

What are the HTTP and the HTTPS protocol?

Object-Oriented Programming is a paradigm to design a program using classes and objects. It simplifies the software development and maintenance by providing some concepts such as encapsulation, polymorphism, inheritance, abstraction.

HTTP is the Hypertext Transfer Protocol which defines the set of rules and standards on how the information can be transmitted on the World Wide Web (WWW). It helps the web browsers and web servers for communication. It is a 'stateless protocol' where each command is independent with respect to the previous command. **HTTP is an application layer protocol built upon the TCP. It uses port 80 by default.**

HTTPS is the Hypertext Transfer Protocol Secure or Secure HTTP. It is an advanced and secured version of HTTP. On top of HTTP, SSL/TLS protocol is used to provide security. It enables secure transactions by encrypting the communication and helps identify network servers securely. It uses port 443 by default.