Cyber Security Roadshow - Hands on hacking

Installation Guide

Preface

This section provides necessary resources on how to install Oracle VM VirtualBox and set up a working guest environment/OS such that a user can complete the provided material. This guest OS will be used as the attacking machine. A virtual instance of Kali Linux has been prepared with all necessary material already installed. The image can be downloaded here, note that it is zip compressed and therefore needs to be decompressed before use:

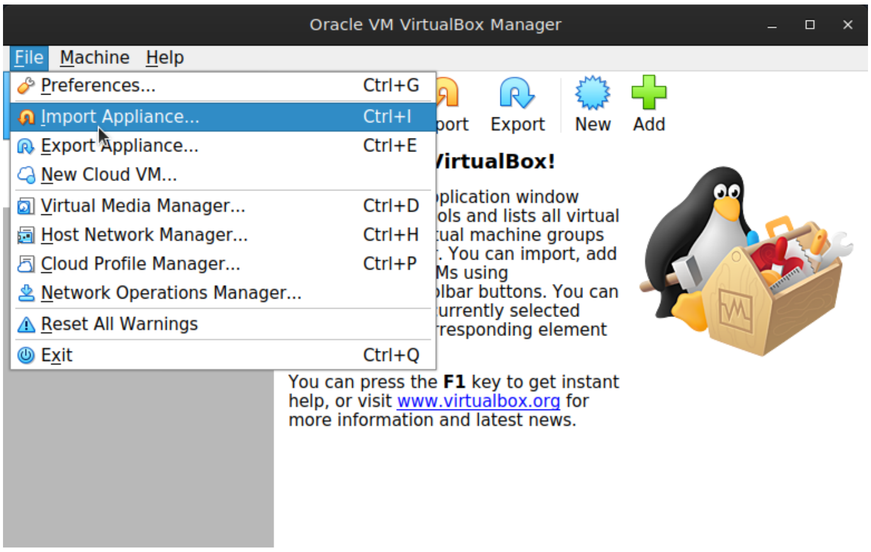
`https://drive.google.com/file/d/1bPuMdyqyw6mcgZO29hwXqFKgnc3bH2Z7/view?usp=sharing`

If for some reason another instance of Kali Linux is preferred, the Github repository must be cloned and Docker Compose must be installed on the host to spawn the target application.

Oracle VM VirtualBox installation

Initially, VirtualBox must be installed in order to spawn a guest OS on the host. Installation packages for the corresponding host (Windows, OS X, Linux) can be found here `https://www.virtualbox.org/wiki/Download` along with documentation on how to install the Oracle VM VirtualBox Extension Pack, which allows functionality like USB 2.0 and 3.0 passthrough.

Once VirtualBox has been installed, the provided Kali Linux image must be imported. To import the image, choose File then Import Appliance and locate the provided .ova file as shown below.


Oracle VM VirtualBox Manager
File
Machine
Help
Preferences... Ctrl+G
Import Appliance... Ctrl+I
Export Appliance... Ctrl+E
New Cloud VM...
Virtual Media Manager... Ctrl+D
Host Network Manager... Ctrl+H
Cloud Profile Manager... Ctrl+P
Network Operations Manager...
Reset All Warnings
Exit Ctrl+Q
port
Export
New
Add
/irtualBox!

plication window ols and lists all virtual ual machine groups . You can import, add Ms using lbar buttons. You can urrently selected responding element

You can press the **F1** key to get instant help, or visit www.virtualbox.org for more information and latest news.

Figure 1: Import Appliance in VirtualBox

Credentials for the provided Kali Linux:

Username: kali

Password: kali

If another image is preferred, the user must download such image and install it in a similar way, assuming the preferred image is the VirtualBox one.

Docker Compose installation

Docker Compose is already installed and configured in the provided image. However, if another image is used an installation guide can be found here `https://docs.docker.com/compose/`.

Application from Github

The application is already downloaded on the provided Kali Linux. If another instance of Kali Linux is used, it is necessary to download the application on Kali Linux from the Github page `https://github.com/ABreum95/Cyber-Security-Roadshow` and place it on the Desktop. Note, virtualization must be enabled in the host's BIOS/UEFI. If not, one will have to do so but this guide will not dive into how due to the variety of ways to achieve this.

Build, start and stop the application

To run the application, open a terminal and navigate to the applications folder, Cyber-Security-Roadshow, located on the desktop and enter the following commands.

```
sudo docker-compose build
sudo docker-compose up -d
```

Wait a few minutes to let the SQL server start.

To stop the application from running, execute the following command:

```
sudo docker-compose down
```