

NGINX

NGINX: Types of Protocols

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- **Protocol** is a digital language through which we communicate with others on the Internet.
- **Definition** : Protocol meaning is that it a set of mutually accepted and implemented rules at both ends of the communications channel for the proper exchange of **information**.
- Each *protocol* is defined in different terms and different use with unique name. Message travel from sender to reciever via a medium using a protocol.
- One of the most common and known protocol example is **HTTP**, that is used over the world wide web.

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- Transmission Control Protocol (TCP)
- Internet Protocol (IP)
- User Datagram Protocol (UDP)
- Post office Protocol (POP)
- Simple mail transport Protocol (SMTP)
- File Transfer Protocol (FTP)
- Hyper Text Transfer Protocol (HTTP)
- Hyper Text Transfer Protocol Secure (HTTPS)

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- **Transmission Control Protocol (TCP)** : TCP is a popular communication protocol which is used for communicating over a network. It divides any message into series of packets that are sent from source to destination and there it gets reassembled at the destination.
- **Internet Protocol (IP)** : IP is also working with TCP. The IP addresses in packets help in routing them through different nodes in a network until it reaches the destination system.
- **User Datagram Protocol (UDP)** : UDP is a substitute communication protocol to Transmission Control Protocol. Implemented primarily for creating loss-tolerating and low-latency linking between different applications.
- **Post office Protocol (POP)** : POP3 is designed for receiving incoming E-mails.

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- **Simple mail transport Protocol (SMTP)** : SMTP is designed to send and distribute outgoing E-Mail.
- **File Transfer Protocol (FTP)** : FTP allows users to transfer files from one machine to another.
- **Hyper Text Transfer Protocol (HTTP)** : HTTP is based on client and server model. HTTP is used for making a connection between the web client and web server. HTTP shows information in web pages.
- **Hyper Text Transfer Protocol Secure (HTTPS)** : HTTP is used for transferring data between the client browser (request) and the web server (response) in the hypertext format, same in case of HTTPS except that the transferring of data is done in an encrypted format.

Will see you in Next Lecture...

Thank you!

A close-up photograph of a hand holding a black marker, completing the cursive word 'Thank you!' on a white surface. The marker is positioned at the end of the exclamation point, and the hand is visible on the right side of the frame.

See you in next lecture ...