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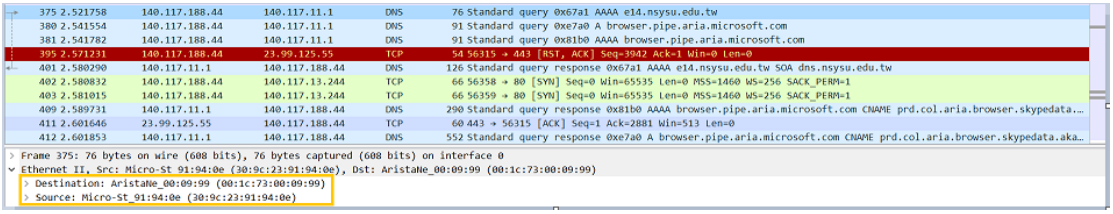
# Part 1: Web Browsing (DNS, TCP)

1.Find the first DNS request packet sent by the client. (Request for cse.nsysu.edu.tw)

You can find a record like below on Wireshar**k. And you can answer the question.**

(1) Examine the Ethernet

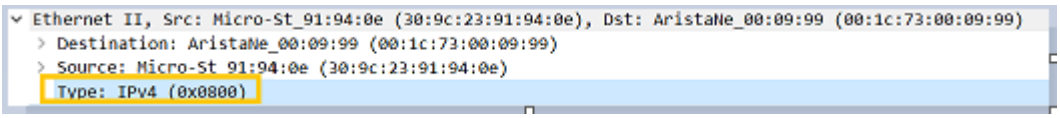
a. What is the Ethernet address of the source and destination?




Source: Micro-St_91:94:0e (30:9c:23:91:94:0e)

Destination:AristaNe_00:09:99(00:1c:73:00:09:99)

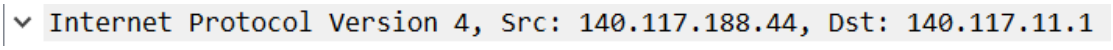
b. What is the content of the type field in the Ethernet frame?




Type field: IPv4

(2) Examine the Internet Protocol

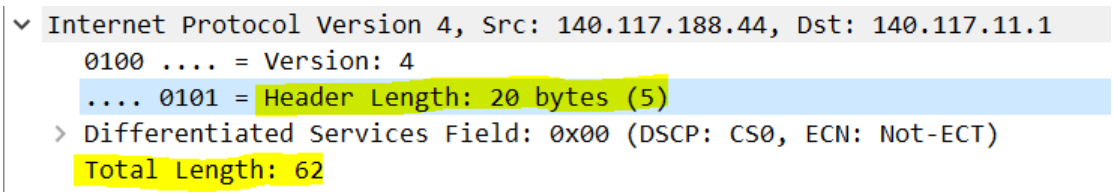
a. What is the IP address of the source and destination?




Source : 140.117.188.44

Destination: 140.117.11.1

b. What is the header length? What is the total packet length?




header length:20bytes

total packet length:62bytes

c. Identify the protocol type field. What is the number and type of the protocol in the payload?

```
Internet Protocol Version 4, Src: 140.117.188.44, Dst: 140.117.11.1
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
  > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 62
    Identification: 0x3b93 (15251)
  > Flags: 0x0000
    Time to live: 128
    Protocol: UDP (17)
```

Type : UDP

Number : 17

(3) Examine the User Datagram Protocol

a. Identify the client ephemeral port number and the server well-known port number.

```
User Datagram Protocol, Src Port: 61252, Dst Port: 53
    Source Port: 61252
    Destination Port: 53
```

client ephemeral port number: 61252

server well-known port number: 53

b. What type of application layer protocol is in the payload?

```
[Protocols in frame: eth:ethertype:ip:udp:dns]
```

DNS

(4) Examine the Domain Name System (query)

a. What field indicates whether the message is a query or a response?

```
Domain Name System (query)
    Transaction ID: 0x67a1
  Flags: 0x0100 Standard query
      0... .... .... .... = Response: Message is a query
      .000 0... .... .... = Opcode: Standard query (0)
      .... ..0. .... .... = Truncated: Message is not truncated
      .... ...1 .... .... = Recursion desired: Do query recursively
      .... .... .0.. .... = Z: reserved (0)
      .... .... ...0 .... = Non-authenticated data: Unacceptable
```

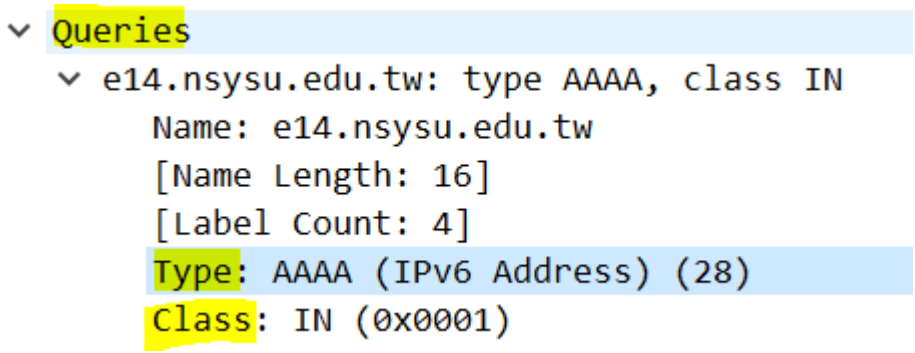
Field : Response

b. What is the query transaction ID?

transaction ID : 0x67a1

c. Identify the fields that carry the type and class of the query.

```
Queries
  > e14.nsysu.edu.tw: type AAAA, class IN
```




Queries > Type

Queries > Class

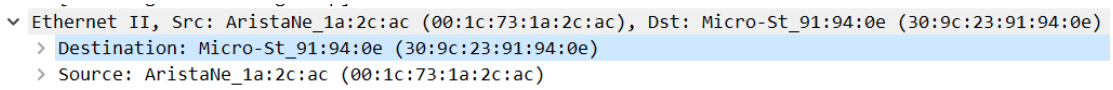
**2. Find the DNS response packet which is response to the DNS request packet from the above question.**

**You can find a record like below on Wireshark. And you can answer the question.**

**(cse.nsysu.edu.tw == 140.117.13.244)**

(1) Examine the Ethernet

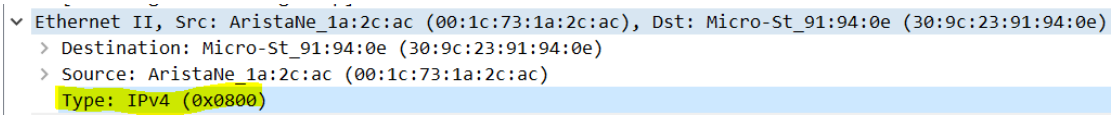
a. What is the Ethernet address of the source and destination?




Source : AristaNe_1a:2c:ac

Destination: Micro-St_91:94:0e

b. What is the content of the type field in the Ethernet frame?




Ans : IPv4

(2) Examine the Internet Protocol & Domain Name System (response)

a. What is the IP address of the source and destination?

```
Internet Protocol Version 4, Src: 140.117.11.1, Dst: 140.117.188.44
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
  > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 112
    Identification: 0x81c7 (33223)
  > Flags: 0x4000, Don't fragment
    Time to live: 251
    Protocol: UDP (17)
    Header checksum: 0x1d9d [validation disabled]
    [Header checksum status: Unverified]
    Source: 140.117.11.1
    Destination: 140.117.188.44
```

Source : 140.117.11.1

Destination: 140.117.188.44

b. What is the header length? What is the total packet length? Is it longer than the query?

```
Internet Protocol Version 4, Src: 140.117.11.1, Dst: 140.117.188.44
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
  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: 112
```

header length:20 bytes

packet length:112

For header length is equal.

