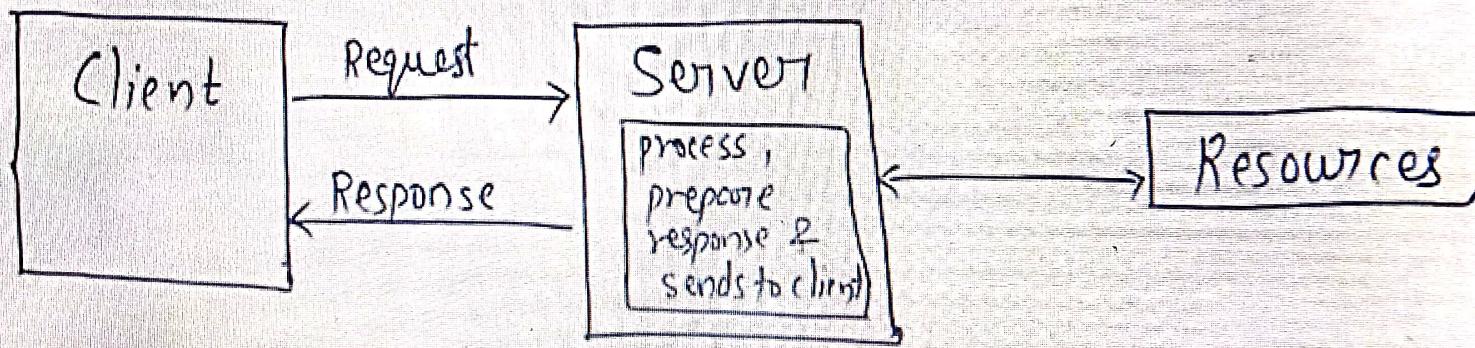


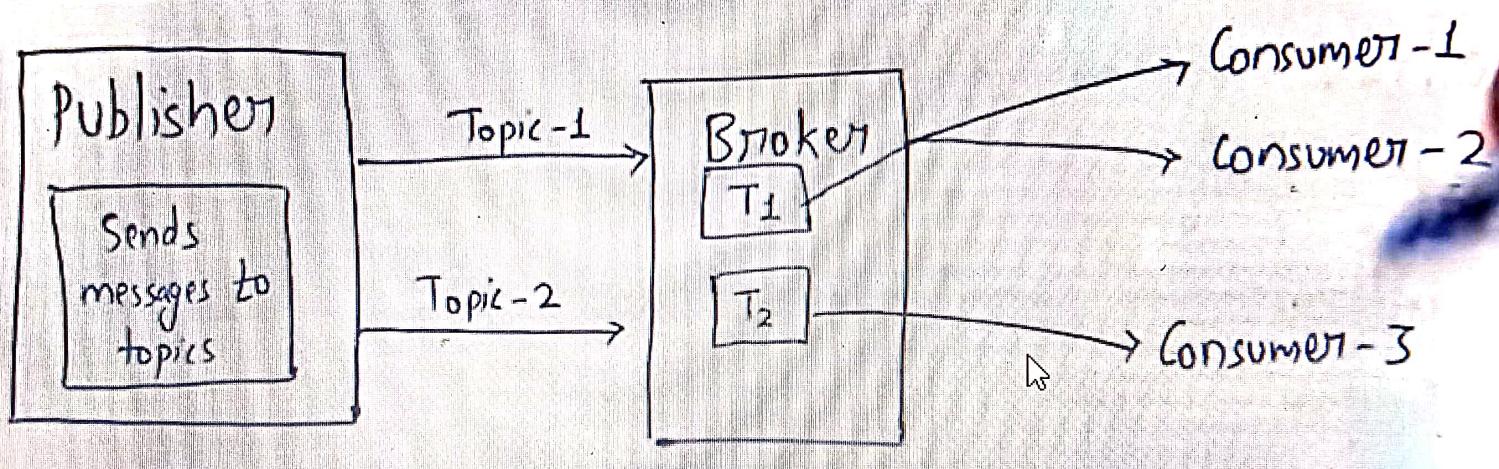
(i) Request Response Comm? Model



Request-Response

- Request–Response is a communication model in which the client sends requests to the server and the server responds to the requests.
- When the server receives a request, it decides how to respond, fetches the data, retrieves resource representations, prepares the response and then sends the response to the client.
- Stateless communication model

iii) Publish - Subscribe (comm' Mode)

