How Internet Works?

What is Internet?

Internet is of two terms, “Inter” means interconnection, and “net” means network. Combining both terms it makes INTERNET, i.e., interconnection of network for sharing of data.

HISTORY

In 1960 – Arpanet (Project)

Data Packets

Source Destination

In 1970 – Technology turns to an organizational/institutional level.

In 1980 – DNS System came into picture which changes string to IP address.

In 1990 – E-mails, messages, Shopping websites came into picture.

In 2000 – Facebook came into picture.

Request-get, put, post, delete, etc.

 Response

Client Server

Internet Service Provider (ISP) – your local internet provider from whom you take service of internet.

1.2.3.4 5.6.7.8

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ISP

Packets – Data cannot be transferred directly, instead data is divided into smaller chunks which we termed as packets which integrated once received by the receiver.

Protocol Stack –

Application

Application

Ap

Internet

Hardware

IP

TCP

Hardware

IP

TCP

Protocols are used for transferring the data from client to receiver.

Example – g-mail uses SMTP, i.e., Simple Mail Transfer Protocol.

How Packets are travelled from clients to receiver:

Client -----> ISP -----> Router-----> Server

ISP detects if it knows the IP address of which It received the query.

ISP checks if it is known to it or not if yes then it will pass the query , if no then it will send the query to bigger Service Provider such as, WAN or CAN.