LINUX
WINDOWS
MYSQL / MSSQL
AWS / Azure , Docker , Git Github

SERVER MANAGEMENT

uname - current information on O.S
uname -a - full details
ps - running process on O.S.
kill 7018 - kill process

service - man service
service apache2 start

COMPUTER NETWORK

- Computer connected together i comp network
- Collection of comp network.
- Protocols - set of rules // defined by internet society

(a) TCP - data reach destination without being corrupt
(b) UDP - not all data reached (Video conferencing)
c) HTTP - It defines the format of data that is transferred
How the server will send back the data.

Q) How data is transferred ?
A) In the form of packets.

* DHCP protocol provides ip address through modem.
* my phone, my laptop both have same ip address provided by my ISP.
Google will only consider Global IP address
* Router will decide who will for requests, using NAT

*Q) How to decide which app request in device?
A) we use ports for that

→ port number,
Total = 2^{16} = 65,000 ~
HTTP = 80, MongoDB - 27017 SQL, 1433

0-1023, They are reserved ports
1024 - 49152, application port
49152 - remaining, we can use.

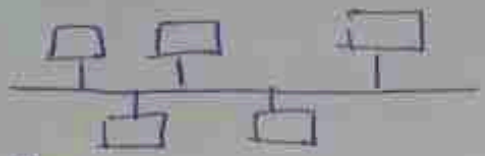
Physically: optically fibre, coaxial cable
wireless, bluetooth, wifi, 3G, 4G, LTE, 5G

SONET: Sinchronous optical networking -
use optical fibre, cover large distance

Frame relay - TO connect LAN TO WAN

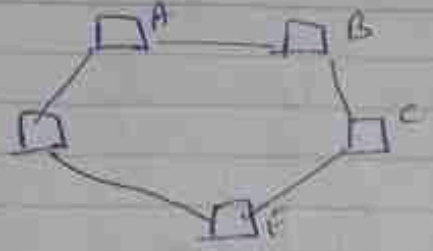
TOPOLOGY

1) BUS :



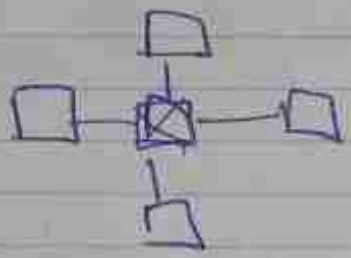
only one person can send data at a time

2) RING :



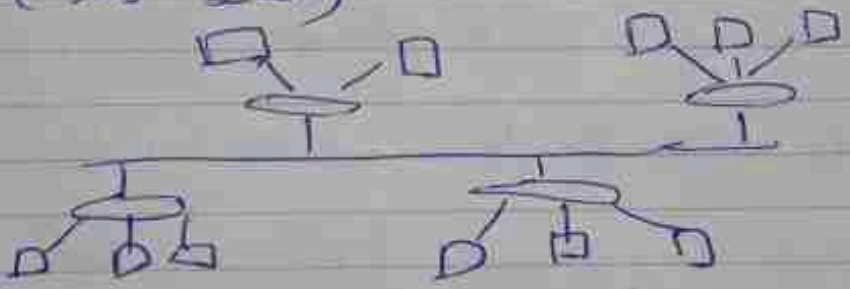
Using intermediate comp
ex for A to F
we use B and C

3) STAR :

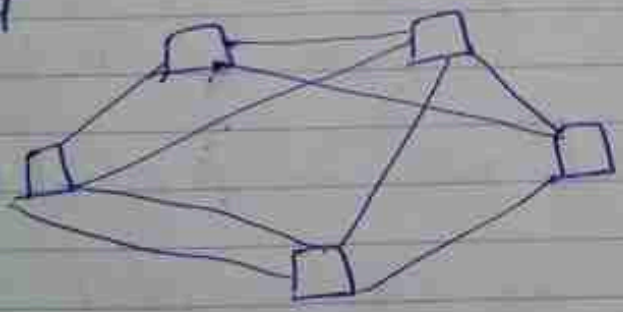


If central goes down,
system fails

4) Tree (Bus - star)



5) MESH



expensive,
we need to connect
all computers.