CS494 – Project 2 (Wireshark)

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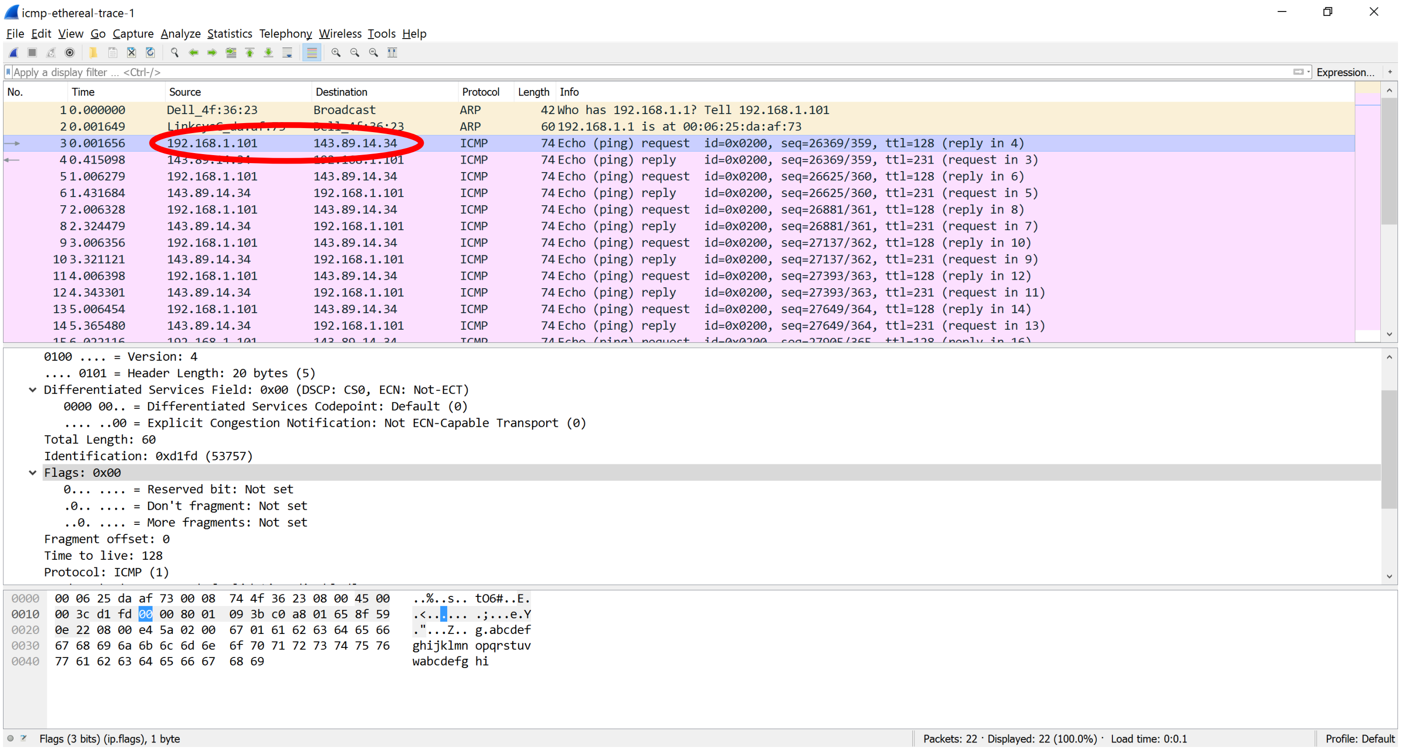
Wireshark ICMP

1. What is the IP address of your host? What is the IP address of the destination host?

IP address of my host: 192.168.1.101
IP address of the destination host 143.89.14.34


icmp-ethereal-trace-1
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
Apply a display filter ... <Ctrl-/>
Expression...

```
No.  Time      Source             Destination     Protocol Length Info
 1 0.000000   Dell_4f:36:23      Broadcast       ARP      42 Who has 192.168.1.1? Tell 192.168.1.101
 2 0.001649   LinksysG_da:af:73  Dell_4f:36:23   ARP      60 192.168.1.1 is at 00:06:25:da:af:73
 3 0.001656   192.168.1.101      143.89.14.34    ICMP     74 Echo (ping) request  id=0x0200, seq=26369/359, ttl=128 (reply in 4)
 4 0.415098   143.89.14.34       192.168.1.101   ICMP     74 Echo (ping) reply    id=0x0200, seq=26369/359, ttl=231 (request in 3)
 5 1.006279   192.168.1.101      143.89.14.34    ICMP     74 Echo (ping) request  id=0x0200, seq=26625/360, ttl=128 (reply in 6)
 6 1.431684   143.89.14.34       192.168.1.101   ICMP     74 Echo (ping) reply    id=0x0200, seq=26625/360, ttl=231 (request in 5)
 7 2.006328   192.168.1.101      143.89.14.34    ICMP     74 Echo (ping) request  id=0x0200, seq=26881/361, ttl=128 (reply in 8)
 8 2.324479   143.89.14.34       192.168.1.101   ICMP     74 Echo (ping) reply    id=0x0200, seq=26881/361, ttl=231 (request in 7)
 9 3.006356   192.168.1.101      143.89.14.34    ICMP     74 Echo (ping) request  id=0x0200, seq=27137/362, ttl=128 (reply in 10)
10 3.321121   143.89.14.34       192.168.1.101   ICMP     74 Echo (ping) reply    id=0x0200, seq=27137/362, ttl=231 (request in 9)
11 4.006398   192.168.1.101      143.89.14.34    ICMP     74 Echo (ping) request  id=0x0200, seq=27393/363, ttl=128 (reply in 12)
12 4.343301   143.89.14.34       192.168.1.101   ICMP     74 Echo (ping) reply    id=0x0200, seq=27393/363, ttl=231 (request in 11)
13 5.006454   192.168.1.101      143.89.14.34    ICMP     74 Echo (ping) request  id=0x0200, seq=27649/364, ttl=128 (reply in 14)
14 5.365480   143.89.14.34       192.168.1.101   ICMP     74 Echo (ping) reply    id=0x0200, seq=27649/364, ttl=231 (request in 13)
15 6.022116   192.168.1.101      143.89.14.34    ICMP     74 Echo (ping) request  id=0x0200, seq=27905/365, ttl=128 (reply in 16)
```

```
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
  v Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
      0000 00.. = Differentiated Services Codepoint: Default (0)
      .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 60
    Identification: 0xd1fd (53757)
  v Flags: 0x00
      0... .... = Reserved bit: Not set
      .0.. .... = Don't fragment: Not set
      ..0. .... = More fragments: Not set
    Fragment offset: 0
    Time to live: 128
    Protocol: ICMP (1)
```

```
0000  00 06 25 da af 73 00 08  74 4f 36 23 08 00 45 00   ..%..s.. tO6#..E.
0010  00 3c d1 fd 00 00 80 01  09 3b c0 a8 01 65 8f 59   .<...... .;...e.Y
0020  0e 22 08 00 e4 5a 02 00  67 01 61 62 63 64 65 66   ."...Z.. g.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
```

