[2023 Advanced Computer Networks Homework 1]

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Part 1: Web Browsing (DNS, TCP)
Protocol Analysis Questions

- 1
- (1) Examine the Ethernet

a.

c.

```
Ethernet II, Src: e2:be:3b:cd:77:9f (e2:be:3b:cd:77:9f), Dst: Fortinet_ce:dc:86 (70:4c:a5:ce:dc:86)
v Destination: Fortinet_ce:dc:86 (70:4c:a5:ce:dc:86)
    Address: Fortinet_ce:dc:86 (70:4c:a5:ce:dc:86)
    .....0. .... = LG bit: Globally unique address (factory default)
                    .... = IG bit: Individual address (unicast)
Source: e2:be:3b:cd:77:9f (e2:be:3b:cd:77:9f)
    Address: e2:be:3b:cd:77:9f (e2:be:3b:cd:77:9f)
    ......1. .... = LG bit: Locally administered address (this is NOT the factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
Ethernet II, Src: e2:be:3b:cd:77:9f (e2:be:3b:cd:77:9f), Dst: Fortinet_ce:dc:86 (70:4c:a5:ce:dc:86)
 > Destination: Fortinet_ce:dc:86 (70:4c:a5:ce:dc:86)
 Source: e2:be:3b:cd:77:9f (e2:be:3b:cd:77:9f)
  Type: IPv4 (0x0800)
(2) Examine the Internet Protocol
Internet Protocol Version 4, Src: 172.20.31.82, Dst: 140.117.13.241
' Internet Protocol Version 4, Src: 172.20.31.82, Dst: 140.117.13.241
     0100 .... = Version: 4
     .... 0101 = Header Length: 20 bytes (5)
  > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 48
     Identification: 0xba69 (47721)
```

```
Internet Protocol Version 4, Src: 172.20.31.82, Dst: 140.117.13.241
    0100 .... = Version: 4
     .... 0101 = Header Length: 20 bytes (5)
  > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 48
    Identification: 0xba69 (47721)
  > 010. .... = Flags: 0x2, Don't fragment
     ...0 0000 0000 0000 = Fragment Offset: 0
    Time to Live: 128
   Protocol: TCP (6)
    Header Checksum: 0x0000 [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 172.20.31.82
    Destination Address: 140.117.13.241
(3) Examine the User Datagram Protocol
a.
Transmission Control Protocol, Src Port: 55746, Dst Port: 443, Seq: 0, Len: 0
    Source Port: 55746
    Destination Port: 443
b.
r Transmission Control Protocol, ≸rc Port: 55746, Dst Port: 443, Seq: 0, Len: 0
    Source Port: 55746
    Destination Port: 443
(4) Examine the Domain Name System (query)
a.
QR (query/response): It is a 1-bit subfield. If its value is 0, the message is of request
type and if its value is 1, the message is of response type.
Domain Name System (query)
    Transaction ID: 0xcb34
 Flags: 0x0100 Standard query
       0... ... = Response: Message is a query
Domain Name System (response)
   Transaction ID: 0x66d9
 ∨ Flags: 0x8180 Standard query response, No error
   1... = Response: Message is a response
.000 0... = Opcode: Standard query (0)
    .... .0.. .... = Authoritative: Server is not 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)
b.
```

```
Domain Name System (query)

Transaction ID: 0xcb34

c.

* Queries

* cse.nsysu.edu.tw: type A, class IN

Name: cse.nsysu.edu.tw

[Name Length: 16]

[Label Count: 4]

Type: A (Host Address) (1)

Class: IN (0x0001)
```

