

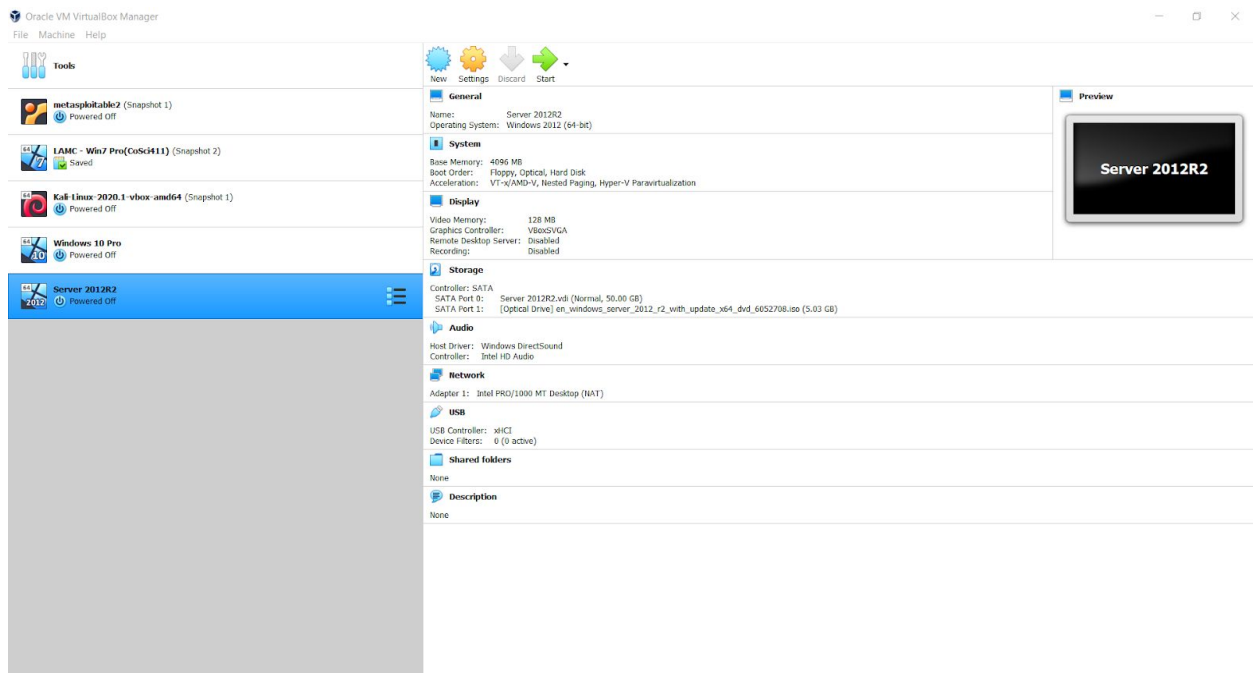
Kali Linux VBox

1. Each assignment has a goal. What is the assignment and how will you find the solution?

The goal for this assignment is to install and document the installation of a Kali Linux virtual image via VirtualBox from a Windows 10 host system. Screenshots will provide the documentation and final result of a working virtual environment. Procedure notes will be recorded above each image.

