Unique Id

Unique id is something that can never be repeated. Consider the case of one phone calling another

Steps

T1 T2

1 Ring the no of T2(T2 no must be unique)

Phone Rings

Accept/Reject

If accepted 2 way communication Full-Duplex

Cut the phone Cut the phone

T1 is the client and T2 the server, T1 must know the address i,e no of T2

Computer Networks use the telephone network.

Client is the browser, and server is the web-server. Client must have the address of the web server.

Web Server address is the IP Address. IP V4 has 4 bytes, blocks of 8 bits

0-255,0-255,0-255,0-255

28 X 28 X 28 X 28 = 232 = total no of computers possible in 1 network.

Every computer on a network has a unique IP address. Local to local localhost =127.0.0.1

That means we can have only one server per computer. Therefore a web server address has two parts

IP address + port no

IP = 232 and Port no is 216

Default ports

HTTP 80

Telnet 23

SMTP 25

FTP 21