- 1. Good Evening
- 2. Lecture Begins at 9:08 pm
- 3. Topic: TCP & UDP + Socket Program.

Agenda

- 1. TCP and UDP
- 2. How TCP works?
- 3. Socket Programming

TOP & ODF

Client

Appl

TCP

Appl

TCP

FINE

TIP

Thirth d

App 2

HTTP

Land

TCP

Land

TCP

Land

TP

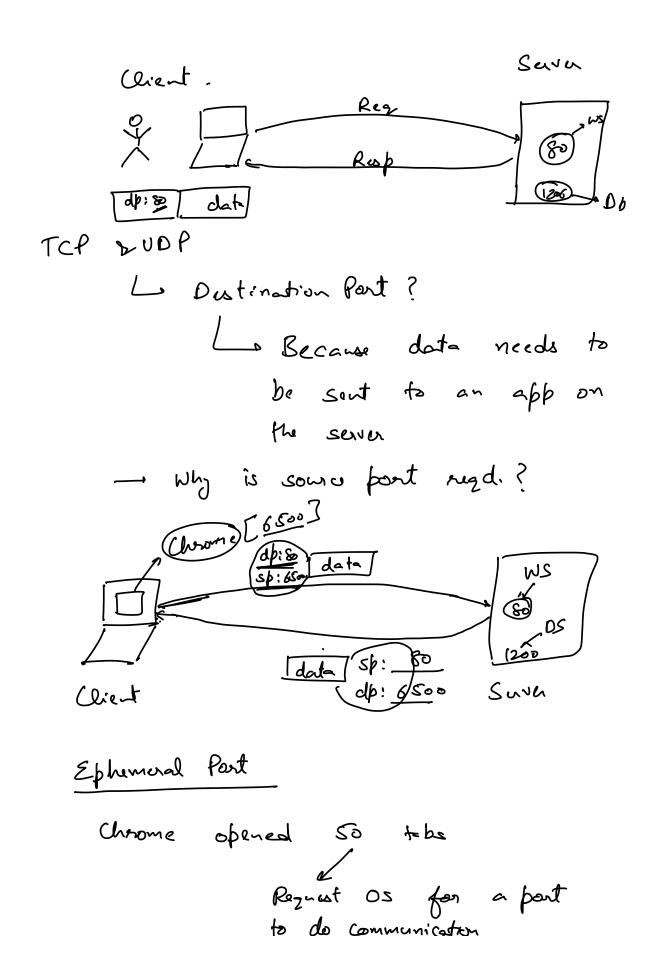
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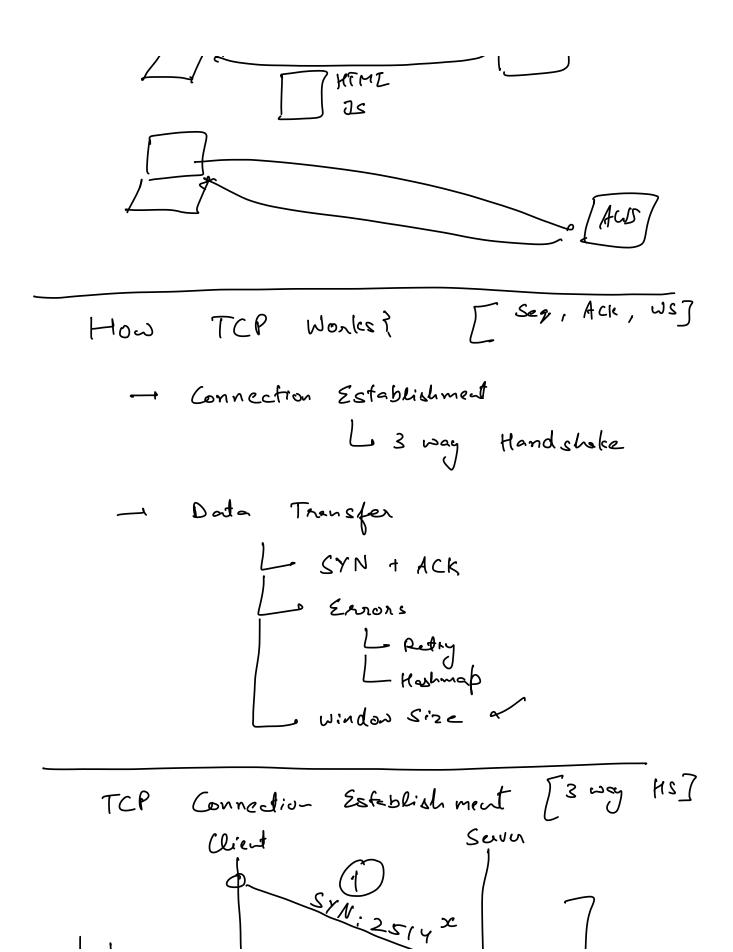
- A Data increases down the layer & decreases up the layers
- # Headers are information added by protocols to fulfill their responsibilities
- A More presponsibilities imply a bigger header size

