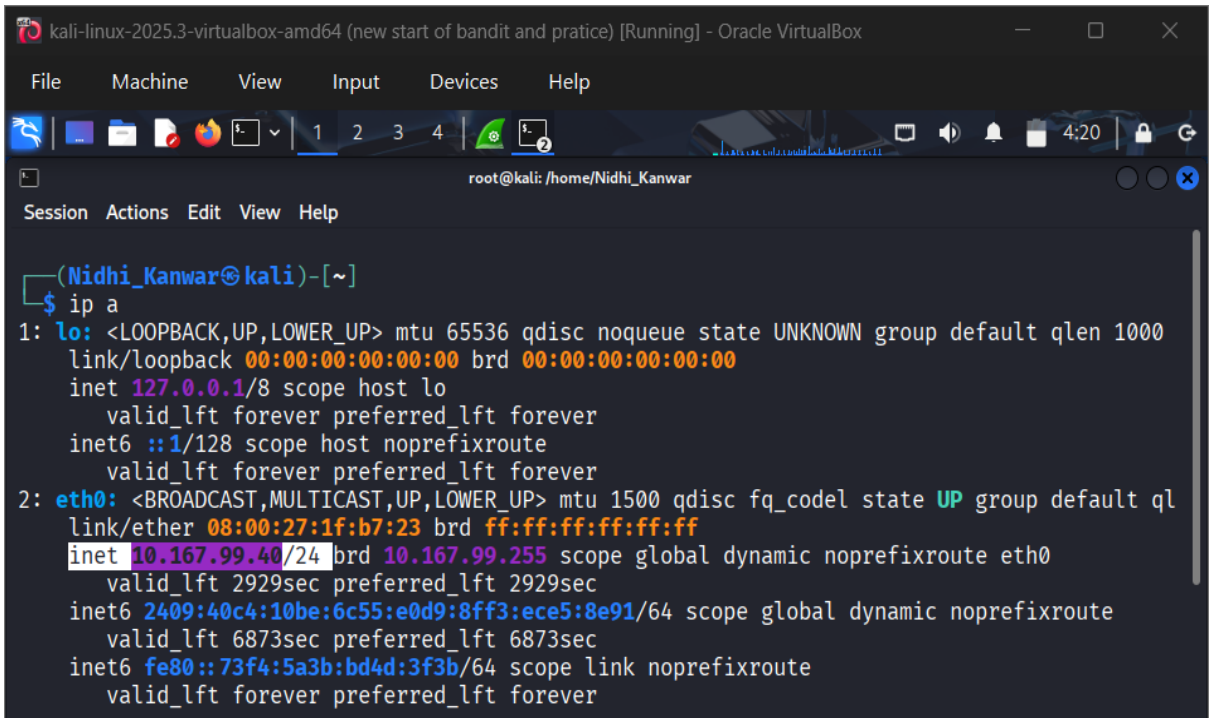
ARP Spoofing Attack Demonstration

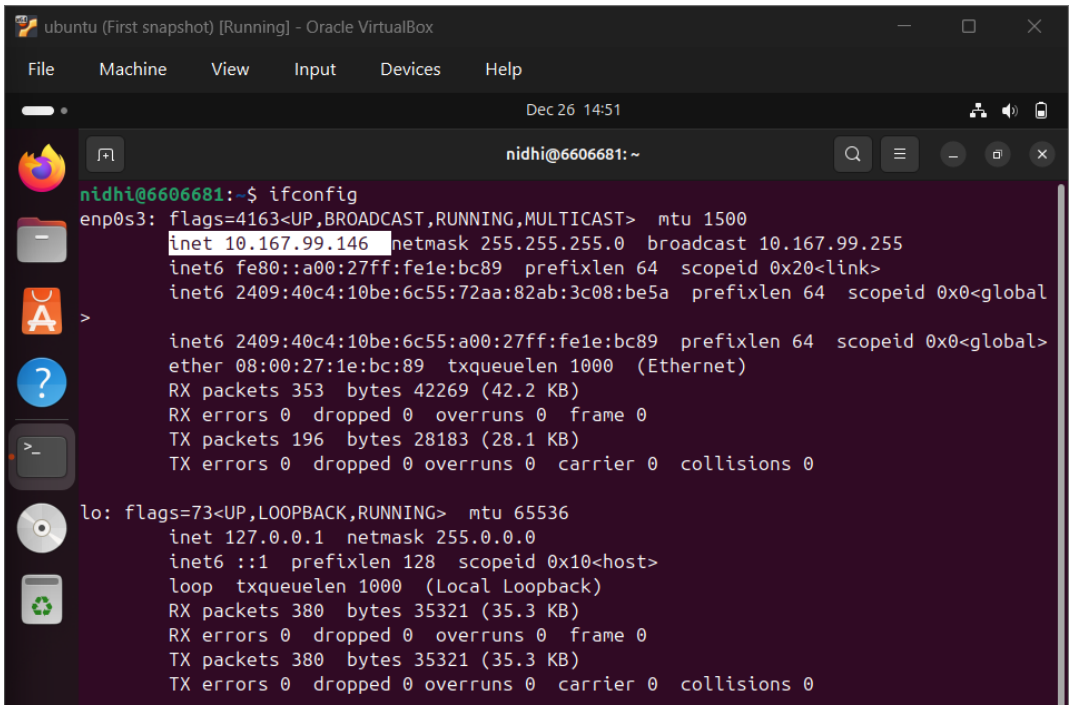
Project Title:

