COMPUTER NETWORK LAB

LAB 3A

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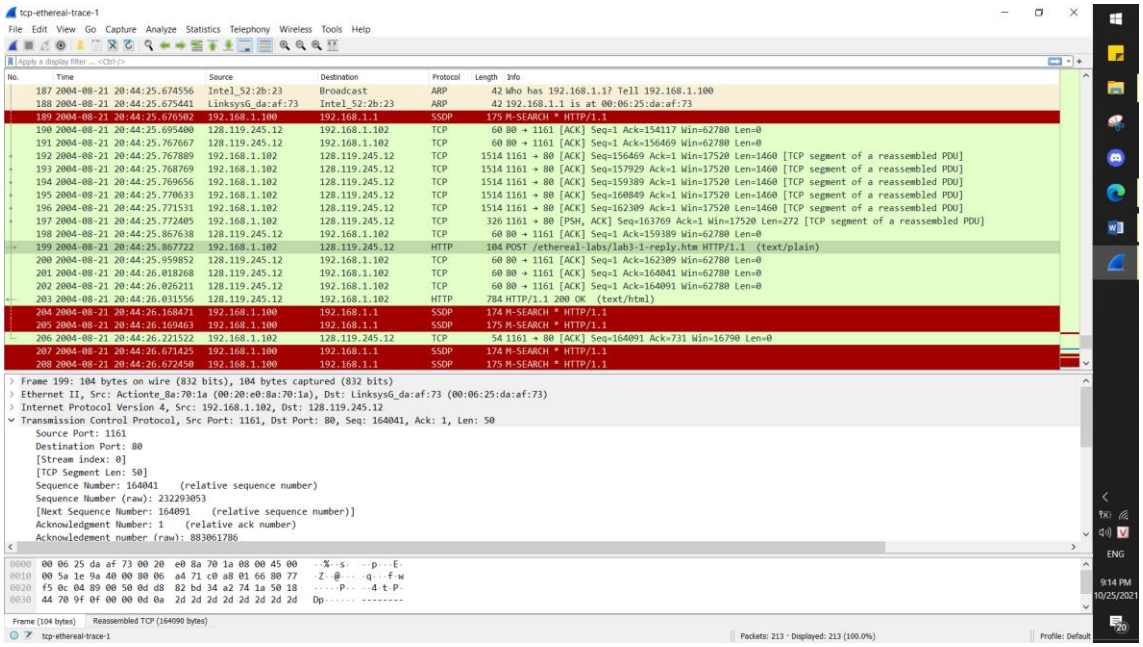
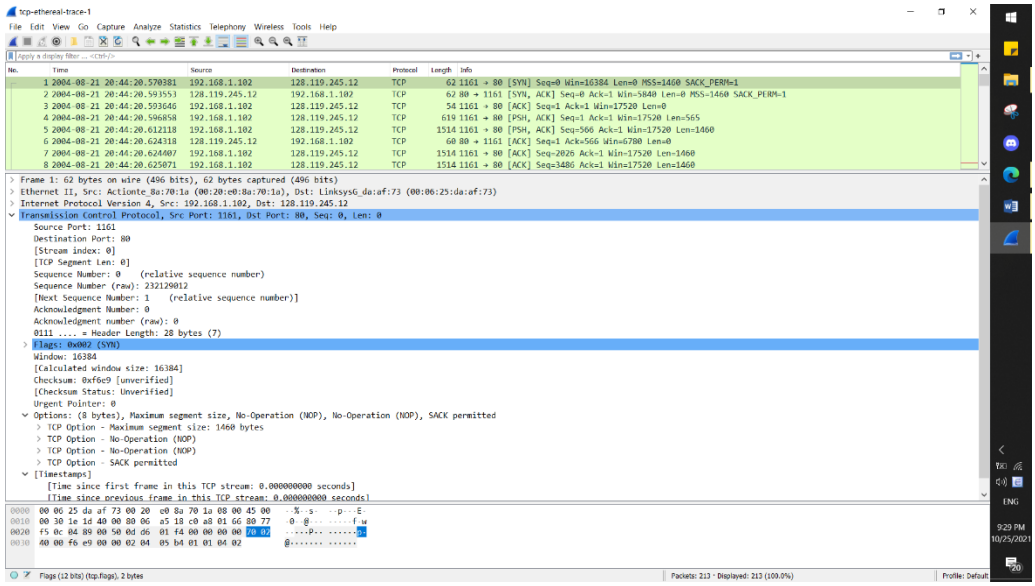
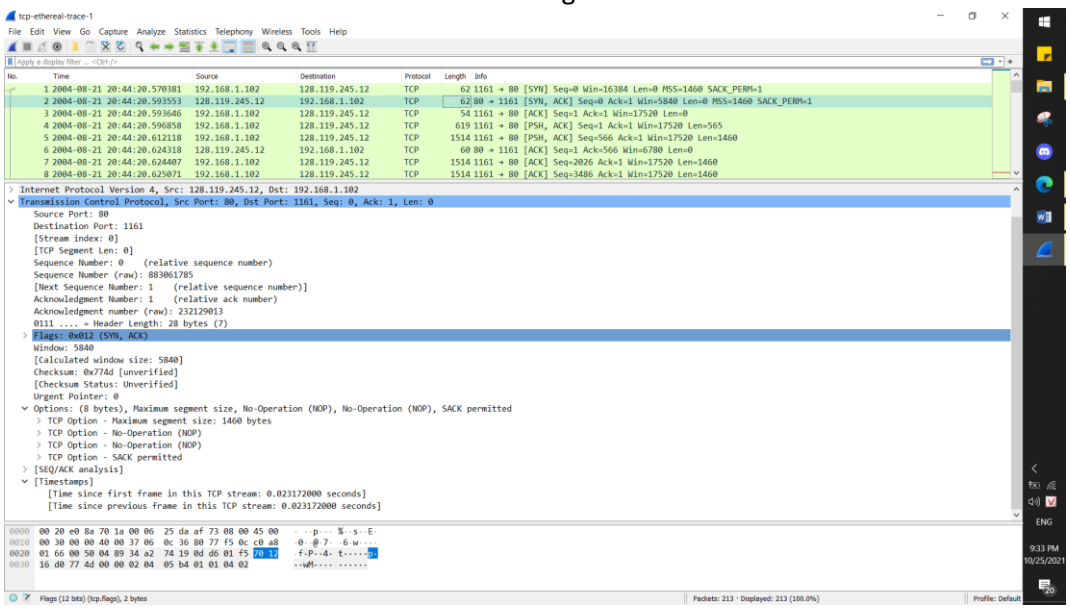


