

# COMPUTER NETWORKS HW-3

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## Part-1

### Q-1)

The image shows a Wireshark packet capture on the 'tcp' filter. The packet list shows a sequence of packets from source 192.168.1.35 to destination 128.119.245.12 on port 33038. The packet details pane shows the selected packet (No. 187) as a TCP segment with sequence number 1 and acknowledgment number 12321. The packet bytes pane shows the raw data of the packet.

The IP address of the client is 192.168.1.35 and the port is 33038.

### Q-2)

The image shows a Wireshark packet capture on the 'tcp' filter. The packet list shows a sequence of packets from source 128.119.245.12 to destination 192.168.1.35 on port 80. The packet details pane shows the selected packet (No. 7) as a TCP segment with sequence number 0 and acknowledgment number 0. The packet bytes pane shows the raw data of the packet, including the Ethernet II header, Internet Protocol Version 4 header, and Transmission Control Protocol header.

The IP address of the gaia.cs.umass.edu is 128.119.245.12 and the port is 80.

## Part-2

### Q-4)

The image shows a Wireshark packet capture of a TCP SYN packet. The packet list pane shows a single packet (No. 7) from 192.168.1.35 to 128.119.245.12, protocol TCP, length 74. The packet details pane shows the following structure:

- Frame 7: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface wlan0, id 0
- Ethernet II, Src: ZyxelCom, 10:62:10:bc:99:11:10:02:10, Dst: IntelCor\_4a:77:b0 (24:77:03:4a:77:b0)
- Internet Protocol Version 4, Src: 192.168.1.35, Dst: 128.119.245.12
- Transmission Control Protocol, Src Port: 80, Dst Port: 33938, Seq: 0, Ack: 1, Len: 0
- Source Port: 80
- Destination Port: 33938
- [Stream index: 0]
- [TCP Segment Len: 0]
- Sequence number: 0 (relative sequence number)
- Sequence number (raw): 1024806330
- [Next sequence number: 1 (relative sequence number)]
- Acknowledgment number: 1 (relative ack number)
- Acknowledgment number (raw): 2175398200
- 1010 .... = Header Length: 40 bytes (10)
- Flags: 0x010 (SYN, ACK)
- 0000 .... = Reserved: Not set
- ...0 .... = Nonce: Not set
- ....0 .... = Congestion Window Reduced (CWR): Not set
- ....0 .... = ECN-Echo: Not set
- ....0 .... = Urgent: Not set
- ....1 .... = Acknowledgment: Set
- ....0... = Push: Not set
- ....0... = Reset: Not set
- ....0... = FIN: Not set
- [TCP Flags: .....A-S-]
- Window size value: 28960
- [Calculated window size: 28960]
- Checksum: 0x8ed2 [unverified]
- [Checksum Status: Unverified]
- Urgent pointer: 0
- Options: (20 bytes), Maximum segment size, SACK permitted, Timestamps, No-Operation (NOP), Window scale
- [SEQ/ACK analysis]
- [Timestamps]

The packet bytes pane shows the raw data of the packet, starting with the Ethernet II header and the IP header.

### Q-5)

### Q-6)

The image shows a Wireshark packet capture of a TCP ACK packet. The packet list pane shows a single packet (No. 7) from 192.168.1.35 to 128.119.245.12, protocol TCP, length 74. The packet details pane shows the following structure:

- Frame 7: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface wlan0, id 0
- Ethernet II, Src: IntelCor\_4a:77:b0 (24:77:03:4a:77:b0), Dst: ZyxelCom, 10:62:10:bc:99:11:10:02:10
- Internet Protocol Version 4, Src: 192.168.1.35, Dst: 128.119.245.12
- Transmission Control Protocol, Src Port: 33938, Dst Port: 80, Seq: 1, Ack: 1, Len: 1440
- Source Port: 33938
- Destination Port: 80
- [Stream index: 0]
- [TCP Segment Len: 1440]
- Sequence number: 1 (relative sequence number)
- Sequence number (raw): 2175398200
- [Next sequence number: 1441 (relative sequence number)]
- Acknowledgment number: 1 (relative ack number)
- Acknowledgment number (raw): 1024806331
- 1000 .... = Header Length: 32 bytes (8)
- Flags: 0x010 (ACK)
- 0000 .... = Reserved: Not set
- ...0 .... = Nonce: Not set

The packet bytes pane shows the raw data of the packet, starting with the Ethernet II header and the IP header.

