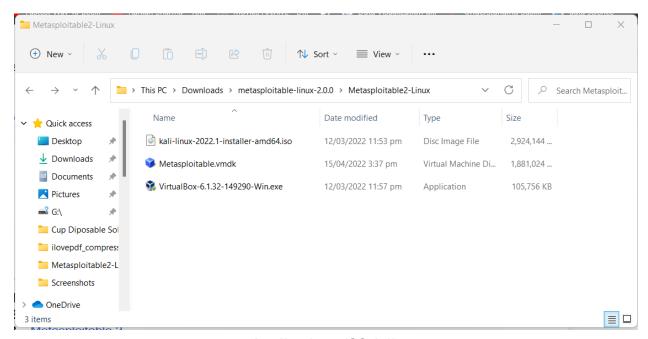
Assignment 1

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Step 1:

Download the following things: (Screenshot 1.1)

- 1. Oracle VM Virtual Box.
- 2. Kali Linux iso image file.
- 3. Metasploitable 2.

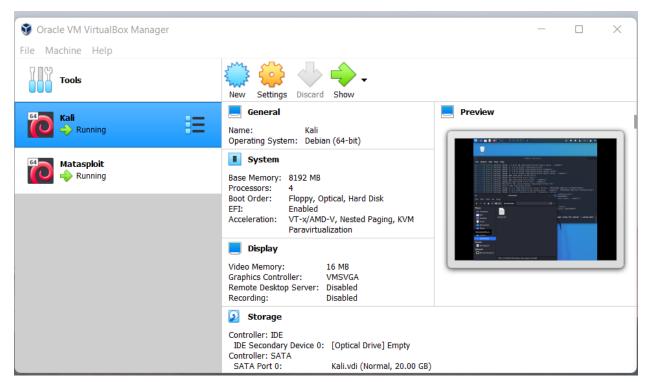


Applications (SS 1.1)

Step 2:

Follow the given steps in order: (SS 2.1)

- 1. Install Oracle VM Virtual Box
- 2. Install the Kali Linux via VM Virtual Box.
- 3. Install Metasploitable 2 via VM Virtual Box



Virtual Machine Oracle (SS 2.1)

Note: (For Both Kali and Matasploit) Go to Settings \rightarrow Network \rightarrow Adapter 1 and set Attached to Host-only Adapter so both Kali and Matasploit will run on the same ip net so that they can communicate with each other.

Step 3:

Run the Metasploit 2 and perform the following tasks:

- 1. Login via default username and password i.e msfadmin
- Change the ip with the following command.Command: sudo ifconfig eth0 "your ip" netmask "your mask"
- 3. Type if config to check the ip.

```
Matasploit [Running] - Oracle VM VirtualBox
                                                                                 File Machine View Input Devices Help
msfadmin@metasploitable:~$ ifconfig
            Link encap:Ethernet HWaddr 08:00:27:92:5d:b6
           inet addr:192.168.0.1 Bcast:192.168.0.255 Mask:255.255.255.0 inet6 addr: fe80::a00:27ff:fe92:5db6/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
            RX packets:76580 errors:0 dropped:0 overruns:0 frame:0
            TX packets:84053 errors:0 dropped:0 overruns:0 carrier:0
            collisions:0 txqueuelen:1000
            RX bytes:9701560 (9.2 MB) TX bytes:152721890 (145.6 MB)
            Base address:0xd020 Memory:f0200000-f0220000
           Link encap:Local Loopback inet addr:127.0.0.1 Mask:255.0.0.0
lo
            inet6 addr: ::1/128 Scope:Host
            UP LOOPBACK RUNNING MTU:16436 Metric:1
            RX packets:640 errors:0 dropped:0 overruns:0 frame:0
            TX packets:640 errors:0 dropped:0 overruns:0 carrier:0
            collisions:0 txqueuelen:0
            RX bytes:229477 (224.0 KB) TX bytes:229477 (224.0 KB)
 msfadmin@metasploitable:~$
                                                    Q ( ) Right Ctrl
```

Step 4:

