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LAB TASK 9

1. What is the source and destination port numbers?

When sending from client to server.

Source-> 60643 Port-> 80

```
Wireshark · Packet 1 · trace-tcp (1).pcap

    Frame 1: 78 bytes on wire (624 bits), 78 bytes captured (624 bits)
    Ethernet II, Src: Apple_ac:6c:26 (10:9a:dd:ac:6c:26), Dst: Cisco-Li_e3:e9:8d (00:16:b6:e3:e9:8d)
    Internet Protocol Version 4, Src: 192.168.1.122, Dst: 64.238.147.113

Transmission Control Protocol, Src Port: 60643, Dst Port: 80, Seq: 0, Len: 0
      Source Port: 60643
     Destination Port: 80
      [Stream index: 0]
      [Conversation completeness: Complete, WITH_DATA (31)]
      [TCP Segment Len: 0]
      Sequence Number: 0
                                    (relative sequence number)
     Sequence Number (raw): 2682012317
[Next Sequence Number: 1 (relative sequence number)]
      Acknowledgment Number: 0
     Acknowledgment number (raw): 0
                                                                                00 16 b6 e3 e9 8d 10 9a
00 40 9f 8a 40 00 40 06
93 71 ec e3 00 50 9f dc
                                            dd ac 6c 26 08 00 45 00
0010
                                           04 ac c0 a8 01 7a 40 ee
42 9d 00 00 00 00 b0 02
         ff ff 22 12 00 00 02 04
        08 0a 0f 4c 9f 71 00 00
                                           00 00 04 02 00 00
                                                                                 \cdots \cdot L \cdot q \cdots \cdots \cdots
```

When server send acknowlegment to client that he is available.

```
Apply a display filter ... <Ctrl-/>
                                                                          Protocol Length Info
                          192.168.1.122
        1 0.000000
                                                                                        78 60643 → 80 [SYN] Seq=0 Win=6553
                                                  64.238.147.113
                                                                          TCP
        2 0.088010
                                                  192.168.1.122
                                                  64.238.147.113
        3 0.088080
                          192.168.1.122
                                                                          TCP
                                                                                        66 60643 - 80 [ACK] Seq=1 Ack=1 Win
                          192.168.1.122
        4 0.088579
                                                  64.238.147.113
                                                                          HTTP
                                                                                       257 GET /sigcomm/2011/papers/sigcomm
                                                                                      66 80 → 60643 [ACK] Seq=1 Ack=192 \
311 80 → 60643 [PSH, ACK] Seq=1 Ack=
66 60643 → 80 [ACK] Seq=192 Ack=24
        5 0.177819
                          64.238.147.113
                                                  192.168.1.122
                                                                          TCP
                         64.238.147.113
192.168.1.122
                                                                          TCP
        6 0.178321
                                                  192.168.1.122
64.238.147.113
        7 0.178388
                                                                          TCP
  Frame 2: 74 bytes on wire (592 bits), 74 bytes captured (592 bits)
  Ethernet II, Src: Cisco-Li_e3:e9:8d (00:16:b6:e3:e9:8d), Dst: Apple_ac:6c:26 (10:9a:dd:ac:6c:26)
 Internet Protocol Version 4, Src: 64.238.147.113, Dst: 192.168.1.122
Transmission Control Protocol, Src Port: 80, Dst Port: 60643, Seq: 0, Ack: 1, Len: 0
     Source Port: 80
     Destination Port: 60643
     [Stream index: 0]
     [Conversation completeness: Complete, WITH_DATA (31)]
     [TCP Segment Len: 0]
     Sequence Number: 0 (relative sequence number)
     Sequence Number (raw): 349487776
     [Next Sequence Number: 1 (relative sequence number)]
Acknowledgment Number: 1 (relative ack number)
                                     (relative ack number)
     Acknowledgment number (raw): 2682012318
     1010 .... = Header Length: 40 bytes (10)
```

When client is confirmed that i have to send data to this server

2. What is the sequence number of the TCP SYN segment that is used to initiate the TCP connection? What is it in the segment that identifies the segment as a SYN segment?

```
Sequence Number: 0 (relative sequence number)
Sequence Number (raw): 2682012317
[Next Sequence Number: 1 (relative sequence number)]
```