2

(1) Examine the Ethernet

```
Ethernet II, Src: Fortinet ce:dc:86 (70:4c:a5:ce:dc:86), Dst: e2:be:3b:cd:77:9f (e2:be:3b:cd:77:9f)
 Destination: e2:be:3b:cd:77:9f (e2:be:3b:cd:77:9f)
 Source: Fortinet_ce:dc:86 (70:4c:a5:ce:dc:86)
b.
Ethernet II, Src: Fortinet_ce:dc:86 (70:4c:a5:ce:dc:86), Dst: e2:be:3b:cd:77:9f (e2:be:3b:cd:77:9f)
 > Destination: e2:be:3b:cd:77:9f (e2:be:3b:cd:77:9f)
  Source: Fortinet_ce:dc:86 (70:4c:a5:ce:dc:86)
  Type: IPv4 (0x0800)
(2) Examine the Internet Protocol & Domain Name System (response)
Internet Protocol Version 4, Src: 168.95.1.1, Dst: 172.20.31.82
b.
Internet Protocol Version 4, Src: 168.95.1.1, Dst: 172.20.31.82
   0100 .... = Version: 4
   .... 0101 = Header Length: 20 bytes (5)
 > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
   Total Length: 78
   Identification: 0xee9d (61085)
Compare with query, total packet length is longer than query.
c.
Answers
   Name: cse.nsysu.edu.tw
        Type: A (Host Address) (1)
        Class: IN (0x0001)
         Time to live: 300 (5 minutes)
        Data length: 4
```

The response DNS message contains one answer.

Address: 140.117.13.241

Time-to-live values: 0.067572000 seconds.

Time: 0.067572000 seconds]

[Request In: 2733]

3.

```
3303 4.072539 172.20.31.82 140.117.13.241 TCP 62 55749 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM
3304 4.076002 140.117.13.241 172.20.31.82 TCP 62 443 → 55749 [SYN, ACK] Seq=0 Ack=1 Win=13860 Len=0 MSS=1386 SACK_PERM
3305 4.076093 172.20.31.82 140.117.13.241 TCP 54 55749 → 443 [ACK] Seq=1 Ack=1 Win=64240 Len=0
```

a.

Transmission Control Protocol, Src Port: 55749, Dst Port: 443, !

Source Port: 55749
Destination Port: 443

b.

```
Frame 3305: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface \Device\NPF_{74E44C44-DDE3-4F9A-9E49-BDDC86B167E3}, id 0
Ethernet II, Src: e2:be:3b:cd:77:9f (e2:be:3b:cd:77:9f), Dst: Fortinet_ce:dc:86 (70:4c:a5:ce:dc:86)
Internet Protocol Version 4, Src: 172.20.31.82, Dst: 140.117.13.241
Transmission Control Protocol, Src Port: 55749, Dst Port: 443, Seq: 1, Ack: 1, Len: 0
Source Port: 55749
Destination Port: 443
[Stream index: 52]
[Conversation completeness: Complete, WITH_DATA (63)]
[TCP Segment Len: 0]
```

c.

