

EE4013 Lab 4

Q1:

Client computer: IP address: 192.168.1.121
TCP port number: 49624

299	13:46:41.786091755	128.119.245.12	192.168.1.121	TCP	66 80 → 49624 [ACK] Seq=1 Ack=139648 Win=189056 Len=0 TS...
300	13:46:41.796625961	128.119.245.12	192.168.1.121	TCP	66 80 → 49624 [ACK] Seq=1 Ack=139648 Win=189056 Len=0 TS...
301	13:46:41.806734110	128.119.245.12	192.168.1.121	TCP	66 80 → 49624 [ACK] Seq=1 Ack=141096 Win=191872 Len=0 TS...
302	13:46:41.821118178	128.119.245.12	192.168.1.121	TCP	66 80 → 49624 [ACK] Seq=1 Ack=142544 Win=194816 Len=0 TS...
303	13:46:41.827075664	128.119.245.12	192.168.1.121	TCP	66 80 → 49624 [ACK] Seq=1 Ack=143992 Win=197760 Len=0 TS...
304	13:46:41.841077925	128.119.245.12	192.168.1.121	TCP	66 80 → 49624 [ACK] Seq=1 Ack=145440 Win=200576 Len=0 TS...
305	13:46:41.850809896	128.119.245.12	192.168.1.121	TCP	66 80 → 49624 [ACK] Seq=1 Ack=146888 Win=203520 Len=0 TS...
306	13:46:41.861904022	128.119.245.12	192.168.1.121	TCP	66 80 → 49624 [ACK] Seq=1 Ack=148336 Win=206464 Len=0 TS...
307	13:46:41.869737588	128.119.245.12	192.168.1.121	TCP	66 80 → 49624 [ACK] Seq=1 Ack=149784 Win=209280 Len=0 TS...
308	13:46:41.882058467	128.119.245.12	192.168.1.121	TCP	66 80 → 49624 [ACK] Seq=1 Ack=151232 Win=212224 Len=0 TS...
309	13:46:41.897225737	128.119.245.12	192.168.1.121	TCP	66 80 → 49624 [ACK] Seq=1 Ack=152680 Win=215040 Len=0 TS...
310	13:46:41.902937926	128.119.245.12	192.168.1.121	TCP	66 80 → 49624 [ACK] Seq=1 Ack=152961 Win=217984 Len=0 TS...
311	13:46:41.903696079	128.119.245.12	192.168.1.121	HTTP	843 HTTP/1.1 200 OK (text/html)
312	13:46:41.903718711	192.168.1.121	128.119.245.12	TCP	66 49624 → 80 [ACK] Seq=152961 Ack=778 Win=30848 Len=0 T...

Q2:

IP address: 128.119.245.12
TCP port number: 80

▶ Ethernet II, Src: IntelCor_db:89:3b (e4:f8:9c:db:89:3b), Dst: Tp-LinkT_75:a0:5f (a0:f3:c1:75:a0:5f)
▶ Internet Protocol Version 4, Src: 192.168.1.121, Dst: 128.119.245.12
▶ Transmission Control Protocol, Src Port: 49624, Dst Port: 80, Seq: 151232, Ack: 1, Len: 1448

Q3:

Same as Q1

Q4:

Syn set to 0

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.... 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

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Q5:

Sequence number: 0
Value of ACK: 1

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.... 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
▶ .... .... ..1. = Syn: Set
.... .... ...0 = Fin: Not set
[TCP Flags: .....A..S.]