For total packet length is longer.

c. How many answers are provided in the response message? Compare the answers and their time-to-live values.

```
401 2.580290   140.117.11.1     140.117.188.44   DNS   126 Standard query response 0x67a1 AAAA e14.nsysu.edu.tw SOA dns.nsysu.edu.tw
402 2.580832   140.117.188.44   140.117.13.244   TCP    66 56358 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1
403 2.581015   140.117.188.44   140.117.13.244   TCP    66 56359 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1
409 2.589731   140.117.11.1     140.117.188.44   DNS   290 Standard query response 0x81b0 AAAA browser.pipe.aria.microsoft.com CNAME prd.
411 2.601646   23.99.125.55     140.117.188.44   TCP    60 443 → 56315 [ACK] Seq=1 Ack=2881 Win=513 Len=0
412 2.601853   140.117.11.1     140.117.188.44   DNS   552 Standard query response 0xe7a0 A browser.pipe.aria.microsoft.com CNAME prd.col
```

```
Flags: 0x8580 Standard query response, No error
    1... .... .... .... = Response: Message is a response
    .000 0... .... .... = Opcode: Standard query (0)
    .... .1.. .... .... = Authoritative: Server is an authority for domain
    .... ..0. .... .... = Truncated: Message is not truncated
    .... ...1 .... .... = Recursion desired: Do query recursively
    .... .... 1... .... = Recursion available: Server can do recursive queries
    .... .... .0.. .... = Z: reserved (0)
    .... .... ..0. .... = Answer authenticated: Answer/authority portion was not authenticated by the server
    .... .... ...0 .... = Non-authenticated data: Unacceptable
    .... .... .... 0000 = Reply code: No error (0)
  Questions: 1
  Answer RRs: 0
```

```
Internet Protocol Version 4, Src: 140.117.11.1, Dst: 140.117.188.44
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
  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: 112
    Identification: 0x81c7 (33223)
  > Flags: 0x4000, Don't fragment
    Time to live: 251
    Protocol: UDP (17)
    Header checksum: 0x1d9d [validation disabled]
    [Header checksum status: Unverified]
    Source: 140.117.11.1
    Destination: 140.117.188.44
```

Response :

- Ans: 0
- Time to live: 251

```
375 2.521758  140.117.188.44  140.117.11.1     DNS   76 Standard query 0x67a1 AAAA e14.nsysu.edu.tw
380 2.541554  140.117.188.44  140.117.11.1     DNS   91 Standard query 0xe7a0 A browser.pipe.aria.microsoft.com
381 2.541782  140.117.188.44  140.117.11.1     DNS   91 Standard query 0x81b0 AAAA browser.pipe.aria.microsoft.com
395 2.571231  140.117.188.44  23.99.125.55     TCP   54 56315 → 443 [RST, ACK] Seq=3942 Ack=1 Win=0 Len=0
401 2.580290  140.117.11.1    140.117.188.44   DNS  126 Standard query response 0x67a1 AAAA e14.nsysu.edu.tw SOA dns.nsysu.edu.tw
402 2.580832  140.117.188.44  140.117.13.244   TCP   66 56358 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1
403 2.581015  140.117.188.44  140.117.13.244   TCP   66 56359 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1
409 2.589731  140.117.11.1    140.117.188.44   DNS  290 Standard query response 0x81b0 AAAA browser.pipe.aria.microsoft.com CNAME
411 2.601646  23.99.125.55    140.117.188.44   TCP   60 443 → 56315 [ACK] Seq=1 Ack=2881 Win=513 Len=0
412 2.601853  140.117.11.1    140.117.188.44   DNS  552 Standard query response 0xe7a0 A browser.pipe.aria.microsoft.com CNAME pr
```

```
    .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 140.117.188.44, Dst: 140.117.11.1
  0100 .... = Version: 4
  .... 0101 = Header Length: 20 bytes (5)
  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: 62
  Identification: 0x3b93 (15251)
> Flags: 0x0000
  Time to live: 128
```

```
375 2.521758  140.117.188.44  140.117.11.1     DNS   76 Standard query 0x67a1 AAAA e14.nsysu.edu.tw
380 2.541554  140.117.188.44  140.117.11.1     DNS   91 Standard query 0xe7a0 A browser.pipe.aria.microsoft.com
381 2.541782  140.117.188.44  140.117.11.1     DNS   91 Standard query 0x81b0 AAAA browser.pipe.aria.microsoft.com
395 2.571231  140.117.188.44  23.99.125.55     TCP   54 56315 → 443 [RST, ACK] Seq=3942 Ack=1 Win=0 Len=0
401 2.580290  140.117.11.1    140.117.188.44   DNS  126 Standard query response 0x67a1 AAAA e14.nsysu.edu.tw SOA dns.nsysu.edu.tw
402 2.580832  140.117.188.44  140.117.13.244   TCP   66 56358 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1
403 2.581015  140.117.188.44  140.117.13.244   TCP   66 56359 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1
409 2.589731  140.117.11.1    140.117.188.44   DNS  290 Standard query response 0x81b0 AAAA browser.pipe.aria.microsoft.com CNAME prd
411 2.601646  23.99.125.55    140.117.188.44   TCP   60 443 → 56315 [ACK] Seq=1 Ack=2881 Win=513 Len=0
412 2.601853  140.117.11.1    140.117.188.44   DNS  552 Standard query response 0xe7a0 A browser.pipe.aria.microsoft.com CNAME prd.co
```

```
    [Time since previous frame: 0.000000000 seconds]
Domain Name System (query)
  Transaction ID: 0x67a1
  Flags: 0x0100 Standard query
    0... .... .... .... = Response: Message is a query
    .000 0... .... .... = Opcode: Standard query (0)
    .... ..0. .... .... = Truncated: Message is not truncated
    .... ...1 .... .... = Recursion desired: Do query recursively
    .... .... .0.. .... = Z: reserved (0)
    .... .... ...0 .... = Non-authenticated data: Unacceptable
  Questions: 1
  Answer RRs: 0
```

Request:

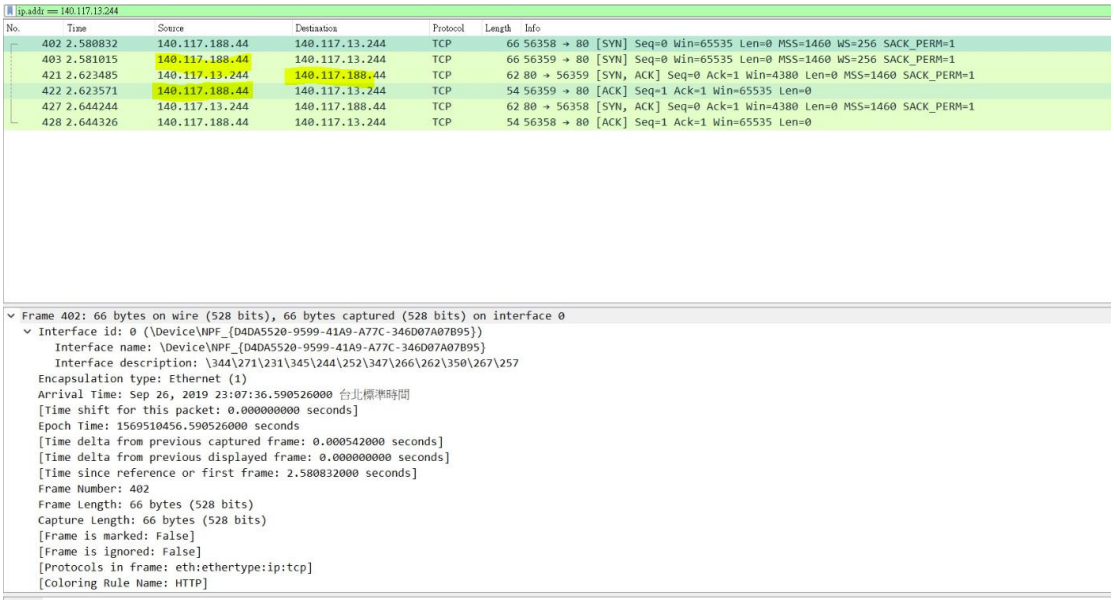
- Ans:
- Time to live:

| | Request | Response |
|---|---|---|
| Answer number | 0 | 0 |
| Time to live | 128 | 251 |

