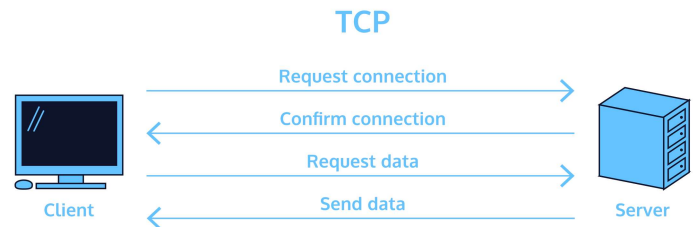


Sockets in Java

What is TCP?

Transmission Control Protocol (TCP) is a communication protocol that enables applications to exchange messages over a network and ensure the successful delivery of exchanged data packets. Due to its reliability, TCP is the favored protocol for many types of common applications.



Sockets

A **socket** is an endpoint that essentially allows us to connect the client and server using transmission control protocol.

Client-Server Architecture

Client-server architecture is made up of the following:

- Client – A tool (computer or software) used to request data from a server.
- Server – A tool (computer or software) used to respond to client requests.
- Request/Response – Communication model used by computer to communicate over a network.

Creating a ServerSocket

To create a `ServerSocket` in java, use the following code:

```
ServerSocket firstServerSocket = new  
ServerSocket(6868);
```

DataInputStream

A `DataInputStream` allows a program to read primitive data from an underlying input stream, while a `DataOutputStream` is used to write the primitive data.

Port Numbers

A socket is tied to a specific port number so that data can be sent between the client and server.

