

HW9

1

Wireshark packet capture showing ICMP Echo (ping) requests and replies. The interface is 'Ethernet' and the filter is 'icmp'. The packet list shows frames 65 to 249. The packet details pane shows frame 66: Ethernet II, Internet Protocol Version 4, and Internet Control Message Protocol. The packet bytes pane shows the raw data of the ICMP Echo request.

No.	Time	Source	Destination	Protocol	Length	Info
65	5.104901	192.168.1.63	192.168.1.1	ICMP	160	Destination unreachable (Port unreachable)
66	5.110611	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1221
71	5.385268	106.15.39.150	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=1221
84	6.118677	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1222
166	10.929873	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1223
167	11.198240	106.15.39.150	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=1223
206	11.936471	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1224
208	12.209725	106.15.39.150	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=1224
216	12.945225	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1225
218	13.218396	106.15.39.150	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=1225
230	13.954013	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1226
233	14.227320	106.15.39.150	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=1226
241	14.960903	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1227
243	15.234758	106.15.39.150	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=1227
247	15.967509	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1228
249	16.241885	106.15.39.150	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=1228

Frame 66: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface \Device\NPF_{45939136-950B-4A86-B5D2-5B48}

Ethernet II, Src: HewlettP_0e:f2:25 (84:a9:3e:0e:f2:25), Dst: Keenetic_1e:95:c8 (50:ff:20:1e:95:c8)

Internet Protocol Version 4, Src: 192.168.1.63, Dst: 106.15.39.150

Internet Control Message Protocol

0000 50 ff 20 1e 95 c8 84 a9 3e 0e f2 25 08 00 45 00 P. >..%..E.
 0010 00 3c c2 da 00 00 40 01 00 00 c0 a8 01 3f 6a 0f .<...@.?j.
 0020 27 96 08 00 48 96 00 01 04 c5 61 62 63 64 65 66 '.~H... ..abcdef
 0030 67 68 69 6a 6b 6c 6d 6e 6f 70 71 72 73 74 75 76 ghijklmn opqrstuv
 0040 77 61 62 63 64 65 66 67 68 69 wabcdefg hi

wireshark_EthernetDFMIM1.pcapng | Пакеты: 294 · Показаны: 20 (6.8%) · Потеряно: 0 (0.0%) | Профиль: Default

1) Мой IP 192.168.1.63

Адрес назначения 106.15.39.150

2) Так как ICMP - сетевой уровень, а порты на транспортном

Ethernet II, Src: HewlettP_0e:f2:25 (84:a9:3e:0e:f2:25), Dst: Keenetic_1e:95:c8 (50:ff:20:1e:95:c8)

Internet Protocol Version 4, Src: 192.168.1.63, Dst: 106.15.39.150

Internet Control Message Protocol

Type: 8 (Echo (ping) request)

Code: 0

Checksum: 0x4896 [correct]

[Checksum Status: Good]

Identifier (BE): 1 (0x0001)

Identifier (LE): 256 (0x0100)

Sequence Number (BE): 1221 (0x04c5)

Sequence Number (LE): 50436 (0xc504)

[Response frame: 71]

Data (32 bytes)

3) Type: 8 (Echo (ping) request)

Code: 0

Checksum: 0x4896 [correct]

Identifier (BE): 1 (0x0001)

Identifier (LE): 256 (0x0100)

Sequence Number (BE): 1221 (0x04c5)

Sequence Number (LE): 50436 (0xc504)

Поля по 2 байта

The screenshot displays the Wireshark network protocol analyzer interface. The top menu bar includes File, Edit, View, Capture, Analyze, Statistics, Telephony, Wireless, Instruments, and Help. The toolbar contains icons for various functions like opening files, saving, and zooming. The packet list pane shows a series of ICMP Echo (ping) requests and replies. The selected packet, number 71, is an ICMP Echo (ping) reply from 106.15.39.150 to 192.168.1.63. The packet details pane provides a hierarchical view of the packet structure, showing the Ethernet II header, Internet Protocol Version 4 header, and the Internet Control Message Protocol (ICMP) header. The ICMP header fields are expanded, showing the Type (0), Code (0), Checksum (0x5096), Identifier (1), and Sequence Number (1221). The packet bytes pane at the bottom shows the raw data in hexadecimal and ASCII format.