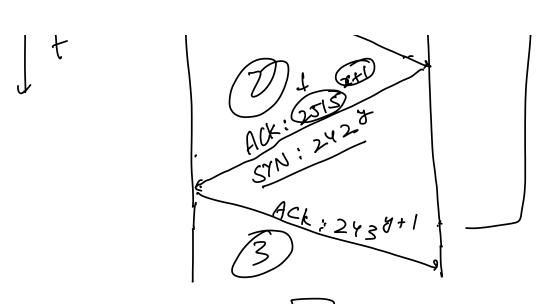
TCP DOP Transmission Control & User Dat-gram Protocol Protocol Reliable protocol Erron checking & Erron checking Accovery Accovery Connection Oriented Connection lays

★ Larger header size 20 - 60 bytes	Smaller header Size 8 by tes
\$ Slawer	* Faster
C.S. HTTP12, Reliable	e.g. NoJP, Kamos
Tel Header Distinction Port Source Port Checksum Seg No Ack no. Window Size.	UDP Headu / Le Dust port 2 Checksum 2 Length 7 2
OSI Model 1. App - 30 °	TCP/IP Model
2. Pre - Comp/Enci	Application
3. Susion - Usar 4. Throughout - End to	Find Transport
5. Network - Routine	J Network IP
G. Dak Cink → Hop 7. Physical →	to Hop Date Link



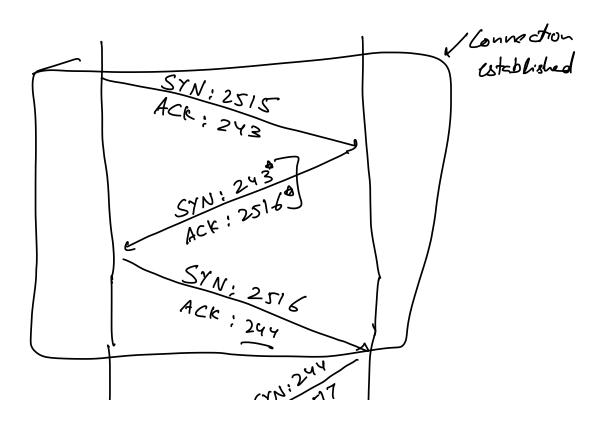
Os assigns them a port temporarily [Ephemoral Port] Dest Part] 2 bytes = 216 different Some Part] 2 bytes = 216 different part addresses (0- 65535) 65536 , 0-65535 0-65536 Command to check Le log -i -a -P

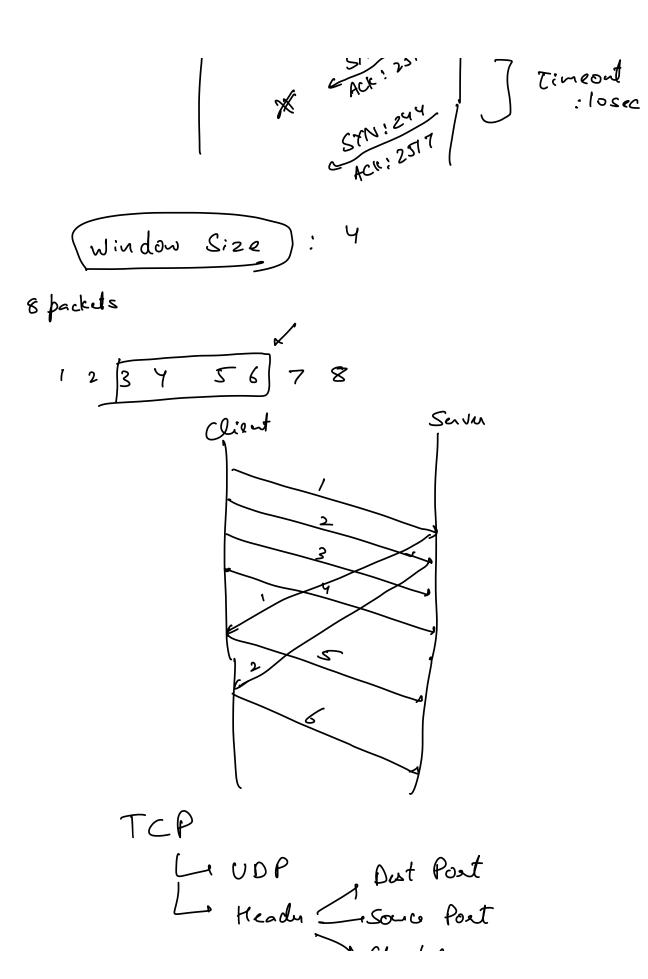


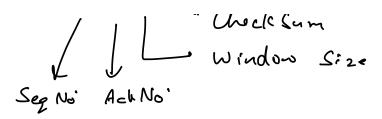


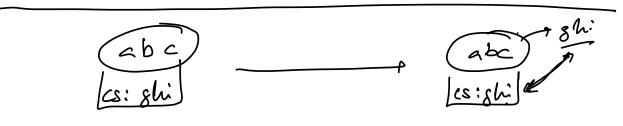
1. STN 2. STN + ACR 3. ACR 3 way HS to establish connection

