**Protocol**

Protocols are set of rules which are used to exchange information on web irrespective of differences in software, hardware, or internal processes.

**Types of Protocol**

**HTTP(Hyper Text Transfer Protocol)**

This protocol is used to transfer text, images, and other multimedia files on the World Wide Web.

This protocol defines how the information needs to be formatted and transmitted.

**HTTPS(HyperText Transfer Protocol Secure)**

HTTPS is an extension of the Hypertext Transfer Protocol (HTTP). It is used for secure communication over a computer network.

**FTP (File Transfer Protocol)**

The File Transfer Protocol is communication protocol used for the transfer of computer files from a server to a client or client to server on network.

**SMTP(Simple Mail Transfer Protocol)**

SMTP is used to send, receive, and relay outgoing emails between senders and receivers. Protocol uses queue to add outgoing mail and uses email id of receiver to send.

SMTP sends the email from the sender's device to the receiver's mailbox

**POP3(Post Office Protocol 3)**

POP3 is used by email clients to retrieve email messages from a mail server.

POP3 retrieves and organizes emails from the receiver's mail server to the receiver's computer.

**IMAP (Internet Message Access Protocol)**

IMAP is a protocol used for retrieving emails from a mail server. It allows users to access and manage their emails on the server, rather than downloading them to a local device. This means that the user can access their emails from multiple devices and the emails will be synced across all devices.

**SSH (Secure Shell)**

It provides a secure and encrypted way to remotely access(login) and manage servers.