Flags (3 bits) (ip.flags), 1 byte · Packets: 22 · Displayed: 22 (100.0%) · Load time: 0:0.1 · Profile: Default

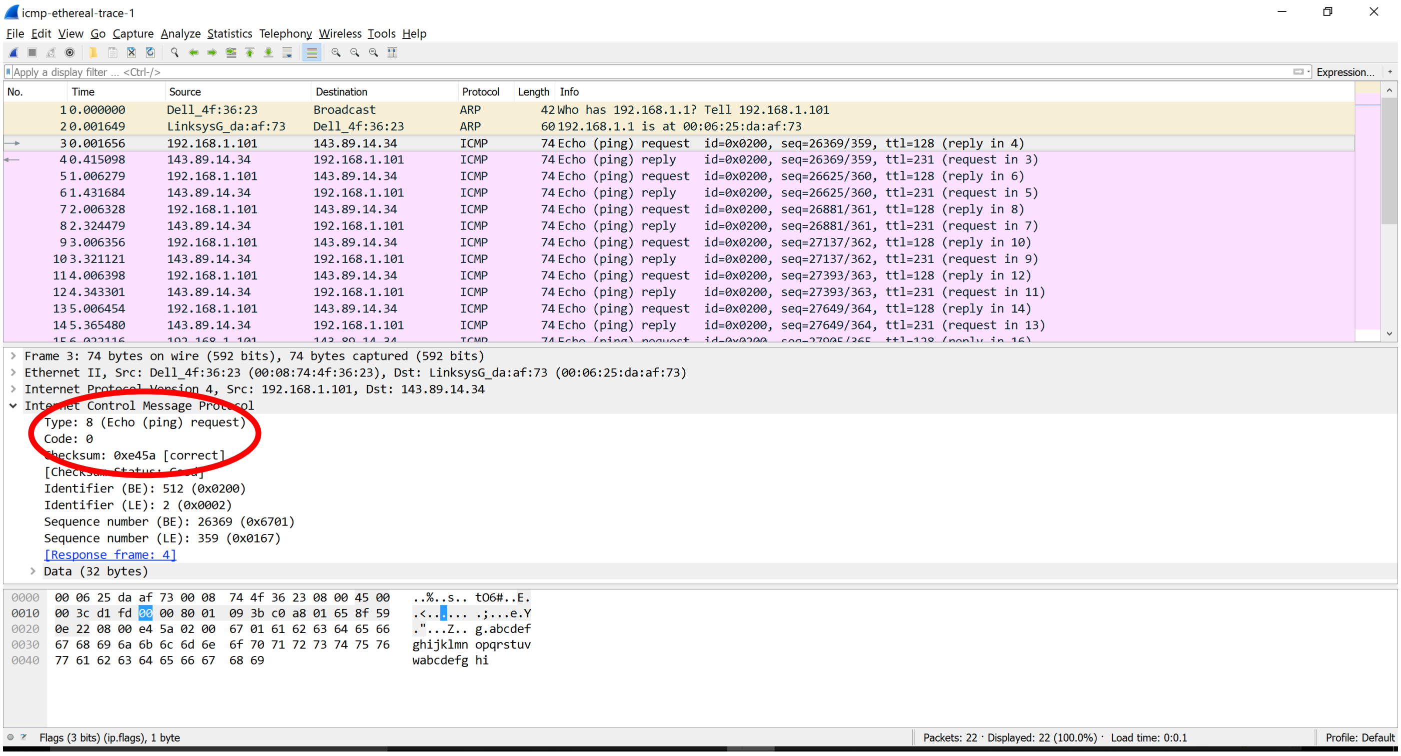
2. Why is it that an ICMP packet does not have source and destination port numbers?

Each ICMP packet has a "Type" and a "Code". The Type/Code combination identifies the specific message being received.