The post command is in TCP which sequence number is 1.

### Q-7)



Wireshark packet capture analysis of a TCP connection. The interface is wlan0. The selected packet is a SYN packet (Seq=0, Win=64240, Len=0, MSS=1460, SACK\_PERM=1, TSval=3838907112, TSecr=0, WS=128) from 192.168.1.35 to 128.119.245.12. The packet details show the TCP header and options, including the SYN flag and window size. The packet bytes show the raw data.

Wireshark packet capture analysis of a TCP connection. The interface is wlan0. The selected packet is a SYN packet (Seq=0, Win=64240, Len=0, MSS=1460, SACK\_PERM=1, TSval=3838907112, TSecr=0, WS=128) from 192.168.1.35 to 128.119.245.12. The packet details show the TCP header and options, including the SYN flag and window size. The packet bytes show the raw data.

Wireshark packet capture window showing a TCP segment (Frame 12) on interface wlan0. The packet is a SYN-ACK from 192.168.1.35 to 128.119.245.12. The packet details show the TCP header with sequence number 2881 and acknowledgment number 4321. The packet payload is a 1440-byte TCP payload.

No.	Time	Source	Destination	Protocol	Length	Info
7	4.624995103	192.168.1.35	128.119.245.12	TCP	74	33938 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM=1 TSval=383897112 TSecr=0 WS=128
8	4.769061730	192.168.1.35	128.119.245.12	TCP	66	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=383897257 TSecr=2128747273
9	4.779973306	192.168.1.35	128.119.245.12	TCP	66	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=383897257 TSecr=2128747273
10	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
11	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
12	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
13	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
14	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
15	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
16	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
17	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
18	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
19	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
20	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
21	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
22	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
23	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
24	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
25	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
26	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
27	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
28	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
29	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
30	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
31	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
32	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
33	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273

Frame 12: 1506 bytes on wire (12048 bits), 1506 bytes captured (12048 bits) on interface wlan0, id 0  
Ethernet II, Src: IntelCorAa:77:b0 (24:77:b0:aa:77:b0), Dst: ZynelCom:10:02:10 (bc:99:11:10:02:10)  
Internet Protocol Version 4, Src: 192.168.1.35, Dst: 128.119.245.12  
Transmission Control Protocol, Src Port: 33938, Dst Port: 80, Seq: 2881, Ack: 1, Len: 1440  
Source Port: 33938  
Destination Port: 80  
[Stream index: 0]  
[TCP Segment Len: 1440]  
Sequence number: 2881 (relative sequence number)  
Sequence number (raw): 2175401080  
[Next sequence number: 4321 (relative sequence number)]  
Acknowledgment number: 1 (relative ack number)  
Acknowledgment number (raw): 1024806331  
1000 ... = Header Length: 32 bytes (8)  
Flags: 0x018 (ACK)  
0000 ... = Reserved: Not set  
...0 ... = None: Not set  
...0 ... = Congestion Window Reduced (CWR): Not set  
...0 ... = ECN-Echo: Not set  
...0 ... = Urgent: Not set  
...1 ... = Acknowledgment: Set  
...0 ... = Push: Not set  
...0 ... = Reset: Not set  
...0 ... = Syn: Not set  
...0 ... = Fin: Not set

The TCP payload of this packet (tcp.payload), 1,440 bytes

Packets: 215 · Displayed: 201 (93.5%) · Dropped: 0 (0.0%) Profile: Default

Wireshark packet capture window showing a TCP segment (Frame 13) on interface wlan0. The packet is a SYN-ACK from 192.168.1.35 to 128.119.245.12. The packet details show the TCP header with sequence number 4321 and acknowledgment number 5761. The packet payload is a 1440-byte TCP payload.