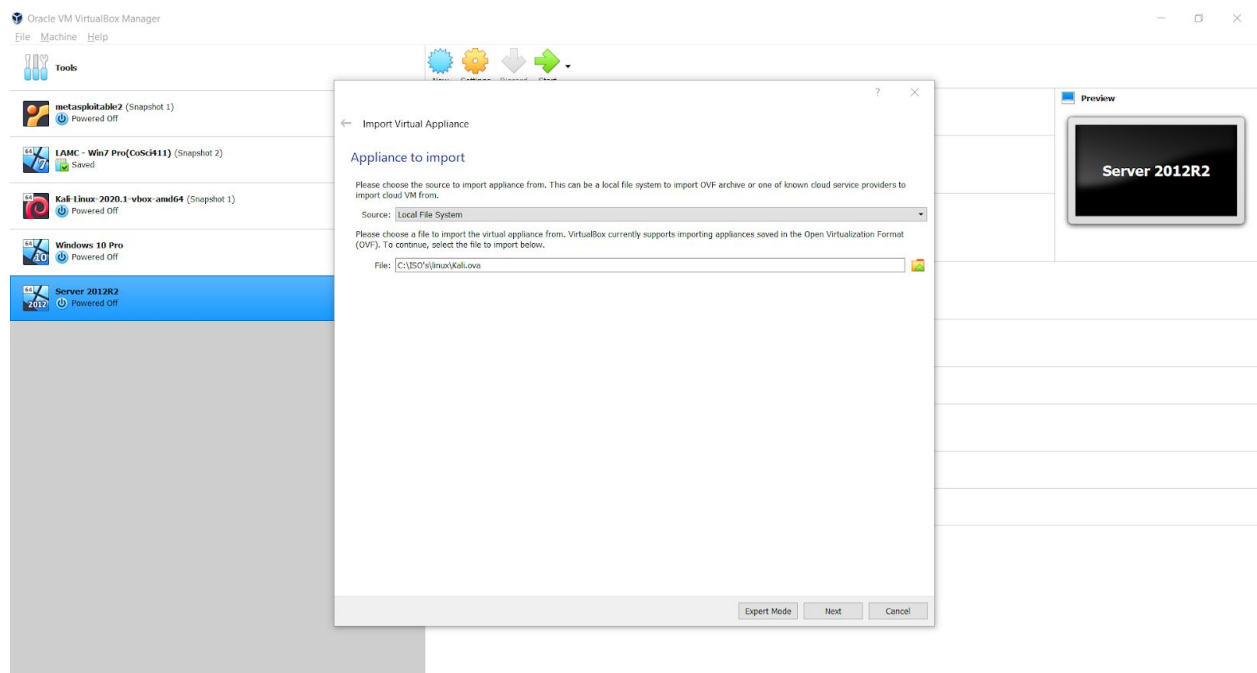
2. Demonstration of the steps taken with screenshots (snipping tool) from your computer. Many students who understand the material often go for a screenshot of the final result. You need to show the steps you took as you took them.

Starting at VirtualBox main menu.



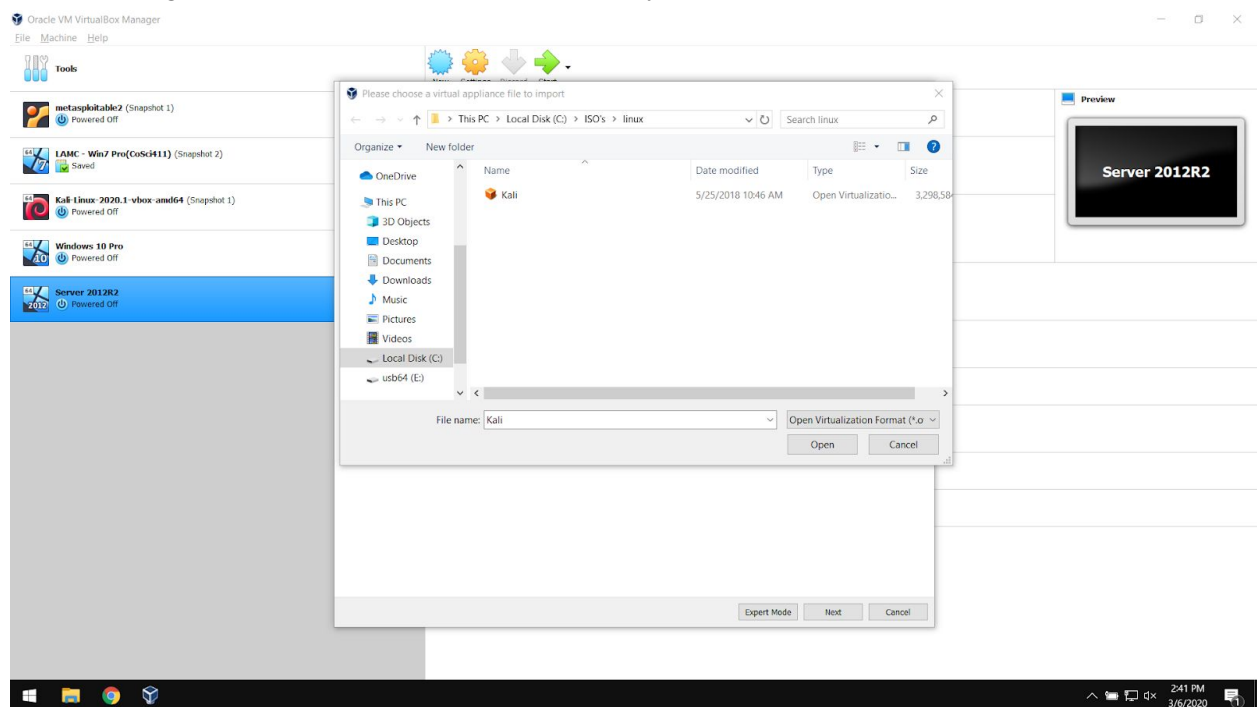
VirtualBox main menu

Since we are loading an appliance file, we need to select Import virtual appliance (ctrl i)