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Q6:

Sequence number: 1

Transmission Control Protocol, Src Port: 80, Dst Port: 49624, Seq: 1, ACK: 16568, Len: 0	
Source Port: 80	
Destination Port: 49624	
[Stream index: 15]	
[TCP Segment Len: 0]	
Sequence number: 1 (relative sequence number)	
Acknowledgment number: 16568 (relative ack number)	
Header Length: 32 bytes	
▼ Flags: 0x010 (ACK)	

Q7:

Segment 1 sequence number: 1
Segment 2 sequence number: 566
Segment 3 sequence number: 2026
Segment 4 sequence number: 3486
Segment 5 sequence number: 4946
Segment 6 sequence number: 6406

Q8:

Length of first: 347
Length of others:

270	13:46:41.360774944	192.168.1.121	128.119.245.12	TCP	1514 [TCP segment of a reassembled PDU]
272	13:46:41.370996254	192.168.1.121	128.119.245.12	TCP	1514 [TCP segment of a reassembled PDU]
274	13:46:41.383169993	192.168.1.121	128.119.245.12	HTTP	347 POST /wireshark-labs/lab3-1-reply.htm HTTP/1.1 (text/...
312	13:46:41.903718711	192.168.1.121	128.119.245.12	TCP	66 49624 → 80 [ACK] Seq=152961 Ack=778 Win=30848 Len=0 T...
326	13:46:46.976634286	192.168.1.121	128.119.245.12	TCP	66 49624 → 80 [ACK] Seq=152961 Ack=779 Win=30848 Len=0 T...

Q9:

5840 bytes

264	13:46:41.329307748	192.168.1.121	128.119.245.12	TCP	1514 [TCP segment of a reassembled PDU]
266	13:46:41.341946443	192.168.1.121	128.119.245.12	TCP	1514 [TCP segment of a reassembled PDU]
268	13:46:41.350459831	192.168.1.121	128.119.245.12	TCP	1514 [TCP segment of a reassembled PDU]
270	13:46:41.360774944	192.168.1.121	128.119.245.12	TCP	1514 [TCP segment of a reassembled PDU]
272	13:46:41.370996254	192.168.1.121	128.119.245.12	TCP	1514 [TCP segment of a reassembled PDU]
274	13:46:41.383169993	192.168.1.121	128.119.245.12	HTTP	347 POST /wireshark-labs/lab3-1-reply.htm HTTP/1.1 (text/...
312	13:46:41.903718711	192.168.1.121	128.119.245.12	TCP	66 49624 → 80 [ACK] Seq=152961 Ack=778 Win=30848 Len=0 T...
326	13:46:46.976634286	192.168.1.121	128.119.245.12	TCP	66 49624 → 80 [ACK] Seq=152961 Ack=779 Win=30848 Len=0 T...
344	13:46:52.662990734	192.168.1.121	128.119.245.12	TCP	66 49624 → 80 [FIN, ACK] Seq=152961 Ack=779 Win=30848 Le...
109	13:46:38.104580923	192.168.1.121	151.101.16.193	TCP	66 33888 → 443 [ACK] Seq=1 Ack=1 Win=1670 Len=0 TSval=92...
104	13:46:33.752569909	192.168.1.121	151.101.193.69	TCP	66 45792 → 443 [ACK] Seq=1 Ack=1 Win=1444 Len=0 TSval=91...
319	13:46:45.528656261	192.168.1.121	151.101.65.140	TCP	66 38854 → 443 [ACK] Seq=1 Ack=1 Win=1981 Len=0 TSval=94...
1	13:46:07.214647530	216.58.212.161	192.168.1.121	TCP	66 80 → 60510 [FIN, ACK] Seq=1 Ack=1 Win=340 Len=0 TSval...
8	13:46:12.644545426	128.119.245.12	192.168.1.121	TCP	74 80 → 48044 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS...
11	13:46:13.045450424	216.58.212.174	192.168.1.121	TCP	66 [TCP ACKed unseen segment] 443 → 57542 [ACK] Seq=1 Ac...
14	13:46:15.816396763	216.58.212.168	192.168.1.121	TLSv1.2	129 Application Data
15	13:46:15.816410286	216.58.212.168	192.168.1.121	TCP	66 443 → 41372 [FIN, ACK] Seq=64 Ack=1 Win=357 Len=0 TSv...
17	13:46:15.819611536	216.58.212.168	192.168.1.121	TCP	66 [TCP Spurious Retransmission] 443 → 41372 [FIN, ACK]

