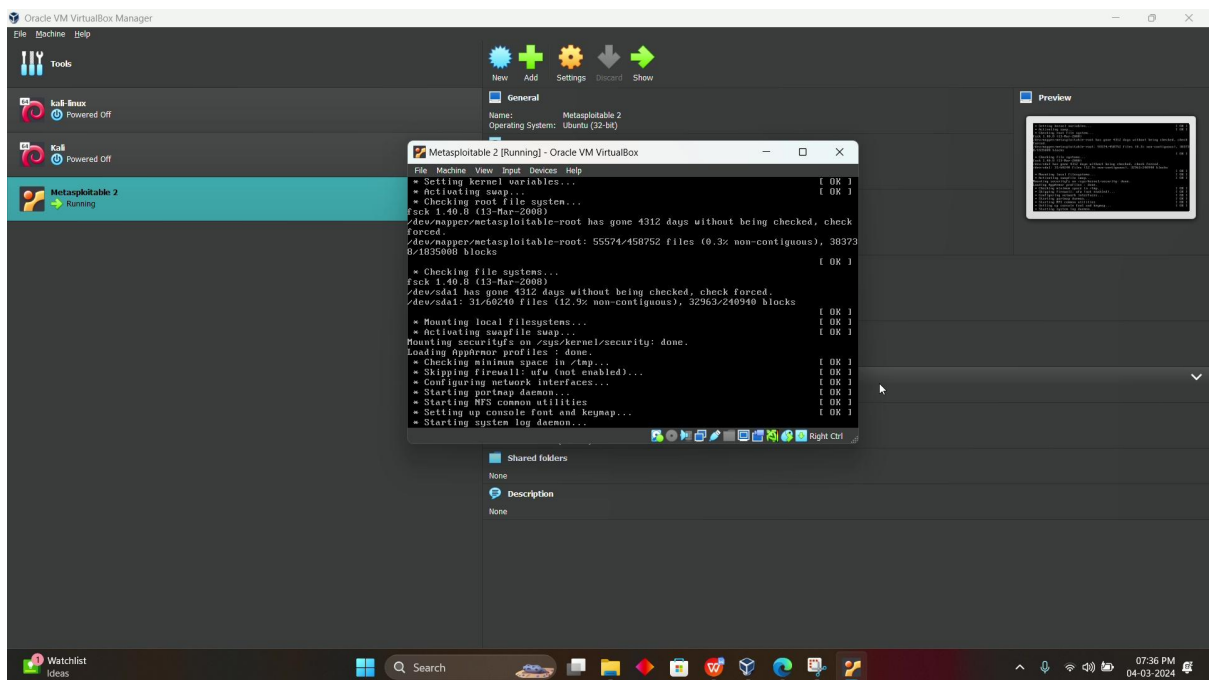
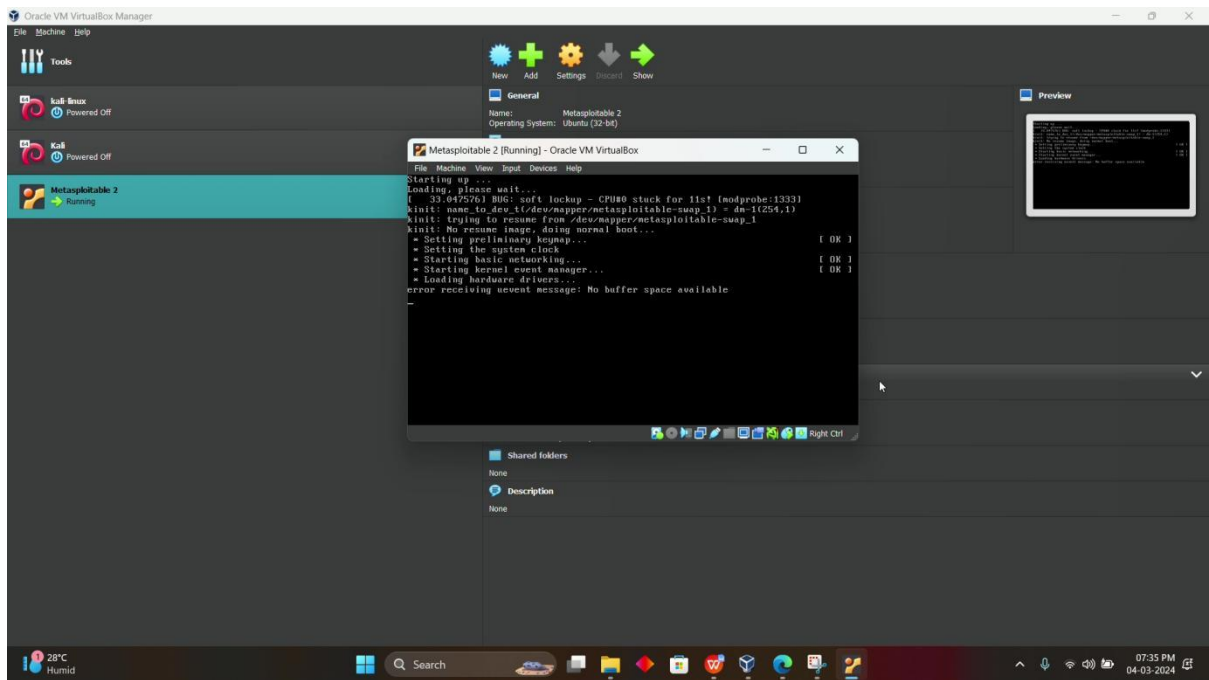
Start Metasploitable 2 VM:

