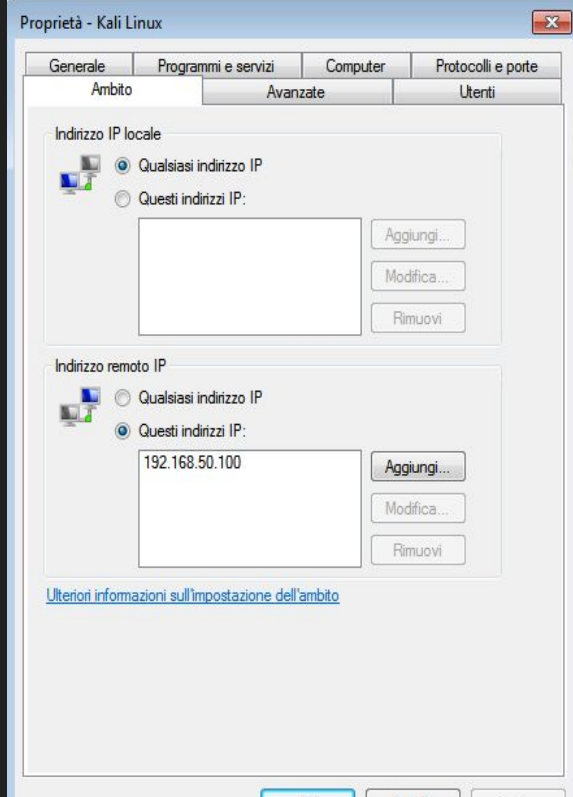
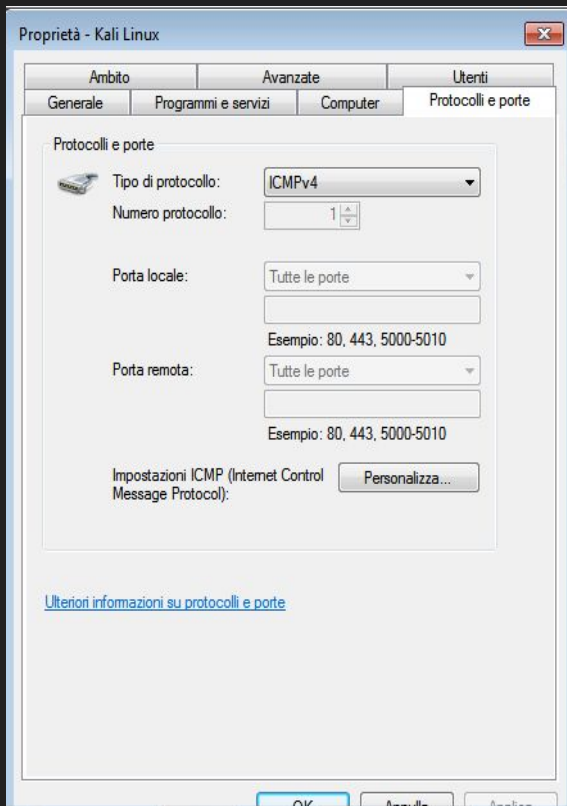
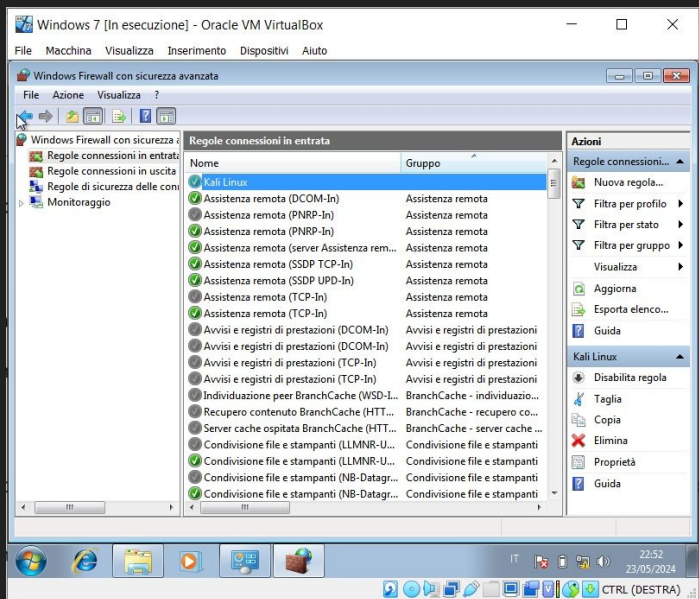