The segment that identifies the segment as a SYN segment is the flag ,as the flag is set to 1 that means tcp connection is esbalished.

```
      ▼ Flags: 0x002 (SYN)

      000. . . . . . . = Reserved: Not set

      . . . 0 . . . . . = Nonce: Not set

      . . . 0 . . . . = Congestion Window Reduced (CWR): Not set

      . . . . 0 . . . . = ECN-Echo: Not set

      . . . . 0 . . . = Urgent: Not set

      . . . . 0 . . . = Acknowledgment: Not set

      . . . . 0 . . = Push: Not set

      . . . . . 0 . = Reset: Not set

      . . . . . . 0 = Fin: Not set
```

3. What is the sequence number of the SYNACK segment sent by the server to the client computer in reply to the SYN? What is the value of the Acknowledgement field in the SYNACK segment? How did server determine that value? What is it in the segment that identifies the segment as a SYNACK segment?

sequence number of the SYNACK segment-> 0
Acknowledgement field in the SYNACK segment->1

The value is determined by the initial sequence number +1.

```
Frame 2: 74 bytes on the (592 bits), 74 bytes captured (592 bits)
Fithernet II, Src: Cisco-Li_e3:e9:8d (00:16:b6:e3:e9:8d), Dst: Apple_ac:6c:26 (10:9a:dd:ac:6c:26)
Internet Protocol Version 4, Src: 64.238.147.113, Dst: 192.168.1.122
Transmission Control Protocol, Src Port: 80, Dst Port: 60643, Seq: 0, Ack: 1, Len: 0
Source Port: 80
Destination Port: 60643
[Stream index: 0]
[Conversation completeness: Complete, WITH_DATA (31)]
[TCP Segment Len: 0]
Sequence Number: 0 (relative sequence number)
Sequence Number (raw): 349487776
[Next Sequence Number: 1 (relative sequence number)]
Acknowledgment Number: 1 (relative ack number)
Acknowledgment number (raw): 2682012318
1010 .... = Header Length: 40 bytes (10)
```

Acknowlegment flag is set to 1 and SYN flag is also set to 1 so thats we identifies the segement as SYNACK segment.

```
Flags: 0x012 (SYN, ACK)

000. ... = Reserved: Not set
... 0. ... = Congestion Window Reduced (CWR): Not set
... 0. ... = ECN-Echo: Not set
... 0. ... = Urgent: Not set
... 0. ... = Urgent: Not set
... 0. = Push: Not set
... 0. = Reset: Not set
... 0. = Reset: Not set
... 0. = Fin: Not set

[TCP Flags: ... A··S·]
Window: 5792
[Calculated window size: 5792]
Checksum: 0x67d7 [unverified]
```

4. What is the length of each of the first six TCP segments?

1st Tcp segment lenght -> 0

3 0.08808	0 400 400 4 400			
3 0.00000	192.168.1.122	64.238.147.113	TCP	66 60643 → 80 [ACK] Seq=1 Ack=1 Win=524280 Len=0 TSval=25
4 0.08857	9 192.168.1.122	64.238.147.113	HTTP	257 GET /sigcomm/2011/papers/sigcomm/p2.pdf HTTP/1.1
5 0.17781	.9 64.238.147.113	192.168.1.122	TCP	66 80 → 60643 [ACK] Seq=1 Ack=192 Win=6864 Len=0 TSval=40
6 0.17832	1 64.238.147.113	192.168.1.122	TCP	311 80 - 60643 [PSH, ACK] Seq=1 Ack=192 Win=6864 Len=245 T
7 0.17838	8 192.168.1.122	64.238.147.113	TCP	66 60643 → 80 [ACK] Seg=192 Ack=246 Win=524280 Len=0 TSva
Frame 5: 66 by	tes on wire (528 bits)	, 66 bytes captured (5	28 bits)	

Final Biology Stress of Marie (228 Datas), ob Stress Capital (228 Datas)