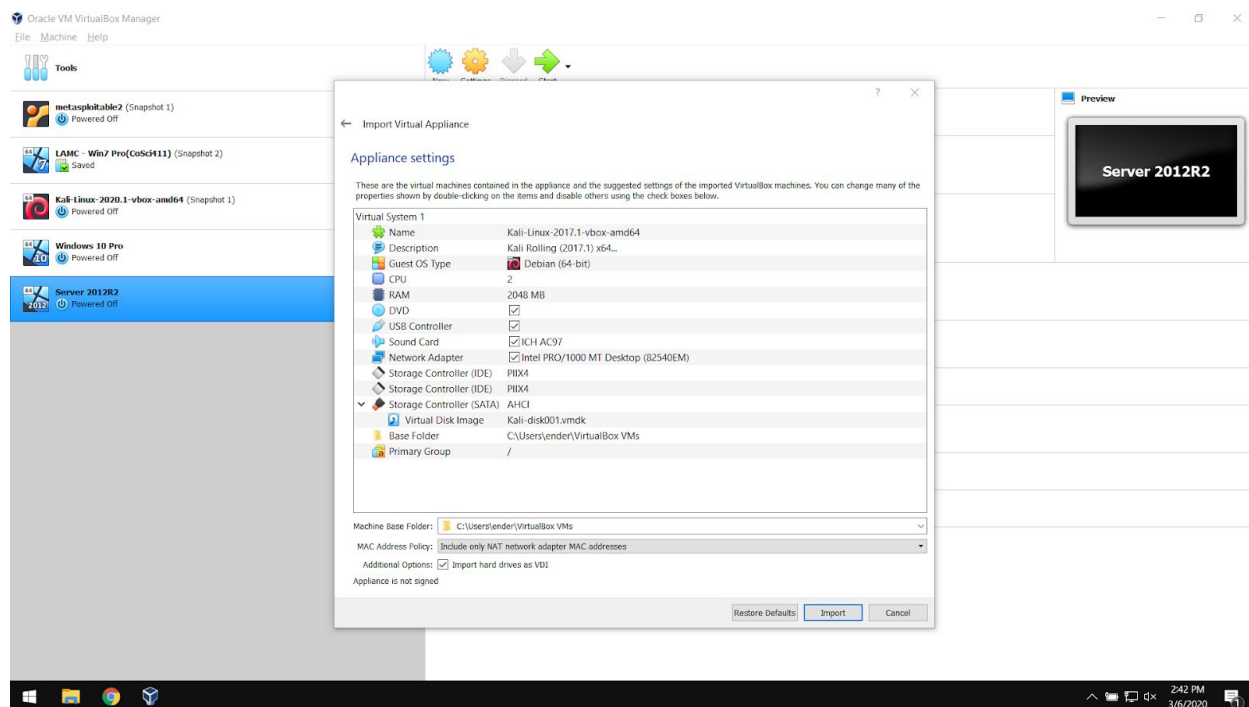
Appliance to import options

After selecting the folder icon, the Kali.ova file is ready to be loaded.



