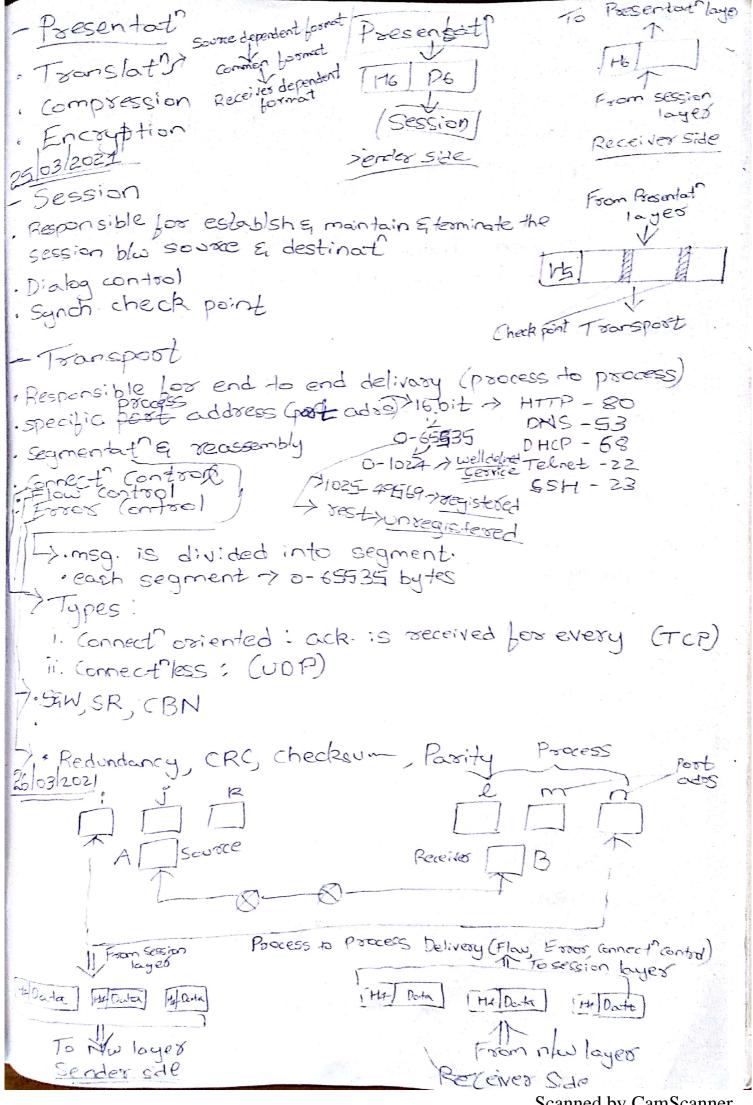
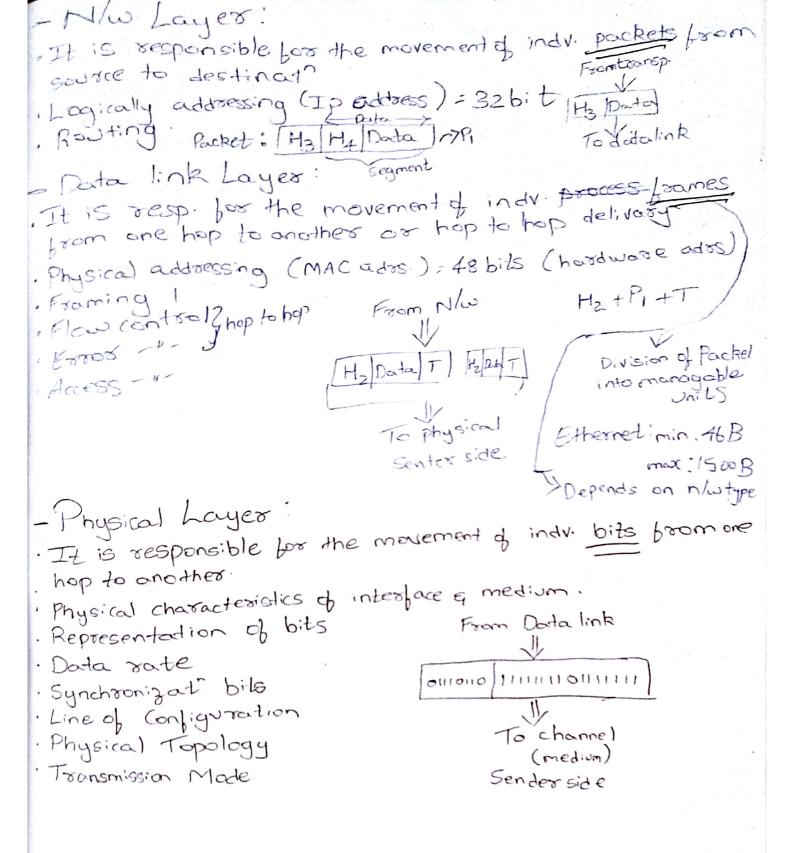
Data comm. & N/w? - 4#5thed. - Foxouzam lata Communication Stockhood unsto. Semistor. LXMLJSON · Tx, Rx, channel, msg., protocol -stored in mg audio defined format wirelesc L Databases (Coaxia) Ltable UTP STP Little barnily device T568A T568B Switched NW Skt. switched debag = Setup time + prop. debay +disconnection Datagram Virtual cht. approach approach - Packet: Header + Data L source endest ados & Data is divided into smaller packets Lite Utilise but proposly
Lite entire data is gent together; any loss stagain from intial state . Dis. is measured interms of hop (device to device exclusion Linked list is used to reasoninge the received myg. . Router decireds the path to send the packets based on load balance - Vistickt approach · A virit. Lunnel is built after the Data gram approach from Source to destr. & every successive data will below some path.