Ethernet II, Src: Cisco-Li_e3:e9:8d (00:16:b6:e3:e9:8d), Dst: Apple_ac:6c:26 (10:9a:dd:ac:6c:26)

Internet Protocol Version 4, Src: 64.238.147.113, Dst: 192.168.1.122

Transmission Control Protocol, Src Port: 80, Dst Port: 60643, Seq: 1, Ack: 192, Len: 0

Source Port: 80
Destination Port: 60643
[Stream index: 0]
[Conversation completeness: Complete, WITH_DATA (31)]

[TCP Segment Len: 0]

2nd Tcp segement lenght -> 245

No.	Time	Source	Destination	Protocol	Length Info
г	1 0.000000	192.168.1.122	64.238.147.113	TCP	78 60643 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1466
	2 0.088010	64.238.147.113	192.168.1.122	TCP	74 80 → 60643 [SYN, ACK] Seq=0 Ack=1 Win=5792 Len=
	3 0.088080	192.168.1.122	64.238.147.113	TCP	66 60643 → 80 [ACK] Seq=1 Ack=1 Win=524280 Len=0 T
	4 0.088579	192.168.1.122	64.238.147.113	HTTP	257 GET /sigcomm/2011/papers/sigcomm/p2.pdf HTTP/1.
	5 0.177819	64.238.147.113	192.168.1.122	TCP	66 80 → 60643 [ACK] Seq=1 Ack=192 Win=6864 Len=0 T
	6 0.178321	64.238.147.113	192.168.1.122	TCP	311 80 → 60643 [PSH, ACK] Seq=1 Ack=192 Win=6864 Le
	7 0.178388	192.168.1.122	64.238.147.113	TCP	66 60643 → 80 [ACK] Seg=192 Ack=246 Win=524280 Len
→ F	rame 6: 311 bytes	on wire (2488 bits)	, 311 bytes captured	(2488 bits)	
▶ E	thernet II, Src:	Cisco-Li_e3:e9:8d (0	0:16:b6:e3:e9:8d), Ds	t: Apple_ac:	6c:26 (10:9a:dd:ac:6c:26)
· I	nternet Protocol	Version 4, Src: 64.2	38.147.113, Dst: 192.:	168.1.122	
+ T	ransmission Contr	ol Protocol, Src Por	t: 80, Dst Port: 6064	3, Seq: 1, A	Ack: 192, Len: 245
	Source Port: 80				

Destination Port: 60643 [Stream index: 0]

[Conversation completeness: Complete, WITH_DATA (31)]
[TCP Segment Len: 245]

3rd Tcp segment lenght -> 0

No.	Time	Source	Destination	Protocol	Length Info
г	1 0.000000	192.168.1.122	64.238.147.113	TCP	78 60643 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
	2 0.088010	64.238.147.113	192.168.1.122	TCP	74 80 → 60643 [SYN, ACK] Seq=0 Ack=1 Win=5792 Len=
	3 0.088080	192.168.1.122	64.238.147.113	TCP	66 60643 → 80 [ACK] Seq=1 Ack=1 Win=524280 Len=0 T
	4 0.088579	192.168.1.122	64.238.147.113	HTTP	257 GET /sigcomm/2011/papers/sigcomm/p2.pdf HTTP/1.
	5 0.177819	64.238.147.113	192.168.1.122	TCP	66 80 → 60643 [ACK] Seq=1 Ack=192 Win=6864 Len=0 T
-	6 0.178321	64.238.147.113	192.168.1.122	TCP	311 80 → 60643 [PSH, ACK] Seq=1 Ack=192 Win=6864 Le
	7 0.178388	192.168.1.122	64.238.147.113	TCP	66 60643 → 80 [ACK] Seg=192 Ack=246 Win=524280 Len
. Er	ama 7. 66 hytas	on wire (528 hite)	66 bytes centured (52	Q hite)	

Frame 7: 66 bytes on wire (528 bits), 66 bytes captured (528 bits)
 Ethernet II, Src: Apple_ac:6c:26 (10:9a:dd:ac:6c:26), Dst: Cisco-Li_e3:e9:8d (00:16:b6:e3:e9:8d)
 Internet Protocol Version 4, Src: 192.168.1.122, Dst: 64.238.147.113
 Transmission Control Protocol, Src Port: 60643, Dst Port: 80, Seq: 192, Ack: 246, Len: 0