3. Examine one of the ping request packets sent by your host. What are the ICMP type and code numbers? What other fields does this ICMP packet have? How many bytes are the checksum, sequence number and identifier fields?

ICMP type: 8
ICMP code: 0

The ICMP packet also has checksum, identifier, sequence number, and data fields. The checksum, sequence number and identifier fields are two bytes each.


icmp-ethereal-trace-1
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
Apply a display filter ... <Ctrl-/>
Expression...

```
No.  Time        Source             Destination     Protocol  Length  Info
   1 0.000000    Dell_4f:36:23      Broadcast       ARP         42 Who has 192.168.1.1? Tell 192.168.1.101
   2 0.001649    LinksysG_da:af:73  Dell_4f:36:23   ARP         60 192.168.1.1 is at 00:06:25:da:af:73
   3 0.001656    192.168.1.101      143.89.14.34    ICMP        74 Echo (ping) request  id=0x0200, seq=26369/359, ttl=128 (reply in 4)
   4 0.415098    143.89.14.34       192.168.1.101   ICMP        74 Echo (ping) reply    id=0x0200, seq=26369/359, ttl=231 (request in 3)
   5 1.006279    192.168.1.101      143.89.14.34    ICMP        74 Echo (ping) request  id=0x0200, seq=26625/360, ttl=128 (reply in 6)
   6 1.431684    143.89.14.34       192.168.1.101   ICMP        74 Echo (ping) reply    id=0x0200, seq=26625/360, ttl=231 (request in 5)
   7 2.006328    192.168.1.101      143.89.14.34    ICMP        74 Echo (ping) request  id=0x0200, seq=26881/361, ttl=128 (reply in 8)
   8 2.324479    143.89.14.34       192.168.1.101   ICMP        74 Echo (ping) reply    id=0x0200, seq=26881/361, ttl=231 (request in 7)
   9 3.006356    192.168.1.101      143.89.14.34    ICMP        74 Echo (ping) request  id=0x0200, seq=27137/362, ttl=128 (reply in 10)
  10 3.321121    143.89.14.34       192.168.1.101   ICMP        74 Echo (ping) reply    id=0x0200, seq=27137/362, ttl=231 (request in 9)
  11 4.006398    192.168.1.101      143.89.14.34    ICMP        74 Echo (ping) request  id=0x0200, seq=27393/363, ttl=128 (reply in 12)
  12 4.343301    143.89.14.34       192.168.1.101   ICMP        74 Echo (ping) reply    id=0x0200, seq=27393/363, ttl=231 (request in 11)
  13 5.006454    192.168.1.101      143.89.14.34    ICMP        74 Echo (ping) request  id=0x0200, seq=27649/364, ttl=128 (reply in 14)
  14 5.365480    143.89.14.34       192.168.1.101   ICMP        74 Echo (ping) reply    id=0x0200, seq=27649/364, ttl=231 (request in 13)
  15 6.022116    192.168.1.101      143.89.14.34    ICMP        74 Echo (ping) request  id=0x0200, seq=27905/365, ttl=128 (reply in 16)

> Frame 3: 74 bytes on wire (592 bits), 74 bytes captured (592 bits)
> Ethernet II, Src: Dell_4f:36:23 (00:08:74:4f:36:23), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
> Internet Protocol Version 4, Src: 192.168.1.101, Dst: 143.89.14.34
v Internet Control Message Protocol
    Type: 8 (Echo (ping) request)
    Code: 0
    Checksum: 0xe45a [correct]
    [Checksum Status: Good]
    Identifier (BE): 512 (0x0200)
    Identifier (LE): 2 (0x0002)
    Sequence number (BE): 26369 (0x6701)
    Sequence number (LE): 359 (0x0167)
    [Response frame: 4]
  > Data (32 bytes)

0000  00 06 25 da af 73 00 08  74 4f 36 23 08 00 45 00   ..%..s.. tO6#..E.
0010  00 3c d1 fd 00 00 80 01  09 3b c0 a8 01 65 8f 59   .<...... .;...e.Y
0020  0e 22 08 00 e4 5a 02 00  67 01 61 62 63 64 65 66   ."...Z.. g.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

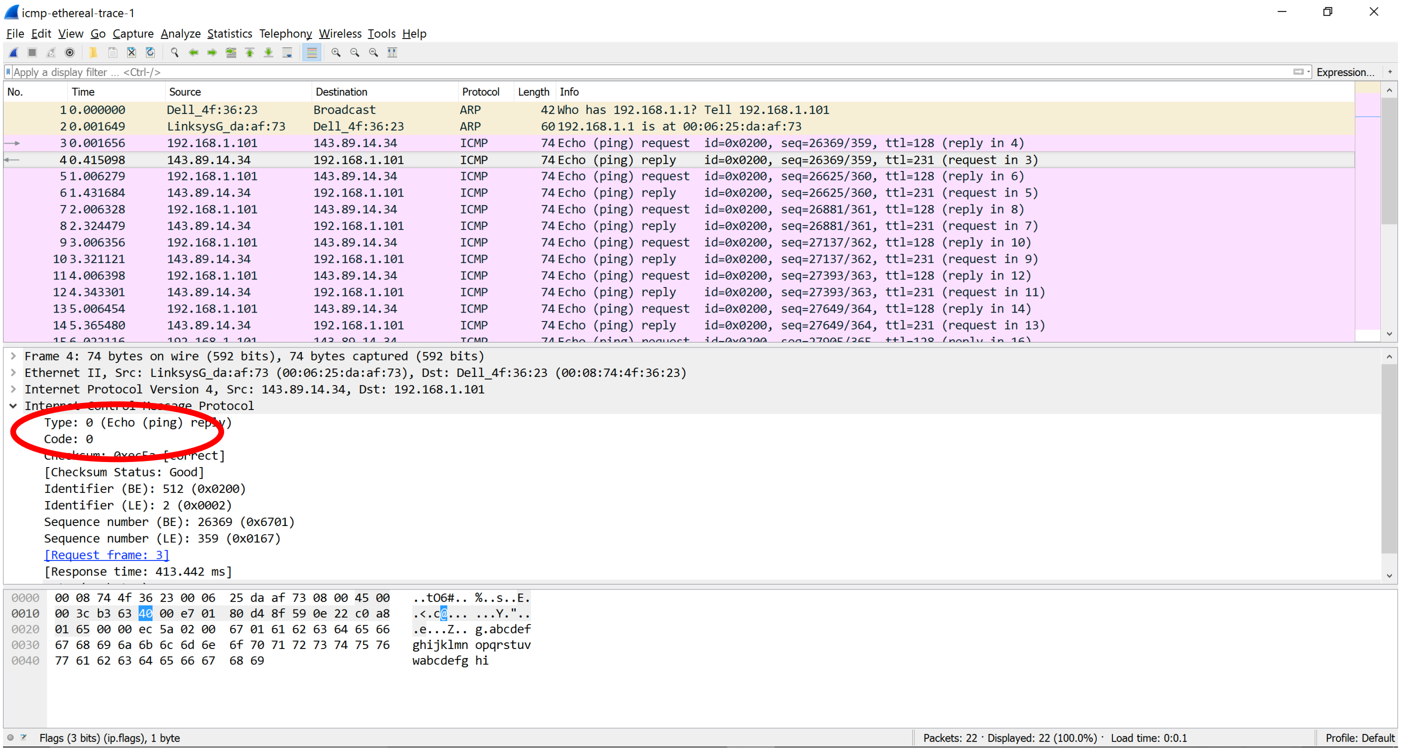
Flags (3 bits) (ip.flags), 1 byte          Packets: 22 · Displayed: 22 (100.0%) · Load time: 0:0.1          Profile: Default
```