· MDLS of each Packet is assigned label (YCI) Scanned by CamScanner

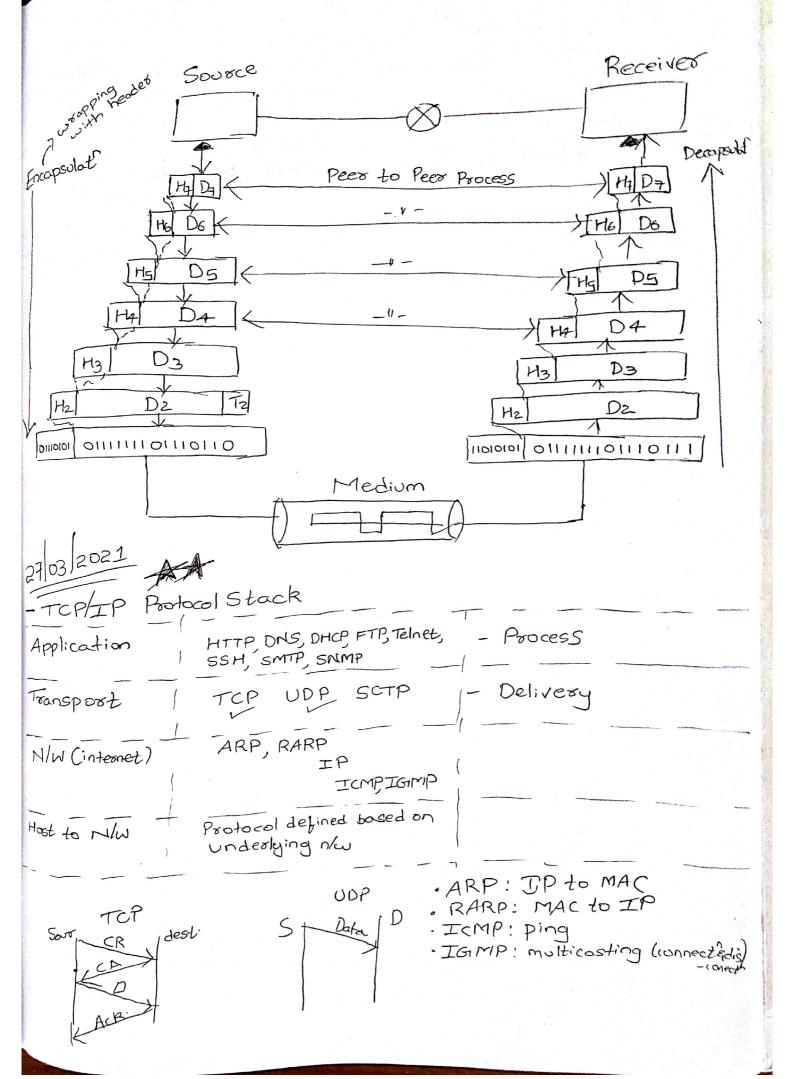
-> Topologies:
1. Mesh: every node is connected to every other nade.
reach node has n-1 edges for a total of n edges
· 26n Ze n(n-1) connect
2:1900 1:000 2
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
· Adv. : fault totaline. Disadv. : managing / maintainance diff. diff. to replace a node
rcost
ande connections
· Partial mesh: some river (onnect) = n(n-1)
2. Ring:
· Unidirectional o Token Passing
Packet Floren loelease-token
3. Stat: n nodes => n connect . Ethernet LAN n/w hosts . one connected hub all hosts . one connected hub all hosts . one connected hub all hosts
· Ethernet LATI but all hosts one connected hobeis lost
4. Bus: Thicknet coarial lost.
· coaxial Mthinnet coaxial
· ba is similar
5. Hybrid: 2003/2021 mixture of agry 7.
2003 2021
5 N/w Type
· LAN - small size, sam private n/w
· MAN - big - local -
· PAN - mobile pairing, I · PAN - mobile pairing, I · Alhoc n/w - w/o infrastructure, laptors connected in disposter
· Lauoc U/M

