

# APEX Planet Cyber security & Ethical

## Hacking Program

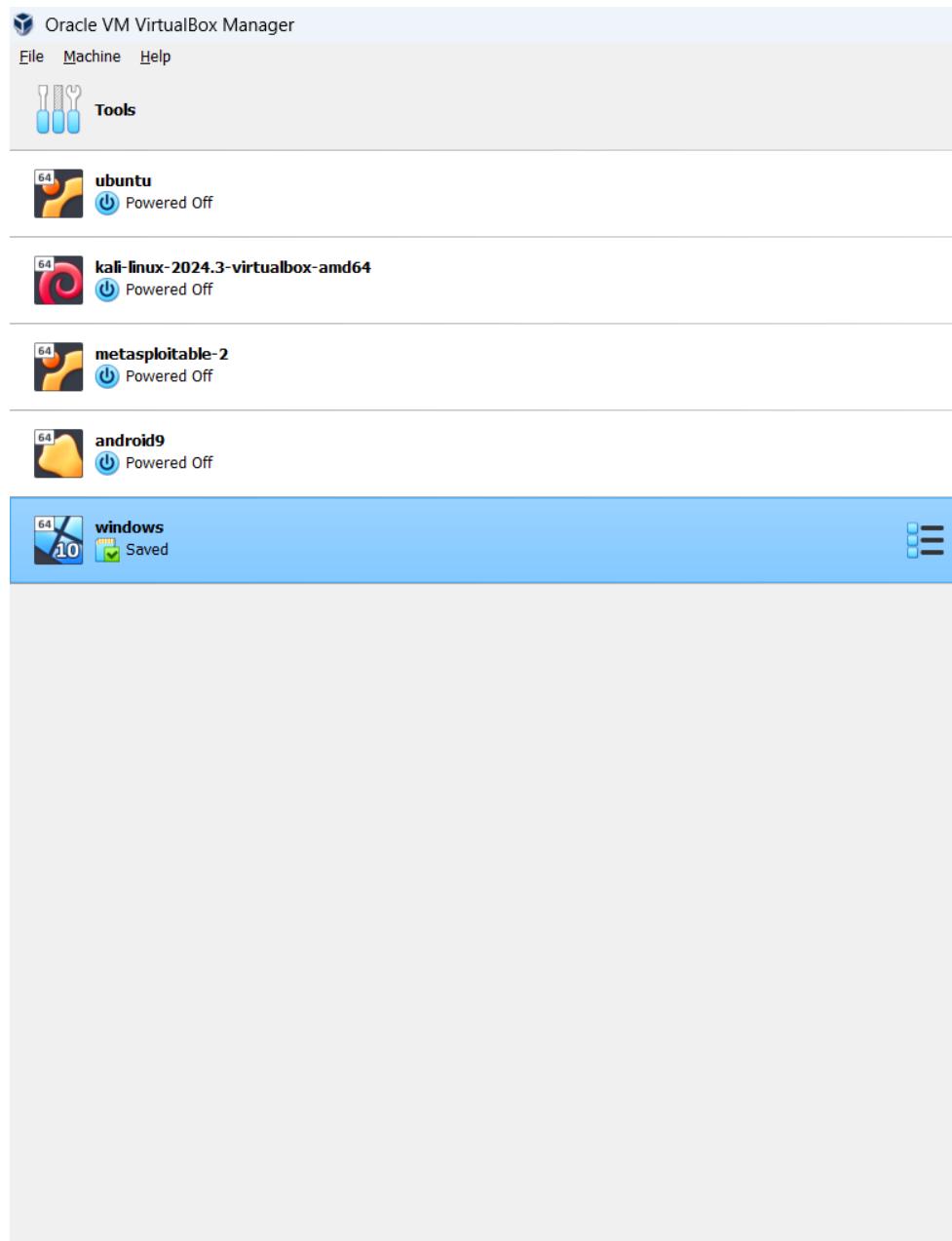
### Lab Setup Report

Setting up a virtual environment for cybersecurity and ethical hacking program in Apex planet by using virtual box

