

TCP - Connection oriented -

UDP - Connectionless -
keep track of connection information.

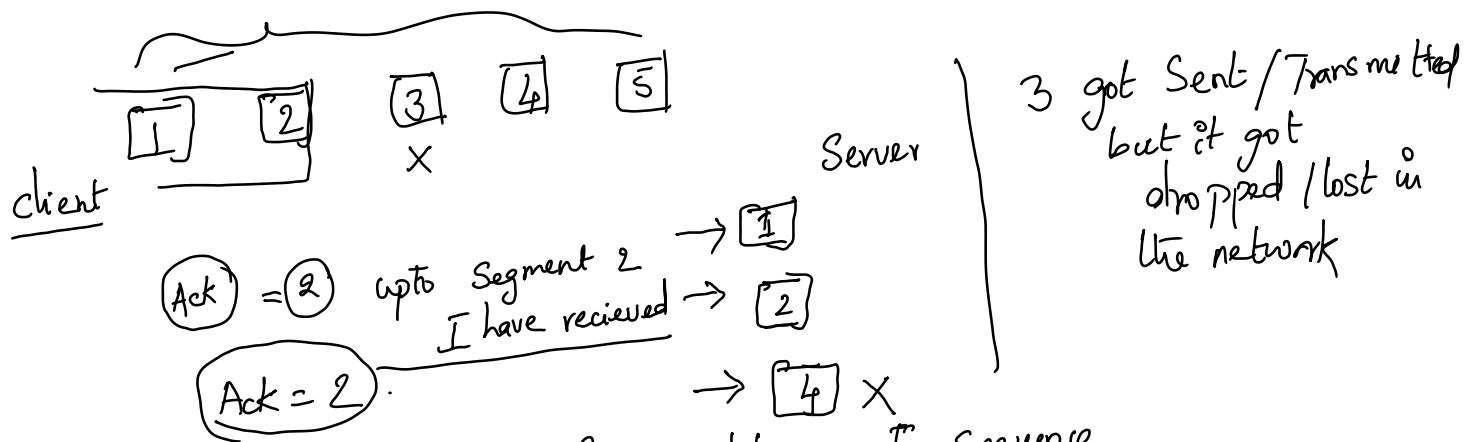
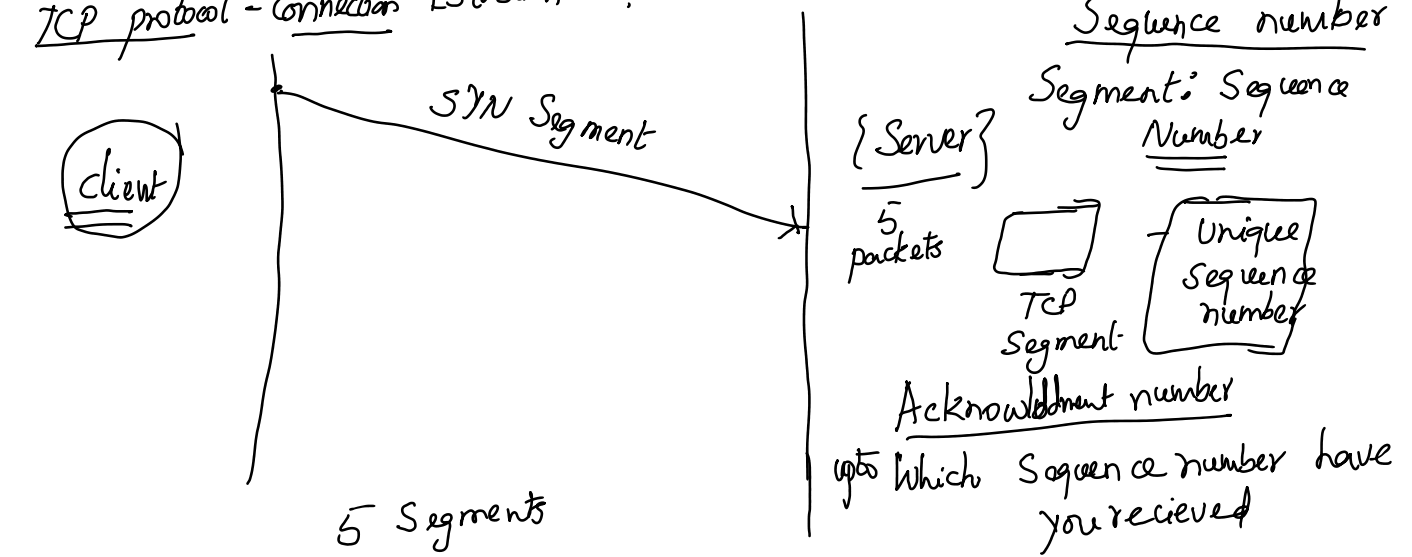
How does TCP keep track of connection (or) state information?