**3. Find the first TCP packet sent by client. (The destination IP address is response from above question.)**

**You can find three record like below on Wireshark. It's TCP three-way handshake.**

Figure: TCP three-way handshake



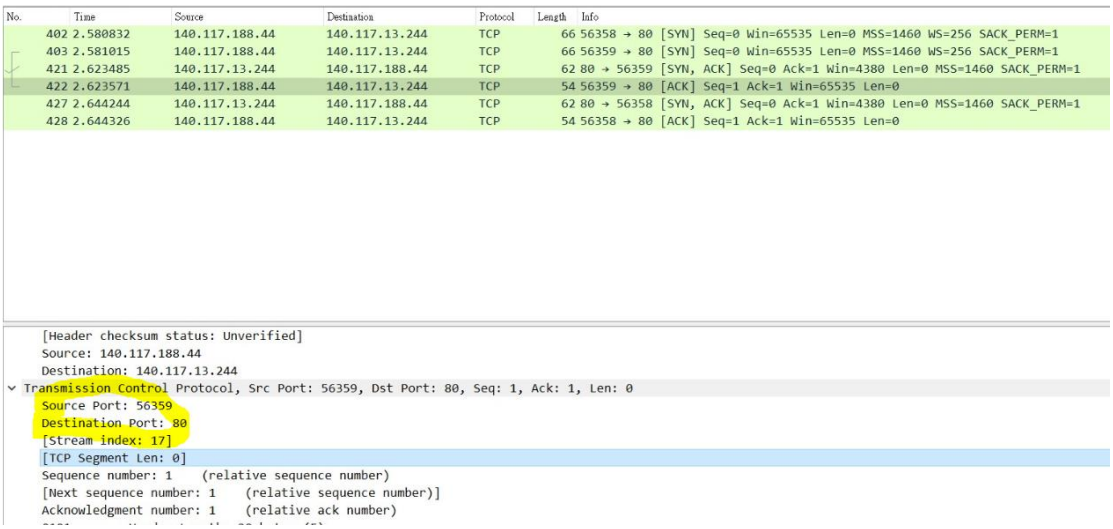
ip.addr == 140.117.13.244

| No. | Time | Source | Destination | Protocol | Length | Info |
|---|---|---|---|---|---|---|
| 402 | 2.580832 | 140.117.188.44 | 140.117.13.244 | TCP | 66 | 56358 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1 |
| 403 | 2.581015 | 140.117.188.44 | 140.117.13.244 | TCP | 66 | 56359 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1 |
| 421 | 2.623485 | 140.117.13.244 | 140.117.188.44 | TCP | 62 | 80 → 56359 [SYN, ACK] Seq=0 Ack=1 Win=4380 Len=0 MSS=1460 SACK_PERM=1 |
| 422 | 2.623571 | 140.117.188.44 | 140.117.13.244 | TCP | 54 | 56359 → 80 [ACK] Seq=1 Ack=1 Win=65535 Len=0 |
| 427 | 2.644244 | 140.117.13.244 | 140.117.188.44 | TCP | 62 | 80 → 56358 [SYN, ACK] Seq=0 Ack=1 Win=4380 Len=0 MSS=1460 SACK_PERM=1 |
| 428 | 2.644326 | 140.117.188.44 | 140.117.13.244 | TCP | 54 | 56358 → 80 [ACK] Seq=1 Ack=1 Win=65535 Len=0 |

```
Frame 402: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface 0
  Interface id: 0 (\Device\NPF_{D4DA5520-9599-41A9-A77C-346D07A07B95})
     Interface name: \Device\NPF_{D4DA5520-9599-41A9-A77C-346D07A07B95}
     Interface description: \344\271\231\345\244\252\347\266\262\350\267\257
  Encapsulation type: Ethernet (1)
  Arrival Time: Sep 26, 2019 23:07:36.590526000 台北標準時間
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1569510456.590526000 seconds
  [Time delta from previous captured frame: 0.000542000 seconds]
  [Time delta from previous displayed frame: 0.000000000 seconds]
  [Time since reference or first frame: 2.580832000 seconds]
  Frame Number: 402
  Frame Length: 66 bytes (528 bits)
  Capture Length: 66 bytes (528 bits)
  [Frame is marked: False]
  [Frame is ignored: False]
  [Protocols in frame: eth:ethertype:ip:tcp]
  [Coloring Rule Name: HTTP]
```

(1) Examine the Transmission Control Protocol

a. What are the ephemeral port number used by the client and the well-known port number used by the server?



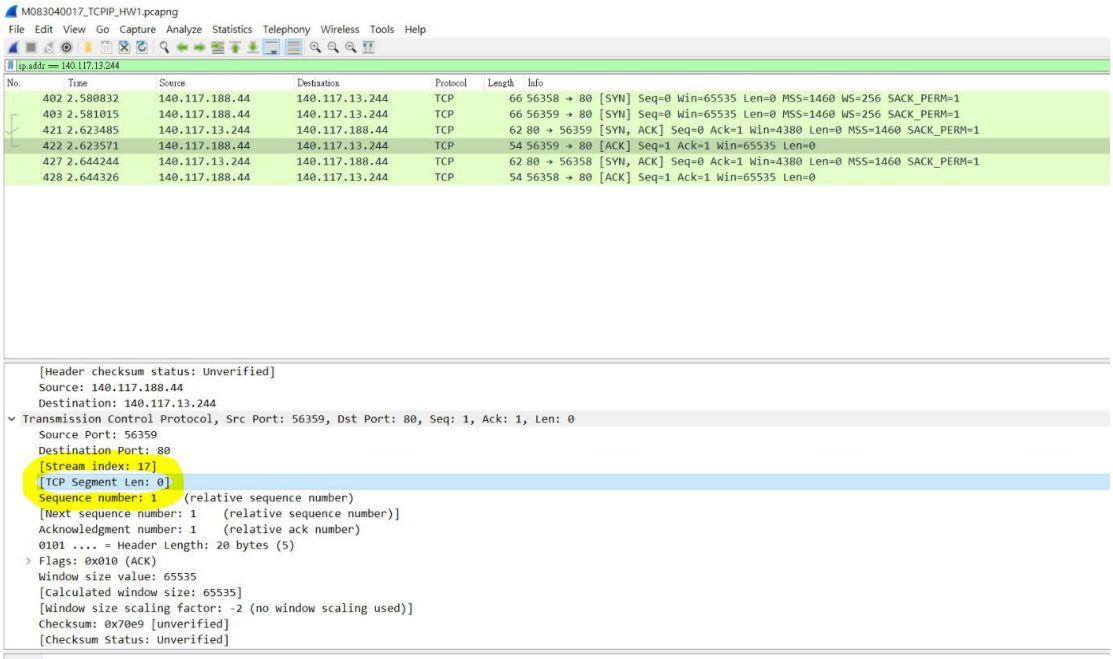
| No. | Time | Source | Destination | Protocol | Length | Info |
|---|---|---|---|---|---|---|
| 402 | 2.580832 | 140.117.188.44 | 140.117.13.244 | TCP | 66 | 56358 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1 |
| 403 | 2.581015 | 140.117.188.44 | 140.117.13.244 | TCP | 66 | 56359 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1 |
| 421 | 2.623485 | 140.117.13.244 | 140.117.188.44 | TCP | 62 | 80 → 56359 [SYN, ACK] Seq=0 Ack=1 Win=4380 Len=0 MSS=1460 SACK_PERM=1 |
| 422 | 2.623571 | 140.117.188.44 | 140.117.13.244 | TCP | 54 | 56359 → 80 [ACK] Seq=1 Ack=1 Win=65535 Len=0 |
| 427 | 2.644244 | 140.117.13.244 | 140.117.188.44 | TCP | 62 | 80 → 56358 [SYN, ACK] Seq=0 Ack=1 Win=4380 Len=0 MSS=1460 SACK_PERM=1 |
| 428 | 2.644326 | 140.117.188.44 | 140.117.13.244 | TCP | 54 | 56358 → 80 [ACK] Seq=1 Ack=1 Win=65535 Len=0 |

```
    [Header checksum status: Unverified]
    Source: 140.117.188.44
    Destination: 140.117.13.244
Transmission Control Protocol, Src Port: 56359, Dst Port: 80, Seq: 1, Ack: 1, Len: 0
    Source Port: 56359
    Destination Port: 80
    [Stream index: 17]
    [TCP Segment Len: 0]
    Sequence number: 1    (relative sequence number)
    [Next sequence number: 1    (relative sequence number)]
    Acknowledgment number: 1    (relative ack number)
```

ephemeral port number: 56359

well-known port number: 80

b. What is the length of the TCP segment?