Source Port: 60643 Destination Port: 80 [Stream index: 0]

[Conversation completeness: Complete, WITH_DA (31)]
[TCP Segment Len: 0]

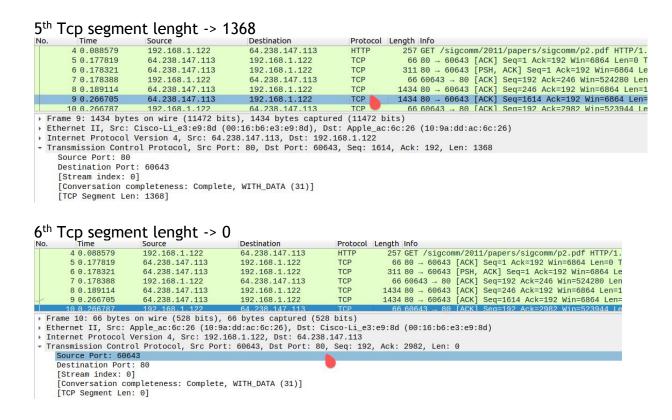
4th Tcp segment lenght -> 1368

•	i cp scsii	iciic (ciigiic	1500		
No.	Time	Source	Destination	Protocol	Length Info
	4 0.088579	192.168.1.122	64.238.147.113	HTTP	257 GET /sigcomm/2011/papers/sigcomm/p2.pdf HTTP/1.
	5 0.177819	64.238.147.113	192.168.1.122	TCP	66 80 → 60643 [ACK] Seq=1 Ack=192 Win=6864 Len=0 T
	6 0.178321	64.238.147.113	192.168.1.122	TCP	311 80 - 60643 [PSH, ACK] Seq=1 Ack=192 Win=6864 Le
	7 0.178388	192.168.1.122	64.238.147.113	TCP	66 60643 - 80 [ACK] Seq=192 Ack=246 Win=524280 Len
	8 0.189114	64.238.147.113	192.168.1.122	TCP	1434 80 → 60643 [ACK] Seq=246 Ack=192 Win=6864 Len=1
1/0	9 0.266705	64.238.147.113	192.168.1.122	TCP	1434 80 → 60643 [ACK] Seq=1614 Ack=192 Win=6864 Len=
	10 0.266787	192.168.1.122	64.238.147.113	TCP	66 60643 - 80 [ACK] Seg=192 Ack=2982 Win=523944 Le

- 10 0.266787 192.168.1.122 64.238.147.113 TCP 66 60643 80 IACKI Set
 Frame 8: 1434 bytes on wire (11472 bits), 1434 bytes captured (11472 bits)
 Ethernet II, Src: Cisco-Li_e3:e9:8d (00:16:b6:e3:e9:8d), Dst: Apple_ac:6c:26 (10:9a:dd:ac:6c:26)
 Internet Protocol Version 4, Src: 64.238.147.113, Dst: 192.168.1.122
 Transmission Control Protocol, Src Port: 80, Dst Port: 60643, Seq: 246, Ack: 192, Len: 1368

Source Port: 80 Destination Port: 60643

[Stream index: 0]
[Conversation completeness: Complete, WITH_DATA (31
[TCP Segment Len: 1368]



5. Are there any retransmitted segments in the trace file? What did you check for (in the trace) in order to answer this question?

