



Web Technology (KCS-602)

Unit 3

Networking: Internet Addressing, InetAddress,
Factory Methods, Instance Methods

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Java Socket Programming

- Java Socket programming is used for communication between the applications running on different JRE.
- Java Socket programming can be connection-oriented or connection-less.
- Socket and ServerSocket classes are used for connection-oriented socket programming.
- DatagramSocket and DatagramPacket classes are used for connection-less socket programming.

The client in socket programming must know two information:

- IP Address of Server, and
- Port number.

Socket class

A socket is simply an endpoint for communications between the machines.

The Socket class can be used to create a socket.

ServerSocket class

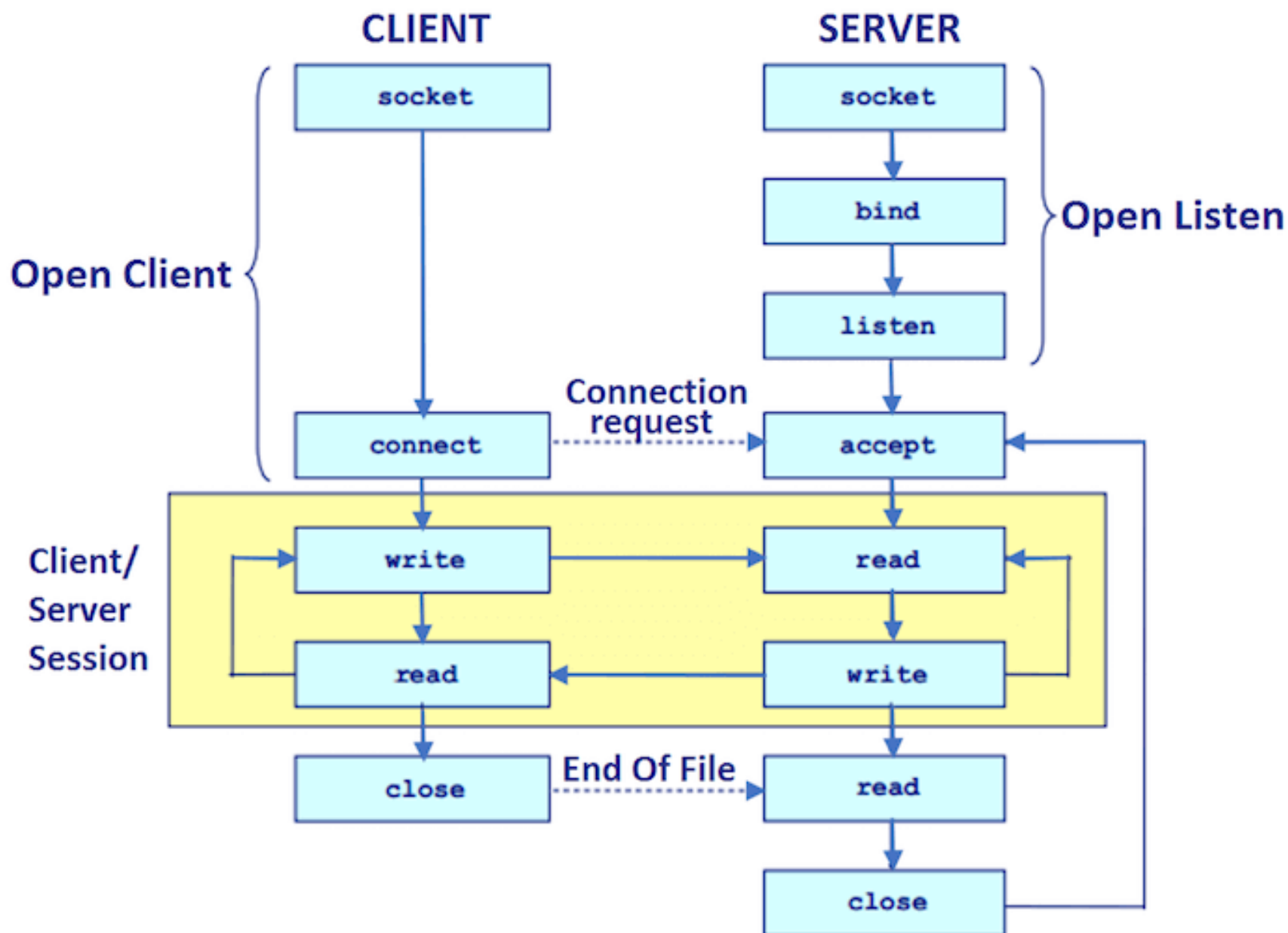
The ServerSocket class can be used to create a server socket. This object is used to establish communication with the clients.

Socket

Method	Description
1) public InputStream getInputStream()	returns the InputStream attached with this socket.
2) public OutputStream getOutputStream()	returns the OutputStream attached with this socket.
3) public synchronized void close()	closes this socket

ServerSocket class

Method	Description
1) public Socket accept()	returns the socket and establish a connection between server and client.
2) public synchronized void close()	closes the server socket.



SOCKET API