▶ Frame 274: 347 bytes on wire (2776 bits), 347 bytes captured (2776 bits) on interface 0
▶ Ethernet II, Src: IntelCor_db:89:3b (e4:f8:9c:db:89:3b), Dst: Tp-LinkT_75:a0:5f (a0:f3:c1:75:a0:5f)
▶ Internet Protocol Version 4, Src: 192.168.1.121, Dst: 128.119.245.12
▶ Transmission Control Protocol, Src Port: 49624, Dst Port: 80, Seq: 152680, Ack: 1, Len: 281
▶ [107 Reassembled TCP Segments (152960 bytes): #111(639), #112(1448), #113(1448), #114(1448), #115(1448), #116(1448), #117(1448), #118(1448), #119(1448), #120(1448), #121(1448), #122(1448), #123(1448), #124(1448), #125(1448), #126(1448), #127(1448), #128(1448), #129(1448), #130(1448), #131(1448), #132(1448), #133(1448), #134(1448), #135(1448), #136(1448), #137(1448), #138(1448), #139(1448), #140(1448), #141(1448), #142(1448), #143(1448), #144(1448), #145(1448), #146(1448), #147(1448), #148(1448), #149(1448), #150(1448), #151(1448), #152(1448), #153(1448), #154(1448), #155(1448), #156(1448), #157(1448), #158(1448), #159(1448), #160(1448), #161(1448), #162(1448), #163(1448), #164(1448), #165(1448), #166(1448), #167(1448), #168(1448), #169(1448), #170(1448), #171(1448), #172(1448), #173(1448), #174(1448), #175(1448), #176(1448), #177(1448), #178(1448), #179(1448), #180(1448), #181(1448), #182(1448), #183(1448), #184(1448), #185(1448), #186(1448), #187(1448), #188(1448), #189(1448), 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Q10:

No retransmitted segments in the trace file as the sequence numbers of the TCP segments in the trace file increase with respect to time.

373	13:46:52.778071144	192.168.1.121	216.58.212.174	TCP	66 46026 → 443 [ACK] Seq=2184 Ack=297 Win=30336 Len=0 TS...
374	13:46:52.778249708	192.168.1.121	216.58.212.174	TLSv1.2	217 Application Data, Application Data, Application Data
375	13:46:52.778695428	192.168.1.121	216.58.212.174	TLSv1.2	1027 Application Data, Application Data
378	13:46:52.812378638	192.168.1.121	216.58.212.174	TCP	66 46028 → 443 [ACK] Seq=1681 Ack=255 Win=30336 Len=0 TS...
379	13:46:52.812447590	192.168.1.121	216.58.212.174	TLSv1.2	104 Application Data
383	13:46:52.819104286	192.168.1.121	216.58.212.174	TCP	66 46028 → 443 [ACK] Seq=1719 Ack=855 Win=31488 Len=0 TS...
385	13:46:52.819805964	192.168.1.121	216.58.212.174	TLSv1.2	112 Application Data
390	13:46:53.089429563	192.168.1.121	216.58.212.174	TCP	66 46026 → 443 [ACK] Seq=2184 Ack=894 Win=32512 Len=0 TS...
393	13:46:53.089842018	192.168.1.121	216.58.212.174	TCP	66 46026 → 443 [ACK] Seq=2184 Ack=1139 Win=33536 Len=0 T...
394	13:46:53.090154137	192.168.1.121	216.58.212.174	TLSv1.2	112 Application Data
396	13:46:53.096100963	192.168.1.121	216.58.212.174	TCP	78 [TCP Dup ACK 393#1] 46026 → 443 [ACK] Seq=2230 Ack=11...
327	13:46:47.064606703	192.168.1.121	216.58.212.176	TCP	66 51214 → 80 [ACK] Seq=1 Ack=1 Win=345 Len=0 TSval=9510...
38	13:46:17.662952599	192.168.1.121	54.88.75.202	TLSv1.2	203 Application Data
39	13:46:17.664667095	192.168.1.121	54.88.75.202	TLSv1.2	112 Application Data
48	13:46:17.783833607	192.168.1.121	54.88.75.202	TCP	66 46154 → 443 [ACK] Seq=184 Ack=47 Win=1444 Len=0 TSval...
50	13:46:17.794307561	192.168.1.121	54.88.75.202	TCP	66 46154 → 443 [ACK] Seq=184 Ack=661 Win=1440 Len=0 TSva...
332	13:46:48.656294022	192.168.1.121	54.88.75.202	TLSv1.2	203 Application Data
333	13:46:48.656955610	192.168.1.121	54.88.75.202	TLSv1.2	112 Application Data
326	13:46:48.802636647	192.168.1.121	54.88.75.202	TCP	66 46154 → 443 [ACK] Seq=367 Ack=707 Win=1444 Len=0 TSva...