No.3303: initial sequence number: 1124289852

No.3305: initial sequence number: 1124289853



ISN +1

```
> Ethernet II, Src: e2:be:3b:cd:77:9f (e2:be:3b:cd:77:9f), Dst: Fortinet_ce:dc:86 (70:4c:a5:ce:dc:86)
> Internet Protocol Version 4, Src: 172.20.31.82, Dst: 140.117.13.241
Transmission Control Protocol, Src Port: 55749, Dst Port: 443, Seq: 0, Len: 0
    Source Port: 55749
    Destination Port: 443
    [Stream index: 52]
    [Conversation completeness: Complete, WITH_DATA (63)]
    [TCP Segment Len: 0]
    Seguence Number: 0
                       (relative sequence number)
    Sequence Number (raw): 1124289852
    [Next Sequence Number: 1
                            (relative sequence number)]
    Acknowledgment Number: 0
    Acknowledgment number (raw): 0
    0111 .... = Header Length: 28 bytes (7)
   Flags: 0x002 (SYN)
    Window: 64240
   [Calculated window size: 64240]
  Ethernet II, Src: Fortinet_ce:dc:86 (70:4c:a5:ce:dc:86), Dst: e2:be:3b:cd:77:9f (e2:be:3b:cd:77:9f)
   Internet Protocol Version 4, Src: 140.117.13.241, Dst: 172.20.31.82
Transmission Control Protocol, Src Port: 443, Dst Port: 55749, Seq: 0, Ack: 1, Len: 0
     Source Port: 443
     Destination Port: 55749
     [Stream index: 52]
     [Conversation completeness: Complete, WITH_DATA (63)]
     [TCP Segment Len: 0]
     Sequence Number: 0
                           (relative sequence number)
     Sequence Number (raw): 4025359839
     [Next Sequence Number: 1 (relative sequence number)]
     Acknowledgment Number: 1
                                (relative ack number)
     Acknowledgment number (raw): 1124289853
     0111 .... = Header Length: 28 bytes (7)
     Flags: 0x012 (SYN, ACK)
     Window: 13860
     [Calculated window size: 13860]
Ethernet II, Src: e2:be:3b:cd:77:9f (e2:be:3b:cd:77:9f), Dst: Fortinet_ce:dc:86 (70:4c:a5:ce:dc:86)
Internet Protocol Version 4, Src: 172.20.31.82, Dst: 140.117.13.241
Transmission Control Protocol, Src Port: 55749, Dst Port: 443, Seq: 1, Ack: 1, Len: 0
    Source Port: 55749
    Destination Port: 443
    [Stream index: 52]
    [Conversation completeness: Complete, WITH_DATA (63)]
    [TCP Segment Len: 0]
    Sequence Number: 1
                           (relative sequence number)
    Sequence Number (raw): 1124289853
    [Next Sequence Number: 1 (relative sequence number)]
    Acknowledgment Number: 1
                                (relative ack number)
    Acknowledgment number (raw): 4025359840
    0101 .... = Header Length: 20 bytes (5)
    Flags: 0x010 (ACK)
    Window: 64240
    [Calculated window size: 64240]
```

e.

3303 4.072539	172.20.31.82	140.117.13.241	TCP	62 55749 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM
3304 4.076002	140.117.13.241	172.20.31.82	TCP	62 443 → 55749 [SYN, ACK] Seq=0 Ack=1 Win=13860 Len=0 MSS=1386 SACK_PERM
3305 4.076093	172.20.31.82	140.117.13.241	TCP	54 55749 → 443 [ACK] Sea=1 Ack=1 Win=64240 Len=0

v Options: (8 bytes), Maximum segment size, No-Operation (MP), No-Operation (NOP), SACK permitted

TCP Option - Maximum segment size: 1460 bytes
Kind: Maximum Segment Size (2)

Length: 4 MSS Value: 1460

.... 0 = Fin: Not set

[TCP Flags:A..S.]

```
∨ Options: (8 by<u>tes), Maximum segment size, SACK per</u>m≰ted, End of Option List (EOL), End of Option List (EOL)

▼ TCP Option - Maximum segment size: 1386 bytes

                 Kind: Maximum Segment Size (2)
                 Length: 4
                 MSS Value: 1386
           f.
Flags: 0x002 (SYN)
  000. .... = Reserved: Not set
  ...0 .... = Accurate ECN: Not set

▼ Flags: 0x010 (ACK)

  .... 0... = Congestion Window Reduced: Not set
                                                             000. .... = Reserved: Not set
  .... .0.. .... = ECN-Echo: Not set
                                                             ...0 .... = Accurate ECN: Not set
  .... ..0. .... = Urgent: Not set
                                                             .... 0... = Congestion Window Reduced: Not set
  .... ...0 .... = Acknowledgment: Not set
                                                             .... .0.. .... = ECN-Echo: Not set
  .... 0... = Push: Not set
                                                             .... ..0. .... = Urgent: Not set
   .... .... .0.. = Reset: Not set
                                                             .... - Acknowledgment: Set
> .... .... ..1. = Syn: Set
                                                             .... 0... = Push: Not set
  .... .... 0 = Fin: Not set
                                                             .... .... .0.. = Reset: Not set
Flags: 0x012 (SYN, ACK)
                                                            .... .... ..0. = Syn: Not set
   000. .... = Reserved: Not set
                                                             .... .... 0 = Fin: Not set
   ...0 .... = Accurate ECN: Not set
                                                             [TCP Flags: ······A····]
   .... 0... = Congestion Window Reduced: Not set
   .... .0.. .... = ECN-Echo: Not set
   .... ..0. .... = Urgent: Not set
   .... = Acknowledgment: Set
   .... 0... = Push: Not set
   .... .... .0.. = Reset: Not set
 > .... .... ..1. = Syn: Set
```

