

Networking

- Network : is a group of interconnected devices that exchange information these devices can be connected locally by cable or wirelessly through the internet.
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- Host Rules :
 - Clients : are computers that send requests to the servers to retrieve information.
 - Host/End device : every computer on the network.
 - Servers : are computers that provide information to end devices :
 - Email
 - Web
 - Files
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- Client server network :
 - Every device is **either** a client or server .
 - A client established a connection with the server over the network.
 - Servers can be expensive and difficult to run.
 - Peer to peer network (P2P) :
 - This network configuration has no **central server**.
 - Each computer is equal in responsibility and each has the ability to work as **both** a client and server.
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- End devices : is where a message originates from or where it is received :
 - Desktop computer
 - Ip phone
 - Laptop
 - Printer
 - Tv
- Intermediary Network Devices : interconnects end devices :
 - Switches
 - Wireless
 - Access points
 - Routers
 - Firewalls

- Network Media :
 - Local area network (LAN) : is a network infrastructure that spans a small geographical area.
 - Wide area network (WAN) : a network infrastructure that spans a wide geographical area.
 - Wireless
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Internet : is a worldwide collection of interconnected LANs and WANs.

The internet : the world

Extranet : suppliers, customers, collaborators

Intranet : Company only. The intranet is a private collection of LANs and WANs it will be accessed only from the organization members.