W3D4 - Pratica

Configurazione regola Windows Firewall
Utilizzo InetSim
Cattura pacchetti con Wireshark

Configurazione policy firewall - allow ping da Kali



Configurazione policy firewall - allow ping da Kali

```
#Version: 1.5
#Software: Microsoft Windows Firewall
#Time Format: Local
#Fields: date time action protocol src-ip dst-ip src-port dst-port size tcpflags tcpsyn tcppack tc

2024-05-25 15:42:26 ALLOW ICMP 192.168.50.100 192.168.50.102 - - 0 - - - 8 0 - RECEIVE
2024-05-25 15:42:27 DROP ICMP 192.168.50.101 192.168.50.102 - - 84 - - - 8 0 - RECEIVE
2024-05-25 15:42:27 ALLOW ICMP 192.168.50.100 192.168.50.102 - - 0 - - - 8 0 - RECEIVE
2024-05-25 15:42:28 DROP ICMP 192.168.50.101 192.168.50.102 - - 84 - - - 8 0 - RECEIVE
2024-05-25 15:42:28 ALLOW ICMP 192.168.50.100 192.168.50.102 - - 0 - - - 8 0 - RECEIVE
2024-05-25 15:42:29 DROP ICMP 192.168.50.101 192.168.50.102 - - 84 - - - 8 0 - RECEIVE
2024-05-25 15:42:29 ALLOW ICMP 192.168.50.100 192.168.50.102 - - 0 - - - 8 0 - RECEIVE
2024-05-25 15:42:30 DROP ICMP 192.168.50.101 192.168.50.102 - - 84 - - - 8 0 - RECEIVE
2024-05-25 15:42:30 ALLOW ICMP 192.168.50.100 192.168.50.102 - - 0 - - - 8 0 - RECEIVE
2024-05-25 15:42:31 DROP ICMP 192.168.50.101 192.168.50.102 - - 84 - - - 8 0 - RECEIVE
2024-05-25 15:42:31 ALLOW ICMP 192.168.50.100 192.168.50.102 - - 0 - - - 8 0 - RECEIVE
2024-05-25 15:42:32 DROP ICMP 192.168.50.101 192.168.50.102 - - 84 - - - 8 0 - RECEIVE
2024-05-25 15:42:32 ALLOW ICMP 192.168.50.100 192.168.50.102 - - 0 - - - 8 0 - RECEIVE
2024-05-25 15:42:33 DROP ICMP 192.168.50.101 192.168.50.102 - - 84 - - - 8 0 - RECEIVE
2024-05-25 15:42:33 ALLOW ICMP 192.168.50.100 192.168.50.102 - - 0 - - - 8 0 - RECEIVE
2024-05-25 15:42:34 DROP ICMP 192.168.50.101 192.168.50.102 - - 84 - - - 8 0 - RECEIVE
2024-05-25 15:42:34 ALLOW ICMP 192.168.50.100 192.168.50.102 - - 0 - - - 8 0 - RECEIVE
2024-05-25 15:42:35 DROP ICMP 192.168.50.101 192.168.50.102 - - 84 - - - 8 0 - RECEIVE
2024-05-25 15:42:35 ALLOW ICMP 192.168.50.100 192.168.50.102 - - 0 - - - 8 0 - RECEIVE
2024-05-25 15:42:36 DROP ICMP 192.168.50.101 192.168.50.102 - - 84 - - - 8 0 - RECEIVE
2024-05-25 15:42:36 ALLOW ICMP 192.168.50.100 192.168.50.102 - - 0 - - - 8 0 - RECEIVE
2024-05-25 15:42:37 DROP ICMP 192.168.50.101 192.168.50.102 - - 84 - - - 8 0 - RECEIVE
2024-05-25 15:42:37 ALLOW ICMP 192.168.50.100 192.168.50.102 - - 0 - - - 8 0 - RECEIVE
2024-05-25 15:42:38 DROP ICMP 192.168.50.101 192.168.50.102 - - 84 - - - 8 0 - RECEIVE
2024-05-25 15:42:38 ALLOW ICMP 192.168.50.100 192.168.50.102 - - 0 - - - 8 0 - RECEIVE
2024-05-25 15:42:39 DROP ICMP 192.168.50.101 192.168.50.102 - - 84 - - - 8 0 - RECEIVE
2024-05-25 15:42:39 ALLOW ICMP 192.168.50.100 192.168.50.102 - - 0 - - - 8 0 - RECEIVE
2024-05-25 15:42:40 DROP ICMP 192.168.50.101 192.168.50.102 - - 84 - - - 8 0 - RECEIVE
2024-05-25 15:42:40 ALLOW ICMP 192.168.50.100 192.168.50.102 - - 0 - - - 8 0 - RECEIVE
2024-05-25 15:42:41 DROP ICMP 192.168.50.101 192.168.50.102 - - 84 - - - 8 0 - RECEIVE
2024-05-25 15:42:41 ALLOW ICMP 192.168.50.100 192.168.50.102 - - 0 - - - 8 0 - RECEIVE
2024-05-25 15:42:42 DROP ICMP 192.168.50.101 192.168.50.102 - - 84 - - - 8 0 - RECEIVE
```