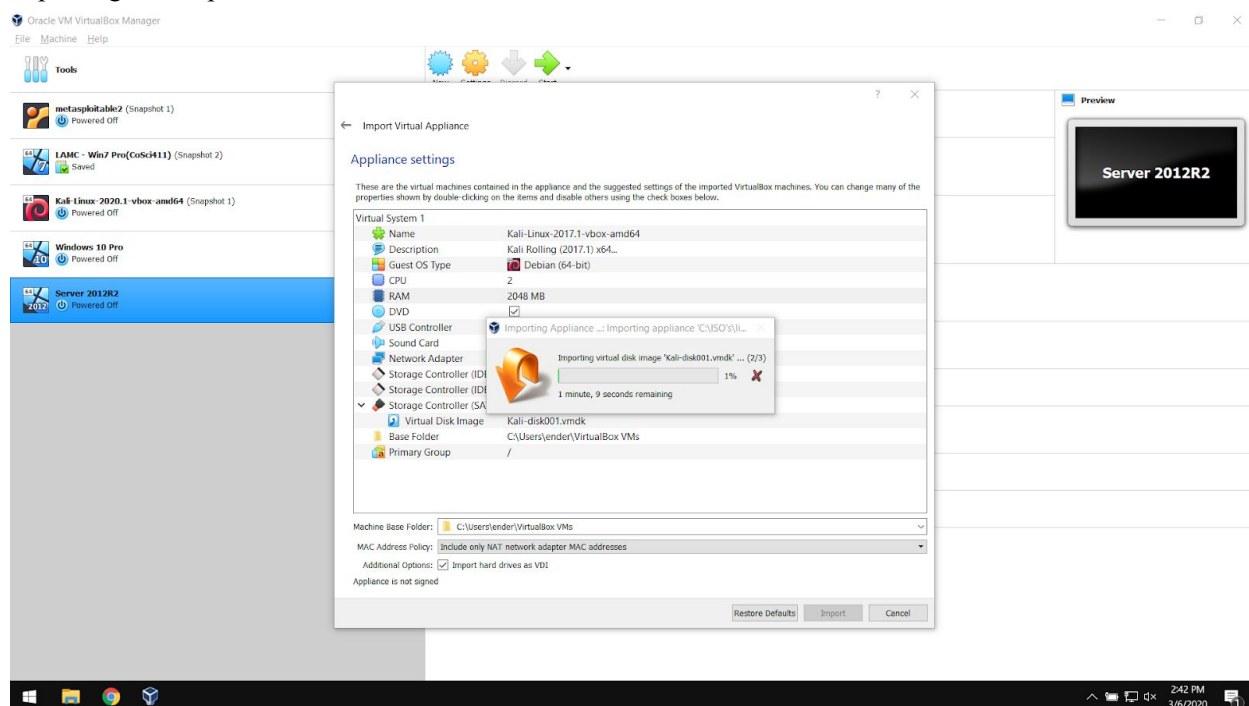
Choose a virtual appliance to import

After the OVA file loads, settings are automatically loaded and displayed. All kept default.