Demonstration of ARP Spoofing Attack in a Virtualized Network Environment

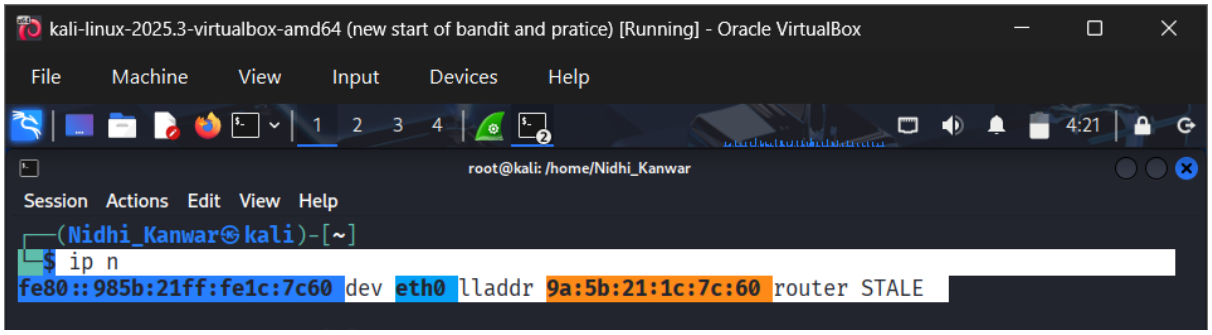
Attacker's Ip



Victims Ip

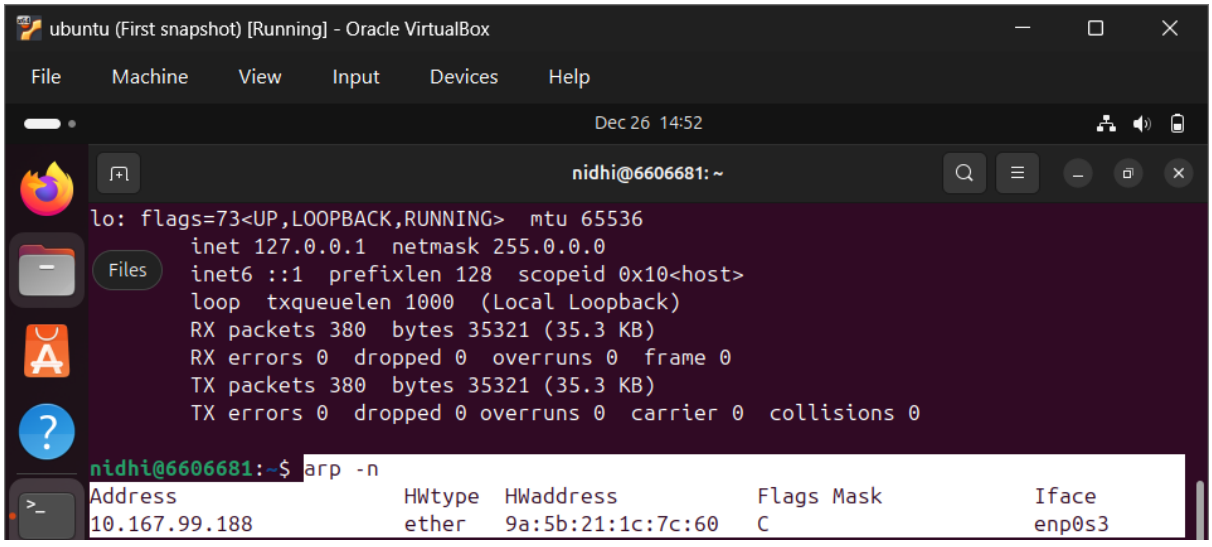


Attacker’s ARP Table



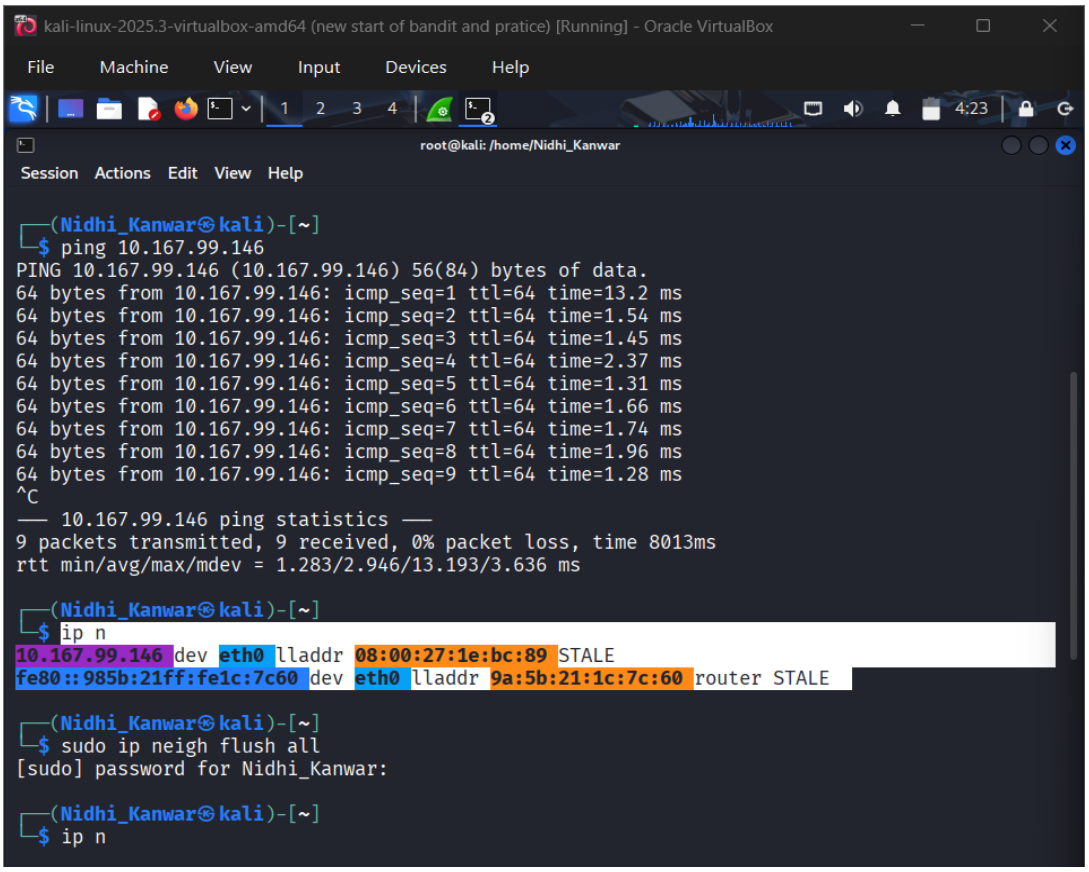
ARP Table Before Communication

Victims ARP Table



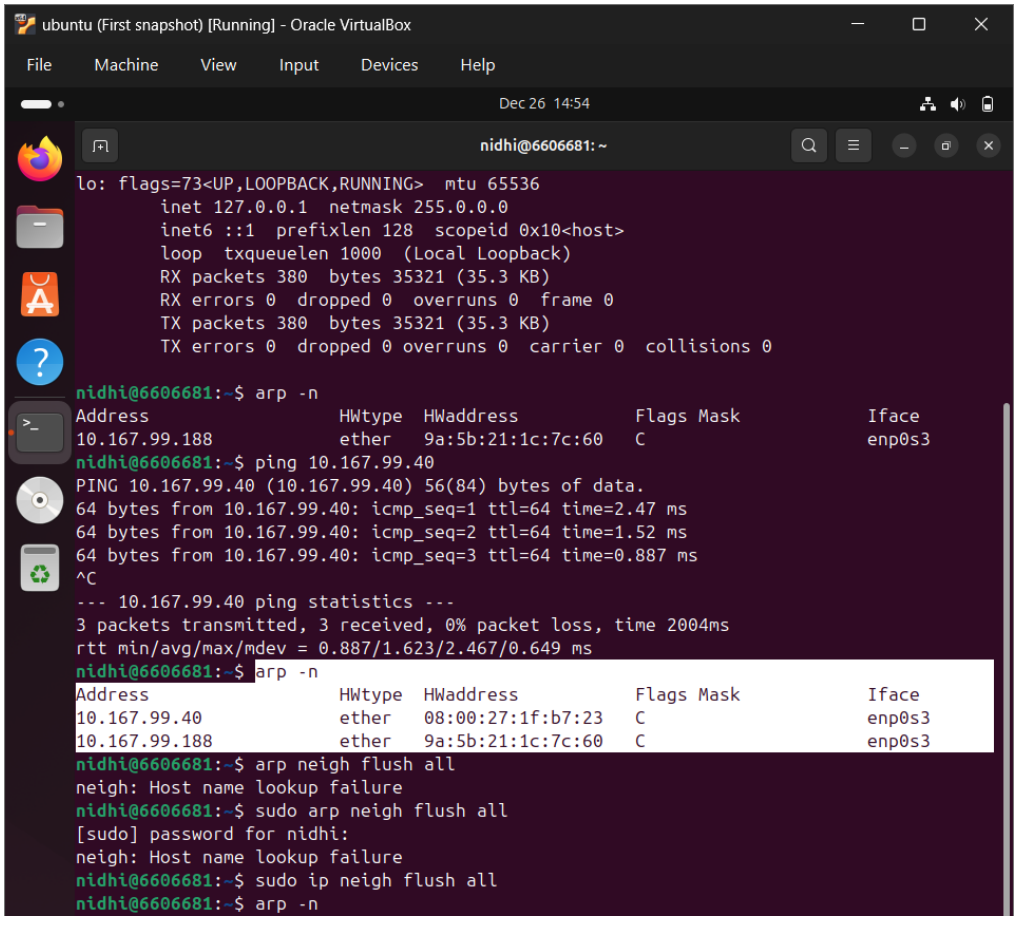
Victims ARP Table Before Communication

Attacker's ARP table after ping



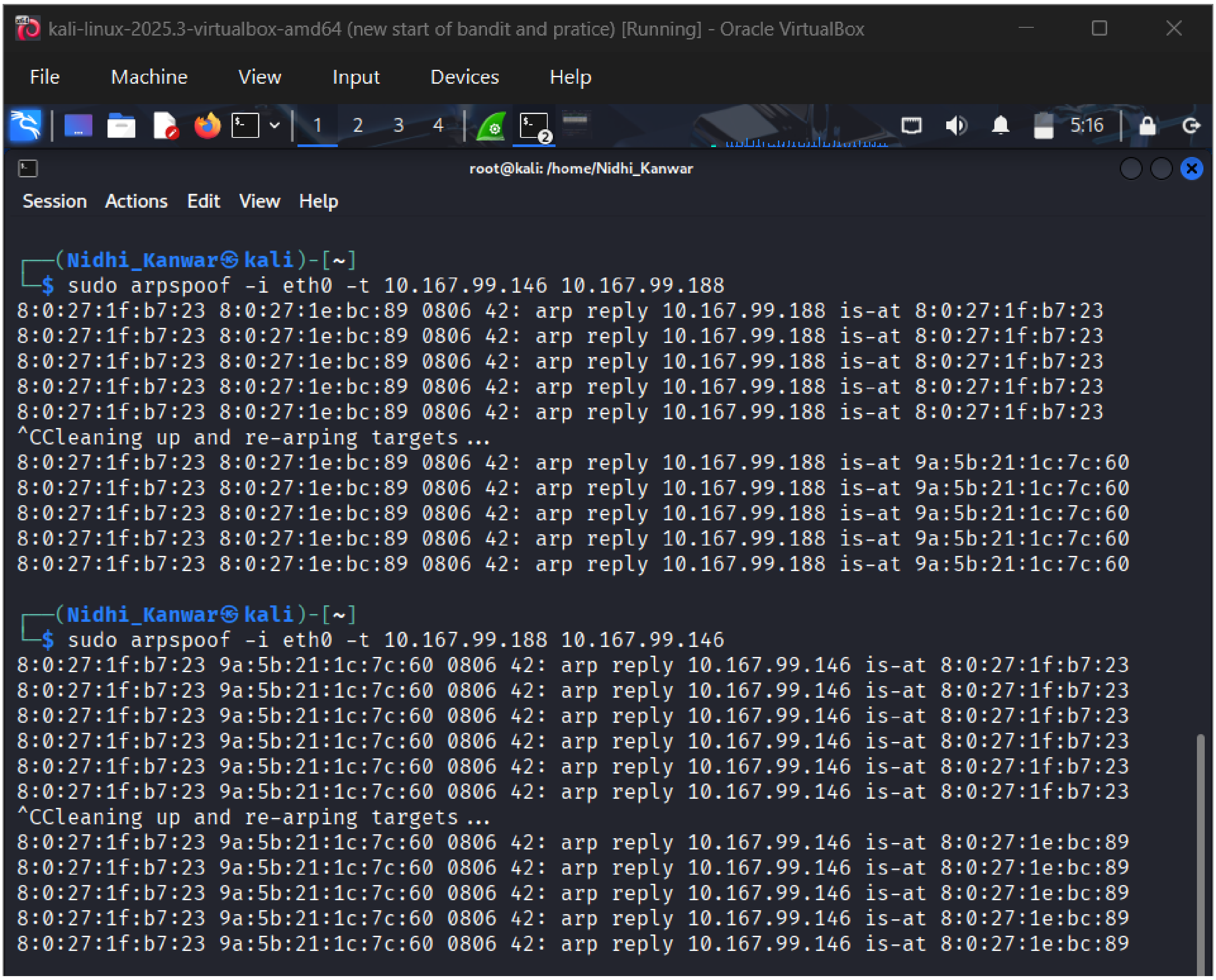
Attackers ARP after clearing ARP cache

Victim's ARP table after ping

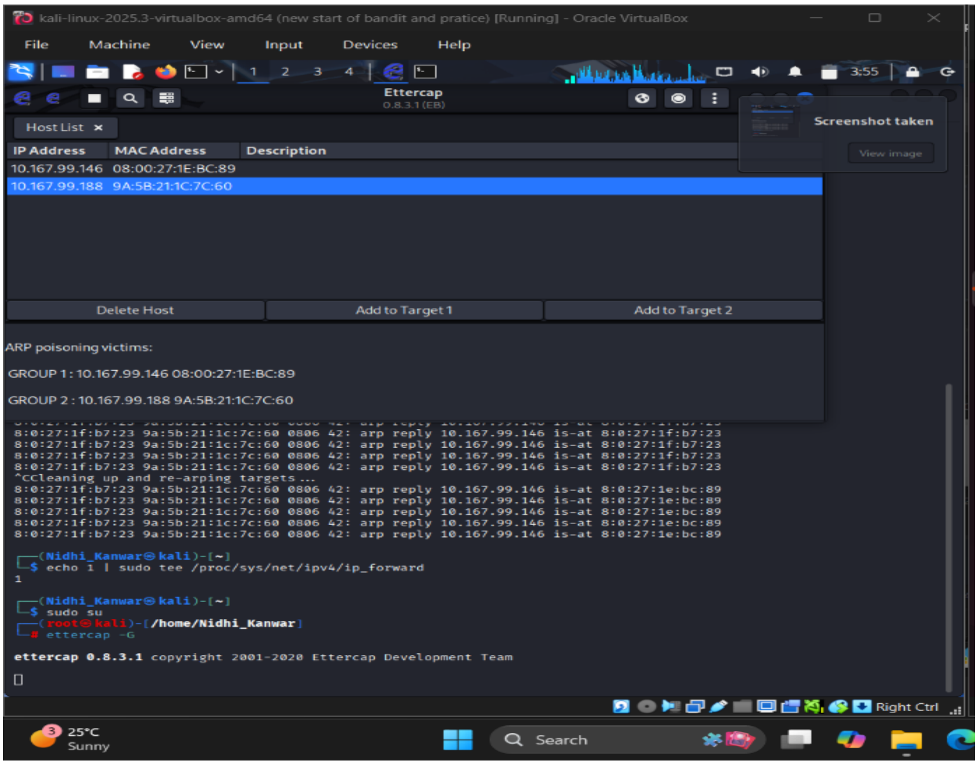