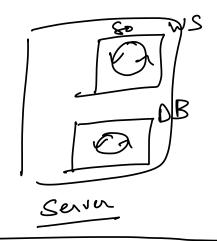
Data Transfer







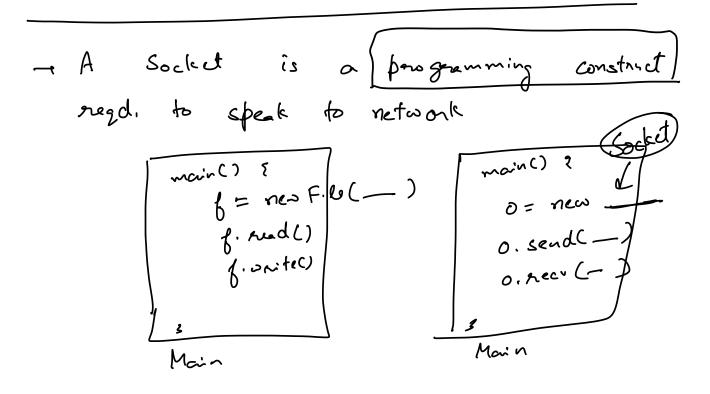




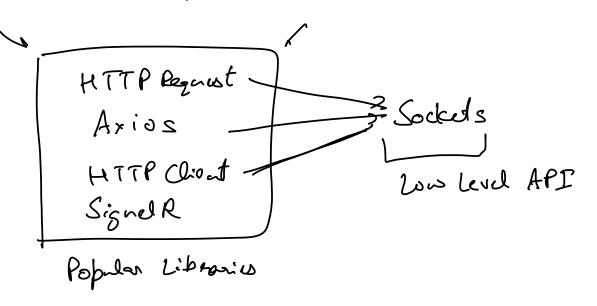
Break: (10:20-10:28)

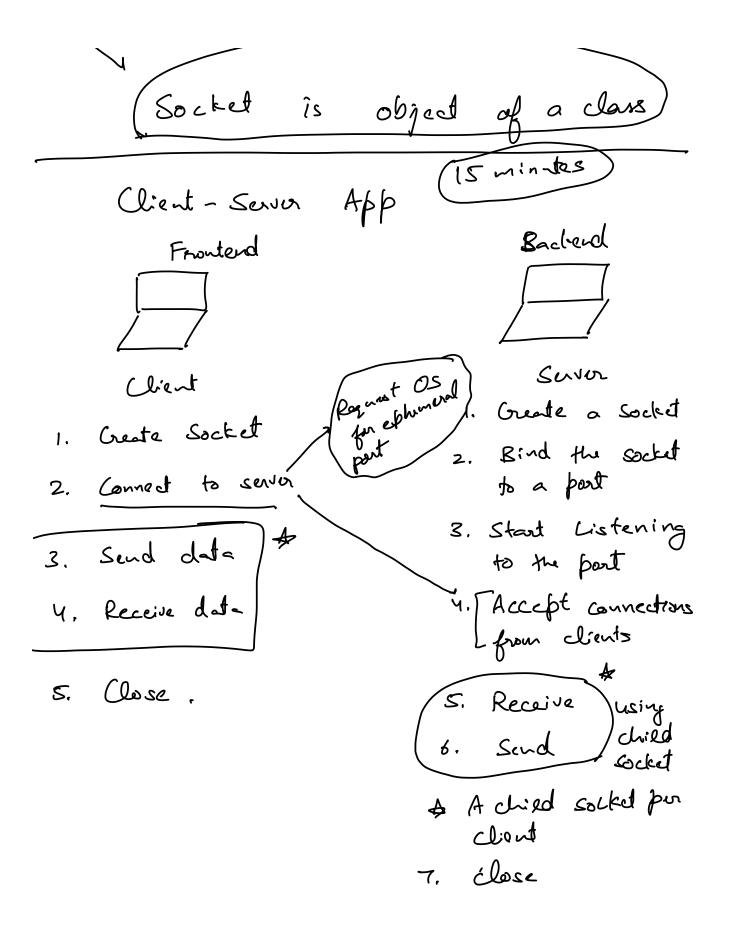
Socket Programming

- 1. Theoretical Concepts
- 2. Basic Client Serva App
- M. 14: Handad Convin



Socked + web Sockets





Client-Sever App

Multi-thrended Suver Los Able to listen to many clients
As Mulli- Abreading S S S S S S S S S S S S S S S S S S S
SUVU APPLICATION lagar HTTP 12/3 45

laddr, raddr