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

• 1. Ping Captured

(1)

a.

```
> Frame 186: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface \Device\NPF_{B98FB856-C6FF-43F2-8C
> Ethernet II, Src: ASUSTekC_57:d6:6b (0c:9d:92:57:d6:6b), Dst: JuniperN_79:5a:a4 (e0:30:f9:79:5a:a4)

✓ Internet Protocol Version 4, Src: 10.1.0.183, Dst: 8.8.8.8

    0100 .... = Version: 4
     .... 0101 = Header Length: 20 bytes (5)
  > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 60
    Identification: 0x31f9 (12793)
  > 000. .... = Flags: 0x0
      .0 0000 0000 0000 = Fragment Offset: 0
   Time to Live: 128
    Protocol: ICMP (1)
    Header Checksum: 0x0000 [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 10.1.0.183
    Destination Address: 8.8.8.8
> Internet Control Message Protocol
```

b.

```
    Internet Control Message Protocol

    Type: 8 (Echo (ping) request)
     Code: 0
     Checksum: 0x4d53 [correct]
     [Checksum Status: Good]
     Identifier (BE): 1 (0x0001)
     Identifier (LE): 256 (0x0100)
     Sequence Number (BE): 8 (0x0008)
     Sequence Number (LE): 2048 (0x0800)
     [Response frame: 188]
   > Data (32 bytes)
C.

▼ Internet Control Message Protocol

     Type: 8 (Echo (ping) request)
     Code: 0
     Checksum: 0x4d53 [correct]
     [Checksum Status: Good]
     Identifier (BE): 1 (0x0001)
     Identifier (LE): 256 (0x0100)
     Sequence Number (BE): 8 (0x0008)
     Sequence Number (LE): 2048 (0x0800)
```

[Response frame: 188]

> Data (32 bytes)

(2)

a.

```
> Frame 188: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface \Device\NPF_{B98F8856-C6FF-43F2-8C}
> Ethernet II, Src: JuniperN_79:5a:a4 (e0:30:f9:79:5a:a4), Dst: ASUSTekC_57:d6:6b (0c:9d:92:57:d6:6b)
> Internet Protocol Version 4, Src: 8.8.8.8, Dst: 10.1.0.183

** Internet Control Message Protocol

| Type: 0 (Echo (ping) reply)
| Code: 0 |
| Checksum: 0x5553 [correct]
| [Checksum Status: Good]
| Identifier (BE): 1 (0x0001)
| Identifier (BE): 256 (0x0100)
| Sequence Number (BE): 8 (0x0008)
| Sequence Number (LE): 2048 (0x0800)
| [Request frame: 186]
| [Response time: 40.694 ms]

> Data (32 bytes)
```

• 2 Traceroute Captured

(1)

a.

```
> Frame 31: 106 bytes on wire (848 bits), 106 bytes captured (848 bits) on interface \Device\NPF {B98FB856-C6FF-43F2-86
 Ethernet II, Src: ASUSTekC_57:d6:6b (0c:9d:92:57:d6:6b), Dst: JuniperN_79:5a:a4 (e0:30:f9:79:5a:a4)
Internet Protocol Version 4, Src: 10.1.0.183, Dst: 8.8.8.8
    0100 .... = Version: 4
      ... 0101 = Header Length: 20 bytes (5)
  > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 92
    Identification: 0x31fd (12797)
  > 000. .... = Flags: 0x0
     ...0 0000 0000 0000 = Fragment Offset: 0
  > Time to Live: 1
    Protocol: ICMP (1)
    Header Checksum: 0x0000 [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 10.1.0.183
    Destination Address: 8.8.8.8
> Internet Control Message Protocol
```