No.	Time	Source	Destination	Protocol	Length	Info
65	5.104901	192.168.1.63	192.168.1.1	ICMP	160	Destination unreachable (Port unreachable)
66	5.110611	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1221
71	5.385268	106.15.39.150	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=1221
84	6.118677	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1221
166	10.929873	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1221
167	11.198240	106.15.39.150	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=1221
206	11.936471	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1221
208	12.209725	106.15.39.150	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=1221
216	12.945225	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1221
218	13.218396	106.15.39.150	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=1221
230	13.954013	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1221
233	14.227320	106.15.39.150	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=1221
241	14.960903	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1221
243	15.234758	106.15.39.150	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=1221
247	15.967509	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1221
249	16.241885	106.15.39.150	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=1221
256	16.976521	192.168.1.63	106.15.39.150	ICMP	74	Echo (ping) request id=0x0001, seq=1221

Ethernet II, Src: Keenetic_1e:95:c8 (50:ff:20:1e:95:c8), Dst: HewlettP_0e:f2:25 (84:a9:3e:0e:f2:25)

Internet Protocol Version 4, Src: 106.15.39.150, Dst: 192.168.1.63

Internet Control Message Protocol

Type: 0 (Echo (ping) reply)

Code: 0

Checksum: 0x5096 [correct]

[Checksum Status: Good]

Identifier (BE): 1 (0x0001)

Identifier (LE): 256 (0x0100)

Sequence Number (BE): 1221 (0x04c5)

Sequence Number (LE): 50436 (0xc504)

[Request frame: 66]

[Response time: 274,657 ms]

Data (32 bytes)

0020	01 3f 00 00 50 96 00 01 04 c5 61 62 63 64 65 66	..P... ..abcdef
0030	67 68 69 6a 6b 6c 6d 6e 6f 70 71 72 73 74 75 76	ghijklmn opqrstuv
0040	77 61 62 63 64 65 66 67 68 69	wabcdefg hi

Type (icmp.type), 1 byte(s)

Пакеты: 294 · Показаны: 20 (6.8%) · Потеряно: 0 (0.0%) · Профиль: Default

4) Type: 0 (Echo (ping) reply)

Code: 0

Checksum: 0x5096 [correct]

Identifier (BE): 1 (0x0001)

Identifier (LE): 256 (0x0100)

Sequence Number (BE): 1221 (0x04c5)

Sequence Number (LE): 50436 (0xc504)

Поля по 2 байта

Ethernet

Файл Редактирование Просмотр Запуск Захват Анализ Статистика Телефония Беспроводной Инструменты Помощь

icmp

No.	Time	Source	Destination	Protocol	Length	Info
5596	235.715606	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2139/23304, ttl=19 (no response found!)
5669	239.713548	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2140/23560, ttl=19 (no response found!)
5723	243.720507	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2141/23816, ttl=20 (no response found!)
5756	247.722253	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2142/24072, ttl=20 (no response found!)
5844	251.712109	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2143/24328, ttl=20 (no response found!)
5883	255.724312	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2144/24584, ttl=21 (no response found!)
5947	259.707970	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2145/24840, ttl=21 (no response found!)
6025	263.714637	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2146/25096, ttl=21 (no response found!)
6083	267.720742	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2147/25352, ttl=22 (no response found!)
6165	271.712935	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2148/25608, ttl=22 (no response found!)
6217	275.722006	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2149/25864, ttl=22 (no response found!)
6250	279.714138	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2150/26120, ttl=23 (reply in 6251)
6251	279.720364	64.233.165.139	192.168.1.63	ICMP	106	Echo (ping) reply id=0x0001, seq=2150/26120, ttl=106 (request in 6250)
6252	279.721847	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2151/26376, ttl=23 (reply in 6253)
6253	279.727944	64.233.165.139	192.168.1.63	ICMP	106	Echo (ping) reply id=0x0001, seq=2151/26376, ttl=106 (request in 6252)
6254	279.729297	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2152/26632, ttl=23 (reply in 6255)
6255	279.735117	64.233.165.139	192.168.1.63	ICMP	106	Echo (ping) reply id=0x0001, seq=2152/26632, ttl=106 (request in 6254)

> Frame 1317: 106 bytes on wire (848 bits), 106 bytes captured (848 bits) on interface \Device\NPF_{45939136-950B-4A86-B5D2-5B4810D20A35}, id 0
 > Ethernet II, Src: HewlettP_0e:f2:25 (84:a9:3e:0e:f2:25), Dst: Keenetic_1e:95:c8 (50:ff:20:1e:95:c8)
 > Internet Protocol Version 4, Src: 192.168.1.63, Dst: 64.233.165.139
 > Internet Control Message Protocol

0000 50 ff 20 1e 95 c8 84 a9 3e 0e f2 25 08 00 45 00 P...>...%..E.
 0010 00 5c 8b 64 00 00 01 01 00 00 c0 a8 01 3f 40 e9 ..\d....:..?@.
 0020 a5 8b 08 00 ef da 00 01 08 24 00 00 00 00 00 00\$......