From client side it is retransmitting but from the server it is not.when we use source ip it will retransmitted but when we use destination ip there will be no retransmitted segment in trace.

```
ip.src == 192.168.1.122
                                 Source
192.168.1.122
            Time
                                                                 Destination
                                                                                                 Protocol Length Info
         10 0.266787
                                                                  64.238.147.113
                                                                                                                   66 60643 - 80 [ACK] Seq=192 Ack=2982 Win=523944 Len=0 TSval=256680057 TSecr=401
                                  192.168.1.122
192.168.1.122
                                                                                                                   66 60643 - 80 [ACK] Seq=192 Ack=5718 Win=523944 Len=0 TSval=256680144 TSecr=401 66 60643 - 80 [ACK] Seq=192 Ack=8454 Win=523944 Len=0 TSval=256680144 TSecr=401
         13 0.354647
                                                                  64.238.147.113
                                                                                                 TCP
         16 0.355579
                                                                  64.238.147.113
                                                                                                 TCP
        19 6 442003
21 6 442716
                                  192.168.1.122
                                                                  64.238.147.113
                                                                                                                   66 60643 - 80 [ACK] Seq=192 Ack=11190 Win=523944 Len=0 TSval=256680230 TSecr=40
                                                                                                                   66 60643 - 80 [ACK] Seq=192 Ack=12558 Win=523944 Len=0 TSval=256680230 TSecr=40 66 60643 - 80 [ACK] Seq=192 Ack=15294 Win=523944 Len=0 TSval=256680233 TSecr=40
                                  192.168.1.122
                                                                  64,238,147,113
                                                                                                 TCP
         24 0.446405
                                  192.168.1.122
                                                                  64.238.147.113
                                                                                                 TCP
27 0.536678 192.168.1.122 64.238.147.113 TCP
Frame 19: 66 bytes on wire (528 bits), 66 bytes captured (528 bits)
                                                                                                                   66 60643 - 80 [ACK] Sed=192 Ack=18030 Win=523944 Len=0 TSval=256680322 TSecr=40
> Ethernet II, Src: Apple_ac:6c:26 (10:9a:dd:ac:6c:26), Dst: Cisco-Li_e3:e9:8d (00:16:b6:e3:e9:8d)
> Internet Protocol Version 4, Src: 192.168.1.122, Dst: 64.238.147.113
- Transmission Control Protocol, Src Port: 60643, Dst Port: 80, Seq: 192, Ack: 11190, Len: 0
     Source Port: 60643
Destination Port: 80
      [Stream index: 0]
      [Conversation completeness: Complete, WITH_DATA (31)]
[TCP Segment Len: 0]
     Sequence Number: 192 (relative sequence number)
Sequence Number (raw): 2682012509
     [Next Sequence Number: 192 (relative sequence number)]
Acknowledgment Number: 11190 (relative ack number)
Acknowledgment number (raw): 349498966
     1000 .... = Header Length: 32 bytes (8) Flags: 0x010 (ACK)
      Window: 65493
      [Calculated window size: 523944]
      [Window size scaling factor: 8]
      Checksum: 0x7d8f [unverified]
[Checksum Status: Unverified]
      Urgent Pointer: 0
   → Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps
      [Timestamps]
         [Time since first frame in this TCP stream: 0.442003000 seconds]
[Time since previous frame in this TCP stream: 0.000030000 seconds]
```