4. Examine the corresponding ping reply packet. What are the ICMP type and code numbers? What other fields does this ICMP packet have? How many bytes are the checksum, sequence number and identifier fields?

ICMP type: 0

ICMP code: 0

The ICMP packet also has checksum, identifier, sequence number, and data fields. The checksum, sequence number and identifier fields are two bytes each.


icmp-ethereal-trace-1
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
Apply a display filter ... <Ctrl-/>
Expression...

```
No.  Time        Source             Destination     Protocol  Length  Info
   1 0.000000    Dell_4f:36:23      Broadcast       ARP         42 Who has 192.168.1.1? Tell 192.168.1.101
   2 0.001649    LinksysG_da:af:73  Dell_4f:36:23   ARP         60 192.168.1.1 is at 00:06:25:da:af:73
   3 0.001656    192.168.1.101      143.89.14.34    ICMP        74 Echo (ping) request  id=0x0200, seq=26369/359, ttl=128 (reply in 4)
   4 0.415098    143.89.14.34       192.168.1.101   ICMP        74 Echo (ping) reply    id=0x0200, seq=26369/359, ttl=231 (request in 3)
   5 1.006279    192.168.1.101      143.89.14.34    ICMP        74 Echo (ping) request  id=0x0200, seq=26625/360, ttl=128 (reply in 6)
   6 1.431684    143.89.14.34       192.168.1.101   ICMP        74 Echo (ping) reply    id=0x0200, seq=26625/360, ttl=231 (request in 5)
   7 2.006328    192.168.1.101      143.89.14.34    ICMP        74 Echo (ping) request  id=0x0200, seq=26881/361, ttl=128 (reply in 8)
   8 2.324479    143.89.14.34       192.168.1.101   ICMP        74 Echo (ping) reply    id=0x0200, seq=26881/361, ttl=231 (request in 7)
   9 3.006356    192.168.1.101      143.89.14.34    ICMP        74 Echo (ping) request  id=0x0200, seq=27137/362, ttl=128 (reply in 10)
  10 3.321121    143.89.14.34       192.168.1.101   ICMP        74 Echo (ping) reply    id=0x0200, seq=27137/362, ttl=231 (request in 9)