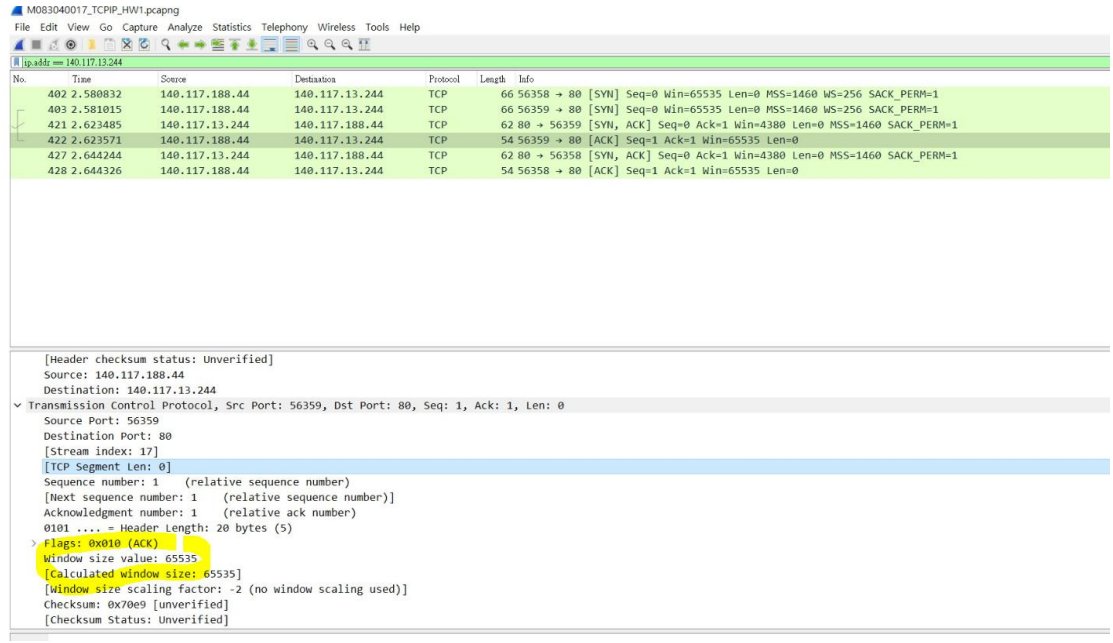



the length of the TCP segment: 0

c. What is the initial sequence number for the segments from the client to the server?

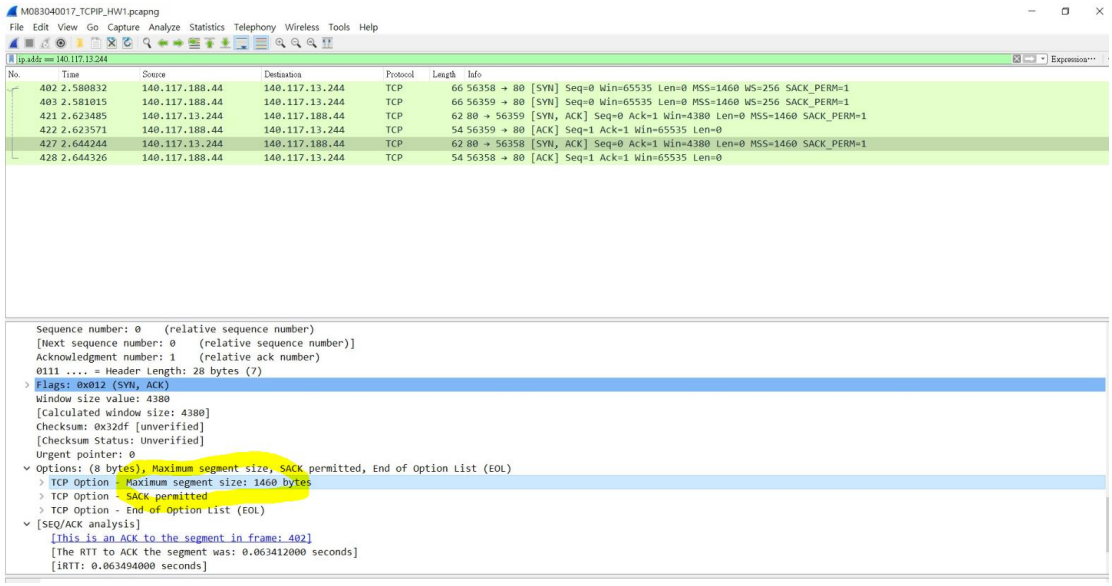
initial sequence number:1

d. What is the initial window size?



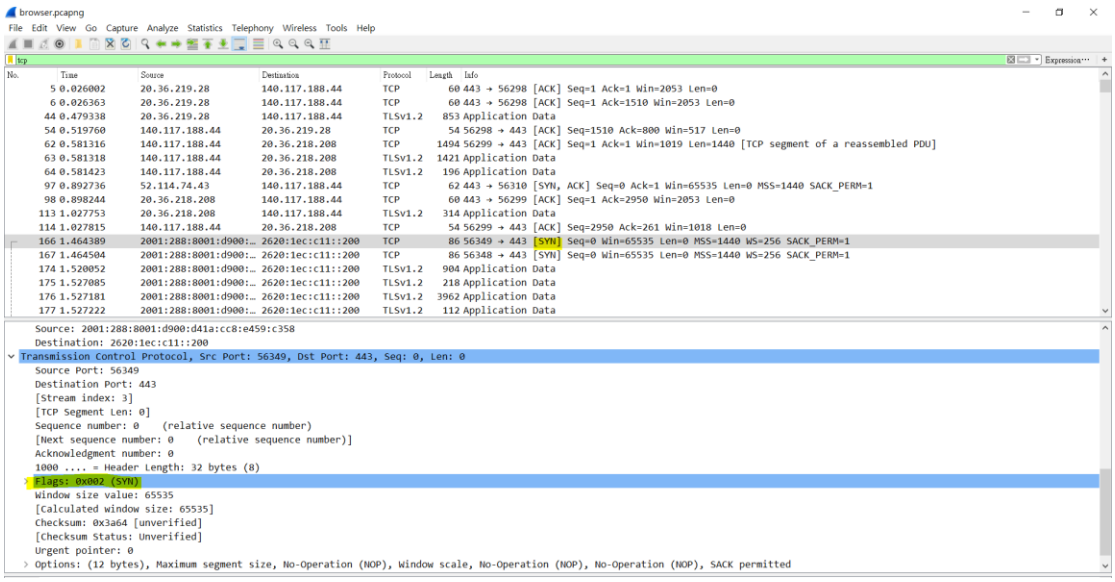

initial window size : 65535

e. What is the maximum segment size?