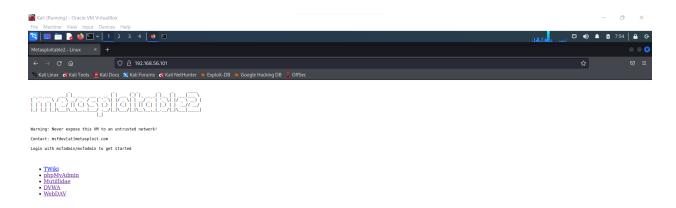
Run the Kali Linux and perform the following tasks:

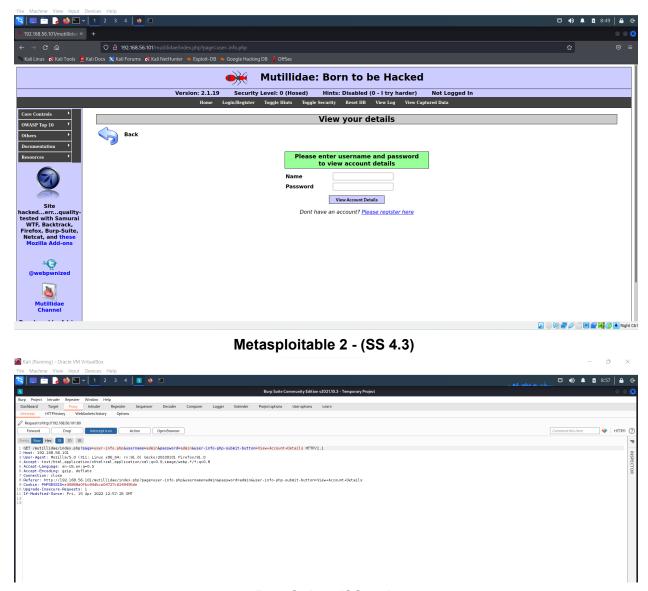
1. Ping the Metasploit in order to check if there is communication between Kali Linux and Metasploit or not. (SS 4.1)

Command: ping "Metasploit ip"

- 2. Open the browser and type the Metasploit's ip. (SS 4.2)
- **3.** After seeing Metasploit on the browser go to Mutillidae \rightarrow OWASP \rightarrow A1 Injection \rightarrow SQLi Extract Data \rightarrow User Info.
- 4. This will redirect you to the login page. (SS 4.3)
- 5. Before Login, run BurpSuite.
- **6.** In BurpSuite, go to the proxy section and after that go to your user login page again and login with a random name and password.
- 7. When you click, get account details, BurpSuite will automatically start to capture HTTP requests and will show you. (\$\script{SS}\) 4.4)
- **8.** After getting an HTTP request, save the result in any folder for later use.

Ping - (SS 4.1)





BurpSuite - (SS 4.4)

Step 5:

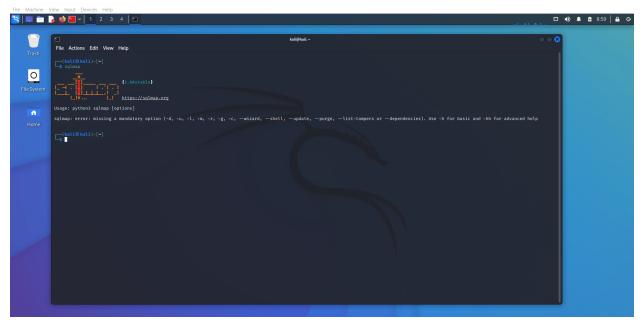
After saving the request perform the following operations:

- 1. Open the terminal and type sqlmap and press enter. (SS 5.1)
- 2. Sqlmap can be used to perform different types of sql attacks.
- **3.** Type the command to fetch the details Command: sqlmap -r "your save file location" –dbs
- **4.** This will show you all the details of the database including its tables.
- 5. In order to fetch tables type the following command. (SS 5.2)Command: sqlmap -r "your save file location" -D "table name" -tables
- **6.** In order to fetch the details from the tables type the following command.

Command: sqlmap -r "file location" -D "table name" -T "table name" -dump

7. The below command will simply dump the data of the particular table.

Command: sqlmap -r "file location" --dump -D "database" -T "table"



Sqlmap (SS 5.1)



Sqlmap (SS 5.2)