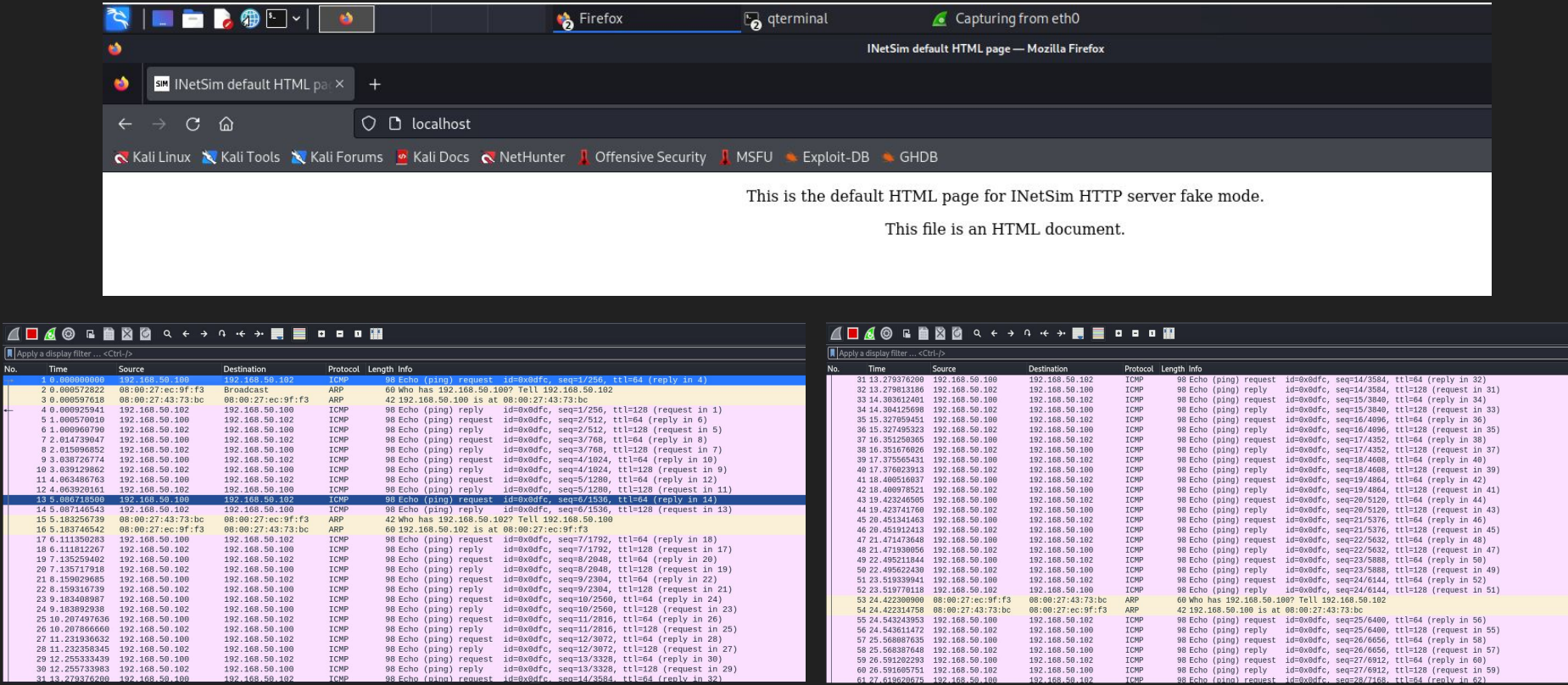
```
File Actions Edit View Help
(kali@kali)~$
$ ping 192.168.50.102
PING 192.168.50.102 (192.168.50.102) 56(84) bytes of data:
64 bytes from 192.168.50.102: icmp_seq=1 ttl=128 time=0.769 ms
64 bytes from 192.168.50.102: icmp_seq=2 ttl=128 time=0.451 ms
64 bytes from 192.168.50.102: icmp_seq=3 ttl=128 time=0.525 ms
64 bytes from 192.168.50.102: icmp_seq=4 ttl=128 time=0.573 ms
64 bytes from 192.168.50.102: icmp_seq=5 ttl=128 time=0.550 ms
64 bytes from 192.168.50.102: icmp_seq=6 ttl=128 time=0.371 ms
64 bytes from 192.168.50.102: icmp_seq=7 ttl=128 time=0.468 ms
64 bytes from 192.168.50.102: icmp_seq=8 ttl=128 time=0.533 ms
64 bytes from 192.168.50.102: icmp_seq=9 ttl=128 time=0.511 ms
64 bytes from 192.168.50.102: icmp_seq=10 ttl=128 time=0.419 ms
64 bytes from 192.168.50.102: icmp_seq=11 ttl=128 time=0.413 ms
64 bytes from 192.168.50.102: icmp_seq=12 ttl=128 time=0.537 ms
64 bytes from 192.168.50.102: icmp_seq=13 ttl=128 time=0.484 ms
64 bytes from 192.168.50.102: icmp_seq=14 ttl=128 time=0.433 ms
64 bytes from 192.168.50.102: icmp_seq=15 ttl=128 time=0.490 ms
64 bytes from 192.168.50.102: icmp_seq=16 ttl=128 time=0.499 ms
64 bytes from 192.168.50.102: icmp_seq=17 ttl=128 time=0.320 ms
64 bytes from 192.168.50.102: icmp_seq=18 ttl=128 time=0.332 ms
64 bytes from 192.168.50.102: icmp_seq=19 ttl=128 time=0.344 ms
64 bytes from 192.168.50.102: icmp_seq=20 ttl=128 time=0.436 ms
64 bytes from 192.168.50.102: icmp_seq=21 ttl=128 time=0.593 ms
64 bytes from 192.168.50.102: icmp_seq=22 ttl=128 time=0.395 ms
64 bytes from 192.168.50.102: icmp_seq=23 ttl=128 time=0.488 ms
64 bytes from 192.168.50.102: icmp_seq=24 ttl=128 time=0.461 ms