  11 4.006398    192.168.1.101      143.89.14.34    ICMP        74 Echo (ping) request  id=0x0200, seq=27393/363, ttl=128 (reply in 12)
  12 4.343301    143.89.14.34       192.168.1.101   ICMP        74 Echo (ping) reply    id=0x0200, seq=27393/363, ttl=231 (request in 11)
  13 5.006454    192.168.1.101      143.89.14.34    ICMP        74 Echo (ping) request  id=0x0200, seq=27649/364, ttl=128 (reply in 14)
  14 5.365480    143.89.14.34       192.168.1.101   ICMP        74 Echo (ping) reply    id=0x0200, seq=27649/364, ttl=231 (request in 13)
  15 6.022116    192.168.1.101      143.89.14.34    ICMP        74 Echo (ping) request  id=0x0200, seq=27905/365, ttl=128 (reply in 16)

> Frame 4: 74 bytes on wire (592 bits), 74 bytes captured (592 bits)
> Ethernet II, Src: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: Dell_4f:36:23 (00:08:74:4f:36:23)
> Internet Protocol Version 4, Src: 143.89.14.34, Dst: 192.168.1.101
v Internet Control Message Protocol
    Type: 0 (Echo (ping) reply)
    Code: 0
    Checksum: 0xec5a [correct]
    [Checksum Status: Good]
    Identifier (BE): 512 (0x0200)
    Identifier (LE): 2 (0x0002)
    Sequence number (BE): 26369 (0x6701)
    Sequence number (LE): 359 (0x0167)
    [Request frame: 3]
    [Response time: 413.442 ms]

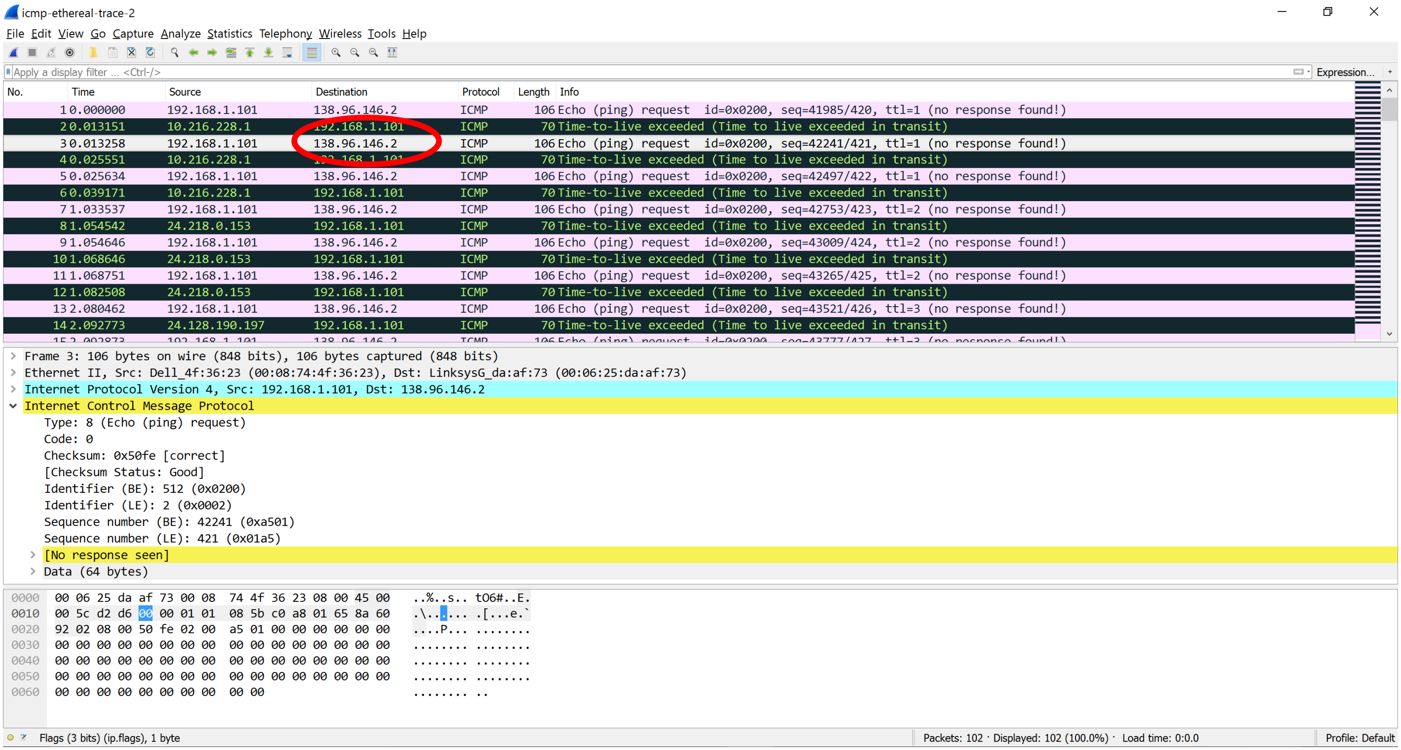
0000  00 08 74 4f 36 23 00 06  25 da af 73 08 00 45 00   ..tO6#.. %..s..E.
0010  00 3c b3 63 40 00 e7 01  80 d4 8f 59 0e 22 c0 a8   .<.c@... ...Y."..
0020  01 65 00 00 ec 5a 02 00  67 01 61 62 63 64 65 66   .e...Z.. g.abcdef
0030  67 68 69 6a 6b 6c 6d 6e  6f 70 71 72 73 74 75 76   ghijklmn opqrstuv
0040  77 61 62 63 64 65 66 67  68 69                     wabcdefg hi

Flags (3 bits) (ip.flags), 1 byte          Packets: 22 · Displayed: 22 (100.0%) · Load time: 0:0.1          Profile: Default
```

5. What is the IP address of your host? What is the IP address of the target destination host?

The IP address of my host: 192.168.1.101.