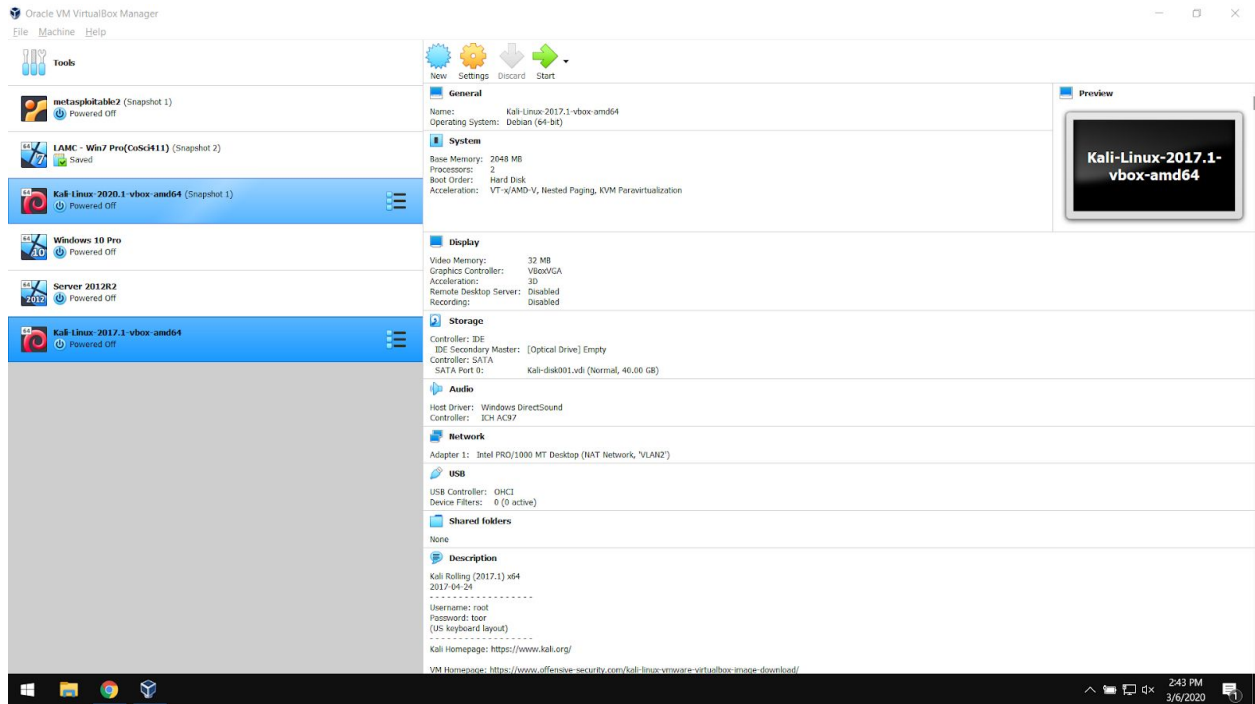
Appliance settings

Importing is completed under three minutes.



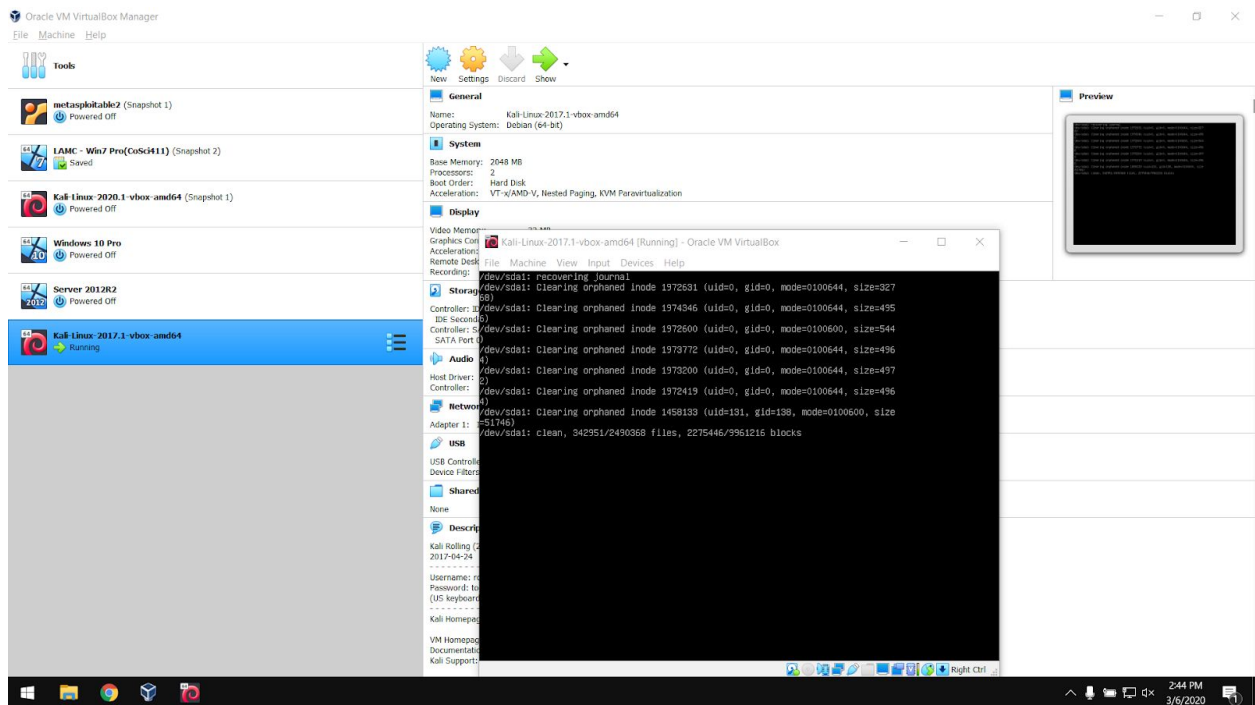
Importing loading screen

Importing has completed and ready to start Kali Linux for the first time.



