

TCP → Transmission Control Protocol

Friday, 12 June 2020 8:57 PM

UDP → datagram

reliable delivery

Acknowledgment based

↳ Transport layer protocol

What TCP does?

① Send data → appropriate transmission rate.

② Segment data

③ Congestion Control

④ Identify and retransmit message

Segments

unsynchronized
↳ collection of bytes

app layer

transport

Network

reassemble

app layer

Transport



HTTP / HTTPS

★ Application -

① FTP

② SSH

③ Email

④ Web browsing

Key features

Connection Oriented

full duplex

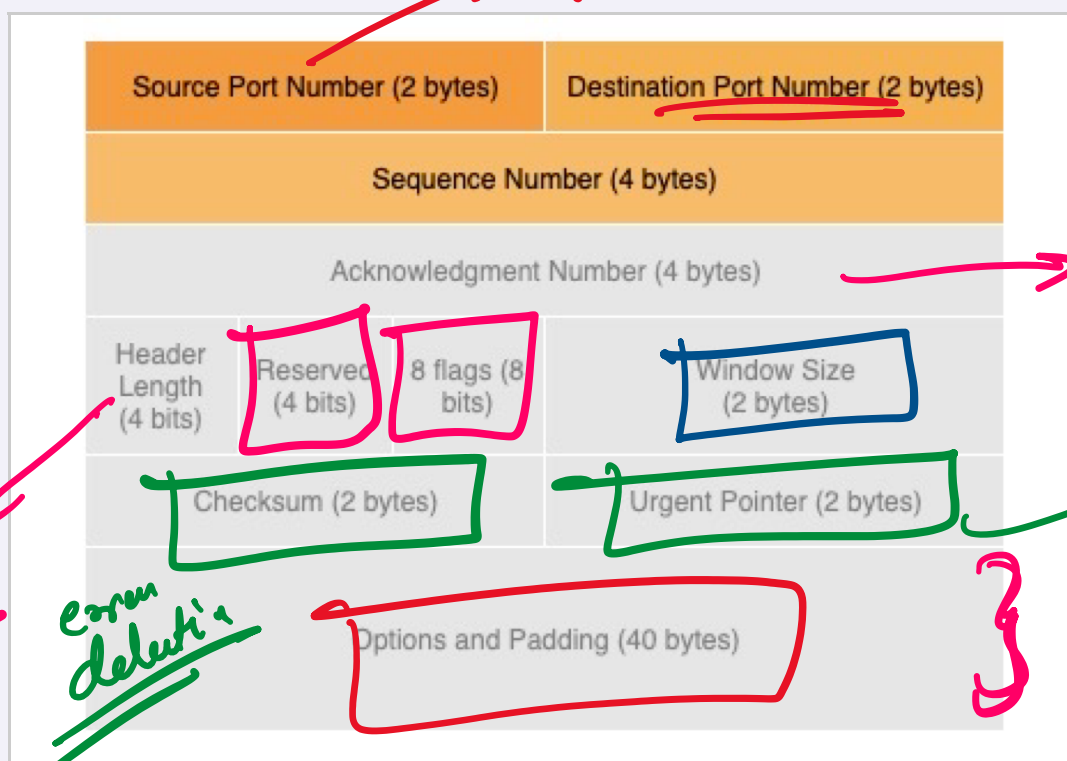
Point To point Transmission

exactly 2 endpoints

Error Control detect errors

Congestion Control

Segment Header



application

Telnet

↳ key stroke

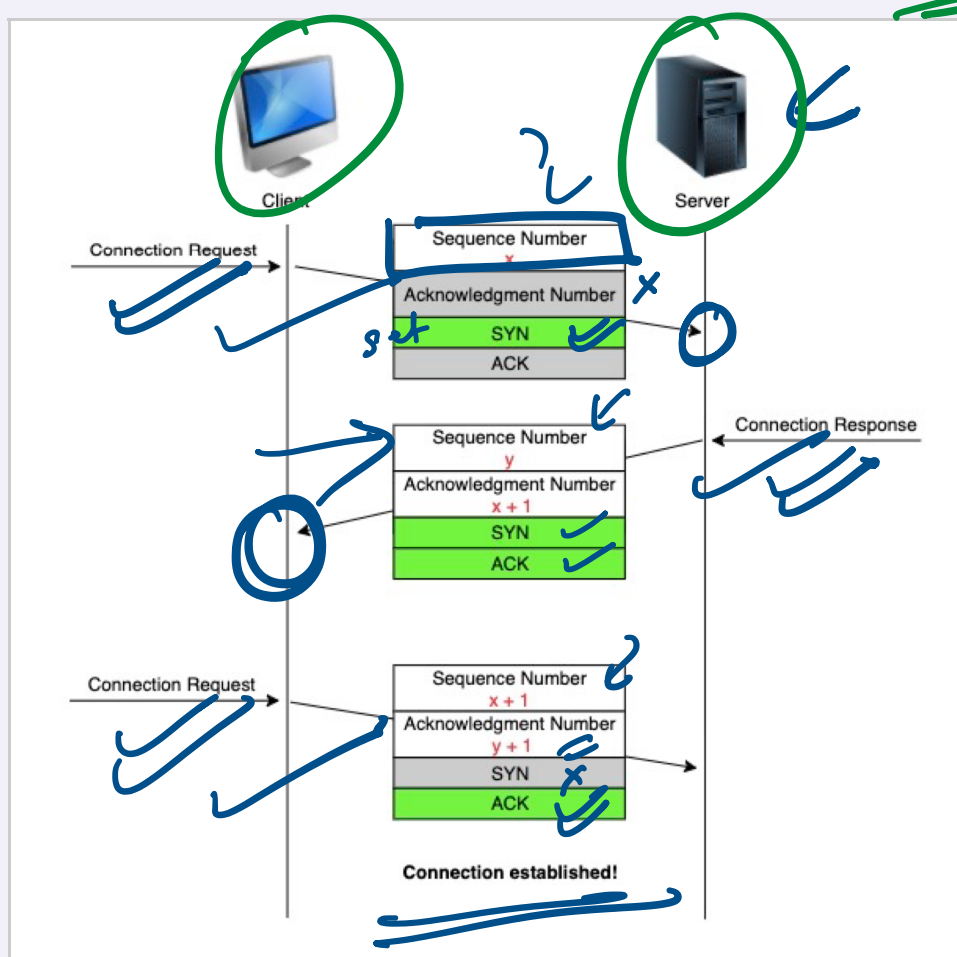
PUSH

Synchronization

C W R U A P K S f
E C R C S S Y i
N G K H T N N
↓
Urgent pointer

[Congestion window reduced
Explicit Congestion Notification
Receiving]

The 3 way handshake



TCP