64 bytes from 192.168.50.102: icmp_seq=25 ttl=128 time=0.440 ms
64 bytes from 192.168.50.102: icmp_seq=26 ttl=128 time=0.504 ms
64 bytes from 192.168.50.102: icmp_seq=27 ttl=128 time=0.436 ms
64 bytes from 192.168.50.102: icmp_seq=28 ttl=128 time=0.459 ms
64 bytes from 192.168.50.102: icmp_seq=29 ttl=128 time=0.413 ms
64 bytes from 192.168.50.102: icmp_seq=30 ttl=128 time=0.506 ms
64 bytes from 192.168.50.102: icmp_seq=31 ttl=128 time=0.592 ms
64 bytes from 192.168.50.102: icmp_seq=32 ttl=128 time=1.05 ms
64 bytes from 192.168.50.102: icmp_seq=33 ttl=128 time=1.24 ms
64 bytes from 192.168.50.102: icmp_seq=34 ttl=128 time=0.768 ms
64 bytes from 192.168.50.102: icmp_seq=35 ttl=128 time=0.502 ms
64 bytes from 192.168.50.102: icmp_seq=36 ttl=128 time=0.464 ms
64 bytes from 192.168.50.102: icmp_seq=37 ttl=128 time=0.547 ms
64 bytes from 192.168.50.102: icmp_seq=38 ttl=128 time=0.473 ms
64 bytes from 192.168.50.102: icmp_seq=39 ttl=128 time=0.595 ms
64 bytes from 192.168.50.102: icmp_seq=40 ttl=128 time=0.528 ms
64 bytes from 192.168.50.102: icmp_seq=41 ttl=128 time=0.482 ms
64 bytes from 192.168.50.102: icmp_seq=42 ttl=128 time=0.496 ms
64 bytes from 192.168.50.102: icmp_seq=43 ttl=128 time=0.505 ms
64 bytes from 192.168.50.102: icmp_seq=44 ttl=128 time=0.641 ms
64 bytes from 192.168.50.102: icmp_seq=45 ttl=128 time=0.550 ms
64 bytes from 192.168.50.102: icmp_seq=46 ttl=128 time=0.553 ms
64 bytes from 192.168.50.102: icmp_seq=47 ttl=128 time=0.543 ms
64 bytes from 192.168.50.102: icmp_seq=48 ttl=128 time=0.619 ms
64 bytes from 192.168.50.102: icmp_seq=49 ttl=128 time=0.997 ms
64 bytes from 192.168.50.102: icmp_seq=50 ttl=128 time=0.304 ms
```