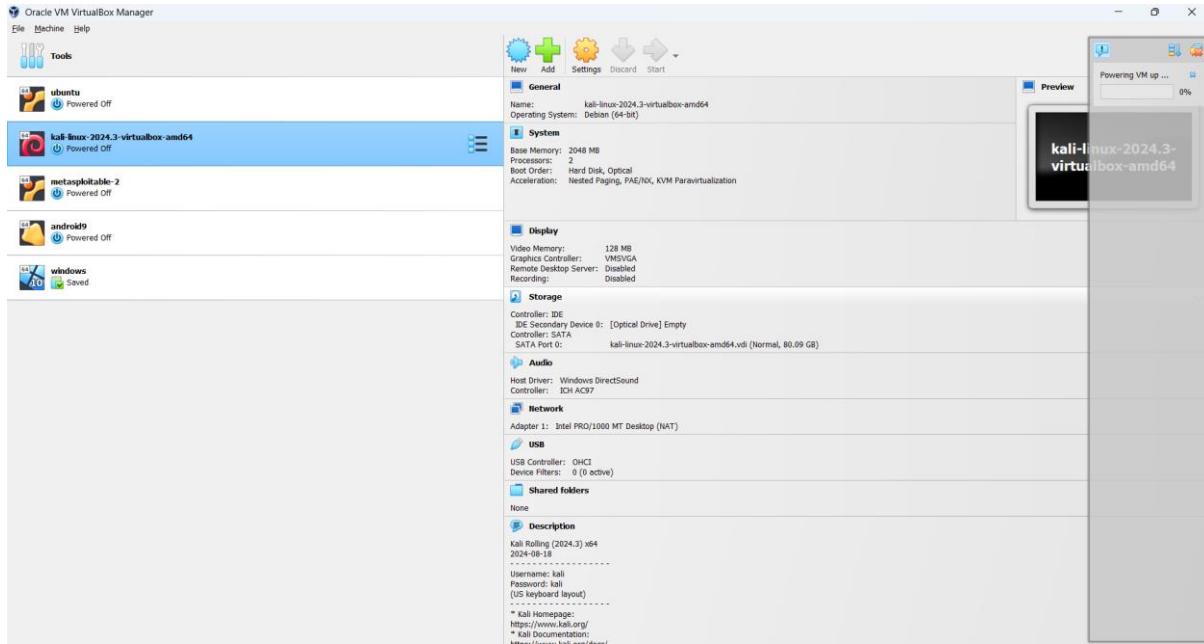
Attacker as Kali Linux

Target as Metasploitable

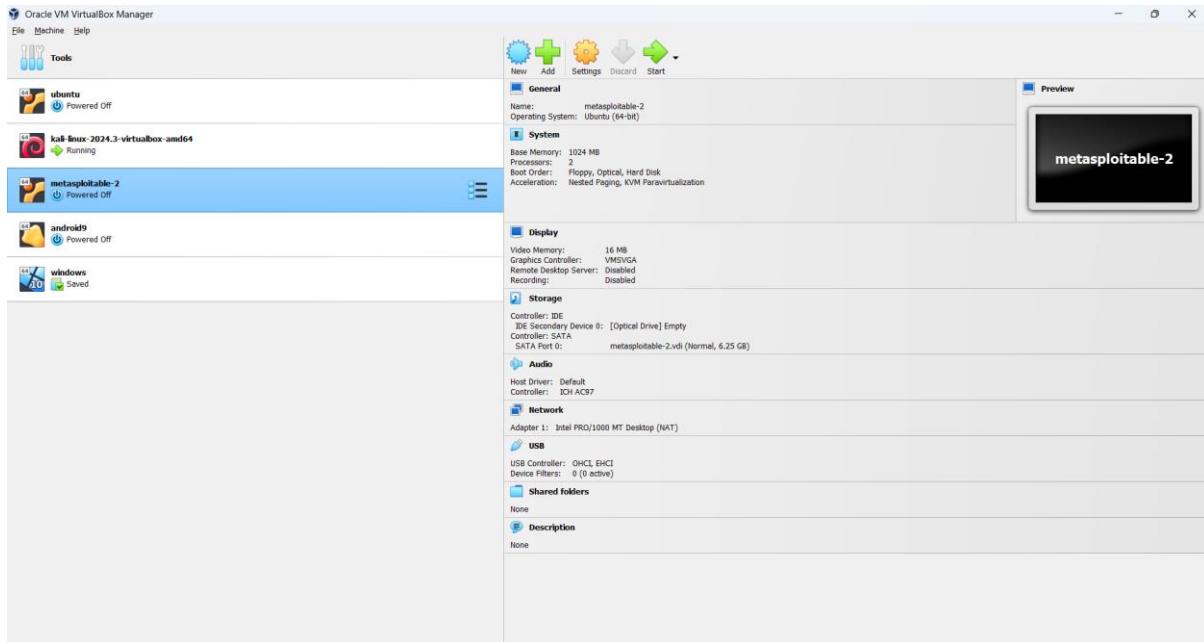
### VM List Snapshot



## Kali Linux VM Details (Attacker)



## Metasploitable VM Details (Target)



## Kali Desktop



## Metasploitable Desktop & ifconfig

A screenshot of the Metasploitable desktop environment. The desktop background is a light blue with a subtle grid pattern. At the bottom of the screen, there is a dock with several icons: a terminal window, a browser icon, a file manager icon, a file system icon, a lock icon, and a power icon. The top of the screen shows the window title "metasploitable2 [Running] - Oracle VM VirtualBox" and a menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". The main area of the screen displays a terminal window with the following text:

```
To access official Ubuntu documentation, please visit:  
http://help.ubuntu.com/  
No mail.  
msfadmin@metasploitable:~$ ifconfig  
eth0      Link encap:Ethernet HWaddr 08:00:27:38:70:3e  
          inet addr:10.0.2.15 Bcast:10.0.2.255 Mask:255.255.255.0  
          inet6 addr: fe80::a00:27ff:fe38:703e/64 Scope:Link  
            UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
            RX packets:21 errors:0 dropped:0 overruns:0 frame:0  
            TX packets:48 errors:0 dropped:0 overruns:0 carrier:0  
            collisions:0 txqueuelen:1000  
            RX bytes:2574 (2.5 KB) TX bytes:5156 (5.0 KB)  
            Base address:0xd020 Memory:f0200000-f0220000  
  
lo       Link encap:Local Loopback  
          inet addr:127.0.0.1 Mask:255.0.0.0  
          inet6 addr: ::1/128 Scope:Host  
            UP LOOPBACK RUNNING MTU:16436 Metric:1  
            RX packets:91 errors:0 dropped:0 overruns:0 frame:0  
            TX packets:91 errors:0 dropped:0 overruns:0 carrier:0  
