

Introduction

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★ What is Network?

- coined in 1960's
- ARPANET
- collection of interconnected devices, such as, computers, servers, printers & other hardware that are linked together to share resources, exchange data & facilitate communication.

★ Why Network?

- ① Resource Sharing
 - Hardware : share hardware with multiple users
 - Software : enables sharing of software applications & licenses
- ② Security
 - centralised security measures
 - Monitoring & Management

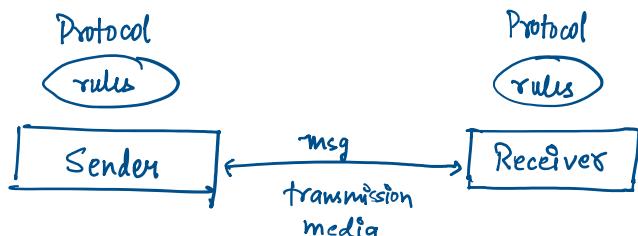
★ How the Network is Setups?

Components - Switch, Routers, Cables, NICs, Connectors, Modem, Server-client machines

→ Who does the Network Setup?

- Network Administrators
- Network Engineers
- IT support technicians
- Wireless network specialists

→ Basic components of Computer Network



★ Features of Computer Network

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- ① Performance - how quickly it responds, time taken for send/receive
- ② Reliability - quick recovery in case of failures
- ③ Scalability - easy addition of new devices
- ④ Data Sharing
- ⑤ Backup - central server for backup & recovery
- ⑥ Security - Secure from unauthorized access, no data loss during transmissions.
- ⑦ Hardware & Software Compatibility

★ Essential Hardware Components

- ① Server
- ② Client
- ③ Transmission Media
- ④ Network Interface Card (NIC)
- ⑤ Hub
- ⑥ Switch
- ⑦ Router
- ⑧ LAN Cable