

1. 192.168.199.27

Wireshark packet capture showing ICMP Echo (ping) requests from 192.168.199.27 to 23.32.242.105. The packet list shows multiple requests with no response found. The packet details pane shows the structure of an ICMP Echo request, including fields like Version, Header Length, Total Length, Identification, Flags, Time to Live, and Protocol. The packet bytes pane shows the raw data in hexadecimal and ASCII.

Internet Control Message Protocol: Protocol

Packets: 207 · Displayed: 40 (19.3%) · Dropped: 0 (0.0%)

Profile: Default

2. ICMP (1)

3. 20 байт. Полезная: 56 - 20 = 36

4.

a. Identification, Time to Live, Checksum

b. Остальные поля. Version, Header Length, Protocol, Total Length. Identification, Checksum

c. Увеличивается на 1

5. Identification: 0x86e5, Time to Live: 1

6. Нет.

7. Identification: 0x5e84, TTL: 63

Wireshark capture showing ICMP Echo (ping) requests and replies. The packet list shows several 'Time-to-live exceeded' messages. The packet details pane shows the ICMP Echo request details, including the Identification field set to 0x5e84 (24196) and the Time to Live field set to 63. The packet bytes pane shows the raw data of the ICMP Echo request.

```
0000 98 3b 8f 6a 45 a5 b4 fb e4 2c 11 65 08 00 45 c0  .:jE...e..E
0010 00 54 5e 04 00 00 3f 01 d0 f7 c0 a8 03 01 c0 a8  .TA...?.....
0020 c7 1b 0b 00 f4 ff 00 00 00 05 00 00 38 86 e8    .....E-8...
0030 00 00 01 01 a1 8f c0 a8 c7 1b 17 20 f2 69 08 00  .MA...HT JKLMNOPQ
0040 4d 41 00 02 00 04 48 49 4a 4b 4c 4d 4e 4f 50 51  .RSTUVWXY Z[\]^_`a
0050 52 53 54 55 56 57 58 59 5a 5b 5c 5d 5e 5f 60 61  .bc
0060 62 63
```

8.

- Да, на 3 фрагмента
- Fragment Offset, Flags, Total Length, Header Checksum

Wireshark capture showing ICMP Echo (ping) requests and replies. The packet list shows several 'no response found!' messages. The packet details pane shows the ICMP Echo request details, including the Identification field set to 0xba56 (47702) and the Time to Live field set to 1. The packet bytes pane shows the raw data of the ICMP Echo request.

```
0000 b4 fb e4 2c 11 65 98 3b 8f 6a 45 a5 08 00 45 00  ....e.;jE...E
0010 02 1c ba 56 01 72 01 01 6a cb c0 a8 c7 1b 17 20  .Vr...j...
0020 f2 69 50 51 52 53 54 55 56 57 58 59 5a 5b 5c 5d  .IPQRSTU VWXYZ[\
0030 5e 5f 60 61 62 63 64 65 66 67 68 69 6a 6b 6c 6d  .^_abcde fghijklm
0040 6e 6f 70 71 72 73 74 75 76 77 78 79 7a 7b 7c 7d  .nopqrstu vwxyz{|
0050 7e 7f 40 41 42 43 44 45 46 47 48 49 4a 4b 4c 4d  .~@ABCDE FGHIJKLM
0060 4e 4f 50 51 52 53 54 55 56 57 58 59 5a 5b 5c 5d  .NOPQRSTU VWXYZ[\
0070 5e 5f 60 61 62 63 64 65 66 67 68 69 6a 6b 6c 6d  .^_abcde fghijklm
0080 6e 6f 70 71 72 73 74 75 76 77 78 79 7a 7b 7c 7d  .nopqrstu vwxyz{|
0090 7e 7f 40 41 42 43 44 45 46 47 48 49 4a 4b 4c 4d  .~@ABCDE FGHIJKLM
00a0 4e 4f 50 51 52 53 54 55 56 57 58 59 5a 5b 5c 5d  .NOPQRSTU VWXYZ[\
00b0 5e 5f 60 61 62 63 64 65 66 67 68 69 6a 6b 6c 6d  .^_abcde fghijklm
00c0 6e 6f 70 71 72 73 74 75 76 77 78 79 7a 7b 7c 7d  .nopqrstu vwxyz{|
00d0 7e 7f 40 41 42 43 44 45 46 47 48 49 4a 4b 4c 4d  .~@ABCDE FGHIJKLM
00e0 4e 4f 50 51 52 53 54 55 56 57 58 59 5a 5b 5c 5d  .NOPQRSTU VWXYZ[\
```