maximum segment size: 1460bytes

f. Find the hex character that contains the SYN flag bit

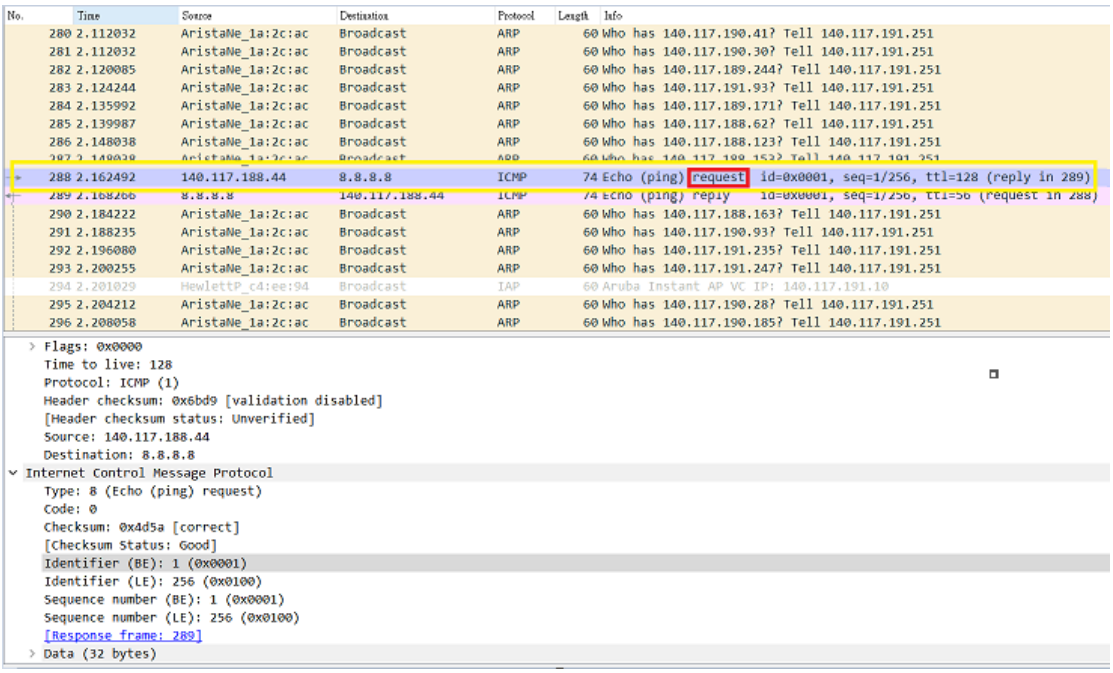



Ans : 0x002

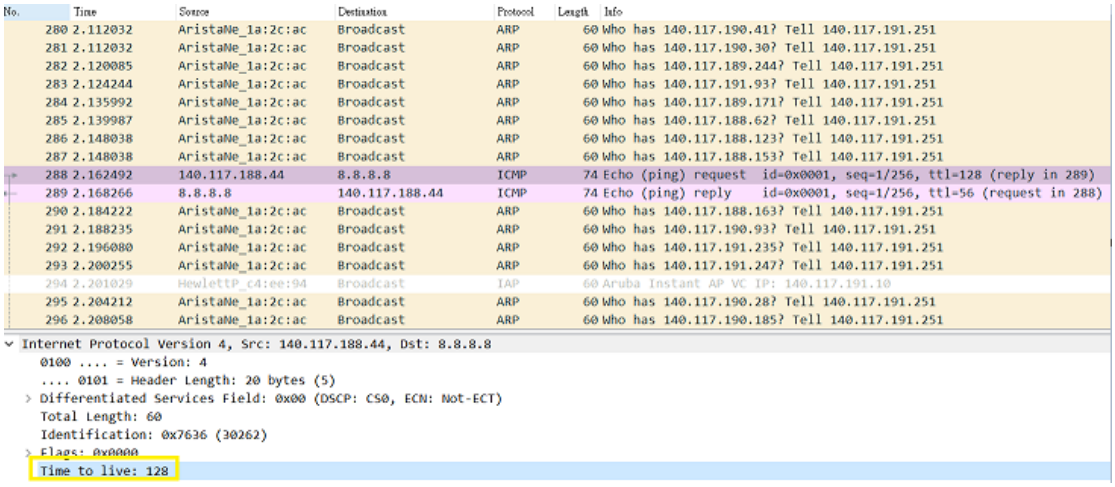
# Part 2 Probing the Internet (ICMP, PING, Traceroute)

### 1. Ping Captured.

(1) Find the first ICMP Echo Request packet.

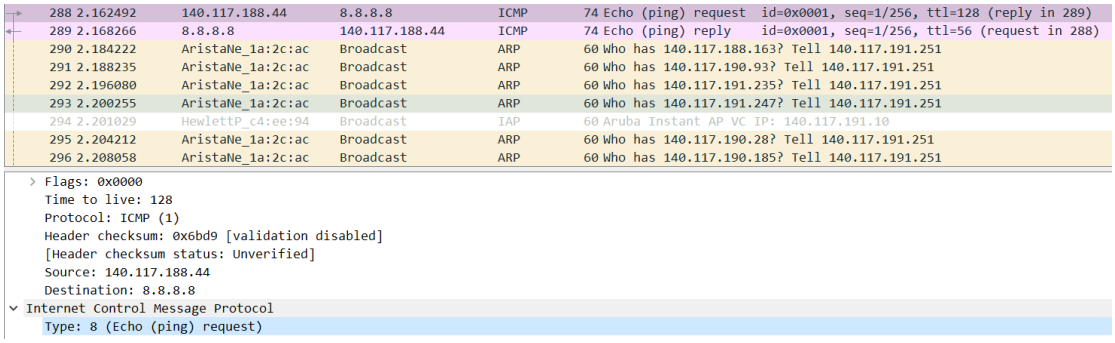



a. First, examine the Internet Protocol. What is the Time-to-Live?



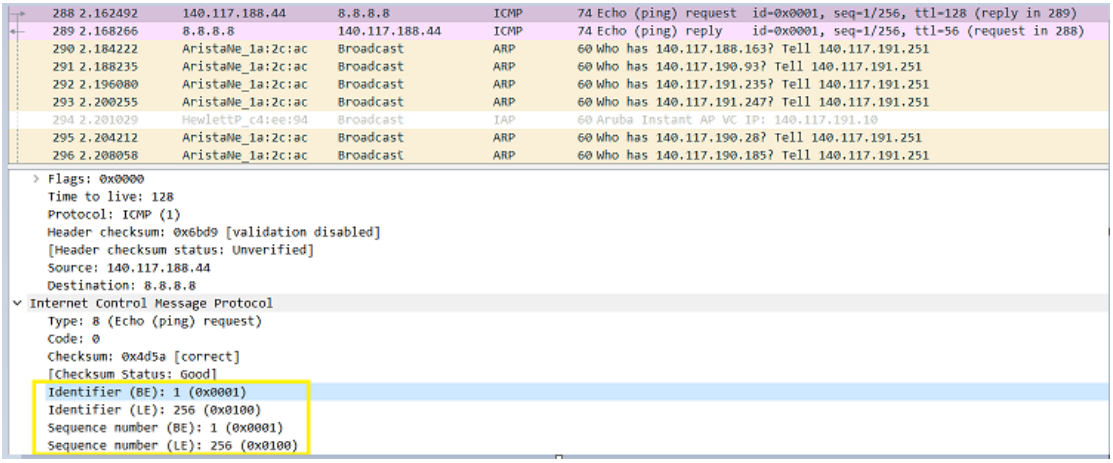

Ans: 128 (sec)

b. Next examine the Internet Control Message Protocol. What is the ICMP message type?




Ans:8(Echo (ping) request)

c. What is the message identifier and sequence number?




