Computer Fundamental

Lecture 6
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Introduction to Computer Networking (Part - 2)

Network Topology

A Network Topology is the arrangement with which computer systems or network devices are connected to each other.

Common Network Topologies

- Point-to-Point
- Bus Topology
- Star Topology
- Ring Topology
- Mesh Topology
- Tree Topology
- Daisy Chain
- Hybrid Topology

Internet

It is a worldwide/global system of interconnected computer networks. It uses the standard Internet Protocol (TCP/IP). Every computer in Internet is identified by a unique IP address.

A special computer DNS (Domain Name Server) is used to provide a name to the IP Address so that the user can locate a computer by a name.

Intranet

- Intranet is the system in which multiple PCs are connected to each other. PCs in intranet are not available to the world outside the intranet. Usually each organization has its own Intranet network and members/employees of that organization can access the computers in their intranet.

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Similarities between Internet and Intranet

- Intranet sites are accessible via the web browser in a similar way as websites in the internet. However, only members of Intranet network can access intranet hosted sites.

- In Intranet, own instant messengers can be used as similar to yahoo messenger/gtalk over the internet.

Differences between Internet and Intranet

- Internet is general to PCs all over the world whereas Intranet is specific to few PCs.

- Internet provides a wider and better access to websites to a large population, whereas Intranet is restricted.

- Internet is not as safe as Intranet. Intranet can be safely privatized as per the need.