Utilizzo InetSim

```
(kali@kali)-[~]
$ sudo inetSim
InetSim 1.3.2 (2020-05-19) by Matthias Eckert & Thomas Hungenberg
Using log directory: /var/log/inetSim/
Using data directory: /var/lib/inetSim/
Using report directory: /var/log/inetSim/report/
Using configuration file: /etc/inetSim/inetSim.conf
Parsing configuration file.
Configuration file parsed successfully.
== InetSim main process started (PID 2583) ==
Session ID: 2583
Listening on: 127.0.0.1
Real Date/Time: 2024-05-24 13:26:48
Fake Date/Time: 2024-05-24 13:26:48 (Delta: 0 seconds)
Forking services ...
* dns_53_tcp_udp - started (PID 2585)
deprecated method; prefer start_server() at /usr/share/perl5/InetSim/DNS.pm line 69.
Attempt to start Net::DNS::Nameserver in a subprocess at /usr/share/perl5/InetSim/DNS.pm line 69.
* irc_6667_tcp - started (PID 2595)
* ntp_123_udp - started (PID 2596)
* finger_79_tcp - started (PID 2597)
* ident_113_tcp - started (PID 2598)
* echo_7_tcp - started (PID 2604)
* echo_7_udp - started (PID 2605)
* discard_9_udp - started (PID 2607)
* time_37_udp - started (PID 2601)
* daytime_13_udp - started (PID 2603)
* smtp_25_tcp - started (PID 2588)
* pop3s_995_tcp - started (PID 2501)
* daytime_13_tcp - started (PID 2602)
* time_37_tcp - started (PID 2600)
* syslog_514_udp - started (PID 2590)
* dummy_1_udp - started (PID 2613)
* tftp_69_udp - started (PID 2594)
* chargen_19_tcp - started (PID 2610)
* quotd_17_udp - started (PID 2609)
* discard_9_tcp - started (PID 2606)
* https_443_tcp - started (PID 2587)
* pop3_110_tcp - started (PID 2590)
* smtps_465_tcp - started (PID 2589)
* chargen_19_udp - started (PID 2611)
* quotd_17_tcp - started (PID 2608)
* dummy_1_tcp - started (PID 2612)
* ftp_21_tcp - started (PID 2592)
* ftps_990_tcp - started (PID 2593)
* http_80_tcp - started (PID 2586)
done.
Simulation running.
```

```
(kali@kali)-[~]
$ sudo inetSim --bind-address 192.168.50.100
[sudo] password for kali:
InetSim 1.3.2 (2020-05-19) by Matthias Eckert & Thomas Hungenberg
Using log directory: /var/log/inetSim/
Using data directory: /var/lib/inetSim/
Using report directory: /var/log/inetSim/report/
Using configuration file: /etc/inetSim/inetSim.conf
Parsing configuration file.
Configuration file parsed successfully.
== InetSim main process started (PID 3183) ==
Session ID: 3183
Listening on: 192.168.50.100
Real Date/Time: 2024-05-24 13:54:19
Fake Date/Time: 2024-05-24 13:54:19 (Delta: 0 seconds)
Forking services ...
* dns_53_tcp_udp - started (PID 3185)
deprecated method; prefer start_server() at /usr/share/perl5/InetSim/DNS.pm line 69.
Attempt to start Net::DNS::Nameserver in a subprocess at /usr/share/perl5/InetSim/DNS.pm line 69.
* irc_6667_tcp - started (PID 3195)
* ident_113_tcp - started (PID 3198)
* finger_79_tcp - started (PID 3197)
* discard_9_udp - started (PID 3207)
* time_37_udp - started (PID 3200)
* echo_7_tcp - started (PID 3204)
* ntp_123_udp - started (PID 3196)
* time_37_udp - started (PID 3201)
* echo_7_udp - started (PID 3205)
* discard_9_tcp - started (PID 3206)
* chargen_19_udp - started (PID 3211)
* syslog_514_tcp - started (PID 3199)
* ftp_21_tcp - started (PID 3192)
* daytime_13_tcp - started (PID 3202)
* smtps_465_tcp - started (PID 3189)
* tftp_69_udp - started (PID 3194)
* http_80_tcp - started (PID 3186)
* dummy_1_tcp - started (PID 3212)
* smtp_25_tcp - started (PID 3188)
* daytime_13_udp - started (PID 3203)
* https_443_tcp - started (PID 3187)
* pop3_110_tcp - started (PID 3190)
* dummy_1_udp - started (PID 3213)
* chargen_19_tcp - started (PID 3210)
* quotd_17_udp - started (PID 3209)
* ftps_990_tcp - started (PID 3193)
* quotd_17_tcp - started (PID 3208)
* pop3s_995_tcp - started (PID 3191)
done.
Simulation running.
```


