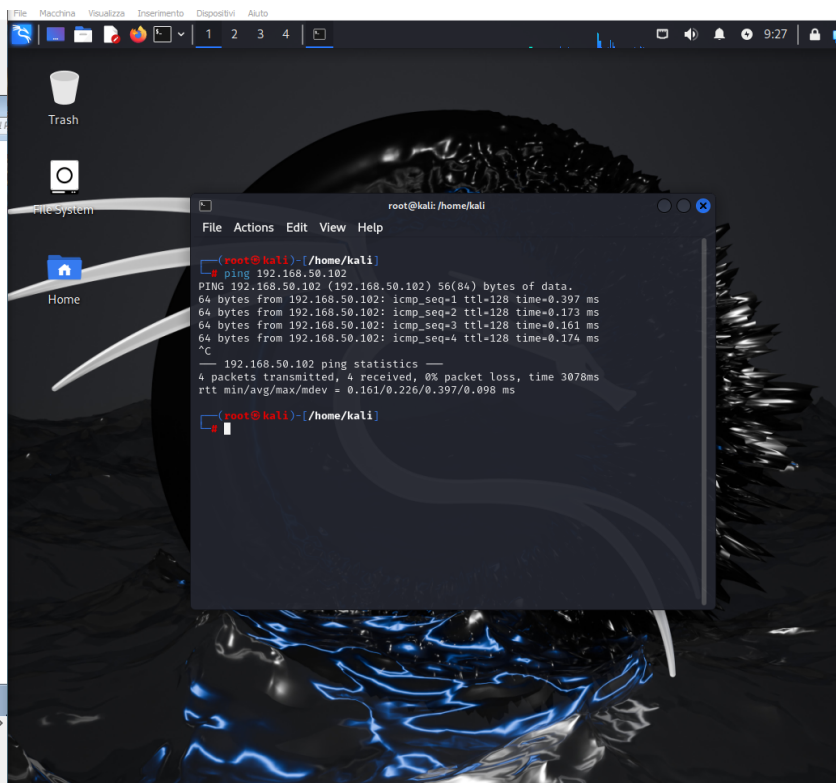
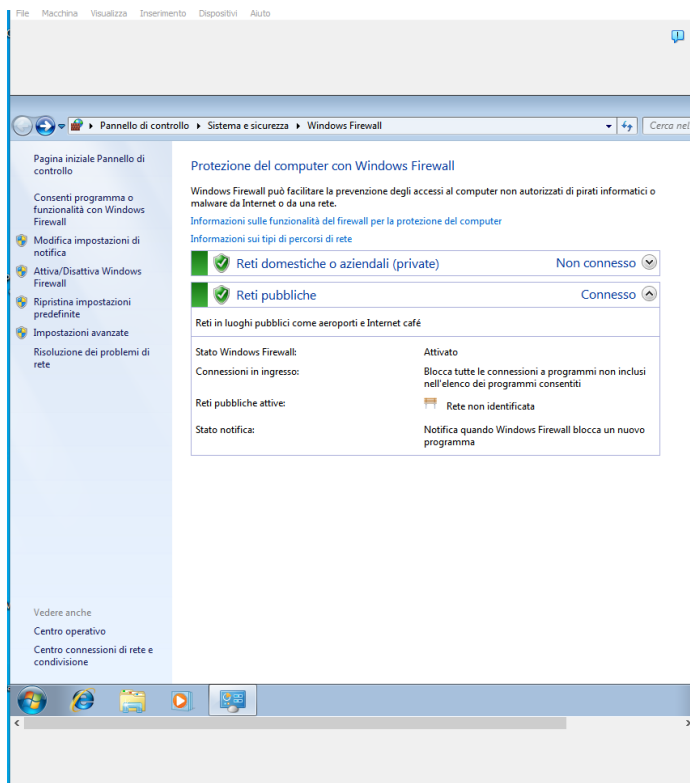


Esercizio Week3 Day 5:

1) Configurare policy per permettere il ping da macchine Linux a Macchina Windows 7 nel nostro laboratorio (Windows firewall)

Procedura in breve: Windows firewall, regole connessioni in entrata, click mouse destro e nuova regola, regola personalizzata avanti, tutti i programmi avanti, selezionare tipo di protocollo "ICMPv4" dal menù a tendina avanti, avanti, avanti, avanti, nome personalizzato e avanti.

