## TCP/IP tononspoont layer (Layer 4 of OSI model)

Udp)

Susen datagram perotocol

>UDP is connectionless.

> Does not garantee delivery

of parket.

> Tommission control protocol

> Packet delivery is general.

-> Disadvantage: Overhead

> TCP is connection asignted.

Doc Ket)

7 It is the combination IP address of host, port number and

transport perotocal used.

| 16 bit source port                        |          |   |   |        |   | 16 bit destination port |   |   |                    |
|---|----------|---|---|--------|---|-------------------------|---|---|--------------------|
| 32 bit sequence number                    |          |   |   |        |   |                         |   |   |                    |
| 32 bit acknowledgement number             |          |   |   |        |   |                         |   |   |                    |
| Header                                    | Reserved | C | Е | U      | Α | R                       | S | F | Window Size        |
| length                                    |          | W | C | R<br>G | C | S                       | Υ | 1 | _                  |
|   |          | R | E | G      | K | Т                       | N | N |                    |
| 16 bit TCP checksum 16 bit urgent pointer |          |   |   |        |   |                         |   |   | bit urgent pointer |
| Options                                   |          |   |   |        |   |                         |   |   |                    |
| Data                                      |          |   |   |        |   |                         |   |   |                    |
|   |          |   |   |        |   |                         |   |   |                    |

STCP formed

> Number of data segment sender is allowed to send without neceiving

\* Post number

Post number layer 4 to layer 7.

Well Known Post number < 1023

| APPLICATION | PORT NUMBER | TRANSPORT LAYER |
|-------------|-------------|-----------------|
| HTTP        | 80          | TCP             |
| FTP         | 21          | TCP             |
| FTP Data    | 20          | TCP             |
| Telnet      | 23          | TCP             |
| DNS         | 53          | TCP/UDP         |
| TFTP        | 69          | UDP             |
| SNMP        | 161         | UDP             |

> May not be followed Stignistly by vanders.

(legistered ports = 1024 - 49151

Dynamic/Porivde posts = 49152 - 65535