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The client sends requests to the server over a TCP socket connection, and the server responds to these requests with appropriate data.

Here are the basic steps involved in integrating software systems or components using TCP socket communication:

- 1. Choose a protocol: TCP/IP is a common protocol for socket communication, but other protocols like UDP can also be used depending on the requirements.
- 2. Determine the message format: Decide on the format of the messages that will be exchanged between the client and server. This could be a simple text-based format or a more complex binary format.
- 3. Define the communication interface: Define the functions or APIs that will be used for communication between the client and server.
- 4. Set up the server: Write the code for the server that listens for incoming client connections and handles incoming requests.
- 5. Set up the client: Write the code for the client that connects to the server and sends requests.
- 6. Handle errors: Implement error handling mechanisms to ensure that communication errors are handled gracefully and do not cause the system to crash or become unstable.
- 7. Test and iterate: Test the system thoroughly and make any necessary changes or improvements to ensure that it is functioning correctly.

Summary:

- Socket ::= IP address + (TCP/UPD) port number
- TCP Sockets provides 'real-time' data transfer
 - binary data transfer but can be normal text or XML as well
 - no direct method sharing (can be done by hand)
 - TCP and UDP connections are possible. UDP is 3 times quicker but one-way communication
- Persistent or On-Demand communication channel
 - because of connection time-loss usually persistent channels are better, but periodically 'ping' messages should be sent. (in order to avoid connection closing). In case of any problems reconnection is possible
 - in case of UDP channels an extra TCP channel is available for synchronizing in online games
- Results in the fastest possible transmission.
 - Where the number of transactions per second up to ~ 20 transactions, there should have been applied. (50ms / sec transfer)

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