No. Time Source Destination Protocol Length Info 10 0.266787 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=2982 Win=523944 Len=0 Tsval=256680957 Tsecr=41 13 0.354647 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=5718 Win=523944 Len=0 Tsval=25668014 Tsecr=41 16 0.355579 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=5718 Win=523944 Len=0 Tsval=256680144 Tsecr=41 19 0.442003 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=1300 Win=523944 Len=0 Tsval=256680144 Tsecr=41 19 0.442003 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=12588 Win=523944 Len=0 Tsval=256680230 Tsecr=24 0.446405 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=1588 Win=523944 Len=0 Tsval=256680230 Tsecr=24 0.446405 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=15258 Win=523944 Len=0 Tsval=256680230 Tsecr=27 0.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=15294 Win=523944 Len=0 Tsval=256680230 Tsecr=27 0.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=15294 Win=523944 Len=0 Tsval=256680230 Tsecr=37 0.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=15294 Win=523944 Len=0 Tsval=256680230 Tsecr=37 0.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=15294 Win=523944 Len=0 Tsval=256680230 Tsecr=37 0.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=15294 Win=523944 Len=0 Tsval=256680230 Tsecr=37 0.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=15294 Win=523944 Len=0 Tsval=256680230 Tsecr=37 0.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=15294 Win=523944 Len=0 Tsval=256680230 Tsecr=37 0.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=15294 Win=523944 Len=0 Tsval=256680230 Tsecr=41 0.66 0.66643	
10 0.266787 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=2982 Win=523944 Len=0 TSval=25668067 TSecr=41 16 0.355579 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=5718 Win=523944 Len=0 TSval=256680144 TSecr=41 19 0.442003 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=11190 Win=523944 Len=0 TSval=256680144 TSecr=41 19 0.442003 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=11190 Win=523944 Len=0 TSval=256680230 TSecr=21 0.442716 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=11190 Win=523944 Len=0 TSval=256680230 TSecr=22 0.442716 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=12558 Win=523944 Len=0 TSval=256680230 TSecr=27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=1258 Win=523944 Len=0 TSval=256680233 TSecr=27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680233 TSecr=27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680232 TSecr=27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680232 TSecr=27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680232 TSecr=27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680232 TSecr=27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680232 TSecr=27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680232 TSecr=27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680232 TSecr=27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680232 TSecr=27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=52	
13 0.354647 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=5718 Win=523944 Len=0 TSval=256680144 TSecr=4(16.0.355579 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=8454 Win=523944 Len=0 TSval=256680144 TSecr=4(19.0.42003 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=11190 Win=523944 Len=0 TSval=256680230 TSecr=22 40.4462405 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=1258 Win=523944 Len=0 TSval=256680230 TSecr=24 0.4462405 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=1258 Win=523944 Len=0 TSval=256680230 TSecr=27 0.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=1258 Win=523944 Len=0 TSval=256680230 TSecr=27 0.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=1258 Win=523944 Len=0 TSval=256680230 TSecr=27 0.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680323 TSecr=37 0.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680320 TSecr=37 0.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=12558 Win=523944 Len=0 TSval=256680230 TSecr=37 0.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=12558 Win=523944 Len=0 TSval=256680230 TSecr=37 0.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=12558 Win=523944 Len=0 TSval=256680230 TSecr=37 0.536678 192.168.1.122 0.536680230 TSecr=37 0.53667	