1. The source IP address is 192.168.1.102, the source port is 1161
2. The destination IP address is 128.119.245.12, the destination port is 80
3. .



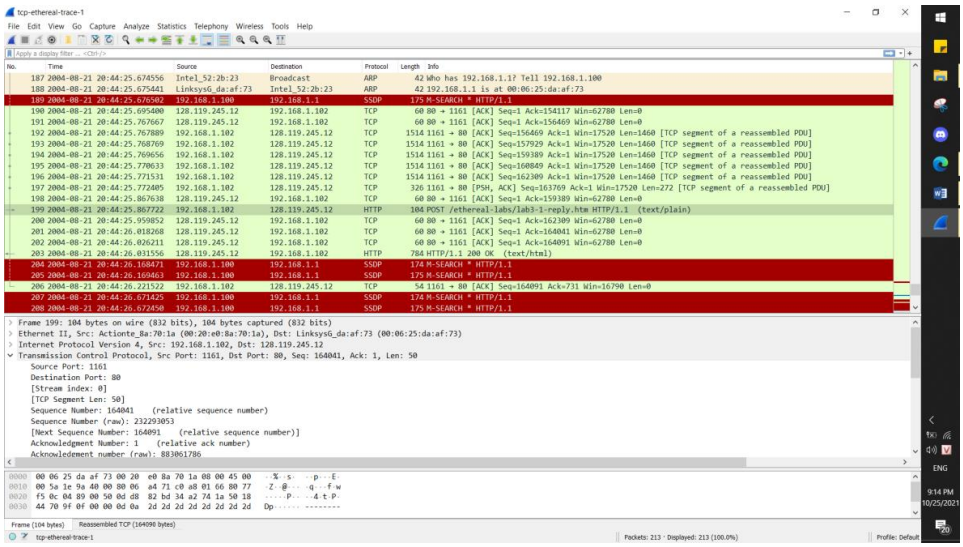
4. The sequence number is 0. We can see that the message contains a SYN flag indicating that it is a SYN segment



5. The sequence number of the SYNACK segment is 0

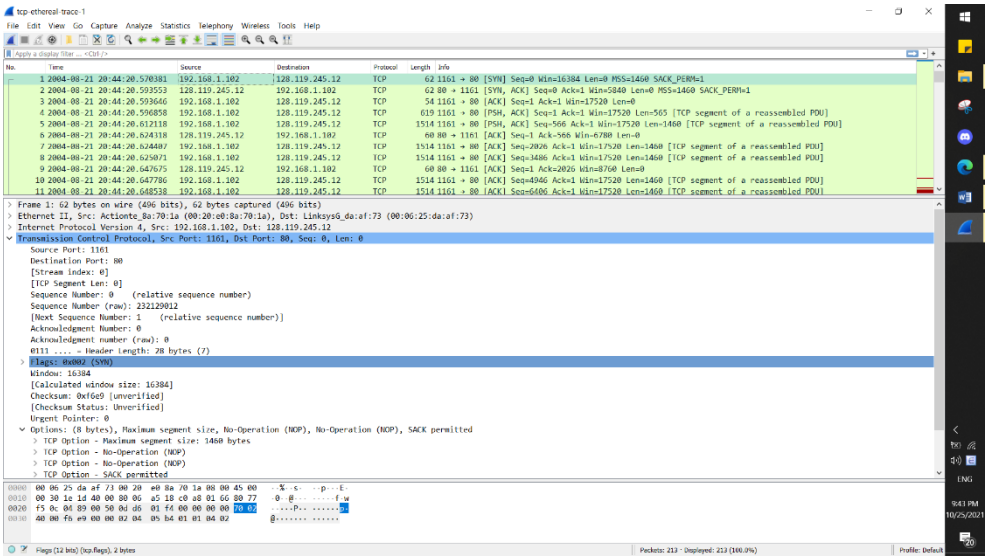
The value of the ACK field is 1. This value is determined by the initial sequence number +1

The message carries flags that show it to be a SYNACK message



6. The sequence number is 164041

7. .



8. The length is 62,62,54,619,1514,60

9. The minimum amount of available buffer space is listed as 65535. The sender is never throttled because we never reach full capacity of the window

10. No, no segments were ever retransmitted. This is shown by the fact that an old ACK number was never resent in order to re-request former packets

11. The receiver is typically acking 432 bits. There There are cases where the receiver acks every other segment. This is shown when more than one ack occurs in a row.

12. The throughput can be calculated by using the value of the last ack(149,629)- the first sequence number(1) divided by the time since first frame (1.6) = 93517.6 bps.