The IP address of the destination host: 138.96.146.2.


icmp-ethereal-trace-2
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
Apply a display filter … <Ctrl-/>
Expression…

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	192.168.1.101	138.96.146.2	ICMP	106	Echo (ping) request id=0x0200, seq=41985/420, ttl=1 (no response found!)
2	0.013151	10.216.228.1	192.168.1.101	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
3	0.013258	192.168.1.101	138.96.146.2	ICMP	106	Echo (ping) request id=0x0200, seq=42241/421, ttl=1 (no response found!)
4	0.025551	10.216.228.1	192.168.1.101	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
5	0.025634	192.168.1.101	138.96.146.2	ICMP	106	Echo (ping) request id=0x0200, seq=42497/422, ttl=1 (no response found!)
6	0.039171	10.216.228.1	192.168.1.101	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
7	1.033537	192.168.1.101	138.96.146.2	ICMP	106	Echo (ping) request id=0x0200, seq=42753/423, ttl=2 (no response found!)
8	1.054542	24.218.0.153	192.168.1.101	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
9	1.054646	192.168.1.101	138.96.146.2	ICMP	106	Echo (ping) request id=0x0200, seq=43009/424, ttl=2 (no response found!)
10	1.068646	24.218.0.153	192.168.1.101	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
11	1.068751	192.168.1.101	138.96.146.2	ICMP	106	Echo (ping) request id=0x0200, seq=43265/425, ttl=2 (no response found!)
12	1.082508	24.218.0.153	192.168.1.101	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
13	2.080462	192.168.1.101	138.96.146.2	ICMP	106	Echo (ping) request id=0x0200, seq=43521/426, ttl=3 (no response found!)
14	2.092773	24.128.190.197	192.168.1.101	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
15	2.092873	192.168.1.101	138.96.146.2	ICMP	106	Echo (ping) request id=0x0200, seq=43777/427, ttl=3 (no response found!)

```
> Frame 3: 106 bytes on wire (848 bits), 106 bytes captured (848 bits)
> Ethernet II, Src: Dell_4f:36:23 (00:08:74:4f:36:23), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
> Internet Protocol Version 4, Src: 192.168.1.101, Dst: 138.96.146.2
v Internet Control Message Protocol
    Type: 8 (Echo (ping) request)
    Code: 0
    Checksum: 0x50fe [correct]
    [Checksum Status: Good]
    Identifier (BE): 512 (0x0200)
    Identifier (LE): 2 (0x0002)
    Sequence number (BE): 42241 (0xa501)
    Sequence number (LE): 421 (0x01a5)
  > [No response seen]
  > Data (64 bytes)
```

```
0000  00 06 25 da af 73 00 08  74 4f 36 23 08 00 45 00   ..%..s.. tO6#..E.
0010  00 5c d2 d6 00 00 01 01  08 5b c0 a8 01 65 8a 60   .\...... .[...e.`
0020  92 02 08 00 50 fe 02 00  a5 01 00 00 00 00 00 00   ....P... ........
0030  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ........ ........
0040  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ........ ........
0050  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ........ ........
0060  00 00 00 00 00 00 00 00  00 00                     ........ ..
```

Flags (3 bits) (ip.flags), 1 byte | Packets: 102 · Displayed: 102 (100.0%) · Load time: 0:0.0 | Profile: Default

6. If ICMP sent UDP packets instead (as in Unix/Linux), would the IP protocol number still be 01 for the probe packets? If not, what would it be?

No. The IP protocol number should be 0x11.

7. Examine the ICMP echo packet in your screenshot. Is this different from the ICMP ping query packets in the first half of this lab? If yes, how so?

The ICMP echo packet has the same fields as the ping query packets.

8. Examine the ICMP error packet in your screenshot. It has more fields than the ICMP echo packet. What is included in those fields?

The ICMP echo packet does not have the same fields as the ping query packets. It contains the IP header and the first 8 bytes of the original ICMP packet.

9. Examine the last three ICMP packets received by the source host. How are these packets different from the ICMP error packets? Why are they different?

The last three packets have type 0 meaning echo reply not type 11 meaning TTL expires because the packets manage to the destination host before expiring.

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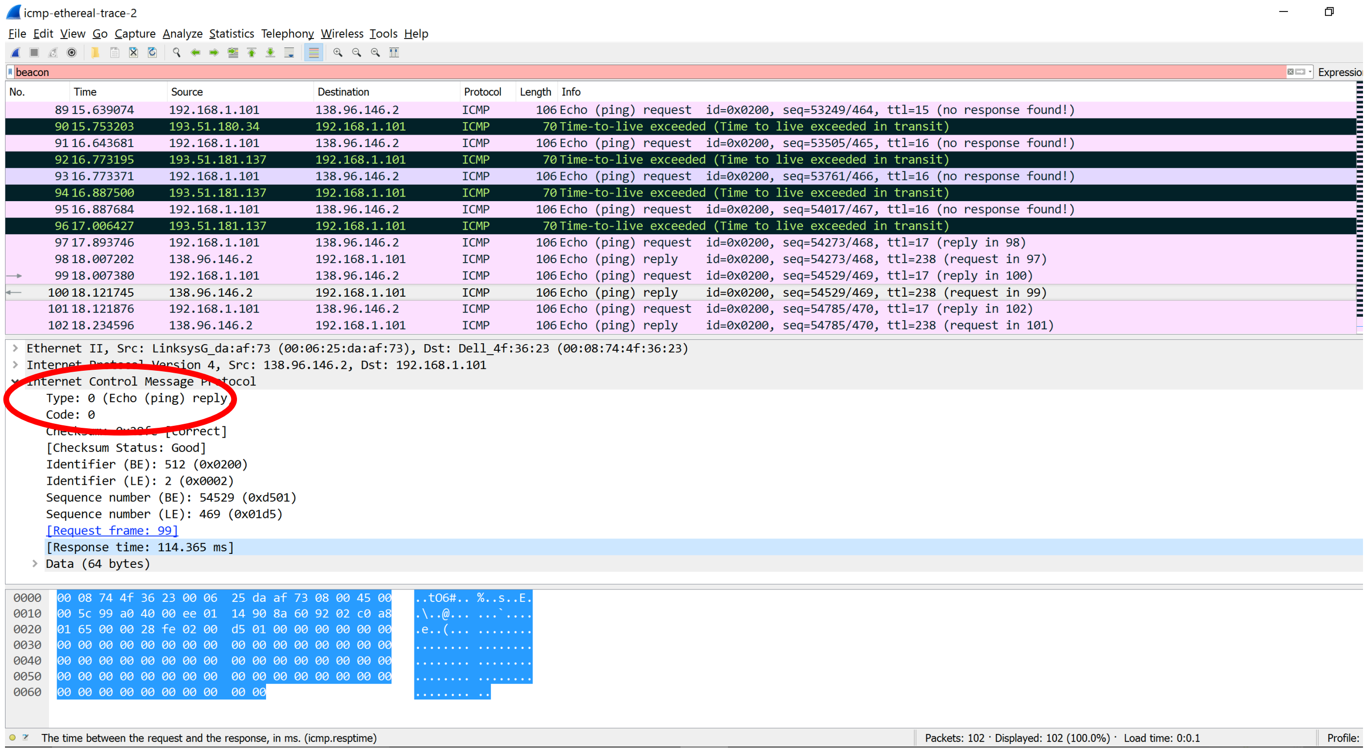
Lê Lưu Quỳnh Giao – 1351012
Nguyễn Đắc Phúc – 1351060