Sequence numbers and Acknowledgements

TCP Flags - 6 flags
 { ACK, SYN, RST, URG, PSH, FIN } 6 Flags

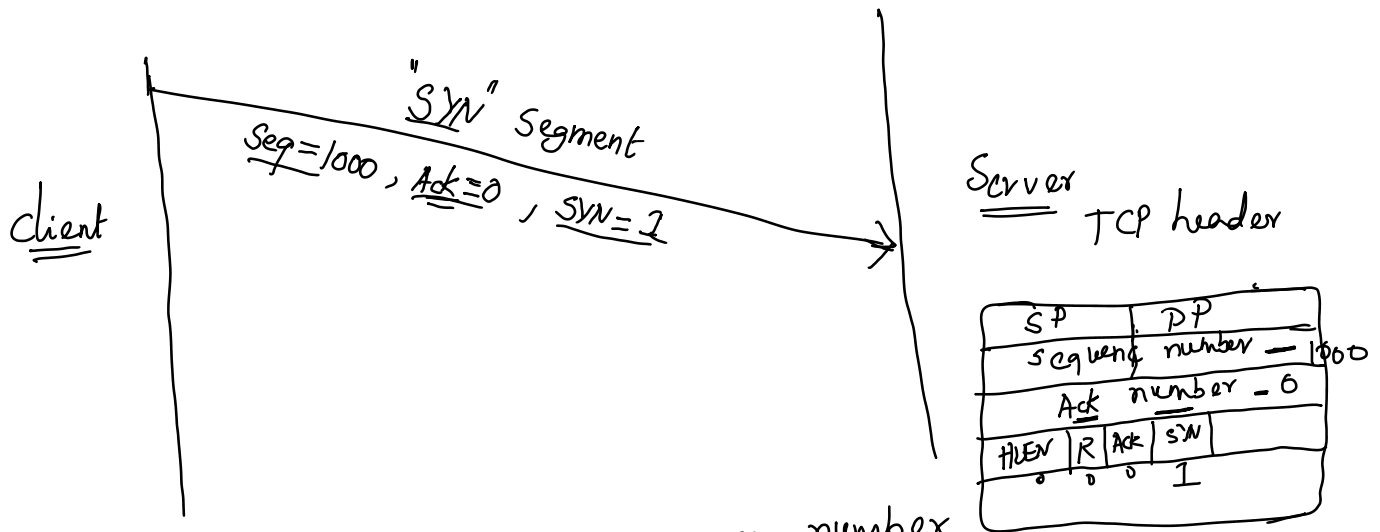
TCP Connection Establishment? How does a TCP connection Establish?

TCP protocol - Connection Establishment?



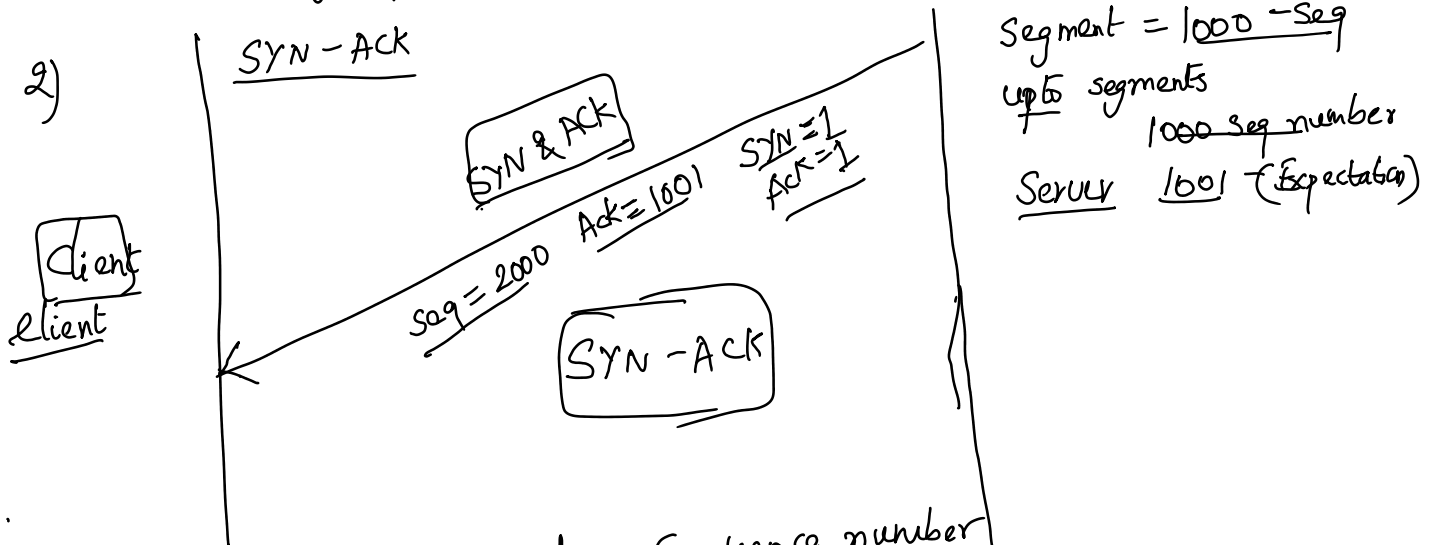
TCP - Reliable delivery - In-Sequence
 It re-transmits 3 { Cumulative Acknowledgment }