            collisions:0 txqueuelen:0  
            RX bytes:19301 (18.8 KB) TX bytes:19301 (18.8 KB)  
  
msfadmin@metasploitable:~$
```

## Kali ifconfig and ping

kali@kali: ~

```
File Actions Edit View Help
└─$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
        inet6 fe80::e5d3:18e5:1c4b:4e30 prefixlen 64 scopeid 0x20<link>
            ether 08:00:27:ad:25:87 txqueuelen 1000 (Ethernet)
            RX packets 1 bytes 590 (590.0 B)
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 23 bytes 3090 (3.0 KiB)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
        inet6 ::1 prefixlen 128 scopeid 0x10<host>
            loop txqueuelen 1000 (Local Loopback)
            RX packets 8 bytes 480 (480.0 B)
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 8 bytes 480 (480.0 B)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

└─(kali㉿kali)-[~]
$ ping 10.0.2.15
PING 10.0.2.15 (10.0.2.15) 56(84) bytes of data.
```

kali@kali: ~

```
File Actions Edit View Help
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 8 bytes 480 (480.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

└─(kali㉿kali)-[~]
$ ping 10.0.2.15
PING 10.0.2.15 (10.0.2.15) 56(84) bytes of data.
64 bytes from 10.0.2.15: icmp_seq=1 ttl=64 time=0.030 ms
64 bytes from 10.0.2.15: icmp_seq=2 ttl=64 time=0.038 ms
64 bytes from 10.0.2.15: icmp_seq=3 ttl=64 time=0.032 ms
64 bytes from 10.0.2.15: icmp_seq=4 ttl=64 time=0.030 ms
64 bytes from 10.0.2.15: icmp_seq=5 ttl=64 time=0.057 ms
64 bytes from 10.0.2.15: icmp_seq=6 ttl=64 time=0.030 ms
64 bytes from 10.0.2.15: icmp_seq=7 ttl=64 time=0.091 ms
64 bytes from 10.0.2.15: icmp_seq=8 ttl=64 time=0.049 ms
^C
— 10.0.2.15 ping statistics —
8 packets transmitted, 8 received, 0% packet loss, time 7158ms
rtt min/avg/max/mdev = 0.030/0.044/0.091/0.019 ms

└─(kali㉿kali)-[~]
$
```