



Networking Fundamentals

- A computer network is a collection of computer and other hardware components interconnected by communication channels(Cable or satellites).Computer network allow sharing of resource and information. In other word we can say that computer network is the basic fundamental Concepts of networking and internet using different types of internet connection.

➤ **Computer Network using the following architecture:**

- **Peer-to-peer (P2P) Architecture:** - In networks which all computers have an equal status are called to peer networks. Generally in such a network each terminal has an equally component CPU.
- **Client- Server Architecture:** - Client-Server networks which computer networks have special dedicated tasks, providing service to other computers are called client server networks.

➤ **Types of networks**

There are two major types of network Local Area Network (LAN) and Wide Area Network(WAN).

- **Local Area network** :- A Local area network (LAN)is one which connects computers and devices in a limited geographical area such as home, school, computer laboratory, office building, or closely positioned group of nearest buildings.
- **Wide Area network:** - A wide area network (WAN) is one of the covers a broad area (i.e., any network that links across metropolitan, regional, or national boundaries). The Internet is the most popular WAN, And is used by business, governments, non-profit organizations, individual consumers, artists, entertainers, and many other metropolitan types
- **Internet** :- internet is a global system of interconnected computer networks. It is used the standard internet protocol suite to serve billions of users worldwide. It a network of that consists millions of private, public, academic, business, and government networks. In other word we can say that internet is the largest encyclopaedia for all age groups. The Internet helps in maintaining contact with friends and relatives across different locations via internet chatting systems and email software.