Ans:

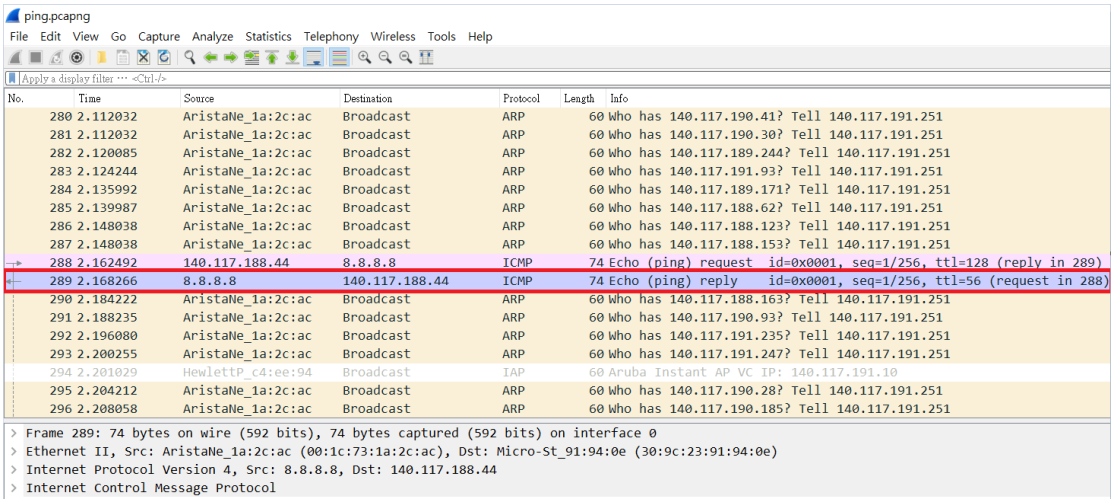
Identifier (BE): 1(0x0001)

Identifier (LE): 256(0x0100)

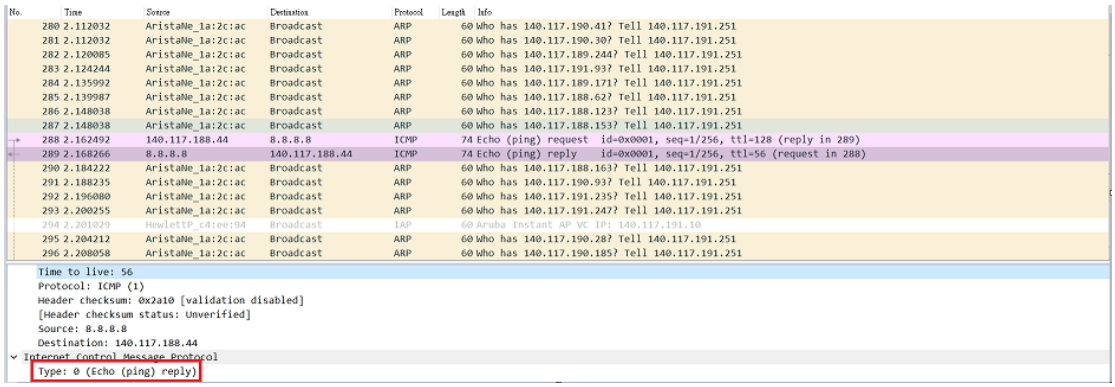
Sequence number (BE): 1 (0x0001)

Sequence number (LE): 256(0x0100)

(2) Find the first ICMP Echo Reply packet.

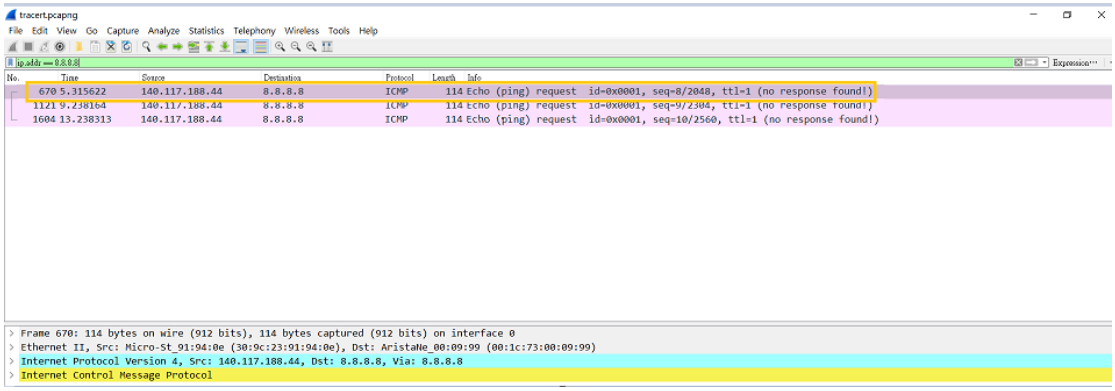



a. Now examine the Internet Control Message Protocol. What is the ICMP message type?

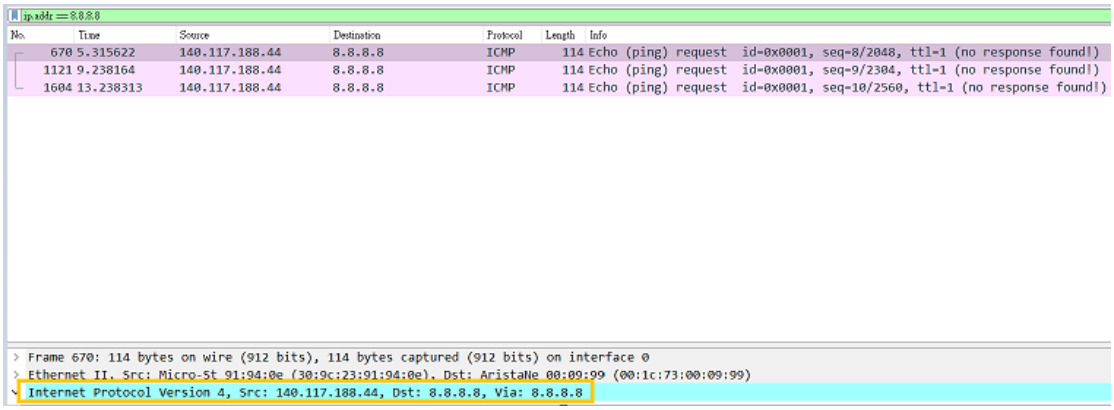



## 2. Traceroute Captured.

(1) Find the first ICMP Echo Request packet.



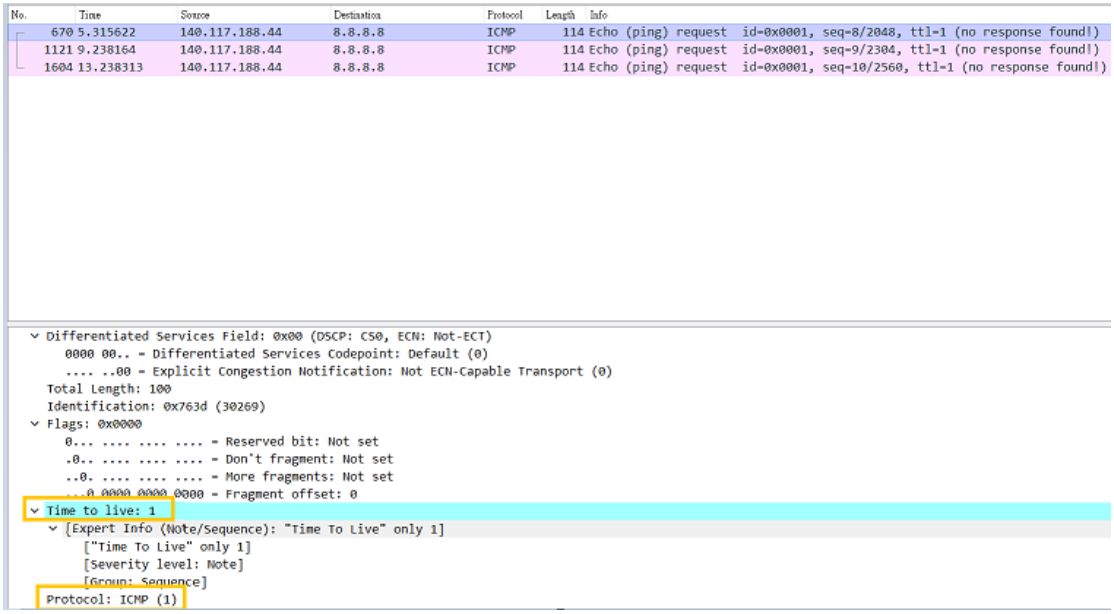

a. Examine the Internet Protocol. What are the source and destination addresses?