Utilizzo InetSim e cattura pacchetti con Wireshark



The screenshot displays a Kali Linux desktop environment. In the background, a Firefox browser window shows the InetSim default HTML page, which is a list of network events. In the foreground, Wireshark is running, capturing network traffic from the InetSim server. The Wireshark interface shows a list of captured packets, with the first packet being an ARP request from 192.168.50.100 to 192.168.50.102.

InetSim default HTML page — Mozilla Firefox

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

This file is an HTML document.

Wireshark Network Traffic Capture

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	192.168.50.100	192.168.50.102	ICMP	98	Echo (ping) request id=0x0dfc, seq=1/250, ttl=64 (reply in 4)
2	0.000572822	08:00:27:ec:9f:f3	Broadcast	ARP	60	Who has 192.168.50.100? Tell 192.168.50.102
3	0.00057618	08:00:27:43:73:bc	08:00:27:ec:9f:f3	ARP	42	192.168.50.100 is at 08:00:27:43:73:bc
4	0.000925941	192.168.50.102	192.168.50.100	ICMP	98	Echo (ping) reply id=0x0dfc, seq=1/250, ttl=128 (request in 1)
5	1.000570010	192.168.50.100	192.168.50.102	ICMP	98	Echo (ping) request id=0x0dfc, seq=2/512, ttl=64 (reply in 6)
6	1.000960790	192.168.50.102	192.168.50.100	ICMP	98	Echo (ping) reply id=0x0dfc, seq=2/512, ttl=128 (request in 5)
7	2.014739047	192.168.50.100	192.168.50.102	ICMP	98	Echo (ping) request id=0x0dfc, seq=3/768, ttl=64 (reply in 8)
8	2.015996852	192.168.50.102	192.168.50.100	ICMP	98	Echo (ping) reply id=0x0dfc, seq=3/768, ttl=128 (request in 7)
9	3.038726774	192.168.50.100	192.168.50.102	ICMP	98	Echo (ping) request id=0x0dfc, seq=4/1024, ttl=64 (reply in 10)
10	3.039129602	192.168.50.102	192.168.50.100	ICMP	98	Echo (ping) reply id=0x0dfc, seq=4/1024, ttl=128 (request in 9)
11	4.063486763	192.168.50.100	192.168.50.102	ICMP	98	Echo (ping) request id=0x0dfc, seq=5/1280, ttl=64 (reply in 12)
12	4.063920161	192.168.50.102	192.168.50.100	ICMP	98	Echo (ping) reply id=0x0dfc, seq=5/1280, ttl=128 (request in 11)
13	5.080710500	192.168.50.100	192.168.50.102	ICMP	98	Echo (ping) request id=0x0dfc, seq=6/1536, ttl=64 (reply in 14)
14	5.087145543	192.168.50.102	192.168.50.100	ICMP	98	Echo (ping) reply id=0x0dfc, seq=6/1536, ttl=128 (request in 13)
