

Network Services

Introduction

Computer systems and computerized systems help human beings to work efficiently and explore the unthinkable. When these devices are connected together to form a network, the capabilities are enhanced multi-times. Below mentioned are some basic services which any computer network can offer.

Directory Services

These services are mapping between name and its value, which can be variable value or fixed. This software system help store information, organize them and provides various means of access.

- **ACCOUNTING**

In an organization, lots of users have their user name and password mapped to them. Directory Services provides means of storing these information in cryptic form and make available when requested.

- **AUTHENTICATION & AUTHORIZATION**

User credentials can checked to authenticate a user at the time of login and/or periodically. User accounts can be set into hierarchical structure and their access to resources can be controlled using authorization schemes.

- **DOMAIN NAME SERVICES**

DNS is widely used and one of the essential services on which internet works. This system maps IP addresses to domain names, which are easier to remember and recall than IP addresses. Because network works on IP addresses and humans tend to remember website names, when a website is requested, in the back-end DNS provides website's IP address which is mapped to its name.

File Services

- **FILE SHARING**

One of the reason which gave birth to networking was file sharing. File sharing enables its users to share their data with other users. User can upload the file to a specific server, which is accessible by all intended users. As an alternative, user can make its file shared on its own computer and provides access to intended users.

- **FILE TRANSFER**

This is an activity to copy or move file from one computer to another computer or to multiple computers, with help of underlying network. Networks enable its user to locate other users in the network and transfer files.

Communication Services

- **EMAIL**

Electronic mail is a communication method and something a computer user cannot live without. This is the bases of today's internet features. Email system has one or more email servers. All its users are provided with unique IDs. When a user sends email to other user, it is actually transferred between users with help of email server.

- **SOCIAL NETWORKING**

Recent technologies have made technical life social. People, computer savvy, can find other known people or friends, can add them into their own account and can share thoughts, pictures and videos.

- **INTERNET CHAT**

Internet chat provides instant text transfer services between two hosts. Two or more people can communicate with each other user Internet Relay Chat services which is text based. These days, voice chat and video chat are common too.

- **DISCUSSION BOARDS**

Discussion boards provides a mechanism to connect multiple peoples with same interests. It enables its users to put queries, questions, suggestions which can be seen by all other users. Other may respond as well.

- **REMOTE ACCESS**

This service enables user to access their own data lying on their computer, remotely. This feature is known as Remote desktop. This can be done via some remote device, e.g. mobile phone or home computer.

Application Services

- **RESOURCE SHARING**

To use resources efficiently and economically, network provides a mean to share them. This may include Servers, Printers, and Storage Media etc.

- **DATABASES**

This application service is one of the most important one. It stores data and information, processes it and enables its users to retrieve in very efficient way by using queries. Databases help organizations to make decisions based on statistics.

- **WEB SERVICES**

World Wide Web has become the synonym for Internet. It is used to connect to the Internet and access files and information services provided by the internet servers.

Source:

http://www.tutorialspoint.com/data_communication_computer_network/network_services.htm