wireshark_EthernetFUSHM1.pcapng Пакеты: 6353 · Показаны: 114 (1.8%) Профиль: Default

Захват из Ethernet

Файл Редактирование Просмотр Запуск Захват Анализ Статистика Телефония Беспроводной Инструменты Помощь

icmp

No.	Time	Source	Destination	Protocol	Length	Info
5790	3.779648	192.168.1.63	64.233.165.100	ICMP	74	Echo (ping) request id=0x0001, seq=2165/29960, ttl=64 (reply in 5791)
5791	3.784439	64.233.165.100	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=2165/29960, ttl=106 (request in 5790)
5834	4.798316	192.168.1.63	64.233.165.100	ICMP	74	Echo (ping) request id=0x0001, seq=2166/30216, ttl=64 (reply in 5835)
5835	4.803165	64.233.165.100	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=2166/30216, ttl=106 (request in 5834)
5850	5.805728	192.168.1.63	64.233.165.100	ICMP	74	Echo (ping) request id=0x0001, seq=2167/30472, ttl=64 (reply in 5852)
5852	5.810531	64.233.165.100	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=2167/30472, ttl=106 (request in 5850)
5856	6.820969	192.168.1.63	64.233.165.100	ICMP	74	Echo (ping) request id=0x0001, seq=2168/30728, ttl=64 (reply in 5857)
5857	6.825607	64.233.165.100	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=2168/30728, ttl=106 (request in 5856)
5867	7.825277	192.168.1.63	64.233.165.100	ICMP	74	Echo (ping) request id=0x0001, seq=2169/30984, ttl=64 (reply in 5868)
5868	7.830123	64.233.165.100	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=2169/30984, ttl=106 (request in 5867)
5886	8.840565	192.168.1.63	64.233.165.100	ICMP	74	Echo (ping) request id=0x0001, seq=2170/31240, ttl=64 (reply in 5887)
5887	8.845416	64.233.165.100	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=2170/31240, ttl=106 (request in 5886)
5915	9.848277	192.168.1.63	64.233.165.100	ICMP	74	Echo (ping) request id=0x0001, seq=2171/31496, ttl=64 (reply in 5916)
5916	9.854139	64.233.165.100	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=2171/31496, ttl=106 (request in 5915)
5925	10.852734	192.168.1.63	64.233.165.100	ICMP	74	Echo (ping) request id=0x0001, seq=2172/31752, ttl=64 (reply in 5926)
5926	10.858483	64.233.165.100	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=2172/31752, ttl=106 (request in 5925)

> Frame 5743: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface \Device\NPF_{45939136-950B-4A86-B5D2-5B4810D20A35}, id 0
 > Ethernet II, Src: HewlettP_0e:f2:25 (84:a9:3e:0e:f2:25), Dst: Keenetic_1e:95:c8 (50:ff:20:1e:95:c8)
 > Internet Protocol Version 4, Src: 192.168.1.63, Dst: 64.233.165.100
 > Internet Control Message Protocol
 Type: 8 (Echo (ping) request)
 Code: 0
 Checksum: 0x44e8 [correct]
 [Checksum Status: Good]
 Identifier (BE): 1 (0x0001)
 Identifier (LE): 256 (0x0100)
 Sequence Number (BE): 2163 (0x0873)
 Sequence Number (LE): 29448 (0x7308)
 [Response frame: 5744]
 > Data (32 bytes)

0020 a5 64 00 00 44 e8 00 01 08 73 61 62 63 64 65 66 d.D...·sabcedf
 0030 67 68 69 6a 6b 6c 6d 6e 6f 70 71 72 73 74 75 76 ghijklmn opqrstuv
 0040 77 61 62 63 64 65 66 67 68 69 wabcedfg hi

Type (icmp.type), 1 byte(s) Пакеты: 6029 · Показаны: 20 (0.3%) Профиль: Default

1) Отличие в поле TTL (ping фиксированное 64 (в ответе 106), traceroute от 1 до 23), размер data (32 ping, 64 traceroute).

