

TCP/IP

The full form of TCP/IP protocol is Transmission Control Protocol / Internet Protocol.

It is a suite of communication protocols used to interconnect network devices on the Internet. It can also be used as a communication protocol in a private network (an intranet or an extranet).

This protocol specifies how data is exchanged over the Internet by providing end-to-end communications that identify how data should be broken into packets and then addressed, transmitted, routed and received at the destination. Basically, TCP defines how applications can create channels of communication across a network and IP defines how to address and route each packet to make sure it reaches the right destination.

TCP/IP uses the client/server model of communication in which a user or machine (a client) is provided a service (like sending a webpage) by another computer (a server) in the network.

This protocol is also a stateless protocol because in this each client request is considered new ~~as~~^{as} it is unrelated to previous requests.