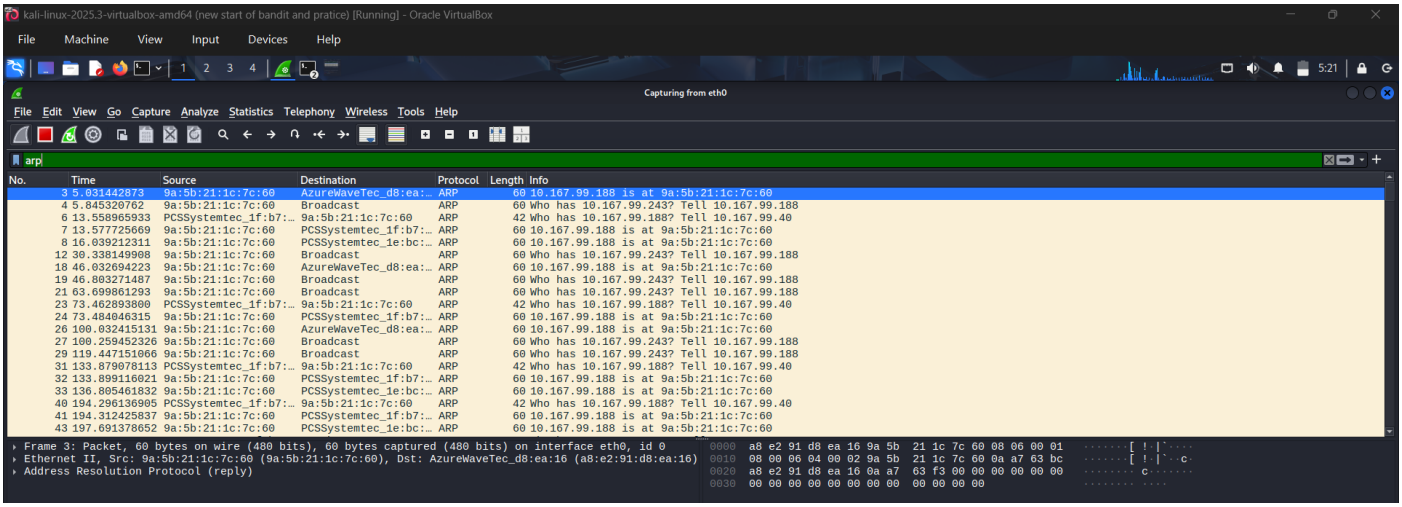
Victims ARP after clearing ARP cache

ARPSPOOFING



ARP poisioning Victim




kali-linux-2025.3-virtualbox-amd64 (new start of bandit and pratice) [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Capturing from eth0
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
arp
No. Time Source Destination Protocol Length Info
3 5.031442873 9a:5b:21:1c:7c:60 AzureWaveTec_d8:ea:… ARP 60 10.167.99.188 is at 9a:5b:21:1c:7c:60
4 5.845320762 9a:5b:21:1c:7c:60 Broadcast ARP 60 Who has 10.167.99.243? Tell 10.167.99.188