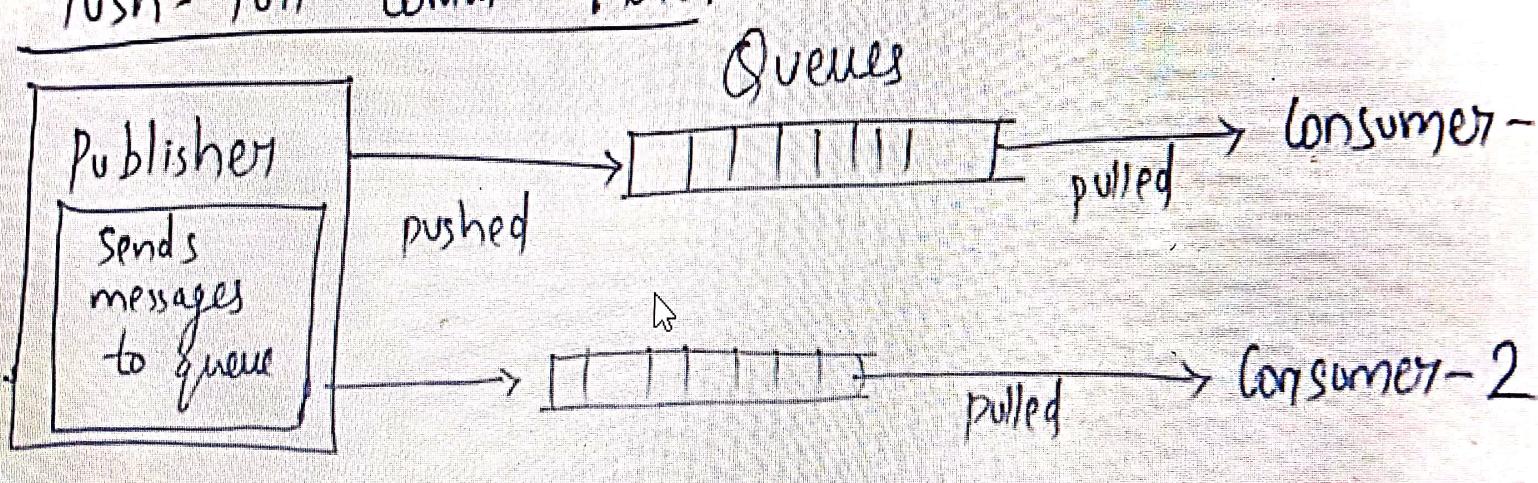


Publish–Subscribe

- Publish–Subscribe is a communication model that involves publishers, brokers and consumers.
- Publishers are the source of data.
- Publishers send the data to the topics which are managed by the broker. Publishers are not aware of the consumers.

- Consumers subscribe to the topics which are managed by the broker.
- When the broker receives data for a topic from the publisher, it sends the data to all the subscribed consumers.