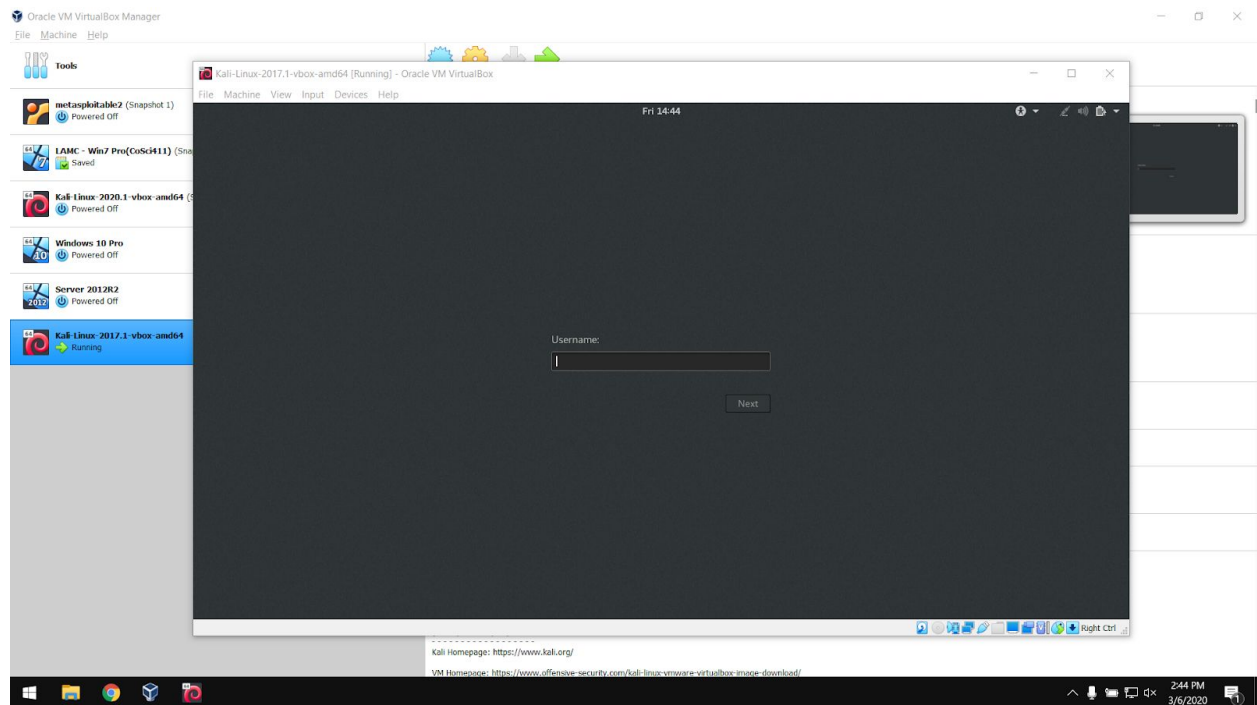
VirtualBox main menu

Kali Linux is running for the first time.