6 13.558965933 PCSSystemtec_1f:b7:… 9a:5b:21:1c:7c:60 ARP 42 Who has 10.167.99.188? Tell 10.167.99.40
7 13.577725669 9a:5b:21:1c:7c:60 PCSSystemtec_1f:b7:… ARP 60 10.167.99.188 is at 9a:5b:21:1c:7c:60
8 16.039212311 9a:5b:21:1c:7c:60 PCSSystemtec_1e:bc:… ARP 60 10.167.99.188 is at 9a:5b:21:1c:7c:60
12 30.338149908 9a:5b:21:1c:7c:60 Broadcast ARP 60 Who has 10.167.99.243? Tell 10.167.99.188
18 46.032694223 9a:5b:21:1c:7c:60 AzureWaveTec_d8:ea:… ARP 60 10.167.99.188 is at 9a:5b:21:1c:7c:60
19 46.803271487 9a:5b:21:1c:7c:60 Broadcast ARP 60 Who has 10.167.99.243? Tell 10.167.99.188
21 63.699861293 9a:5b:21:1c:7c:60 Broadcast ARP 60 Who has 10.167.99.243? Tell 10.167.99.188
23 73.462893800 PCSSystemtec_1f:b7:… 9a:5b:21:1c:7c:60 ARP 42 Who has 10.167.99.188? Tell 10.167.99.40
24 73.484046315 9a:5b:21:1c:7c:60 PCSSystemtec_1f:b7:… ARP 60 10.167.99.188 is at 9a:5b:21:1c:7c:60
26 100.032415131 9a:5b:21:1c:7c:60 AzureWaveTec_d8:ea:… ARP 60 10.167.99.188 is at 9a:5b:21:1c:7c:60
27 100.259452326 9a:5b:21:1c:7c:60 Broadcast ARP 60 Who has 10.167.99.243? Tell 10.167.99.188