Push - pull communication Model



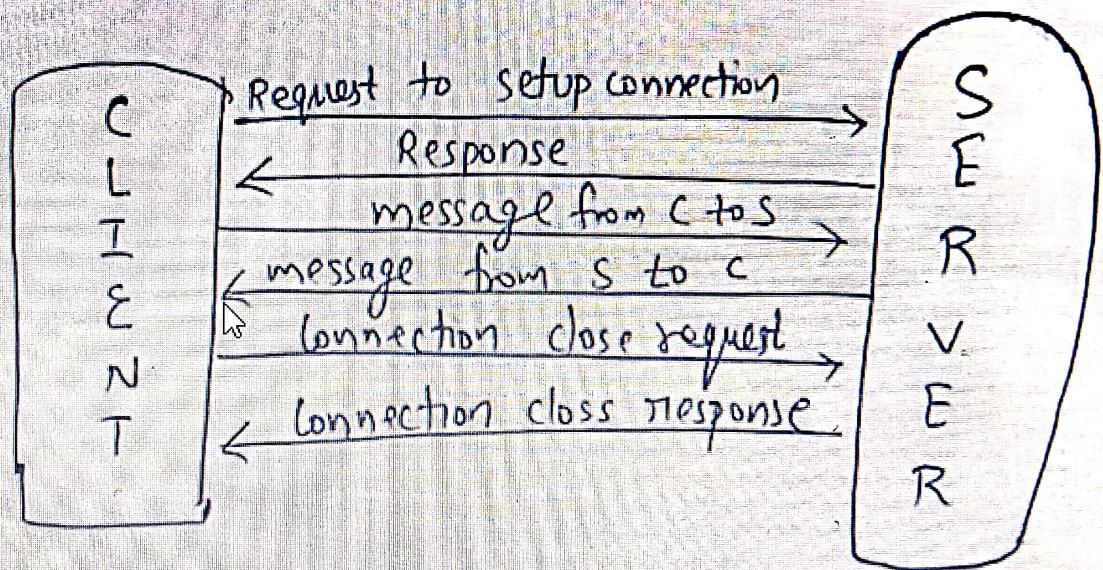
Push-Pull

- Push-Pull is a communication model in which the data producers push the data to queues and the consumers pull the data from the queues.
- Producers do not need to be aware of the consumers.

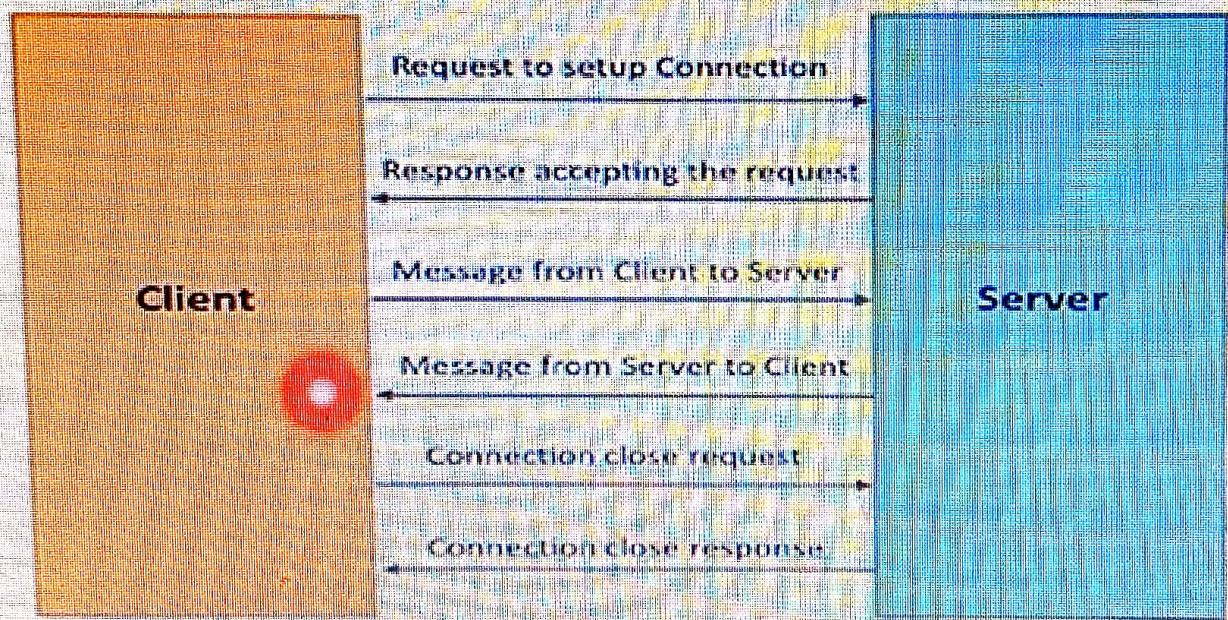
contd

- Queues help in decoupling the messaging between the producers and consumers.
- Queues also act as a buffer which helps in situations when there is a mismatch between the rate at which the producers push data and the rate at which the consumers pull data.

(N) Exclusive Pair Comm Model :- Bidirectional



Block Diagram-Exclusive Pair



Exclusive Pair

- Exclusive Pair is a bidirectional, fully duplex communication model that uses a persistent connection between the client and server.
- Once the connection is setup it remains open until the client sends a request to close the connection.
- Client and server can send messages to each other after connection setup.