

# Networking country easily, while using lan networks

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Networking two or more computers linked together to sharing information such as documents, E-mail or sharing applications or at the same time they can share resources such as printers, internet or storage etc... Or in Information Technology, Computer network called as data network too this is a series of points, or nodes, interconnected by communication paths for the purpose of transmitting, receiving and exchanging data, voice and video traffic. To make a network connection there are some most important components we need such as Two or more computers, Cables, NIC for each computer, switches and an OS (Operating System). These components are called as Network Building Blocks. If we take the real world example for this so many Multi-National companies are using network. Because they can gain so many advantages from this for example they can share their product and they can market around the world, they can share the file and can communicate from one country to another country easily, while using LAN networks they can share their resources so and so. The most network connection is made via electrical cable it means Ethernet and it's able to carry the information in the form of electrical signals but there are some other cases also it means, Some network connections are made via fiber optic cables.

Wireless computers communicate via signals such as Radio signal, UV Signal. Importance of Network..... If we consider a network it works as a basement for an industry. The main advantages of a network is connecting and sharing. These are the two main major purpose of a network.

Other than that we can get so much usages from the network. These are remain importance of a network:-

- Cost reduction
- Speed
- High reliability by having multiple sources of supply
- Greater flexibility because of possibility to connect devices from various vendors
- Save time
- Sharing resources
- Sharing application
- Sharing information
- Sharing a single internet connection
- Improve communication

1. Sharing Application... This means we are sharing some important applications from one computer to other computer. This is one of the most common reason for networking many business organization is that several users can work together on a single business application.

So by considering this thing we can say that sharing application is one of the most important to all users can work in a network.

2. Reduction of cost and time... This produce a rapid method for sharing and communicating so it save times. Easily and safely we can done our works otherwise we need to spend more time to share and communicate not only that but also if we Didn't use network we need to save our files or applications in another CD/DVD/Floppy disc or if we didn't share the resources we need to buy resources for each nodes so this cost much than that. Network Architecture....

. There are several ways to design a computer network. This refers to how computers are organized in a system and how tasks are allocated between these computers.

There are two types of widely use network architectures:

## 1. Peer-Peer

2. Client/Server. 1. Peer to Peer Computer Architecture: This is called as P2P. In peer to peer network it does not use a centralized server which control network activity. Instead here every computer have a special software running that allows for communications between all the computers. Here all of them are considered equal / peers there are no any special hierarchy.

This networking has been built to all version of Windows since Windows 95.

This is mostly used for file sharing. A user makes some of the files on the hard disk drive available for sharing. This will be available to the rest of the users so they can decide if they want to download one or more of these files.

If a second user has downloaded a file, this can also be made available to the rest of the users.

So now there are two possible sources from which to download the same file.

This is the method how file shares among thousands of users at a one-time download. The recent protocols for sharing files is Bit Torrent but in earlier

Napster is a file sharing network. This network is robust in the sense that if one or several of the individual computers stop working for some reason, the network continues to function. The quality of the network

depends completely on the contribution of individual participants. File sharing networks that distribute copyrighted material, such as movies, music and books, without permission.

But since peer-to-peer networks lack a central control system.

Paul Zandberg, Study. com2.

Client/Server Network Architecture: This is also called as tiered. Here the computing model which the server host, delivers and manages most of the resources and services to be consumed by the client. Here there is a centralized device work. Here one or more client computers connected to one centralized computer over network or internet.

These share computing resources. All the requests and services are delivered over a network. Client computers provide an interface to allow a computer user to request services of the server and to display the results the server returns both client and server computers are considered intelligent devices, the client-server model is completely different from the old "mainframe" model, in which a centralized mainframe computer performed all the tasks for its associated "dumb" terminals. The server's main job is to perform as a network services. so this is a dedicated one so the network which relies on dedicated servers is called a client/server network