-> Internetwooking & Intranet.
Internalismal ISP -> ATET, sprintline
Regional Regional
Regional Regional TSP Local Northeand Benk Aidel TSP TSP TSP TSP
-Protocol & Std.
"Semantic: how the grp. of duta should be presented interpret. "Timing: when to communicate duta: interpret. "Standardisath: defacto; to all organisath deforms; within organisath
-> N/W Model (OSI) - Layerd task TCP/IP ref. model.
7. Application of Software bye > Application 6. Presentation of Software bye > Application 5. Session 7. Transport - intermediate of TCP, UDP, SCTP side side side 7. Network - Transport - intermediate of TCP, UDP, SCTP side side 7. Network - Transport - intermediate of TCP, UDP, SCTP side side 7. Network - Transport - intermediate of TCP, UDP, SCTP side side 7. Network - Transport - intermediate of TCP, UDP, SCTP side side 7. Network - Transport - intermediate of TCP, UDP, SCTP side side side side side side side side
- Application: . Provides user interface to access the n/w desources
westrosing bile tronses mail Filezilla
· (Applicati)
[Har Day]->msg
Proesentat"





- Summary Ob OSI
1 Application: Provides UI to access the n/w resource
2 Hesentation: Translat, Compression, Encryption
Source Chaintain Exterminate session blu
4. Toansport: End to End delivery (process to process) 5. N/w: Movement of indv. packets from source to destinat 6. Datalink: Movement of indv. frames from one hop to another 7. Physical: Movement of indv. Lite 1
6. Datalink: Movement of indy large and
7. Physical: Movement of indv. bits brom one hop to another (haptoh)
OSI Application) TCP/IP
Presentation () Application > HTTP Telnet, SSH, DNS DHCP SMTP, INMP, FTP
Transport> Transport +TCP, UDP, SCTP
Data link 7
Physical J-> Host to NIW + IEEE802.3, 802.11, 802.15.4
· Reference , Practical
- 7 layer . 4 layer
bosed on TCP/IP . 1st implemented



- Addressing

· Specific ados: domain ados.

· Port adrs.

· IP adrs.

· Physical adrs.: changes brom hop to hop