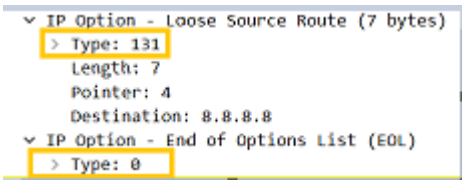



Source : 140.117.188.44

Destination : 8.8.8.8

b. What are the protocol type and the Time-to-Live in the IP packet?

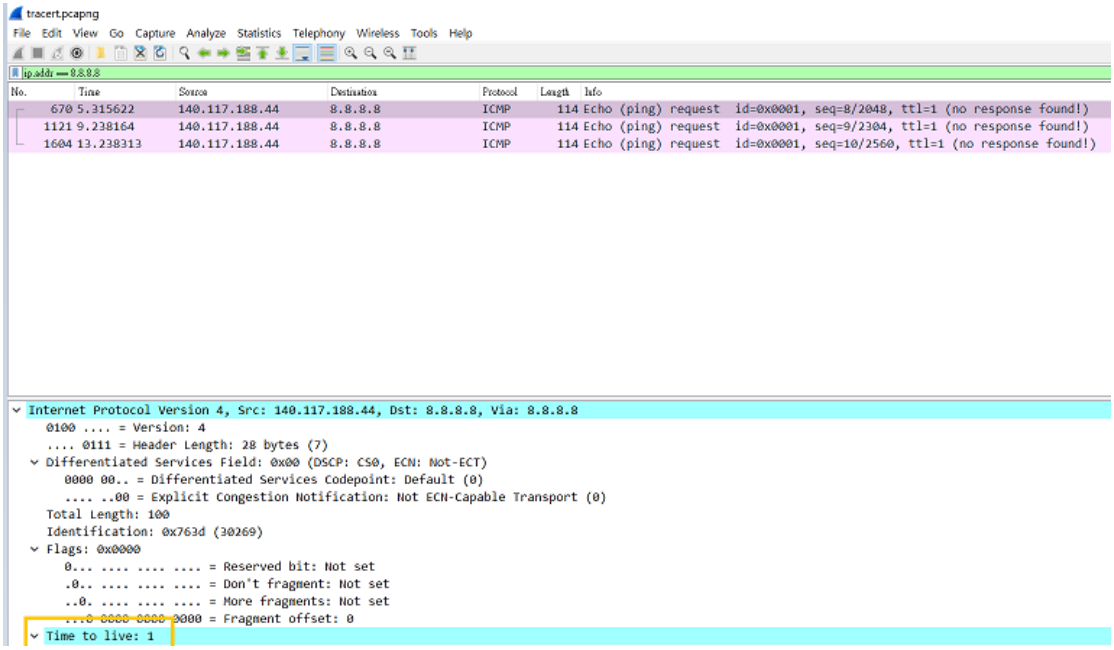



protocol type:

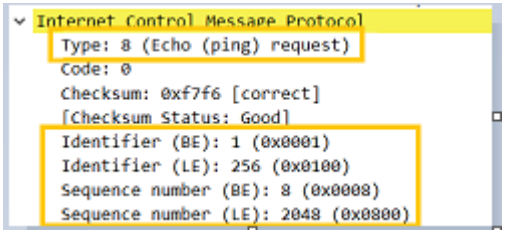
Loose Source Route → 131

End of Options List → 0




Time-to-Live: 1 (sec)

c. Next, examine the Internet Control Message Protocol. What is the ICMP message type? What are the message identifier and sequence number?




ICMP message type : 8 (Echo (ping) request)

message identifier:

(BE) : 1 (0x0001)

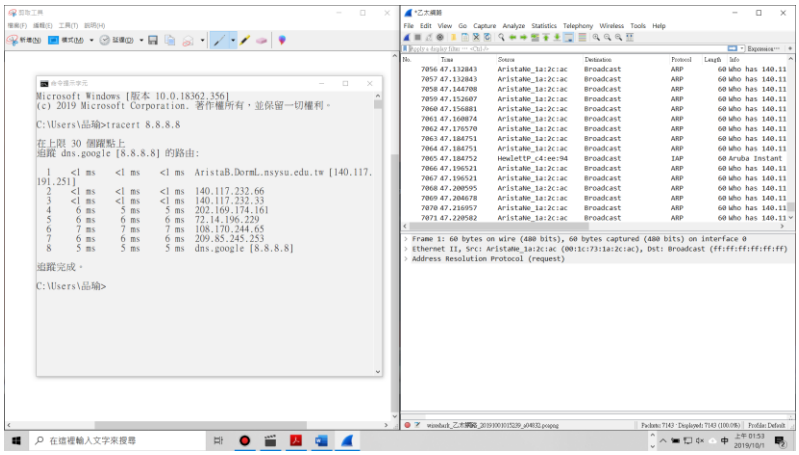
(LE) : 256 (0x0100)

sequence number:

(BE) : 8 (0x0008)

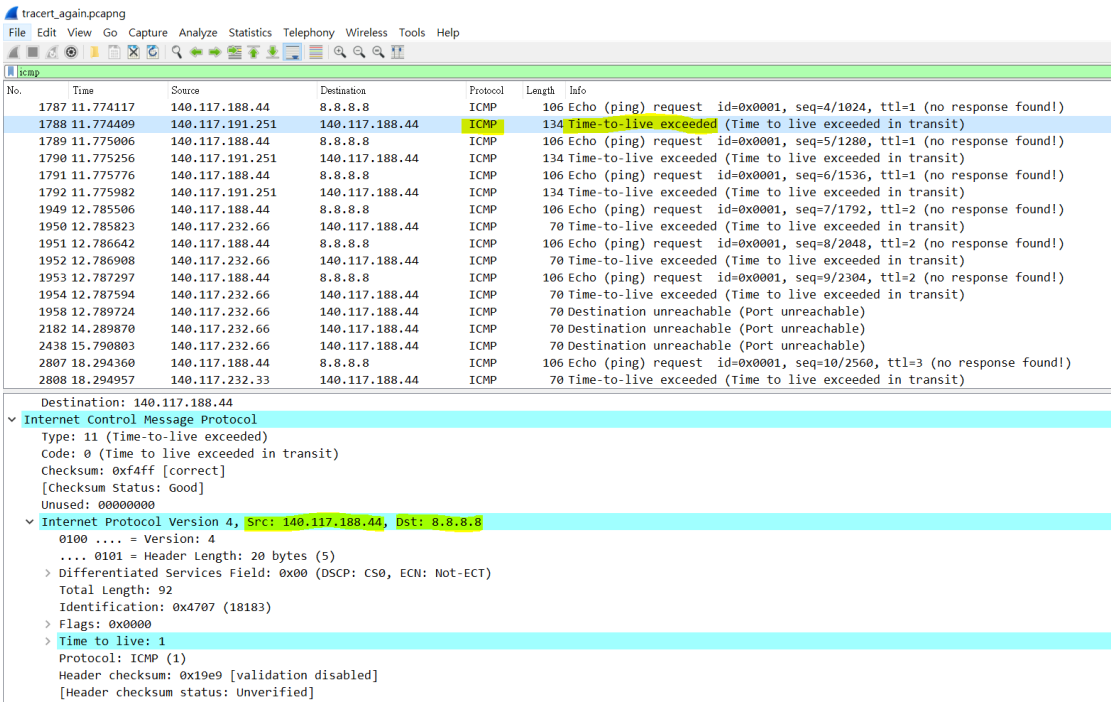
(LE) : 2048 (0x0800)

(2) Find an ICMP Time-to-live exceeded packet.