icmp-ethereal-trace-2
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
beacon
Expressio

```
No.  Time       Source          Destination   Protocol Length Info
 89 15.639074  192.168.1.101   138.96.146.2   ICMP   106 Echo (ping) request  id=0x0200, seq=53249/464, ttl=15 (no response found!)
 90 15.753203  193.51.180.34   192.168.1.101  ICMP    70 Time-to-live exceeded (Time to live exceeded in transit)
 91 16.643681  192.168.1.101   138.96.146.2   ICMP   106 Echo (ping) request  id=0x0200, seq=53505/465, ttl=16 (no response found!)
 92 16.773195  193.51.181.137  192.168.1.101  ICMP    70 Time-to-live exceeded (Time to live exceeded in transit)
 93 16.773371  192.168.1.101   138.96.146.2   ICMP   106 Echo (ping) request  id=0x0200, seq=53761/466, ttl=16 (no response found!)
 94 16.887500  193.51.181.137  192.168.1.101  ICMP    70 Time-to-live exceeded (Time to live exceeded in transit)
 95 16.887684  192.168.1.101   138.96.146.2   ICMP   106 Echo (ping) request  id=0x0200, seq=54017/467, ttl=16 (no response found!)
 96 17.006427  193.51.181.137  192.168.1.101  ICMP    70 Time-to-live exceeded (Time to live exceeded in transit)
 97 17.893746  192.168.1.101   138.96.146.2   ICMP   106 Echo (ping) request  id=0x0200, seq=54273/468, ttl=17 (reply in 98)
 98 18.007202  138.96.146.2    192.168.1.101  ICMP   106 Echo (ping) reply    id=0x0200, seq=54273/468, ttl=238 (request in 97)
 99 18.007380  192.168.1.101   138.96.146.2   ICMP   106 Echo (ping) request  id=0x0200, seq=54529/469, ttl=17 (reply in 100)
100 18.121745  138.96.146.2    192.168.1.101  ICMP   106 Echo (ping) reply    id=0x0200, seq=54529/469, ttl=238 (request in 99)
101 18.121876  192.168.1.101   138.96.146.2   ICMP   106 Echo (ping) request  id=0x0200, seq=54785/470, ttl=17 (reply in 102)
102 18.234596  138.96.146.2    192.168.1.101  ICMP   106 Echo (ping) reply    id=0x0200, seq=54785/470, ttl=238 (request in 101)

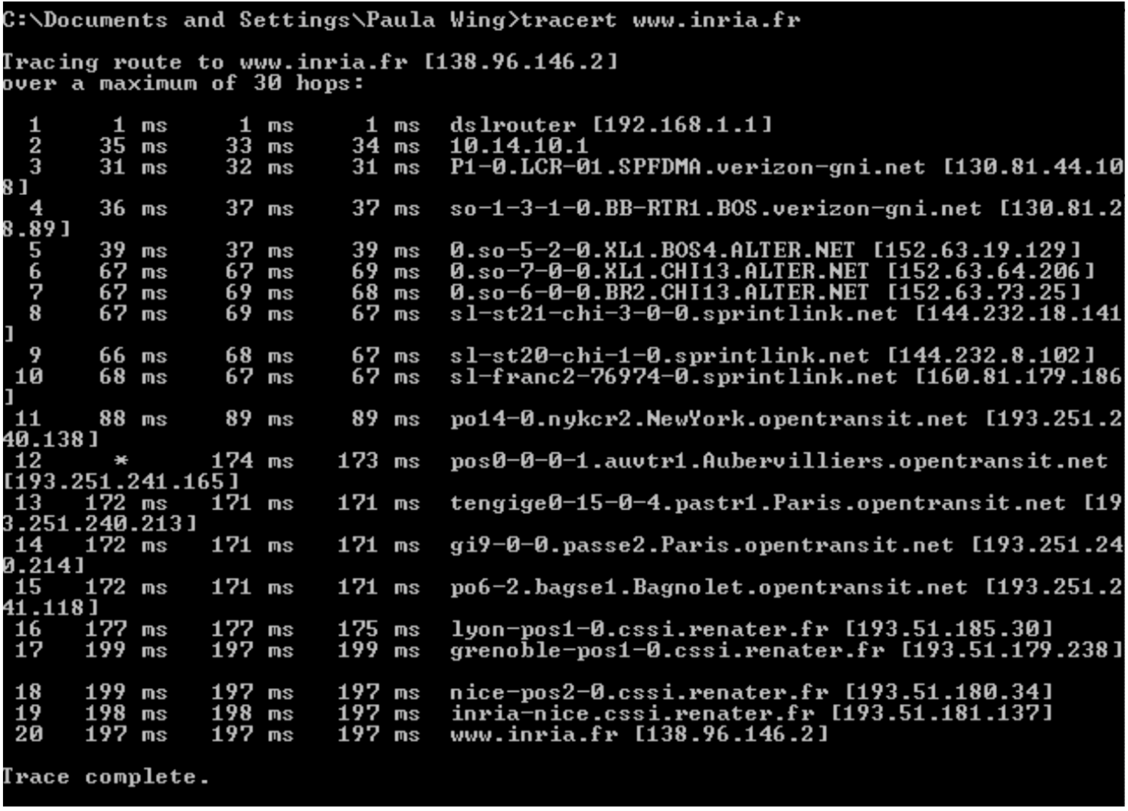
> Ethernet II, Src: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: Dell_4f:36:23 (00:08:74:4f:36:23)
> Internet Protocol Version 4, Src: 138.96.146.2, Dst: 192.168.1.101
v Internet Control Message Protocol
    Type: 0 (Echo (ping) reply)
    Code: 0
    Checksum: 0x28fe [correct]
    [Checksum Status: Good]
    Identifier (BE): 512 (0x0200)
    Identifier (LE): 2 (0x0002)
    Sequence number (BE): 54529 (0xd501)
    Sequence number (LE): 469 (0x01d5)
    [Request frame: 99]
    [Response time: 114.365 ms]
  > Data (64 bytes)

0000  00 08 74 4f 36 23 00 06  25 da af 73 08 00 45 00   ..tO6#.. %..s..E.
0010  00 5c 99 a0 40 00 ee 01  14 90 8a 60 92 02 c0 a8   .\..@... ...`....
0020  01 65 00 00 28 fe 02 00  d5 01 00 00 00 00 00 00   .e..(... ........
0030  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ........ ........
0040  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ........ ........
0050  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ........ ........
0060  00 00 00 00 00 00 00 00  00 00                     ........ ..

The time between the request and the response, in ms. (icmp.resptime)    Packets: 102 · Displayed: 102 (100.0%) · Load time: 0:0.1    Profile:
```