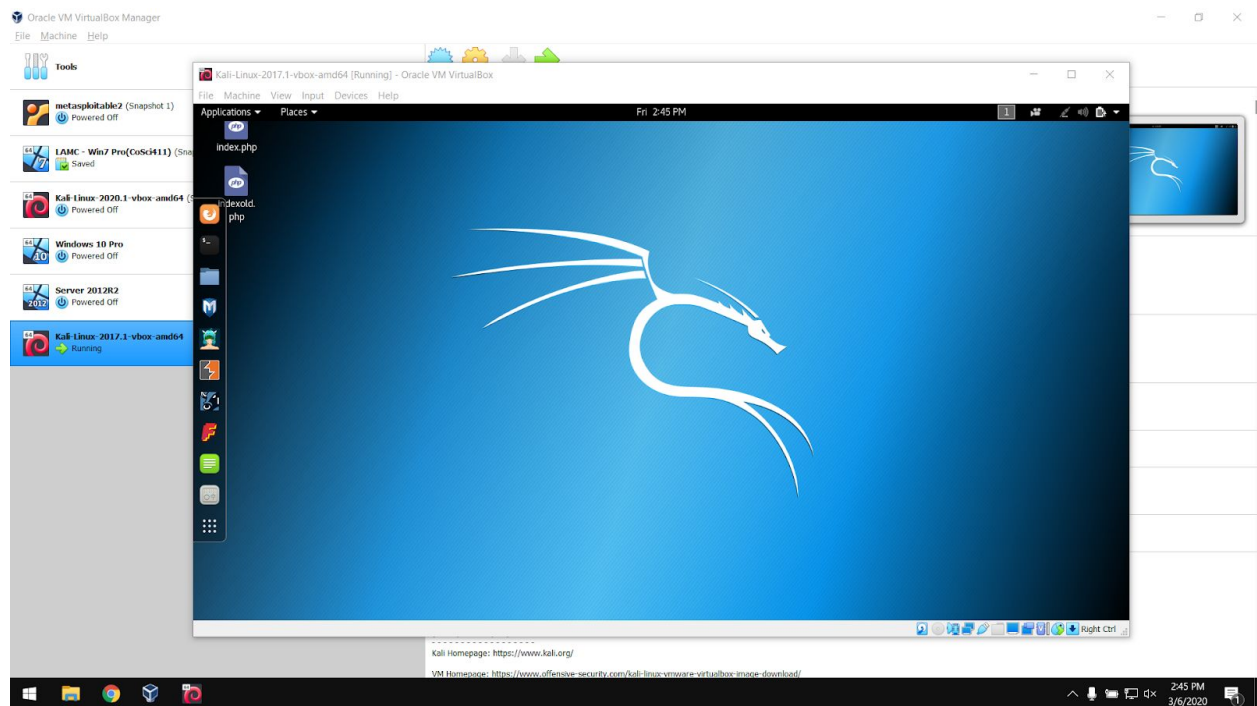
Initial setup screen for Kali Linux

After what seems a few seconds, Username and Password as requested (root::toor).



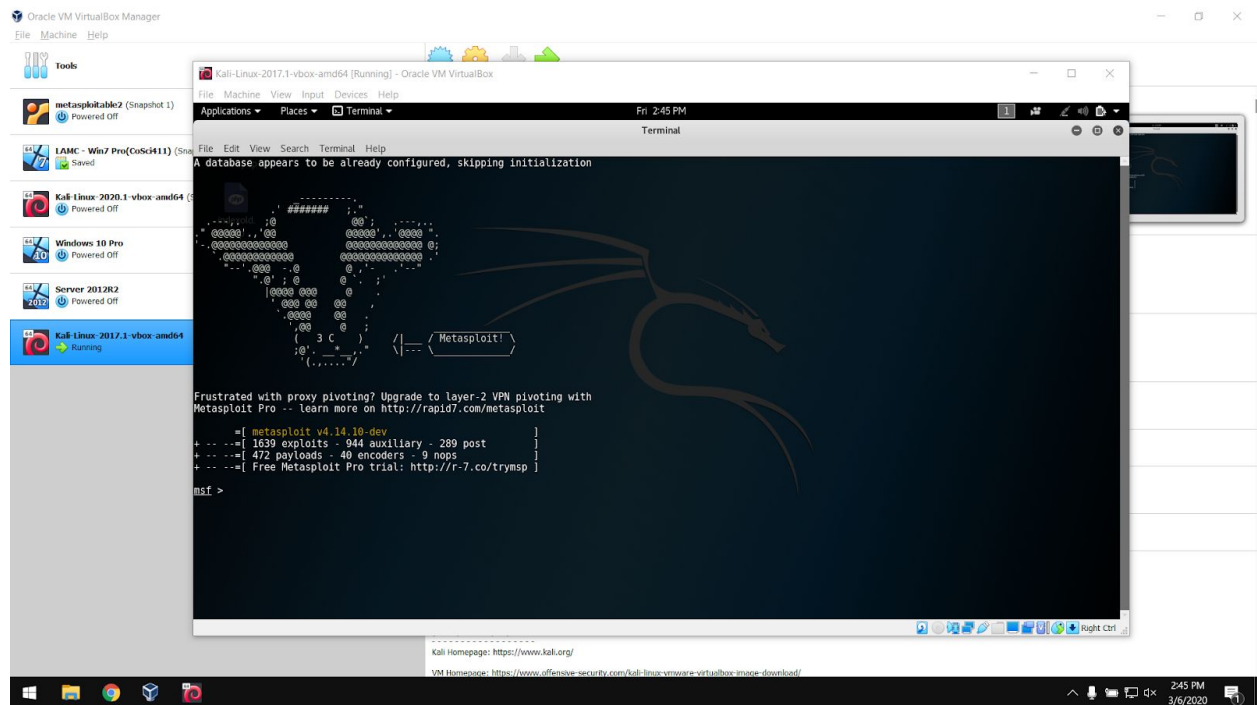
Username sign in screen

Kali Linux has started and is waiting for commands.