2)

*Ethernet

Файл Редактирование Просмотр Запуск Захват Анализ Статистика Телефония Беспроводной Инструменты Помощь

icmp

No.	Time	Source	Destination	Protocol	Length	Info
2645	151.997385	192.168.1.63	64.233.165.139	ICMP	110	Time-to-live exceeded (Time to live exceeded in transit)
2753	162.030848	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2120/18440, ttl=13 (no response found!)
2754	162.037882	216.239.40.61	192.168.1.63	ICMP	110	Time-to-live exceeded (Time to live exceeded in transit)
2755	162.039251	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2121/18696, ttl=13 (no response found!)
2756	162.046261	216.239.40.61	192.168.1.63	ICMP	110	Time-to-live exceeded (Time to live exceeded in transit)
2757	162.047442	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2122/18952, ttl=13 (no response found!)
2758	162.054301	216.239.40.61	192.168.1.63	ICMP	110	Time-to-live exceeded (Time to live exceeded in transit)
2866	172.091523	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2123/19208, ttl=14 (no response found!)
2922	175.711276	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2124/19464, ttl=14 (no response found!)
3034	179.720613	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2125/19720, ttl=14 (no response found!)
3122	183.710608	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2126/19976, ttl=15 (no response found!)
3145	187.708507	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2127/20232, ttl=15 (no response found!)
3250	191.710827	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2128/20488, ttl=15 (no response found!)
3308	195.722398	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2129/20744, ttl=16 (no response found!)
3355	199.710081	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2130/21000, ttl=16 (no response found!)
3395	203.711710	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2131/21256, ttl=16 (no response found!)

> Frame 2758: 110 bytes on wire (880 bits), 110 bytes captured (880 bits) on interface \Device\NPF_{45939136-950B-4A86-B5D2-5B4810D20A35}, id 0

> Ethernet II, Src: Keenetic_1e:95:c8 (50:ff:20:1e:95:c8), Dst: HewlettP_0e:f2:25 (84:a9:3e:0e:f2:25)

> Internet Protocol Version 4, Src: 216.239.40.61, Dst: 192.168.1.63

> Internet Control Message Protocol

Type: 11 (Time-to-live exceeded)

Code: 0 (Time to live exceeded in transit)

Checksum: 0xf4ee [correct]

[Checksum Status: Good]

Unused: 00

Length: 17

[Length of original datagram: 68]

Unused: 0000

> Internet Protocol Version 4, Src: 192.168.1.63, Dst: 64.233.165.139

> Internet Control Message Protocol

Type: 8 (Echo (ping) request)

Code: 0

0000 84 a9 3e 0e f2 25 50 ff 20 1e 95 c8 08 00 45 00 ...P...E

0010 00 60 c3 06 00 00 f4 01 40 82 d8 ef 28 3d c0 a8@... (=

0020 01 3f 0b 00 f4 ee 00 11 00 00 45 80 00 5c 8b 8a ...?.....E\..

wireshark_EthernetFU5HM1.pcapng

Пакеты: 6353 · Показаны: 114 (1.8%) · Потеряно: 0 (0.0%) · Профиль: Default

*Ethernet

Файл Редактирование Просмотр Запуск Захват Анализ Статистика Телефония Беспроводной Инструменты Помощь

icmp

No.	Time	Source	Destination	Protocol	Length	Info
2463	141.937580	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2115/17160, ttl=11 (no response found!)
2464	141.940706	72.14.232.85	192.168.1.63	ICMP	182	Time-to-live exceeded (Time to live exceeded in transit)
2465	141.942287	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2116/17416, ttl=11 (no response found!)
2466	141.946933	72.14.232.85	192.168.1.63	ICMP	182	Time-to-live exceeded (Time to live exceeded in transit)
2640	151.977990	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2117/17672, ttl=12 (no response found!)
2641	151.983725	142.251.61.221	192.168.1.63	ICMP	110	Time-to-live exceeded (Time to live exceeded in transit)
2642	151.985081	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2118/17928, ttl=12 (no response found!)
2643	151.990494	142.251.61.221	192.168.1.63	ICMP	110	Time-to-live exceeded (Time to live exceeded in transit)
2644	151.991781	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2119/18184, ttl=12 (no response found!)
2645	151.997385	142.251.61.221	192.168.1.63	ICMP	110	Time-to-live exceeded (Time to live exceeded in transit)
2753	162.030848	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2120/18440, ttl=13 (no response found!)
2754	162.037882	216.239.40.61	192.168.1.63	ICMP	110	Time-to-live exceeded (Time to live exceeded in transit)
2755	162.039251	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2121/18696, ttl=13 (no response found!)
2756	162.046261	216.239.40.61	192.168.1.63	ICMP	110	Time-to-live exceeded (Time to live exceeded in transit)
2757	162.047442	192.168.1.63	64.233.165.139	ICMP	106	Echo (ping) request id=0x0001, seq=2122/18952, ttl=13 (no response found!)
2758	162.054301	216.239.40.61	192.168.1.63	ICMP	110	Time-to-live exceeded (Time to live exceeded in transit)