No.	Time	Source	Destination	Protocol	Length	Info
7	4.624995103	192.168.1.35	128.119.245.12	TCP	74	33938 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM=1 TSval=383897112 TSecr=0 WS=128
8	4.769061730	192.168.1.35	128.119.245.12	TCP	66	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=383897257 TSecr=2128747273
9	4.779973306	192.168.1.35	128.119.245.12	TCP	66	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=383897257 TSecr=2128747273
10	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
11	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
12	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
13	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
14	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
15	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
16	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
17	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
18	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
19	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
20	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
21	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
22	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
23	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
24	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
25	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
26	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
27	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
28	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
29	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
30	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
31	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
32	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273
33	4.779973306	192.168.1.35	128.119.245.12	TCP	1506	33938 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=1440 TSval=383897258 TSecr=2128747273

Frame 13: 1506 bytes on wire (12048 bits), 1506 bytes captured (12048 bits) on interface wlan0, id 0  
Ethernet II, Src: IntelCorAa:77:b0 (24:77:b0:aa:77:b0), Dst: ZynelCom:10:02:10 (bc:99:11:10:02:10)  
Internet Protocol Version 4, Src: 192.168.1.35, Dst: 128.119.245.12  
Transmission Control Protocol, Src Port: 33938, Dst Port: 80, Seq: 4321, Ack: 1, Len: 1440  
Source Port: 33938  
Destination Port: 80  
[Stream index: 0]  
[TCP Segment Len: 1440]  
Sequence number: 4321 (relative sequence number)  
Sequence number (raw): 2175402520  
[Next sequence number: 5761 (relative sequence number)]  
Acknowledgment number: 1 (relative ack number)  
Acknowledgment number (raw): 1024806331  
1000 ... = Header Length: 32 bytes (8)  
Flags: 0x018 (PSH, ACK)  
0000 ... = Reserved: Not set  
...0 ... = None: Not set  
...0 ... = Congestion Window Reduced (CWR): Not set  
...0 ... = ECN-Echo: Not set  
...0 ... = Urgent: Not set  
...1 ... = Acknowledgment: Set  
...0 ... = Push: Set  
...0 ... = Reset: Not set  
...0 ... = Syn: Not set  
...0 ... = Fin: Not set

The TCP payload of this packet (tcp.payload), 1,440 bytes

Packets: 215 · Displayed: 201 (93.5%) · Dropped: 0 (0.0%) Profile: Default



Wireshark packet capture analysis of a TCP connection. The packet list shows a sequence of packets from source 192.168.1.35 to destination 128.119.245.12. Packet 14 is selected, showing a TCP segment with sequence number 7201 and acknowledgment number 1. The packet details pane shows the TCP header and options, including the PSH flag and window size. The packet bytes pane shows the raw data of the TCP payload.

Wireshark packet capture analysis of a TCP connection. The packet list shows a sequence of packets from source 192.168.1.35 to destination 128.119.245.12. Packet 14 is selected, showing a TCP segment with sequence number 7201 and acknowledgment number 1. The packet details pane shows the TCP header and options, including the PSH flag and window size. The packet bytes pane shows the raw data of the TCP payload.

- Segment number 1 but segment number 2 is 1441.
- For segment number 1 4.770505596. For segment number 2 is 4.770524698 and so on in the screenshots.
- For segment number 1 4.936762979.

d)

Segment	Packet Number	Sequence Number	Time Sent	Time ACK received	RTT
1	10	1	4.770505596	4.936762979	0.166257383
2	11	1441	4.770524698	4.954218444	0.183693746
3	12	2881	4.770549273	4.967213844	0.196664571
4	13	4321	4.770560004	5.007178885	0.236618881
5	14	5761	4.779953745	5.011405125	0.231451380
6	15	7201	4.779973306	-	-

Q-8)

1440 bytes

Q-9)

The minimum is 31872

Q-10)

If there are same sequence number packets at different time then there is a retransmission.

