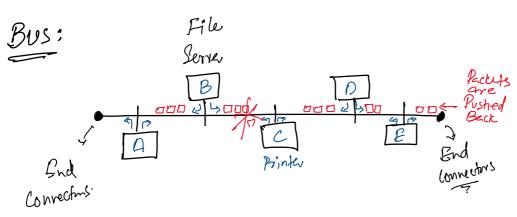
Local Area Networks (LAN):

Topology: Arrangement of nodes in a network.

Network

Desires like
Computers.



Benefits: Drawback: - Simple - Cower cost - Signal loss b/c - Signal loss b/c - Signal loss b/c - Signal loss b/c - Caping A) retwork of collision: - Caple share Unit. - Attenuation - No. 9 degrees. CSMA/CD and Elhernet;	Protocol: Elhernet Nocles Pachets: Frames Wire: medium Single Shared medium: Network: Segment Addren: MAC Addren
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- Carrier-Sense multiple acuen with Collision Detection.
- 1. Nodes sense the medium for the presence of frames.
- 2. If there are no frames already on the medium. Their the nock drops 'it's frame over the medium.
- 3. If frames (data) is dropped over the medium Simultaneously by more than one nodes, then a collision will occur.
- 4. In the event of collision all hodes will give up (throw) their frames, including the

destination hole: 3. Sending nodes then will use random timer to send tramer at different random finings to avoid the collision. STAR Topology: Wireless Acus Point (WAP) Disadvantages: Adrantages: · Initial installation cost - Data Collision 13 is high reduced -. If central hub/switch = 91 15 mill sewie fails then whole network b/L Packets only goes down. travel to the required Heps taken by network hosts to addren. - gt is easy to improve, and data? - packet has address of the receipient; by installing upgraded Sender transmits the packets directly to server hub, - Server reads packets and identifies recipient - If one of the Connection - Server transmits packets directly to receipient is broken, it only effects - Server only transmists to the secessiat. one node. Devices used over the Star topology network: /- Switch /- Repeater /- Router /- Modem /- Bridge /- Gatewry V-MIC /-WAP v- Hub Types: - routing - Hooding Mesh Topology: peer-to-peer.



Disadvantages:

- Large Amount of Cabling is needed
- Expensive to layout
- Maintainme is tought and time consuming.

Advantages:

- Easy to identify failed node
- Broken links do not disturb the refunk.
- Better privacy and scarify.

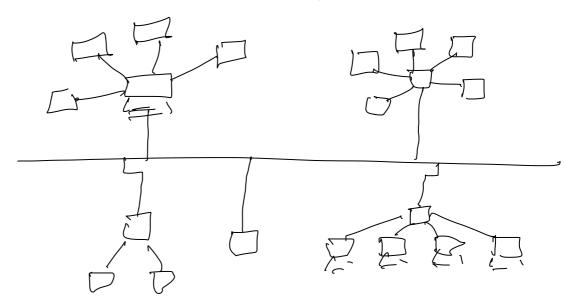
Applications:

- Wide Area Network
- Can sensors are attached with mest.
- Industrial monistering & Control

 Gystem:

Hybrid Network Popology:

Its = Fixture of two or more topologies.



Advantages:

- Existing retwals can be connected together without being upgraded.
- Handle large anout & datu easily.
- Easy to identify he twanks' fault.

Disadratages:

- very complex to put the together. - Gaseway can be oxed to connect different returns.