> Frame 2757: 106 bytes on wire (848 bits), 106 bytes captured (848 bits) on interface \Device\NPF_{45939136-950B-4A86-B5D2-5B4810D20A35}, id 0

> Ethernet II, Src: HewlettP_0e:f2:25 (84:a9:3e:0e:f2:25), Dst: Keenetic_1e:95:c8 (50:ff:20:1e:95:c8)

> Internet Protocol Version 4, Src: 192.168.1.63, Dst: 64.233.165.139

> Internet Control Message Protocol

Type: 8 (Echo (ping) request)

Code: 0

Checksum: 0xefb4 [correct]

[Checksum Status: Good]

Identifier (BE): 1 (0x0001)

Identifier (LE): 256 (0x0100)

Sequence Number (BE): 2122 (0x084a)

Sequence Number (LE): 18952 (0x4a08)

> [No response seen]

> Data (64 bytes)

0000 50 ff 20 1e 95 c8 84 a9 3e 0e f2 25 08 00 45 00 P.....>...E

0010 00 5c 8b 8a 00 00 0d 01 00 00 c0 a8 01 3f 40 e9?@...

0020 a5 8b 08 00 ef b4 00 01 08 4a 00 00 00 00 00 00J.....

wireshark_EthernetFU5HM1.pcapng

Пакеты: 6353 · Показаны: 114 (1.8%) · Потеряно: 0 (0.0%) · Профиль: Default

В пакете с ошибкой дополнительно есть поля:

Internet Protocol Version 4, Src: 192.168.1.63, Dst: 64.233.165.139

Internet Control Message Protocol

3)

The image shows a Wireshark packet capture window titled "Ethernet". The packet list pane displays a series of ICMP Echo (ping) requests and replies. Packet 6251 is selected, showing details for an Internet Control Message Protocol Echo (ping) reply. The details pane shows the following information:

- Type: 0 (Echo (ping) reply)
- Code: 0
- Checksum: 0xf798 [correct]
- [Checksum Status: Good]
- Identifier (BE): 1 (0x0001)
- Identifier (LE): 256 (0x0100)
- Sequence Number (BE): 2150 (0x0866)
- Sequence Number (LE): 26120 (0x6608)
- [Request frame: 6250]
- [Response time: 6,226 ms]
- Data (64 bytes)

The packet bytes pane shows the raw data of the packet, including the Ethernet II header, Internet Protocol Version 4 header, and Internet Control Message Protocol header.

Type: 0 (Echo (ping) reply), нет дополнительных полей, которые были в пакетах с ошибками, TTL = 106. Так произошло, так как последние пакеты успешно дошли до адреса и он ответил на запрос

Трассировка маршрута к google.com [64.233.165.139]
с максимальным числом прыжков 30:

1	<1 ms	<1 ms	<1 ms	192.168.1.1
2	1 ms	<1 ms	<1 ms	217-79-5-113.obit.ru [217.79.5.113]
3	1 ms	<1 ms	<1 ms	172.29.194.27
4	2 ms	1 ms	1 ms	172.29.193.142
5	1 ms	<1 ms	<1 ms	172.29.194.181
6	1 ms	<1 ms	<1 ms	172.29.194.171
7	2 ms	1 ms	1 ms	172.29.194.188
8	2 ms	2 ms	2 ms	vi-xx-0150.brc1.obit.ru [85.114.1.12]
9	1 ms	1 ms	6 ms	72.14.198.236
10	2 ms	2 ms	1 ms	74.125.244.132
11	3 ms	3 ms	4 ms	72.14.232.85
12	5 ms	5 ms	5 ms	142.251.61.221
13	7 ms	7 ms	6 ms	216.239.40.61
14	*	*	*	Превышен интервал ожидания для запроса.
15	*	*	*	Превышен интервал ожидания для запроса.
16	*	*	*	Превышен интервал ожидания для запроса.
17	*	*	*	Превышен интервал ожидания для запроса.
18	*	*	*	Превышен интервал ожидания для запроса.
19	*	*	*	Превышен интервал ожидания для запроса.
20	*	*	*	Превышен интервал ожидания для запроса.
21	*	*	*	Превышен интервал ожидания для запроса.
22	*	*	*	Превышен интервал ожидания для запроса.
23	6 ms	6 ms	5 ms	lg-in-f139.1e100.net [64.233.165.139]

Трассировка завершена.

4) В данном случае оказалось так, что не было сильного отличия средней задержки, самая большая задержка была между 72.14.232.85 (Country: US) и 142.251.61.221 (Country: US)