Q-11)

No.	Time	Source	Destination	Protocol	Length	Info
10	4.770505596	128.119.245.12	192.168.1.35	TCP	66	80 -> 3938 [ACK] Seq=1 Ack=80641 Win=183296 Len=0 Tsv=2128748385 TSecr=3838987897
11	4.770524698	128.119.245.12	192.168.1.35	TCP	66	80 -> 3938 [ACK] Seq=1 Ack=80641 Win=183296 Len=0 Tsv=2128748385 TSecr=3838987897
12	4.770549273	128.119.245.12	192.168.1.35	TCP	66	80 -> 3938 [ACK] Seq=1 Ack=80641 Win=183296 Len=0 Tsv=2128748385 TSecr=3838987897
13	4.770560004	128.119.245.12	192.168.1.35	TCP	66	80 -> 3938 [ACK] Seq=1 Ack=80641 Win=183296 Len=0 Tsv=2128748385 TSecr=3838987897
14	4.779953745	128.119.245.12	192.168.1.35	TCP	66	80 -> 3938 [ACK] Seq=1 Ack=80641 Win=183296 Len=0 Tsv=2128748385 TSecr=3838987897
15	4.779973306	128.119.245.12	192.168.1.35	TCP	66	80 -> 3938 [ACK] Seq=1 Ack=80641 Win=183296 Len=0 Tsv=2128748385 TSecr=3838987897

Q-12)

Ack numbers increases 1440 at each iteration, so the receiver acknowledging 1440 bytes.



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tcp

No.	Time	Source	Destination	Protocol	Length	Info
150	5.875928589	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=80641 Win=183296 Len=0 TSval=2128748385 TSecr=3838907897
151	5.876080345	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [ACK] Seq=122481 Ack=1 Win=4256 Len=1440 TSval=3838908363 TSecr=2128748385 [TCP segment of a reassembled PDU]
152	5.898066536	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=82081 Win=183296 Len=0 TSval=2128748401 TSecr=3838907904
153	5.898138087	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [ACK] Seq=123841 Ack=1 Win=64256 Len=1440 TSval=3838908385 TSecr=2128748401 [TCP segment of a reassembled PDU]
154	5.919046540	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=83521 Win=183296 Len=0 TSval=2128748418 TSecr=3838907904
155	5.919117362	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [ACK] Seq=125281 Ack=1 Win=64256 Len=1440 TSval=3838908406 TSecr=2128748418 [TCP segment of a reassembled PDU]
156	5.927061070	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=84961 Win=183296 Len=0 TSval=2128748436 TSecr=3838907920
157	5.927932100	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [ACK] Seq=126721 Ack=1 Win=64256 Len=1440 TSval=3838908415 TSecr=2128748436 [TCP segment of a reassembled PDU]
158	5.927955376	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [PSH, ACK] Seq=128161 Ack=1 Win=64256 Len=1440 TSval=3838908415 TSecr=2128748436 [TCP segment of a reassembled PDU]
159	5.949484238	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=86401 Win=183296 Len=0 TSval=2128748455 TSecr=3838907948
160	5.949416238	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [ACK] Seq=129601 Ack=1 Win=64256 Len=1440 TSval=3838908437 TSecr=2128748455 [TCP segment of a reassembled PDU]
161	5.980580400	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=87841 Win=183296 Len=0 TSval=2128748472 TSecr=3838907976
162	5.980653943	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [ACK] Seq=131841 Ack=1 Win=64256 Len=1440 TSval=3838908468 TSecr=2128748472 [TCP segment of a reassembled PDU]
163	6.001409568	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=89281 Win=183296 Len=0 TSval=2128748489 TSecr=3838907987
164	6.001561094	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [ACK] Seq=132481 Ack=1 Win=64256 Len=1440 TSval=3838908489 TSecr=2128748489 [TCP segment of a reassembled PDU]
165	6.001606799	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=90721 Win=183296 Len=0 TSval=2128748507 TSecr=3838907987
166	6.052029299	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=92161 Win=183296 Len=0 TSval=2128748523 TSecr=3838908001
167	6.052918419	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [ACK] Seq=133921 Ack=1 Win=64256 Len=1440 TSval=3838908540 TSecr=2128748523 [TCP segment of a reassembled PDU]
168	6.052947245	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [PSH, ACK] Seq=135361 Ack=1 Win=64256 Len=1440 TSval=3838908540 TSecr=2128748523 [TCP segment of a reassembled PDU]
169	6.052976603	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=95041 Win=183296 Len=0 TSval=2128748561 TSecr=3838908049