29 119.447151066 9a:5b:21:1c:7c:60 Broadcast ARP 60 Who has 10.167.99.243? Tell 10.167.99.188
31 133.879078113 PCSSystemtec_1f:b7:… 9a:5b:21:1c:7c:60 ARP 42 Who has 10.167.99.188? Tell 10.167.99.40
32 133.899116021 9a:5b:21:1c:7c:60 PCSSystemtec_1f:b7:… ARP 60 10.167.99.188 is at 9a:5b:21:1c:7c:60
33 136.805461832 9a:5b:21:1c:7c:60 PCSSystemtec_1e:bc:… ARP 60 10.167.99.188 is at 9a:5b:21:1c:7c:60
40 194.296136905 PCSSystemtec_1f:b7:… 9a:5b:21:1c:7c:60 ARP 42 Who has 10.167.99.188? Tell 10.167.99.40
41 194.312425837 9a:5b:21:1c:7c:60 PCSSystemtec_1f:b7:… ARP 60 10.167.99.188 is at 9a:5b:21:1c:7c:60
43 197.691378652 9a:5b:21:1c:7c:60 PCSSystemtec_1e:bc:… ARP 60 10.167.99.188 is at 9a:5b:21:1c:7c:60
Frame 3: Packet, 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface eth0, id 0
Ethernet II, Src: 9a:5b:21:1c:7c:60 (9a:5b:21:1c:7c:60), Dst: AzureWaveTec_d8:ea:16 (a8:e2:91:d8:ea:16)
Address Resolution Protocol (reply)
0000 a8 e2 91 d8 ea 16 9a 5b 21 1c 7c 60 08 06 00 01
0010 08 00 06 04 00 02 9a 5b 21 1c 7c 60 0a a7 63 bc
0020 a8 e2 91 d8 ea 16 0a a7 63 f3 00 00 00 00 00 00
0030 00 00 00 00 00 00 00 00 00 00 00 00