ICMP Time-to-live exceeded packet ‘s TTL is equal to 0.

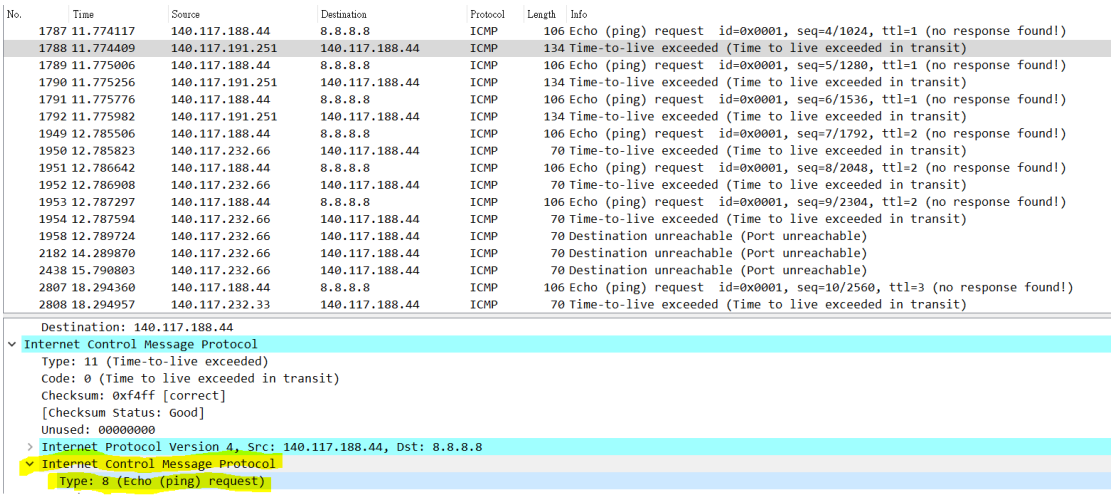
a. Examine the Internet Protocol. What are the source and destination addresses?




Src : 140.117.188.44

Dst : 8.8.8.8

b. Next, examine the Internet Control Message Protocol. What is the ICMP message type?




Type : 8 (Echo (ping) request)

## Part 3 Measuring Network Bandwidth

1. Measure the bandwidth for Transmission Control Protocol Type “iperf3 -c 140.117.171.208 -t 10 -i 2”

```
C:\Users\品瑜\Downloads\iperf-3.1.3-win64\iperf-3.1.3-win64>iperf3 -c 140.117.171.208 -t 10 -i 2
Connecting to host 140.117.171.208, port 5201
[  4] local 140.117.188.44 port 60103 connected to 140.117.171.208 port 5201
[ ID] Interval           Transfer     Bandwidth
[  4]   0.00-2.00   sec  22.8 MBytes  95.4 Mbits/sec
[  4]   2.00-4.00   sec  22.6 MBytes  94.9 Mbits/sec
[  4]   4.00-6.00   sec  22.6 MBytes  94.8 Mbits/sec
[  4]   6.00-8.00   sec  22.6 MBytes  95.0 Mbits/sec
[  4]   8.00-10.00  sec  22.6 MBytes  94.9 Mbits/sec
- - - - - - - - - - - - - - - - - - - - - - - - -
[ ID] Interval           Transfer     Bandwidth
[  4]   0.00-10.00  sec   113 MBytes  95.0 Mbits/sec                  sender
[  4]   0.00-10.00  sec   113 MBytes  95.0 Mbits/sec                  receiver

iperf Done.
```

2. Adjust the window size for Transmission Control Protocol. See what’s different. Type “iperf3 -c 140.117.171.208 -w 2000 -t 10 -i 2”

```
C:\Users\品瑜\Downloads\iperf-3.1.3-win64\iperf-3.1.3-win64>iperf3 -c 140.117.171.208 -w 2000 -t 10 -i 2
Connecting to host 140.117.171.208, port 5201
[  4] local 140.117.188.44 port 60112 connected to 140.117.171.208 port 5201
[ ID] Interval           Transfer     Bandwidth
[  4]   0.00-2.00   sec  2.97 MBytes  12.4 Mbits/sec
[  4]   2.00-4.00   sec  2.78 MBytes  11.7 Mbits/sec
[  4]   4.00-6.00   sec  2.81 MBytes  11.8 Mbits/sec
[  4]   6.00-8.00   sec  3.30 MBytes  13.8 Mbits/sec
[  4]   8.00-10.00  sec  3.02 MBytes  12.7 Mbits/sec
- - - - - - - - - - - - - - - - - - - - - - - - -
[ ID] Interval           Transfer     Bandwidth
[  4]   0.00-10.00  sec  14.9 MBytes  12.5 Mbits/sec                  sender
[  4]   0.00-10.00  sec  14.9 MBytes  12.5 Mbits/sec                  receiver

iperf Done.
```

3. Measure the bandwidth for User Datagram Protocol Type “iperf3 -c 140.117.171.208 -u -t 10 -i 2”

```
C:\Users\品瑜\Downloads\iperf-3.1.3-win64\iperf-3.1.3-win64>iperf3 -c 140.117.171.208 -u -t 10 -i 2
Connecting to host 140.117.171.208, port 5201
[  4] local 140.117.188.44 port 58202 connected to 140.117.171.208 port 5201
[ ID] Interval           Transfer     Bandwidth       Total Datagrams
[  4]   0.00-2.00   sec   272 KBytes  1.11 Mbits/sec  34
[  4]   2.00-4.00   sec   264 KBytes  1.08 Mbits/sec  33
[  4]   4.00-6.00   sec   240 KBytes   984 Kbits/sec  30
[  4]   6.00-8.00   sec   256 KBytes  1.05 Mbits/sec  32
[  4]   8.00-10.00  sec   256 KBytes  1.05 Mbits/sec  32
- - - - - - - - - - - - - - - - - - - - - - - - -
[ ID] Interval           Transfer     Bandwidth       Jitter    Lost/Total Datagrams
[  4]   0.00-10.00  sec  1.26 MBytes  1.06 Mbits/sec  0.285 ms  0/160 (0%)
[  4] Sent 160 datagrams

iperf Done.
```

4. Adjust the bandwidth for User Datagram Protocol. Measure the package lost rate or any else happened.

Type “iperf3 -c 140.117.171.208 -u -t 10 -i 2 -b 512G”

```
C:\Users\品瑜\Downloads\iperf-3.1.3-win64\iperf-3.1.3-win64>iperf3 -c 140.117.171.208 -u -t 10 -i 2 -b 512G
Connecting to host 140.117.171.208, port 5201
[  4] local 140.117.188.44 port 63857 connected to 140.117.171.208 port 5201
[ ID] Interval           Transfer     Bandwidth       Total Datagrams
[  4]   0.00-2.00   sec  23.0 MBytes  96.6 Mbits/sec  2950
[  4]   2.00-4.00   sec  22.8 MBytes  95.8 Mbits/sec  2922
[  4]   4.00-6.00   sec  22.8 MBytes  95.8 Mbits/sec  2922
[  4]   6.00-8.00   sec  22.8 MBytes  95.8 Mbits/sec  2923
[  4]   8.00-10.00  sec  22.8 MBytes  95.8 Mbits/sec  2923
- - - - - - - - - - - - - - - - - - - - - - - - -
[ ID] Interval           Transfer     Bandwidth       Jitter    Lost/Total Datagrams
[  4]   0.00-10.00  sec   114 MBytes  95.9 Mbits/sec  0.358 ms  0/14639 (0%)
[  4] Sent 14639 datagrams

iperf Done.
```