16 0.355579 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=8454 Win=523944 Len=0 TSval=256680144 TSecr=44 19 0.442003 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=11190 Win=523944 Len=0 TSval=256680230 TSecr=2 10.442716 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=12588 Win=523944 Len=0 TSval=256680230 TSecr=2 24 0.446405 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=15294 Win=523944 Len=0 TSval=256680230 TSecr=2 70.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=15294 Win=523944 Len=0 TSval=256680230 TSecr=2 70.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=168030 Win=523944 Len=0 TSval=256680230 TSecr=2 70.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680230 TSecr=2 70.536678 192.168.1.122 Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680230 TSecr=2 70.536680230 TSecr=2 70	1689353
19 0.442903 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=11190 Win=523944 Len=0 TSval=256680230 TSecr=. 21 0.442716 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=11190 Win=523944 Len=0 TSval=256680230 TSecr=. 24 0.446405 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=12558 Win=523944 Len=0 TSval=256680233 TSecr=. 27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680233 TSecr=. 27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680232 TSecr=. 27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680232 TSecr=. 27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680232 TSecr=. 27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680232 TSecr=. 27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680230 TSecr=. 27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680230 TSecr=. 28 0.538.1 100 0.16.1 10.1 10.1 10.1 10.1 10.1 1	1689361
21 0.442716 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=12558 Win=523944 Len=0 TSval=256680230 TSecr=27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=15294 Win=523944 Len=0 TSval=256680233 TSecr=27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=15294 Win=523944 Len=0 TSval=256680233 TSecr=27 0.536678 192.168.1 122 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680233 TSecr=27 0.536678 192.168.1 122 (Secondary 11 0.528) Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680233 TSecr=27 0.536678 192.168.1 122 (Secondary 11 0.528) Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680233 TSecr=27 0.536678 192.168.1 122 (Secondary 11 0.528) Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680233 TSecr=27 0.536678 192 (Secondary 11 0.528) Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680233 TSecr=27 0.536678 192 (Secondary 11 0.528) Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680233 TSecr=27 0.536678 192 (Secondary 11 0.528) Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680233 TSecr=27 0.536678 192 (Secondary 11 0.528) Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680233 TSecr=27 0.536678 192 (Secondary 11 0.528) Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680233 TSecr=27 0.536678 192 (Secondary 11 0.528) Secondary 192 Ack=18030 Win=523944 Len=0 TSval=256680233 TSecr=27 0.536678 192 (Secondary 11 0.528) Secondary	1689376
24 0.446405 192.168.1 22 64.238.147.113 TCP 66 60643 - 80 [ACK] Seq=192 Ack=15294 Win=523944 Len=0 TSval=256680233 TSecr=27 0.536678 192.168.1.122 64.238.147.113 TCP 66 60643 - 80 [ACK] Sen=192 Ack=18030 Win=523944 Len=0 TSval=256680327 TSecr=27 0.536678 192.168.1.122 (10.9a:dd:ac:6c:26), Dst: Cisco-Li_e3:e9:8d (00:16:b6:e3:e9:8d) Ethernet II, Src: Apple_ac:6c:26 (10:9a:dd:ac:6c:26), Dst: Cisco-Li_e3:e9:8d (00:16:b6:e3:e9:8d) Internet Protocol Version 4, Src: 192.168.1.122, Dst: 64.238.147.113 **Transmission Control Protocol, Src Port: 60643, Dst Port: 80, Seq: 192, Ack: 12558, Len: 0 Source Port: 60643 Destination Port: 80 [Stream index: 0] [Conversation completeness: Complete, WITH_DATA (31)] [TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680233 TSecr=2608023 **Transmission Control Protocol, Src Port: 60643, Dst Port: 80, Seq: 192, Ack: 12558, Len: 0 Source Port: 60643 Destination Port: 80 [Stream index: 0] [Conversation completeness: Complete, WITH_DATA (31)] [TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=256680233 TSecr=2608023 **Transmission Control Protocol, Src Port: 60643, Dst Port: 80, Seq: 192, Ack: 12558, Len: 0 Source Port: 60643 Destination Port: 80 [Stream index: 0] [Conversation completeness: Complete, WITH_DATA (31)] [TCP 66 60643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=25668023 TSecr=260802 **Transmission Control Protocol, Src Port: 60643, Dst Port: 80, Seq: 192, Ack: 12558, Len: 0 Source Port: 60643 Destination Port: 80 [Stream index: 0] [Conversation completeness: Complete, WITH_DATA (31)] [TCP 66 66643 - 80 [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=25668022 TSecr=260804 [Stream index: 0] [Conversation completeness: Complete, WITH_DATA (31)] [TCP 66 66643 - 80 [ACK] Seq=192 Ack: 12558, Len: 0 [Stream index: 0] [Conversation completeness: Complete, WITH_DATA (31)] [ACK] Seq=192 Ack=18030 Win=523944 Len=0 TSval=2568802 [Conversation completeness: Complete, WITH_DATA (31)] [ACK] Seq=192 Ack=18030 Win=5239	168937