Come da screen, Kali riesce a pingare correttamente Windows7 con il Firewall attivo.



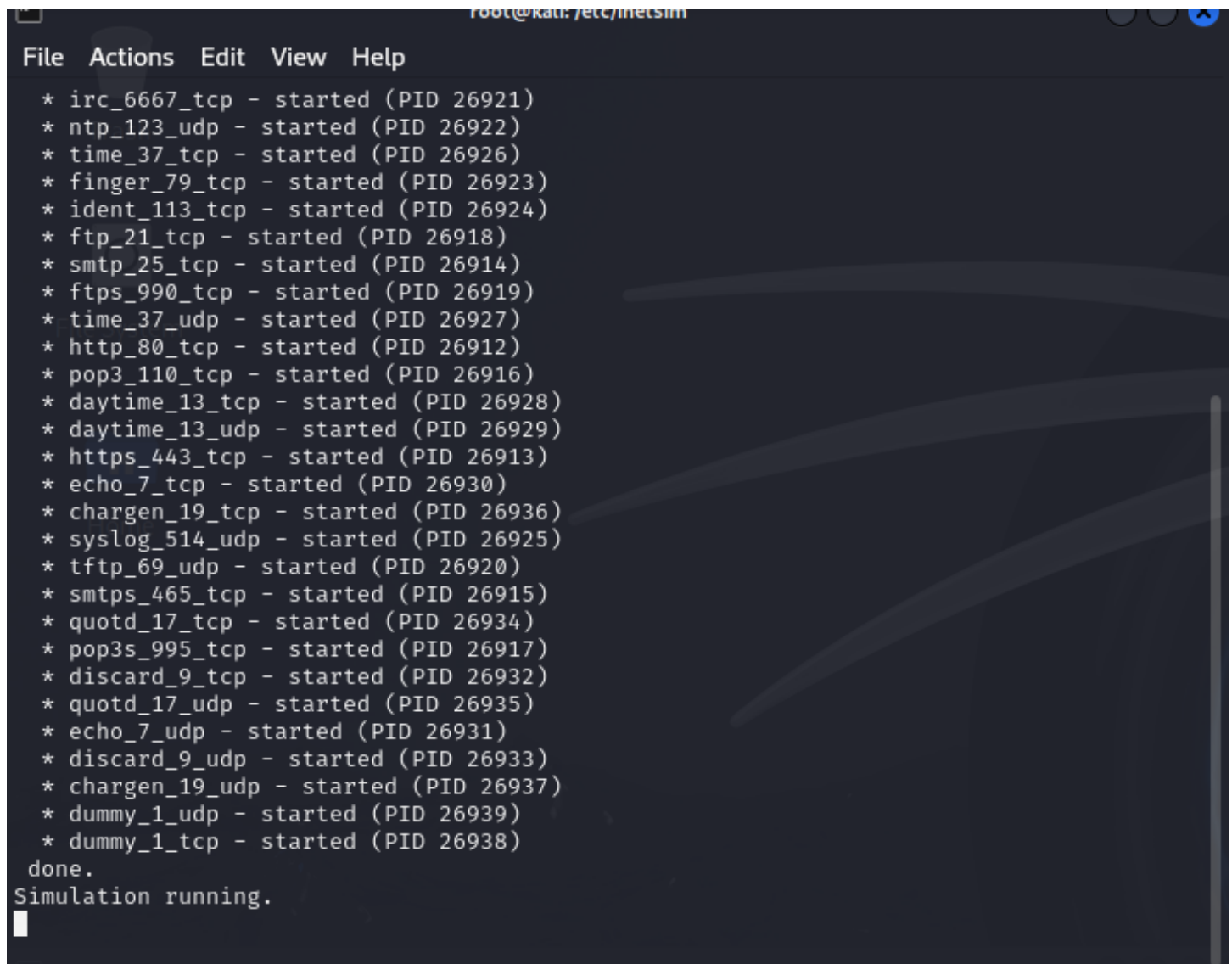
2) Utilizzo dell'utility InetSim per l'emulazione di servizi Internet

Cattura di pacchetti con Wireshark

Procedura:

Da terminale root (su -, password kali) eseguo il comando `"inetsim --bind-address=127.0.0.1"`

Da terminale root eseguo il comando `"inetsim"`



```
File  Actions  Edit  View  Help
* irc_6667_tcp - started (PID 26921)
* ntp_123_udp - started (PID 26922)
* time_37_tcp - started (PID 26926)
* finger_79_tcp - started (PID 26923)
* ident_113_tcp - started (PID 26924)
* ftp_21_tcp - started (PID 26918)
* smtp_25_tcp - started (PID 26914)
* ftps_990_tcp - started (PID 26919)
* time_37_udp - started (PID 26927)
* http_80_tcp - started (PID 26912)
* pop3_110_tcp - started (PID 26916)
* daytime_13_tcp - started (PID 26928)
* daytime_13_udp - started (PID 26929)
* https_443_tcp - started (PID 26913)
* echo_7_tcp - started (PID 26930)
* chargen_19_tcp - started (PID 26936)
* syslog_514_udp - started (PID 26925)
* tftp_69_udp - started (PID 26920)
* smtps_465_tcp - started (PID 26915)
* quotd_17_tcp - started (PID 26934)
* pop3s_995_tcp - started (PID 26917)
* discard_9_tcp - started (PID 26932)
* quotd_17_udp - started (PID 26935)
* echo_7_udp - started (PID 26931)
* discard_9_udp - started (PID 26933)
* chargen_19_udp - started (PID 26937)
* dummy_1_udp - started (PID 26939)
* dummy_1_tcp - started (PID 26938)
done.
Simulation running.
█
```

Apri Wireshark, seleziono `"Any"` e faccio partire lo sniffing

Apri Firefox e digito 127.0.0.1 mentre inetsim è in esecuzione sul terminale, vedo i movimenti di pacchetti su Wireshark, si nota il `"SYN / SYN-ACK / ACK"` tipico del Three Way Handshake e il GET HTTP.

Capturing from any

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/>

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	127.0.0.1	127.0.0.1	TCP	76	38972 → 80 [SYN] Seq=0 Win=33280 Len=0
2	0.000008579	127.0.0.1	127.0.0.1	TCP	76	80 → 38972 [SYN, ACK] Seq=0 Ack=1 Win=0 Len=0
3	0.000016379	127.0.0.1	127.0.0.1	TCP	68	38972 → 80 [ACK] Seq=1 Ack=1 Win=33280 Len=0
4	0.005176629	127.0.0.1	127.0.0.1	HTTP	499	GET / HTTP/1.1
5	0.005185839	127.0.0.1	127.0.0.1	TCP	68	80 → 38972 [ACK] Seq=1 Ack=432 Win=0 Len=0
6	0.016592462	127.0.0.1	127.0.0.1	TCP	218	80 → 38972 [PSH, ACK] Seq=1 Ack=432 Win=0 Len=0
7	0.016604252	127.0.0.1	127.0.0.1	TCP	68	38972 → 80 [ACK] Seq=432 Ack=151 Win=0 Len=0
8	0.016614081	127.0.0.1	127.0.0.1	HTTP	326	HTTP/1.1 200 OK (text/html)
9	0.016617411	127.0.0.1	127.0.0.1	TCP	68	38972 → 80 [ACK] Seq=432 Ack=409 Win=0 Len=0
10	0.016730969	127.0.0.1	127.0.0.1	TCP	68	38972 → 80 [FIN, ACK] Seq=432 Ack=409 Win=0 Len=0
11	0.018276574	127.0.0.1	127.0.0.1	TCP	68	80 → 38972 [FIN, ACK] Seq=409 Ack=432 Win=0 Len=0
12	0.018287904	127.0.0.1	127.0.0.1	TCP	68	38972 → 80 [ACK] Seq=433 Ack=410 Win=0 Len=0
13	5.028753337	192.168.50.100	192.168.50.102	ICMP	100	Echo (ping) request id=0xe477, seq=123456789
14	5.028924378	PCSSystemtec_5a:db:...	192.168.50.102	ARP	62	Who has 192.168.50.100? Tell 192.168.50.100
15	5.028931567	PCSSystemtec_79:b0:...	192.168.50.102	ARP	44	192.168.50.100 is at 08:00:27:79:b0:00
16	5.029009363	192.168.50.102	192.168.50.100	ICMP	100	Echo (ping) reply id=0xe477, seq=123456789
17	6.038801318	192.168.50.100	192.168.50.102	ICMP	100	Echo (ping) request id=0xe477, seq=123456789
18	6.038973624	192.168.50.102	192.168.50.100	ICMP	100	Echo (ping) reply id=0xe477, seq=123456789
19	7.062768081	192.168.50.100	192.168.50.102	ICMP	100	Echo (ping) request id=0xe477, seq=123456789
20	7.062924314	192.168.50.102	192.168.50.100	ICMP	100	Echo (ping) reply id=0xe477, seq=123456789