15	5.183256730	08:00:27:43:73:bc	08:00:27:ec:9f:f3	ARP	42	Who has 192.168.50.102? Tell 192.168.50.100
16	5.183746542	08:00:27:ec:9f:f3	08:00:27:43:73:bc	ARP	60	192.168.50.102 is at 08:00:27:ec:9f:f3
17	6.111359283	192.168.50.100	192.168.50.102	ICMP	98	Echo (ping) request id=0x0dfc, seq=7/1792, ttl=64 (reply in 18)
18	6.111812207	192.168.50.102	192.168.50.100	ICMP	98	Echo (ping) reply id=0x0dfc, seq=7/1792, ttl=128 (request in 17)
19	7.135259402	192.168.50.100	192.168.50.102	ICMP	98	Echo (ping) request id=0x0dfc, seq=8/2048, ttl=64 (reply in 20)
20	7.135717918	192.168.50.102	192.168.50.100	ICMP	98	Echo (ping) reply id=0x0dfc, seq=8/2048, ttl=128 (request in 19)
21	8.159029603	192.168.50.100	192.168.50.102	ICMP	98	Echo (ping) request id=0x0dfc, seq=9/2304, ttl=64 (reply in 22)
22	8.159316719	192.168.50.102	192.168.50.100	ICMP	98	Echo (ping) reply id=0x0dfc, seq=9/2304, ttl=128 (request in 21)
23	9.183408987	192.168.50.100	192.168.50.102	ICMP	98	Echo (ping) request id=0x0dfc, seq=10/2560, ttl=64 (reply in 24)
24	9.183892938	192.168.50.102	192.168.50.100	ICMP	98	Echo (ping) reply id=0x0dfc, seq=10/2560, ttl=128 (request in 23)
25	10.207497636	192.168.50.100	192.168.50.102	ICMP	98	Echo (ping) request id=0x0dfc, seq=11/2816, ttl=64 (reply in 26)
26	10.207866660	192.168.50.102	192.168.50.100	ICMP	98	Echo (ping) reply id=0x0dfc, seq=11/2816, ttl=128 (request in 25)
27	11.231936632	192.168.50.100	192.168.50.102	ICMP	98	Echo (ping) request id=0x0dfc, seq=12/3072, ttl=64 (reply in 28)
28	11.232358345	192.168.50.102	192.168.50.100	ICMP	98	Echo (ping) reply id=0x0dfc, seq=12/3072, ttl=128 (request in 27)
29	12.255333439	192.168.50.100	192.168.50.102	ICMP	98	Echo (ping) request id=0x0dfc, seq=13/3328, ttl=64 (reply in 30)
30	12.255733983	192.168.50.102	192.168.50.100	ICMP	98	Echo (ping) reply id=0x0dfc, seq=13/3328, ttl=128 (request in 29)
31	13.279376280	192.168.50.100	192.168.50.102	ICMP	98	Echo (ping) request id=0x0dfc, seq=14/3584, ttl=64 (reply in 32)

Wireshark Packet Details

Packet 1: ARP, Ethernet II, Internet Protocol Version 4, ARP Request

Packet 2: ARP, Ethernet II, Internet Protocol Version 4, ARP Reply

Packet 3: ICMP, Echo (ping) request

Packet 4: ICMP, Echo (ping) reply

InetSim da Windows 7