170	6.053008506	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [ACK] Seq=136801 Ack=1 Win=64256 Len=1440 TSval=3838908540 TSecr=2128748561 [TCP segment of a reassembled PDU]
171	6.053022583	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [PSH, ACK] Seq=138241 Ack=1 Win=64256 Len=1440 TSval=3838908540 TSecr=2128748561 [TCP segment of a reassembled PDU]
172	6.094141960	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=97821 Win=183296 Len=0 TSval=2128748595 TSecr=3838908052
173	6.094220564	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [ACK] Seq=139681 Ack=1 Win=64256 Len=1440 TSval=3838908582 TSecr=2128748595 [TCP segment of a reassembled PDU]
174	6.094244470	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [PSH, ACK] Seq=141121 Ack=1 Win=64256 Len=1440 TSval=3838908582 TSecr=2128748595 [TCP segment of a reassembled PDU]
175	6.138993339	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=100801 Win=183296 Len=0 TSval=2128748629 TSecr=3838908088
176	6.138978692	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [ACK] Seq=142561 Ack=1 Win=64256 Len=1440 TSval=3838908626 TSecr=2128748629 [TCP segment of a reassembled PDU]
177	6.139110587	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [PSH, ACK] Seq=144001 Ack=1 Win=64256 Len=1440 TSval=3838908626 TSecr=2128748629 [TCP segment of a reassembled PDU]
178	6.165774758	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=103681 Win=183296 Len=0 TSval=2128748663 TSecr=3838908120
179	6.165854675	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [ACK] Seq=145441 Ack=1 Win=64256 Len=1440 TSval=3838908653 TSecr=2128748663 [TCP segment of a reassembled PDU]
180	6.165879573	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [PSH, ACK] Seq=146881 Ack=1 Win=64256 Len=1440 TSval=3838908653 TSecr=2128748663 [TCP segment of a reassembled PDU]
181	6.180959092	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=106561 Win=183296 Len=0 TSval=2128748697 TSecr=3838908143
182	6.199037097	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [ACK] Seq=148321 Ack=1 Win=64256 Len=1440 TSval=3838908686 TSecr=2128748697 [TCP segment of a reassembled PDU]
183	6.199062845	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [PSH, ACK] Seq=149761 Ack=1 Win=64256 Len=1440 TSval=3838908686 TSecr=2128748697 [TCP segment of a reassembled PDU]
184	6.223562940	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=109441 Win=183296 Len=0 TSval=2128748731 TSecr=3838908196
185	6.223595088	192.168.1.35	128.119.245.12	TCP	1506	33038 -> 80 [ACK] Seq=151201 Ack=1 Win=64256 Len=1440 TSval=3838908711 TSecr=2128748731 [TCP segment of a reassembled PDU]
186	6.223511108	192.168.1.35	128.119.245.12	HTTP	378	POST /wirehark-labs/index1-reply.htm HTTP/1.1 (text/plain)
187	6.270133757	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=112321 Win=183296 Len=0 TSval=2128748772 TSecr=3838908212
188	6.290858150	128.119.245.12	192.168.1.35	TCP	66	80 -> 33038 [ACK] Seq=1 Ack=115201 Win=183296 Len=0 TSval=2128748806 TSecr=3838908250

Frame 186: 378 bytes on wire (3024 bits), 378 bytes captured (3024 bits) on interface wlan0, id 0

Ethernet II, Src: IntelCor\_4a:77:b0 (24:77:b0:4a:77:b0), Dst: ZynelCom\_18:02:10 (bc:99:11:18:02:10)

Internet Protocol Version 4, Src: 192.168.1.35, Dst: 128.119.245.12

Transmission Control Protocol, Src Port: 33038, Dst Port: 80, Seq: 152641, Ack: 1, Len: 312

Source Port: 33038

Destination Port: 80

Stream Index: 0

[TCP Segment Len: 312]

Sequence number: 152641 (relative sequence number)

Sequence number (raw): 2175550840

[ACK Sequence Number: 152641 (relative sequence number)]

Acknowledgment number: 1 (relative ack number)

Acknowledgment number (raw): 1024800331

1600 .... = Header Length: 32 bytes (8)

Flags: 0x018 (PSH, ACK)

0000 .... = Reserved: Not set

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

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

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

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

Frame 186 (378 bytes) on interface wlan0 (24:77:b0:4a:77:b0)

Next sequence number (tcp.nextseq)

Packets: 215 · Displayed: 201 (93.5%) · Dropped: 0 (0.0%)

Profile: Default