10. Within the tracert measurements, is there a link whose delay is significantly longer than others? Refer to the screenshot in Figure 4, is there a link whose delay is significantly longer than others? On the basis of the router names, can you guess the location of the two routers on the end of this link?

Step 11 and 12 lave longer delay. The routers is from New York to Aubervilliers, France. In figure 4 is from New York to Pastourelle, France.



```
C:\Documents and Settings\Paula Wing>tracert www.inria.fr

Tracing route to www.inria.fr [138.96.146.2]
over a maximum of 30 hops:

  1     1 ms     1 ms     1 ms  dslrouter [192.168.1.1]
  2    35 ms    33 ms    34 ms  10.14.10.1
  3    31 ms    32 ms    31 ms  P1-0.LCR-01.SPFDMA.verizon-gni.net [130.81.44.10
8]
  4    36 ms    37 ms    37 ms  so-1-3-1-0.BB-RTR1.BOS.verizon-gni.net [130.81.2
8.89]
  5    39 ms    37 ms    39 ms  0.so-5-2-0.XL1.BOS4.ALTER.NET [152.63.19.129]
  6    67 ms    67 ms    69 ms  0.so-7-0-0.XL1.CHI13.ALTER.NET [152.63.64.206]
  7    67 ms    69 ms    68 ms  0.so-6-0-0.BR2.CHI13.ALTER.NET [152.63.73.25]
  8    67 ms    69 ms    67 ms  sl-st21-chi-3-0-0.sprintlink.net [144.232.18.141
]
  9    66 ms    68 ms    67 ms  sl-st20-chi-1-0.sprintlink.net [144.232.8.102]
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 11    88 ms    89 ms    89 ms  po14-0.nykcr2.NewYork.opentransit.net [193.251.2
40.138]
 12     *      174 ms   173 ms  pos0-0-0-1.auvtr1.Aubervilliers.opentransit.net
[193.251.241.165]
 13   172 ms   171 ms   171 ms  tengige0-15-0-4.pastr1.Paris.opentransit.net [19
3.251.240.213]
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41.118]
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 17   199 ms   197 ms   199 ms  grenoble-pos1-0.cssi.renater.fr [193.51.179.238]

 18   199 ms   197 ms   197 ms  nice-pos2-0.cssi.renater.fr [193.51.180.34]
 19   198 ms   198 ms   197 ms  inria-nice.cssi.renater.fr [193.51.181.137]
 20   197 ms   197 ms   197 ms  www.inria.fr [138.96.146.2]

Trace complete.
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