INetSim default HTML page

127.0.0.1

Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec

This is the default HTML page for INetSim HTTP server fake mode.

This file is an HTML document.

Per ulteriore prova del funzionamento di Wireshark, pingo la mia WM con Windows7 e noto lo sniffing dei pacchetti di ping (ICMP) in entrata ed uscita

FileActionsEditViewHelp

20 packets transmitted, 20 received, 0% packet loss, time 19459ms
rtt min/avg/max/mdev = 0.150/0.185/0.270/0.030 ms

(kali@kali)-[~]

\$ ping 192.168.50.102

PING 192.168.50.102 (192.168.50.102) 56(84) bytes of data.
64 bytes from 192.168.50.102: icmp_seq=1 ttl=128 time=0.267 ms
64 bytes from 192.168.50.102: icmp_seq=2 ttl=128 time=0.189 ms
64 bytes from 192.168.50.102: icmp_seq=3 ttl=128 time=0.171 ms
64 bytes from 192.168.50.102: icmp_seq=4 ttl=128 time=0.180 ms
64 bytes from 192.168.50.102: icmp_seq=5 ttl=128 time=0.164 ms
^C
— 192.168.50.102 ping statistics —
5 packets transmitted, 5 received, 0% packet loss, time 4083ms
rtt min/avg/max/mdev = 0.164/0.194/0.267/0.037 ms

(kali@kali)-[~]

\$

13	5.028753337	192.168.50.100	192.168.50.102	ICMP	100	Echo (ping) request	id=0xe477, seq=1
14	5.028924378	PCSSystemtec_5a:db:...		ARP	62	Who has 192.168.50.100? Tell 192.168.50.100	
15	5.028931567	PCSSystemtec_79:b0:...		ARP	44	192.168.50.100 is at 08:00:27:79:b0:00	
16	5.029009363	192.168.50.102	192.168.50.100	ICMP	100	Echo (ping) reply	id=0xe477, seq=1
17	6.038801318	192.168.50.100	192.168.50.102	ICMP	100	Echo (ping) request	id=0xe477, seq=2
18	6.038973624	192.168.50.102	192.168.50.100	ICMP	100	Echo (ping) reply	id=0xe477, seq=2
19	7.062768081	192.168.50.100	192.168.50.102	ICMP	100	Echo (ping) request	id=0xe477, seq=3
20	7.062924314	192.168.50.102	192.168.50.100	ICMP	100	Echo (ping) reply	id=0xe477, seq=3

13	5.028753337	192.168.50.100	192.168.50.102	ICMP	100	Echo (ping) request	id=0xe477, seq=1
14	5.028924378	PCSSystemtec_5a:db:...		ARP	62	Who has 192.168.50.100? Tell 192.168.50.100	
15	5.028931567	PCSSystemtec_79:b0:...		ARP	44	192.168.50.100 is at 08:00:27:79:b0:00	
16	5.029009363	192.168.50.102	192.168.50.100	ICMP	100	Echo (ping) reply	id=0xe477, seq=1
17	6.038801318	192.168.50.100	192.168.50.102	ICMP	100	Echo (ping) request	id=0xe477, seq=2
18	6.038973624	192.168.50.102	192.168.50.100	ICMP	100	Echo (ping) reply	id=0xe477, seq=2
19	7.062768081	192.168.50.100	192.168.50.102	ICMP	100	Echo (ping) request	id=0xe477, seq=3
20	7.062924314	192.168.50.102	192.168.50.100	ICMP	100	Echo (ping) reply	id=0xe477, seq=3