▶ Frame 396: 78 bytes on wire (624 bits), 78 bytes captured (624 bits) on interface 0
▶ Ethernet II, Src: IntelCor_db:89:3b (e4:f8:9c:db:89:3b), Dst: Tp-LinkT_75:a0:5f (a0:f3:c1:75:a0:5f)
▶ Internet Protocol Version 4, Src: 192.168.1.121, Dst: 216.58.212.174
▶ Transmission Control Protocol, Src Port: 46026, Dst Port: 443, Seq: 2230, Ack: 1139, Len: 0

Q11:

ACK typically acknowledges 66 bytes of data

9	13:46:12.644566403	192.168.1.121	128.119.245.12	TCP	66 48044 → 80 [ACK] Seq=1 Ack=1 Win=229 Len=0 TSval=8649...
26	13:46:17.448859279	192.168.1.121	128.119.245.12	TCP	66 48044 → 80 [FIN, ACK] Seq=1 Ack=1 Win=229 Len=0 TSval...
28	13:46:17.449014588	192.168.1.121	128.119.245.12	TCP	74 49210 → 80 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK...
35	13:46:17.548724122	192.168.1.121	128.119.245.12	TCP	66 49210 → 80 [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=87...
37	13:46:17.550143596	192.168.1.121	128.119.245.12	TCP	66 48044 → 80 [ACK] Seq=2 Ack=2 Win=229 Len=0 TSval=8772...
87	13:46:31.159096729	192.168.1.121	128.119.245.12	TCP	66 49210 → 80 [FIN, ACK] Seq=1 Ack=1 Win=29312 Len=0 TSV...
88	13:46:31.159208252	192.168.1.121	128.119.245.12	TCP	74 49624 → 80 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK...
90	13:46:31.277926326	192.168.1.121	128.119.245.12	TCP	66 49624 → 80 [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=91...
92	13:46:31.278398094	192.168.1.121	128.119.245.12	TCP	66 49210 → 80 [ACK] Seq=2 Ack=2 Win=29312 Len=0 TSval=91...
111	13:46:40.585922920	192.168.1.121	128.119.245.12	TCP	705 [TCP segment of a reassembled PDU]
112	13:46:40.586079883	192.168.1.121	128.119.245.12	TCP	1514 [TCP segment of a reassembled PDU]
113	13:46:40.586835691	192.168.1.121	128.119.245.12	TCP	1514 [TCP segment of a reassembled PDU]
114	13:46:40.587401721	192.168.1.121	128.119.245.12	TCP	1514 [TCP segment of a reassembled PDU]
115	13:46:40.587908953	192.168.1.121	128.119.245.12	TCP	1514 [TCP segment of a reassembled PDU]
116	13:46:40.588393298	192.168.1.121	128.119.245.12	TCP	1514 [TCP segment of a reassembled PDU]