TCP - reliable delivery
 It re-transmits 3 } {Cumulative} Acknowledgment

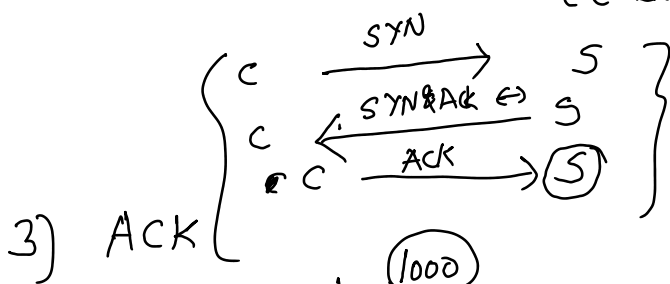


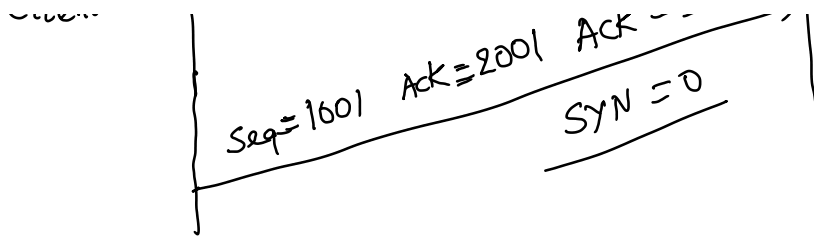
1) client chooses a random sequence number (SYN - Segment)

Server receives the SYN segments - Ack SYN - Ack



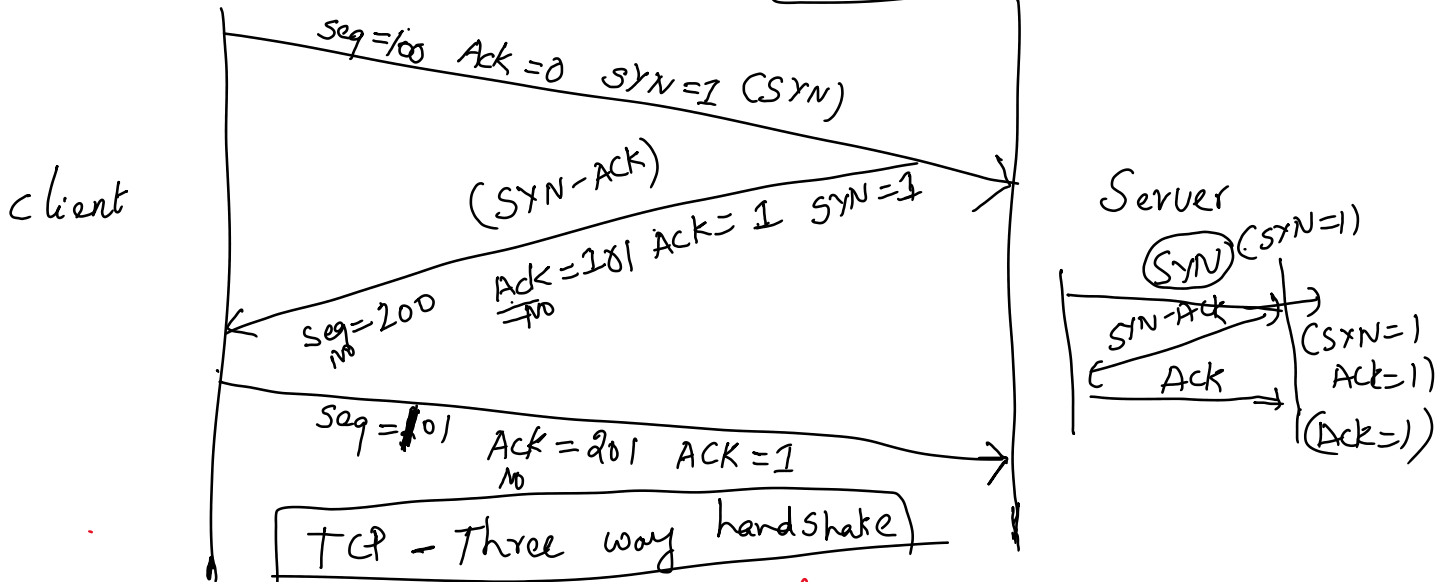
- Server chooses a random sequence number (client chose a random number)





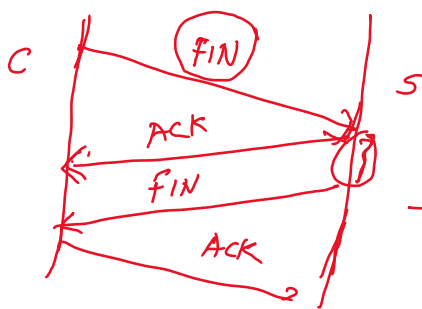
The whole process

SYN-Flag - 1 } SYN
Ack-Flag - 1 } ACK



{ - Connection management of TCP - }

Ending a TCP connection - { Termination of a TCP connection }



FIN flag \leftrightarrow Segment
TCP Segment \leftarrow FIN=1

- Termination of a TCP connection

End