b.

```
> Frame 31: 106 bytes on wire (848 bits), 106 bytes captured (848 bits) on interface \Device\NPF_{898F8856-C6FF-43F2'}
> Ethernet II, Src: ASUSTekC_57:d6:6b (0c:9d:92:57:d6:6b), Dst: JuniperN_79:5a:a4 (e0:30:f9:79:5a:a4)

> Internet Protocol Version 4, Src: 10.1.0.183, Dst: 8.8.8.8

0100 .... = Version: 4

.... 0101 = Header Length: 20 bytes (5)

> Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)

Total Length: 92

Identification: 0x31fd (12797)

> 000. .... = Flags: 0x0

...0 0000 0000 0000 Fragment Offset: 0

Time to Live: 1

Protocol: ICMP (1)
```

c.

```
> Frame 31: 106 bytes on wire (848 bits), 106 bytes captured (848 bits) on interface \Device\NPF_{898FB856-C6FF-43F2-8}
> Ethernet II, Src: ASUSTekC_57:d6:6b (0c:9d:92:57:d6:6b), Dst: JuniperN_79:5a:a4 (e0:30:f9:79:5a:a4)

Internet Protocol Version 4, Src: 10.1.0.183, Dst: 8.8.8.8

Internet Control Message Protocol

Type: 8 (Echo (ping) request)

Code: 0

Checksum: 0xf7f2 [correct]

[Checksum Status: Good]

Identifier (BE): 1 (0x0001)

Identifier (BE): 12 (0x0000)

Sequence Number (BE): 12 (0x000c)

Sequence Number (BE): 3072 (0x0c00)

[No response seen]

Data (64 bytes)
```

```
> Frame 32: 70 bytes on wire (560 bits), 70 bytes captured (560 bits) on interface \Device\NPF_{898FB856-C6FF-43F2-8C5
> Ethernet II, Src: JuniperN 79:5a:a4 (e0:30:f9:79:5a:a4), Dst: ASUSTekC 57:d6:6b (0c:9d:92:57:d6:6b)
Internet Protocol Version 4, Src: 10.1.1.254, Dst: 10.1.0.183
    0100 .... = Version: 4
     ... 0101 = Header Length: 20 bytes (5)
  > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 56
    Identification: 0x75c5 (30149)
  > 000. .... = Flags: 0x0
    ...0 0000 0000 0000 = Fragment Offset: 0
    Time to Live: 254
    Protocol: ICMP (1)
    Header Checksum: 0x3049 [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 10.1.1.254
    Destination Address: 10.1.0.183
```

b.

```
> Frame 32: 70 bytes on wire (560 bits), 70 bytes captured (560 bits) on interface \Device\NPF_{898F8856-C6FF-43F2-8C55}
> Ethernet II, Src: JuniperN_79:5a:a4 (e0:30:f9:79:5a:a4), Dst: ASUSTekC_57:d6:6b (0c:9d:92:57:d6:6b)
> Internet Protocol Version 4, Src: 10.1.1.254, Dst: 10.1.0.183

V Internet Control Message Protocol
Type: 11 (Time-to-live exceeded)
Code: 0 (Time to live exceeded in transit)
Checksum: 0xf4ff [correct]
[Checksum Status: Good]
Unused: 00000000
> Internet Protocol Version 4, Src: 10.1.0.183, Dst: 8.8.8.8
> Internet Control Message Protocol
```

• 3

Part 3 Measuring Network Bandwidth

1.

```
briansu@ubuntu:-$ iperf3 -c 140.117.171.20 -t 10 -i 2
Connecting to host 140.117.171.20, port 5201
  4] local 10.0.2.15 port 36966 connected to 140.117.171.20 port 5201
                                   Bandwidth
 ID] Interval
                       Transfer
                                                Retr Cwnd
       0.00-2.00 sec 54.1 MBytes
  4]
                                     227 Mbits/sec
                                                        67.0 KBytes
  4]
       2.00-4.00 sec 42.2 MBytes
                                    177 Mbits/sec
                                                     0 67.0 KBytes
  4]
                  sec 46.9 MBytes
                                    197 Mbits/sec
                                                     0 67.0 KBytes
       4.00-6.00
       6.00-8.00
                  sec 53.3 MBytes
                                    223 Mbits/sec
                                                     0
                                                        67.0 KBytes
       8.00-10.00 sec 50.3 MBytes
                                    211 Mbits/sec
                                                     0
                                                        67.0 KBytes
 ID] Interval
                       Transfer
                                    Bandwidth
                                                   Retr
  4]
       0.00-10.00 sec 247 MBytes
                                    207 Mbits/sec
                                                     0
                                                                  sender
       0.00-10.00 sec 246 MBytes 207 Mbits/sec
                                                                  receiver
iperf Done.
```

