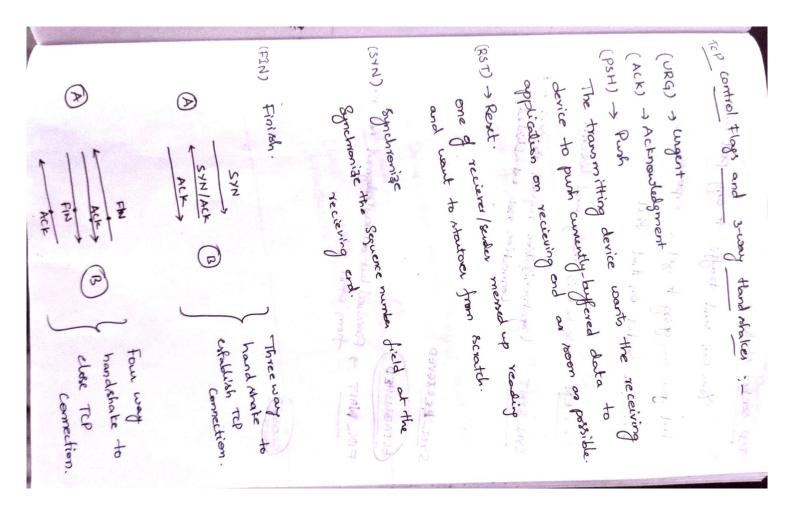
Non Routable Address Spaces used for only interior ne dustriodien son depending en time Allows the applications to communicate in a way Application Layer! they understand. TCP port & sockets Jana packet Multiplexing, De Multiplexing. post TCPVA UDP 3-way hand shake How firewalls keep networks Different processer Different mou 1 1 1 V V Darmady De Multiplexer Multiplexer bles a contenserie

tranged 957 16 bit number (what is it?) port :used to direct traffic to specific services running on a networked computer. cuby is H?) Acknowled gament numb A program running on a computer Server or a service waiting to be arrived for data. Different network services mun while listening en specific ports for incoming requests. traditional Port for HTTP in Port 80. Port for or traffic in the dearen dearen section of poto known as ephemiero. Speket Addrem: tet Address.

Portunber. roell ruild

TCP Segment: TCP header and data section flort bar of bour Destination Port Source Port Sequence Number (32) Acknowledgement number (32) 32 73 Just sound Data Payload (Varies) en specific-parts for incoming Source Port :high numbered port chosen from a special section of ports known as ephemeral ports! Sequence Number. in the divided parts.



You can send traffic to any post you want You can send traffic to any post you want but you are going to get a remponse if a program but you are going to get a remponse if a program opened a sacket on that Post.

LISTEN socket is ready and listening.

SYN-SENT (synchronization request its sent but Connection not extallished)

SYN- RERIEVED

ESTABLISHED

FIN_ WAIT -) Finished but acknowledgment not reviewed from other side.

CLOSED Sand

in) Finish

connection Oriented & Connectionless Protocol
Wisher a connection
is property (TCP) data
Too much lot less traffic for but love some but love some
L'anilederici
only used if you want used for streaming.
Firewalls: - Device that blocks traffic that meets
Firewalls: - Device
Certain criteria.
HTTP:- (web browsers & servers)

Name Resolution - DNS: DNS's function Strings of letters -> TO Address Domain Name -> IP Address Name Resolution. Mac Address Hardcoded for a device TP Address Subnet Most Gateway for a host DNS Server DNS Server
DNS wers UDP for communication. Because only 1 UDP datagram is root inceded, y more is needed, Establish a TLP server Connection. Server (Caching) Tecursive)

oHCP: - Application layer protocol that automates the Configuration process of hosts on a network.

Dynamic Allocation:

A vange of IP addresses is set asside for

A vange of IP addresses is set asside for

Client devices and one of theres IPA is issued

to these devices when they request one.

Network Address Translation:

IP masquerading...

(Middleman the source IP)

Port Preser votien:
Middle man router remembers/keeps

for communication

Port forwarding: -