

Computer to retrieve files and to manage files in a remote computer.

ii) Mail Services :-

This application provides the basis for email forwarding and storage.

iii) Directory Services :-

This application provides distributed database source and access for global information about various objects and services.

iv) Network Virtual Terminal :-

A network virtual terminal is a software version of physical terminal & allows the user to log on to a remote host.

### TCP/IP Reference Model

TCP/IP means Transmission Control Protocol and Internet Protocol. It is the network model used in the current internet architecture as well. Protocols are set of rules which govern every possible communication over a network. These protocols describe the movement of data b/w the source and destination on the internet. These protocols offer simple naming and



## Addressing Scheme

Application Layer

Transport Layer

Internet Layer

Host-to-N/W Layer  
(N/W Access Layer)

i) Host-to-N/W Layer :-

a) Lowest layer of all the layers.

b) Protocol is used to connect to the host so that the packets can be sent over it.

c) Varies from host-to-host and network to network.

ii) Internet Layer :-

a) Selection of a packet-switching network which is based on a connection-less internetwork is called an Internet layer.

b) It is the layer which holds the whole architecture together.



c) It helps the packet to travel independently to this destination.

d)   
 ii) Transport Layer - From OSI model.

### Connectionless

It means end-to-end connection.

Connectionless Communication is usually achieved by transmitting information in one direction from source to destination without checking to see if the destination is still there or if it is prepared to receive the information. In environment where there is difficulty than reaching to the destination information maybe transmitted several times before the complete message is received.

Walkie-Talkie, Citizens-banned radio are a good example of Connectionless Communication.

We speak into the mike and radio transmitter sends out the signal, if the person receiving us doesn't understand then there is nothing radio can do it to correct thing. The speaker must send a message box to repeat a lost message.



### Connection-Oriented :-

It is the model after telephone system to talk to someone, we pickup the phone, dial a number, talk and then disconnect it. Similarly, to use a Connection-oriented network services. The services first establish the connection, use the connection and then release the connection. It acts like a tube. The sender pushes object in one end, receiver takes them out in the same order at the other end.

