Opcje ping:

-c - liczba wysłanych pakietow

-t - ustawianie TTL

-s - ustawianie rozmiaru pakietu

-p - pozwala przeslac podany wzorzec w systemie szesnastkowym

-M do – blokuje fragmentacje pakietow

WIFI lokalne - 192.168.1.1

Olawa - 84.38.214.38

Wro – uwr.edu.pl (pwr.edu.pl nie chcialo odpowiadac)

Nuremberg – telefonica.de

Stratford(California) – stratford.org

Australia - hermannsburg.com.au

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Adres | Avg time | Jumps to | Jumps from | Avg time per jump | Avg time with load | Avg time per jump with load |
| 192.168.1.1 | 8,59 | 1?(0) | 1?(0) | 8,59 | 9,57 | 9,57 |
| 84.38.214.38 | 31,73 | 8 | 7 | 2,11 | 40,63 | 2,70 |
| uwr.edu.pl | 31.47 | 16 | 14 | 1,05 | 37,47 | 1,25 |
| telefonica.de | 30,33 | 8 | 12 | 1,51 | 33,27 | 1,66 |
| stratford.org | 25,81 | 8 | 8 | 1,61 | 29,25 | 1,84 |
| hermannsburg.com.au | 391,66 | 23 | 18 | 9,54 | 459,98 | 11,22 |

Nie udalo sie wyslac pakietow bez fragmentacji. Za kadzym razem wyskakiwal komunikat “Message too long”

Domyslny pakiet:

traceroute to 8.8.8.8 (8.8.8.8), 30 hops max, 60 byte packets

1 \_gateway (192.168.1.1) 9.632 ms 9.585 ms 9.576 ms

2 \* \* \*

3 157.25.255.236 (157.25.255.236) 19.035 ms 19.026 ms 19.018 ms

4 142.250.172.174 (142.250.172.174) 17.622 ms 17.601 ms 19.065 ms

5 192.178.96.241 (192.178.96.241) 19.059 ms 216.239.58.135 (216.239.58.135) 19.659 ms 64.233.174.229 (64.233.174.229) 18.651 ms

6 74.125.251.103 (74.125.251.103) 19.746 ms 142.250.238.3 (142.250.238.3) 12.137 ms 108.170.234.247 (108.170.234.247) 12.124 ms

7 dns.google (8.8.8.8) 12.171 ms 10.899 ms 11.820 ms

Duzy pakiet (10000 bajtow)

traceroute to 8.8.8.8 (8.8.8.8), 30 hops max, 10000 byte packets

1 \_gateway (192.168.1.1) 19.133 ms 18.989 ms 22.354 ms

2 \* \* \*

3 157.25.255.236 (157.25.255.236) 51.598 ms 53.919 ms 53.895 ms

4 142.250.172.174 (142.250.172.174) 55.969 ms 57.227 ms 59.201 ms

5 216.239.58.135 (216.239.58.135) 60.667 ms 60.650 ms 63.412 ms

6 \* 142.250.224.91 (142.250.224.91) 43.494 ms \*

7 dns.google (8.8.8.8) 41.237 ms 12.606 ms 12.701 ms

Jak widac duzy pakiet jest przesylany dluzej

Pakiet z wireshark:

157 29.143661728 192.168.1.208 192.168.1.1 ICMP 98 Echo (ping) request id=0x0061, seq=1/256, ttl=64 (reply in 158)

0000 9c 24 72 6f dd 6f 90 65 84 7c 56 c3 08 00 45 00 .$ro.o.e.|V...E.

0010 00 54 ab 68 40 00 40 01 0b 1f c0 a8 01 d0 c0 a8 .T.h@.@.........

0020 01 01 08 00 11 d4 00 61 00 01 e6 d0 d5 67 00 00 .......a.....g..

0030 00 00 4b 64 0a 00 00 00 00 00 6a 65 73 74 20 74 ..Kd......jest t

0040 65 73 74 0a 54 6f 20 6a 65 73 74 20 74 65 73 74 est.To jest test

0050 0a 54 6f 20 6a 65 73 74 20 74 65 73 74 0a 54 6f .To jest test.To

0060 20 6a j