

Key Milestones in Evolution of Internet

- 1950's
 - ARPA (Advanced Research Project Agency)
 - US Defense organization, few computers which are located in different parts of the country were provided with some sort of connectivity, so that they can communicate among themselves.
- 1970-
 - ARPANET creates precursor to Transmission Control Protocol
 - not exactly TCP, a preliminary protocol which through subsequent refinements and modification became finally the TCP as we see today.
- 1971
 - Universities added to net
 - Defense funded research used to take place in the universities
 - Telnet and FTP are available
 - Telnet- you can start a remote session on a different computer sitting on your own computer
 - FTP - you can transfer a file or group of files between two machines.
- 1972
 - First electronic mail message sent
- 1973-
 - ARPANET connected to England and Norway
- 1974-
 - TCP starts being used for communicating across a system of networks
- 1982-
 - US DoD starts building defense data networks based on ARPANET technology
- 1983-
 - ARPANET splits into ARPANET and MILNET(some additional security requirements)
 - Internet now in place
 - started to actually take a shape as we see it today
 - TCP/IP standardized
- 1986-
 - NSF (National Science Foundation) implements NSFNET; a system of regional networks of routers connected over a backbone network.
 - Routers belonging to the different regional networks were strongly connected among themselves, and this constituted what is called a backbone network.

- 1991
 - Archie and Gopher released
 - FTP became very popularly (command based)
 - People started to keep a large number of resources on the different FTP servers and with FTP you can connect to that server and download the whatever resource you want.
 - It is very similar to world wide web that we see today.
 - At that time, Big FTP catalogs were published
 - These documents are located in this FTP server
 - Connect there and see if you can find out
 - Archie
 - was developed as an FTP search engine
 - It returns list of FTP sites, where you could possibly get that resource.
 - Gopher
 - more intelligent version of Archie
 - shows document in category and sub-category view
 - covered both FTP sites and non FTP sites also
- 1992-
 - Internet links more than 17,000 networks in 33 countries; 3 million hosts
- 1993-
 - World wide web application is launched
- 1995-
 - ISPs started offering services
 - earlier you had to build your own network and it as your responsibility to get your network connected to the internet backbone
 - now there are ISPs, they will provide you connection and it would be there responsibility to get your network connected to the internet backbone.
 - About 30 million users.
- 2021-
 - 584 (ISPs) in India as of 30 september, 2021.
 - Jio, Airtel, Vi, BSNL as major ISPs