

# common protocols and standards Cheat Sheet by hhhhhannah (ghcytdckyc) via cheatography.com/142114/cs/31718/

#### protocol

a protocol governs the transport of data on the internet

#### common protocols

TCP - transmission control protocol

breaks up messages, reassembles, detects errors and resends lost messages

IP- internet protocol

routes packets around the internet from one IP address to another

HTTP- hypertext transfer protocol

used for accessing and receiving webpages

HTTPS - hypertext transfer protocol secure

the information is encrypted so if it intercepted it cannot be understood

FTP- file transfer protocol

used for sending and receiving files

IMAP- Internet message access protocol

leaves mesage on the server and syncs with all of your devices, can only be deleted if user deletes email

POP/3- post office protocol/3

downloads every new message to local device so it is no longer available on the server

SMTP- simple mail transfer protocol

used for sending emails

## the TCP/IP protocol stack aka layers

applications such as email clients and web browsers create data to send in this layer. SMTP, FTP and HTTP operate in this layer ation

layer

transport the transport layer creates the connection between two computers, or 'hosts'. data is then divided up into packets and given a packet layer number. packets are reassembled by the recipient's transport layer. lost packets are resent. This layer uses TCP.

internet

the Internet layer is responsible for routing packets. routers operate on this layer

layer

link layer the link layer is responsible for transporting information between nodes on the network.

### advantages:

- self-contained
- the functionality of one layer can be changed without affecting another
- senders and receivers can use different hardware and software but can communicate using the same layer protocols



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Published 16th April, 2022. Last updated 16th April, 2022. Page 1 of 1. Sponsored by Readable.com

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