77.0.536678 192.168.1.722 64.238.147.113 TCP 66.60643 - 80 ÎACKÎ Sen=192 Ack=18030 Win=523944 Len=0 TSval=256680322 TSecr=7 Frame 21: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) Ethernet II, Src: Apple_ac:6c:26 (10:9a:dd:ac:6c:26), Dst: Cisco-Li_e3:e9:8d (00:16:b6:e3:e9:8d) Internet Protocol Version 4, Src: 192.168.1.122, Dst: 64.238.147.113 Transmission Control Protocol, Src Port: 60643, Dst Port: 80, Seq: 192, Ack: 12558, Len: 0 Source Port: 60643 Destination Port: 80 [Stream index: 0] [Conversation completeness: Complete, WITH_DATA (31)] [TCP Segment Len: 0] Sequence Number: 192 (relative sequence number) Sequence Number: 192 (relative sequence number) Acknowledgment Number: 12558 (relative ack number) Acknowledgment Number: 12558 (relative ack number) Acknowledgment Number: 22 bytes (8)	168937
Frame 21: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) Ethernet II, Src: Apple_ac:6c:26 (10:9a:dd:ac:6c:26), Dst: Cisco-Li_e3:e9:8d (00:16:b6:e3:e9:8d) Internet Protocol Version 4, Src: 192.168.1.122, Dst: 64.238.147.113 Transmission Control Protocol, Src Port: 60643, Dst Port: 80, Seq: 192, Ack: 12558, Len: 0 Source Port: 60643 Destination Port: 80 [Stream index: 0] [Conversation completeness: Complete, WITH_DATA (31)] [TCP Segment Len: 0] Sequence Number: 192 (relative sequence number) Sequence Number: 192 (relative sequence number) [Next Sequence Number: 19558 (relative ack number) Acknowledgment Number: 12558 (relative ack number) Acknowledgment number (raw): 349500334 1000 = Header Length: 32 bytes (8)	
Fethernet II, Śrc: Apple_ac:6c:26 (10:9a:dd:ac:6c:26), Dst: Cisco-Li_e3:e9:8d (00:16:b6:e3:e9:8d) Finternet Protocol Version 4, Src: 192.168.1.122, Dst: 64.238.147.113 Transmission Control Protocol, Src Port: 60643, Dst Port: 80, Seq: 192, Ack: 12558, Len: 0 Source Port: 60643 Destination Port: 80 [Stream index: 0] [Conversation completeness: Complete, WITH_DATA (31)] [TCP Segment Len: 0] Sequence Number: 192 (relative sequence number) Sequence Number : 192 (relative sequence number) Sequence Number: 192 (relative sequence number) Acknowledgment Number: 12558 (relative ack number) Acknowledgment number (raw): 349500334 1000 = Header Length: 32 bytes (8)	168937
[Stream index: 0] [Conversation completeness: Complete, WITH_DATA (31)] [TCP Segment Len: 0] Sequence Number: 192 (relative sequence number) Sequence Number (raw): 2682012509 [Next Sequence Number: 192 (relative sequence number)] Acknowledgment Number: 12558 (relative ack number) Acknowledgment number (raw): 349500334 1000 = Header Length: 32 bytes (8)	
[Conversation completeness: Complete, WITH_DATA (31)] [TCP Segment Len: 0] Sequence Number: 192 (relative sequence number) Sequence Number (raw): 2682012509 [Next Sequence Number: 125 (relative sequence number)] Acknowledgment Number: 12558 (relative ack number) Acknowledgment number: 12558 (relative ack number) Acknowledgment number (raw): 349508334 1000 = Header Length: 32 bytes (8)	
[TCP Segment Len: 0] Sequence Number: 192 (relative sequence number) Sequence Number (raw): 2682012509 [Next Sequence Number: 192 (relative sequence number)] Acknowledgment Number: 12558 (relative ack number) Acknowledgment number (raw): 349500334 1000 = Header Length: 32 bytes (8)	
Sequence Number (raw): 2682012509 [Next Sequence Number: 192 (relative sequence number)] Acknowledgment Number: 12558 (relative ack number) Acknowledgment number (raw): 3495080334 1000 = Header Length: 32 bytes (8)	
[Next Sequence Number: 192 (relative sequence number)] Acknowledgment Number: 12558 (relative ack number) Acknowledgment number (raw): 349508334 1000 = Header Length: 32 bytes (8)	
Acknowledgment Number: 12558 (relative ack number) Acknowledgment number (raw): 349500334 1000 = Header Length: 32 bytes (8)	
Acknowledgment number (raw): 349500334 1000 = Header Length: 32 bytes (8)	
1000 = Header Length: 32 bytes (8)	
Flags: 0x010 (ACK)	
Friags: exelle (ACK) Window: 65493	
WINDOW: 09493 [Calculated window size: 523944]	
[Window size scaling factor: 8]	
Checksum: 0x7837 [unverified]	
[Checksum Status: Unverified]	
Urgent Pointer: 0	
Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps [Timestamps] [Time circle fixet frame in this TCP stream; 0.442746000 coconds]	

[Time since first frame in this TCP stream: 0.442716000 seconds]
[Time since previous frame in this TCP stream: 0.000068000 seconds]