2. After adjust the window size, Different: Transfer lower, Bandwidth smaller

```
briansu@ubuntu:~$ iperf3 -c 140.117.171.20 -w 2000 -t 10 -i 2
Connecting to host 140.117.171.20, port 5201
 4] local 10.0.2.15 port 49078 connected to 140.117.171.20 port 5201
                      Transfer Bandwidth
[ ID] Interval
                                                Retr Cwnd
      0.00-2.00 sec 3.55 MBytes 14.9 Mbits/sec
 4]
                                                     143 KBytes
                                                  0
       2.00-4.00 sec 2.75 MBytes 11.6 Mbits/sec
 4]
                                                 0
                                                     143 KBytes
 4] 4.00-6.01 sec 3.14 MBytes 13.1 Mbits/sec
                                                 0 143 KBytes
     6.01-8.00 sec 3.20 MBytes 13.5 Mbits/sec
                                                 0 143 KBytes
  4]
      8.00-10.00 sec 2.88 MBytes 12.1 Mbits/sec
                                                 0 143 KBytes
[ ID] Interval
                      Transfer Bandwidth
                                                Retr
       0.00-10.00 sec 15.5 MBytes 13.0 Mbits/sec
  4]
                                                 0
                                                              sender
 4] 0.00-10.00 sec 15.4 MBytes 12.9 Mbits/sec
                                                              receiver
iperf Done.
```

3.

```
briansu@ubuntu: $ iperf3 -c 140.117.171.20 -u -t 10 -i 2 -b 512G
Connecting to host 140.117.171.20, port 5201
[ 4] local 10.0.2.15 port 55300 connected to 140.117.171.20 port 5201
                                                Total Datagrams
[ ID] Interval
                Transfer Bandwidth
[ 4] 0.00-2.00 sec 381 MBytes
                                 1.60 Gbits/sec 48783
       2.00-4.00 sec 386 MBytes
                                  1.62 Gbits/sec
                                                49425
      4.00-6.00 sec 391 MBytes
                                  1.64 Gbits/sec
                                  1.56 Gbits/sec 47586
[ 4] 6.00-8.00 sec 372 MBytes
[ 4] 8.00-10.00 sec 381 MBytes
                                  1.60 Gbits/sec 48827
[ ID] Interval
                                                Jitter Lost/Total Datag
                     Transfer
                                  Bandwidth
rams
[ 4] 0.00-10.00 sec 1.87 GBytes 1.60 Gbits/sec 0.095 ms 146669/244654 (6
0%)
[ 4] Sent 244654 datagrams
iperf Done.
```

4. There is no package lost

```
briansu@ubuntu:~$ iperf3 -c 140.117.171.20 -u -t 10 -i 2
Connecting to host 140.117.171.20, port 5201
 4] local 10.0.2.15 port 60328 connected to 140.117.171.20 port 5201
 ID] Interval
                     Transfer Bandwidth
                                              Total Datagrams
  4] 0.00-2.00 sec 256 KBytes 1.05 Mbits/sec 32
      2.00-4.00
                      256 KBytes 1.05 Mbits/sec 32
      4.00-6.00
                      256 KBytes 1.05 Mbits/sec
      6.00-8.00 sec 256 KBytes 1.05 Mbits/sec 32
  4] 8.00-10.01 sec 256 KBytes 1.05 Mbits/sec 32
                     Transfer Bandwidth
                                              Jitter Lost/Total Datag
[ ID] Interval
 4] 0.00-10.01 sec 1.25 MBytes 1.05 Mbits/sec 0.413 ms 0/159 (0%)
 4] Sent 159 datagrams
iperf Done.
```