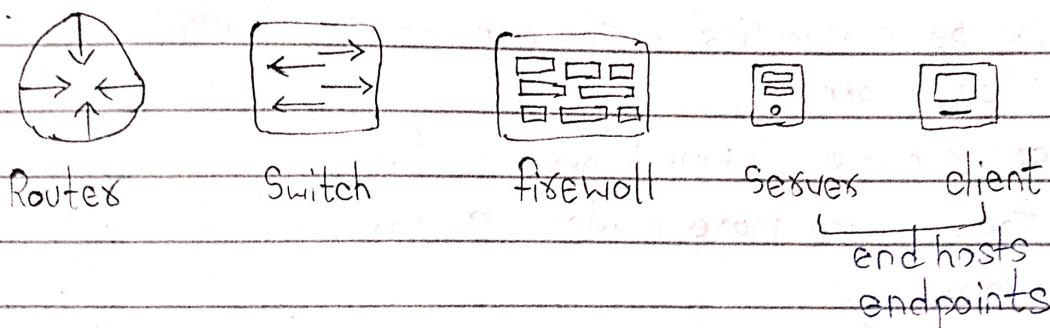


Network Devices

What is Computer network?

A Computer network is a digital telecommunications network which allow nodes to share resources.



- **Client:** A client is a device that accesses a service made available by a server.

- **Server:** A server is a device that provides functions or services for client

NOTE: The same device can be a client in some situations & a server in other situations.

- **Switches**

- ↳ Have many network interfaces/ports for end hosts to connect to (usually 24+)

- ↳ Provide connectivity to hosts within the same LAN (Local area Network).

- ↳ Do not provide connectivity b/w LAN's/ over the internet.

- Routers...

- ↳ have fewer network interfaces than switches.
- ↳ are used to provide connectivity between LANs.
- ↳ are therefore used to send data over the internet

- firewalls

- ↳ monitor & control network traffic based on configured rules.
- ↳ Can be placed 'inside' the network, or outside the networks.
- ↳ are known as 'NEXT-Generation firewalls' when they include more modern & advanced filtering capabilities.

What about the firewall on Your Computer?

- Network firewalls...

are hardware devices that filter traffic b/w networks.

- Host-based firewalls...

are software applications that filter traffic entering & exiting a host machine, like a PC.