Kali Linux ready

Metasploit is started to verify internet connection.

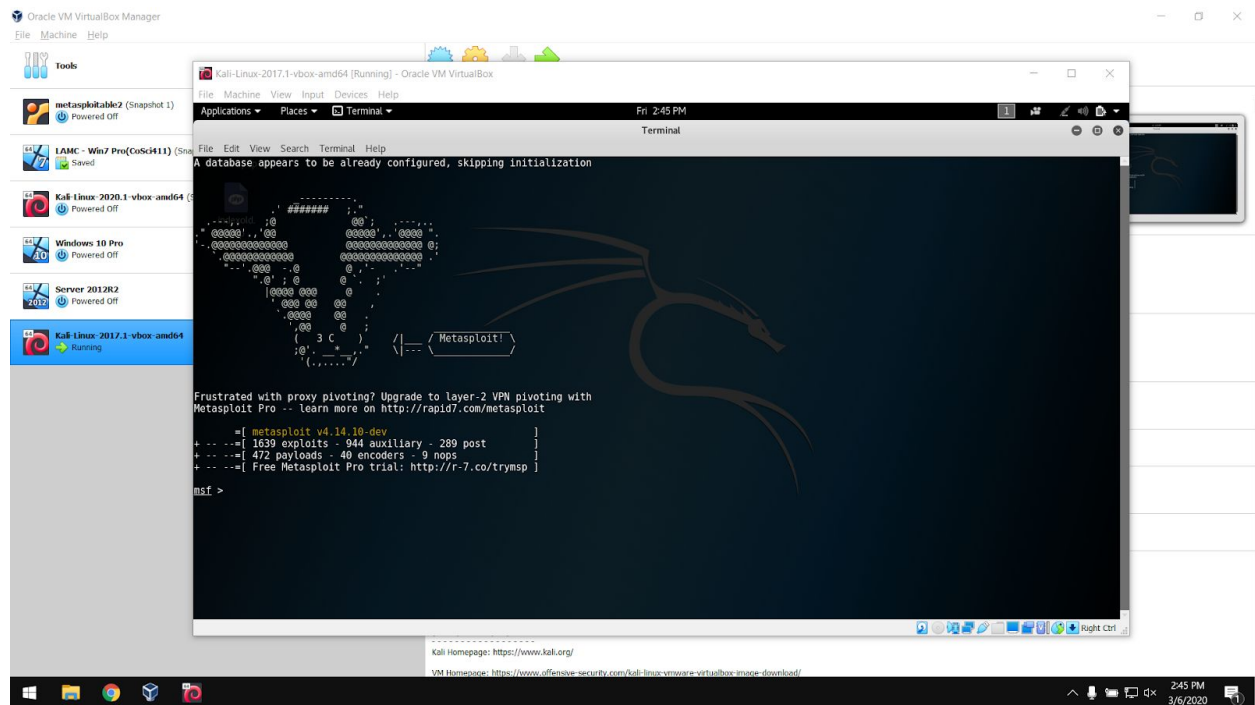


Metasploit console

3. Surprises. Things rarely go as planned. Include this in your report. If things aren't working, documenting the problem can help you to find the solution.

No installation quarks occurred during the installation of Kali Linux. The prepared OVA file assisted with cutting out required setup options and thus saved time. Future installs may benefit further if the initial RAM offering is increased to 4 GiB.

4. A screenshot of the final result of the assignment. When you are installing windows and logging in for the first time, give your computer enough time to finish logging into the desktop. Show the final result.



Final Screenshot

5. Summary. Did it work as expected? Did you need more research? Also use the ideas from the Malware Freakshow to illustrate how this assignment can be used in an actual hack? Are there other tools you can use? Show your thinking just as a thought experiment.

Kali Linux installed successfully and is connected to the internet. Using VirtualBox and a VM image in a nefarious way may allow access to a restricted network. The method described within this lab would entail physical access to a computer with a USB slot. However, other methods to deliver the image may include using a network install via VMWare VSphere clients. VMWare is another Virtualization software primarily owned by Dell Technologies. More research would be required for a detailed procedure list but initial findings from the Common Vulnerabilities and Exposures website¹ indicate multiple known VMWare VSphere client vulnerabilities that may provide a pathway in delivering a virtual image.

¹ <https://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=VMWare+VSphere+client>