

Wireshark Assignment 2

1-What are the packet numbers (which appear in Wireshark program) of the packets used for 3-way handshake protocol that initiates the first TCP connection? What are the segment numbers of those packages and the port numbers used on client and server sides?

Packet Number	Source Number	Destination Number	Segment Number
39	56226(client)	80(server)	Seq=0
41	80	56226	Seq=0
42	56226	80	Seq=1

2-What are the first 5 packet numbers and segment numbers of all TCP packets transferring the "wireshark_assignment2.png" image data?

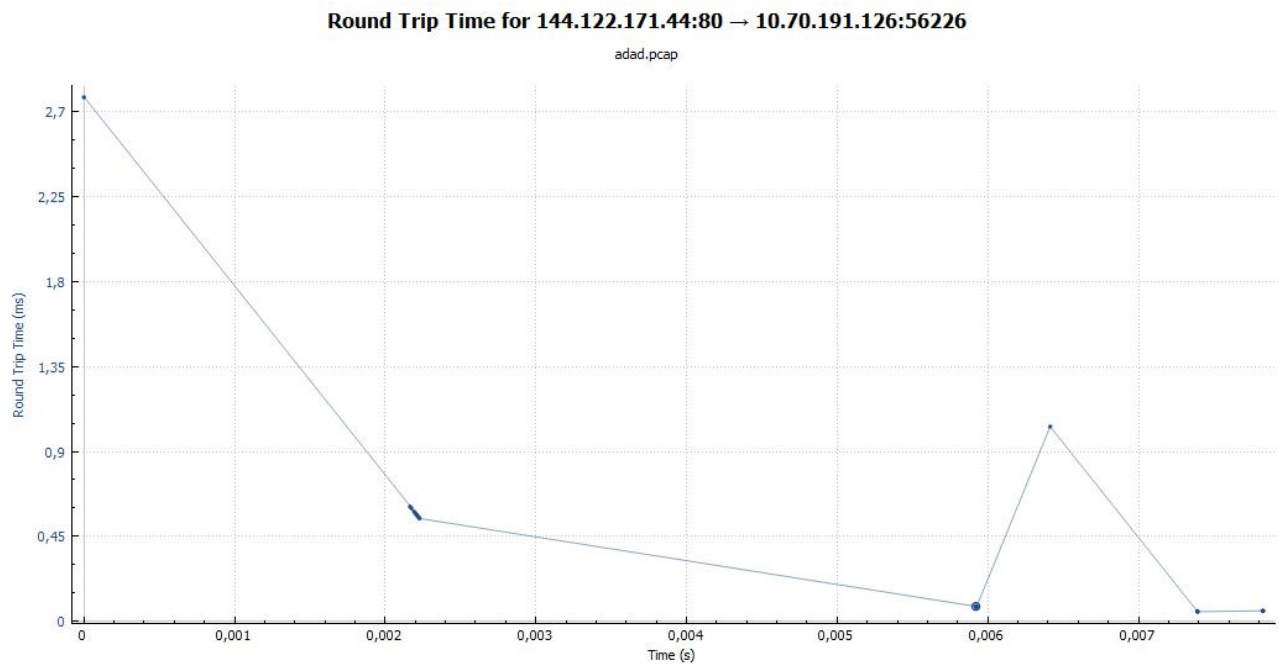
Packet Number	Segment Number
57	Seq=6373
58	Seq=7833
59	Seq=9293
60	Seq=10753
61	Seq=12213

What are the packet numbers of corresponding ACK segments and the data amount they acknowledged? Draw a table which have packet number, segment number, ACK packet number, and ACKed data columns and fill the table with the required information.

Packet Number	Segment Number	ACK Packet Number	ACKed Data
68	Seq=735	Ack=20973	1460*10=14600 bytes
77	Seq=735	Ack=26813	1460*4=5840 bytes
82	Seq=735	Ack=32653	1460*4=5840 bytes

3- How long does it take to transfer "wireshark_assignment2.png" image data (from the time the first TCP data packet sent to the time the last acknowledgement received at the server side)? Show your work. Plot Round Trip Time - Time graph of related TCP packets. (Hint: Select one of those TCP segment in the "listing of captured packets" window that is being sent from the server to the client. Then select: Statistics->TCP Stream Graph- >Round Trip Time Graph.)

Time = 0.007445



4-Are there any retransmitted segments in your trace file? Justify your answer with respect to your Wireshark output monitoring.

There is no Retransmitted Segment in Trace.

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