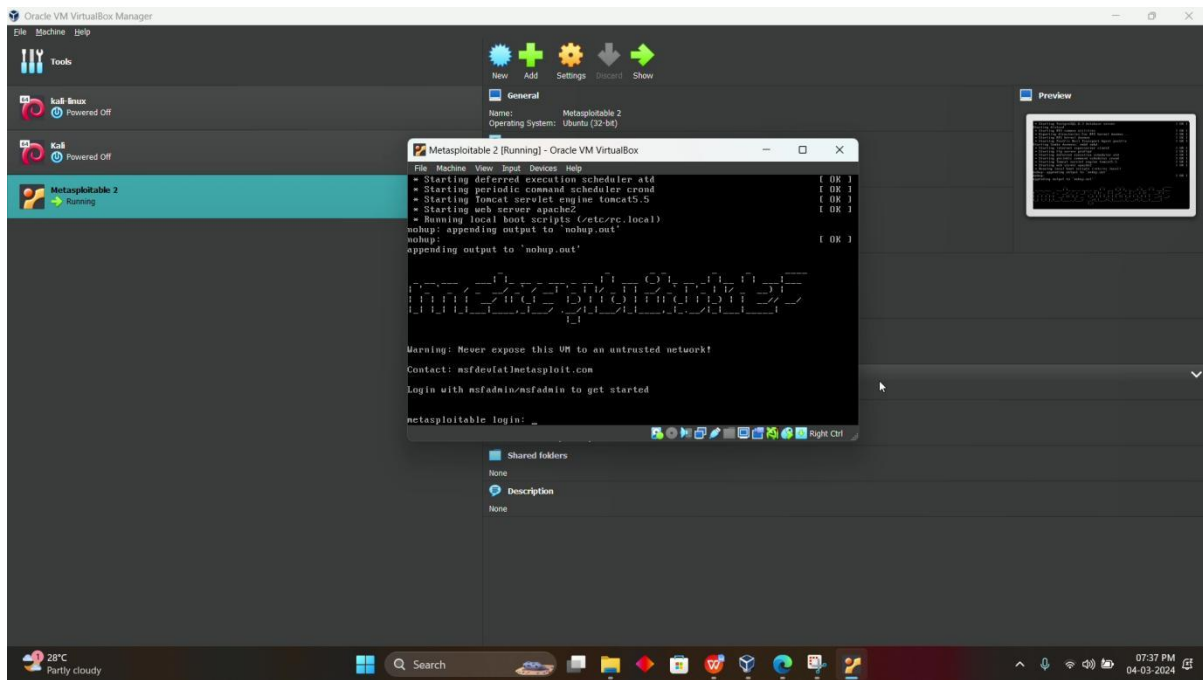
- Select the Metasploitable.
- Click on "Start" Button.
- Wait until it check the pre requisites and show the metaMetasploitable login.

SCREENSHOTS









CONCLUSION:

The configuration of Kali Linux and Metasploitable 2 using VirtualBox provides a safe and controlled environment for learning and practicing penetration testing techniques