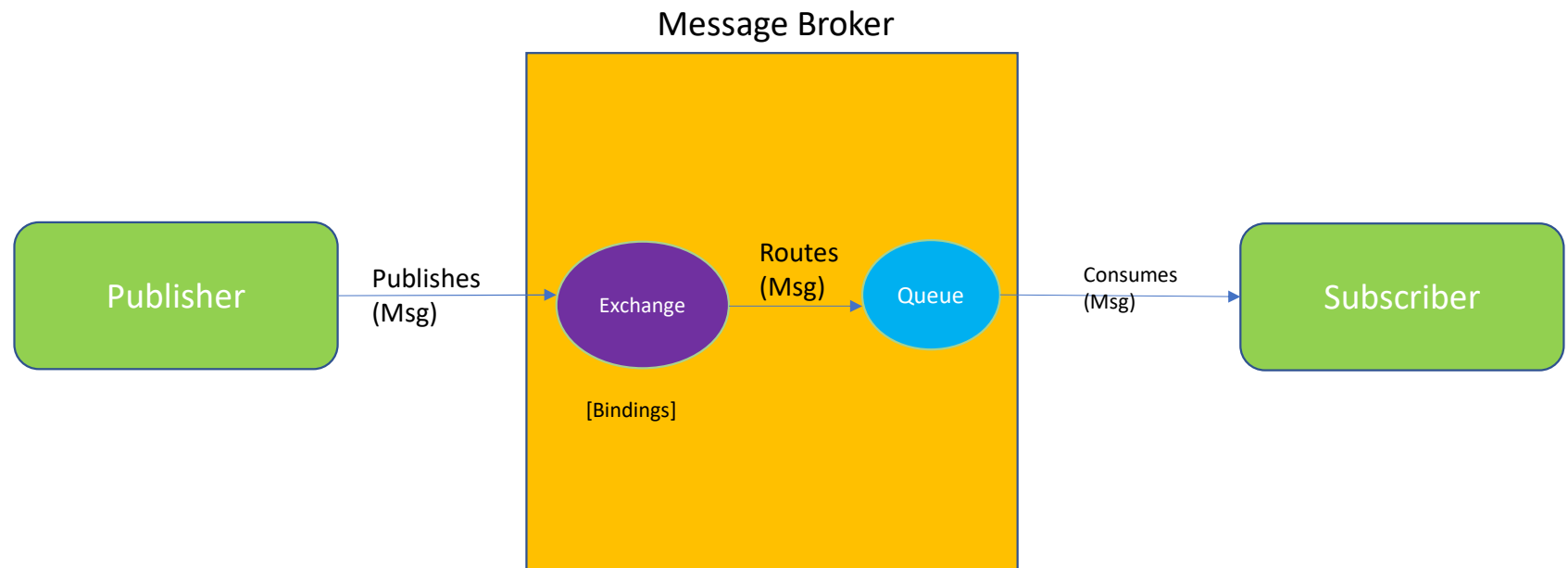


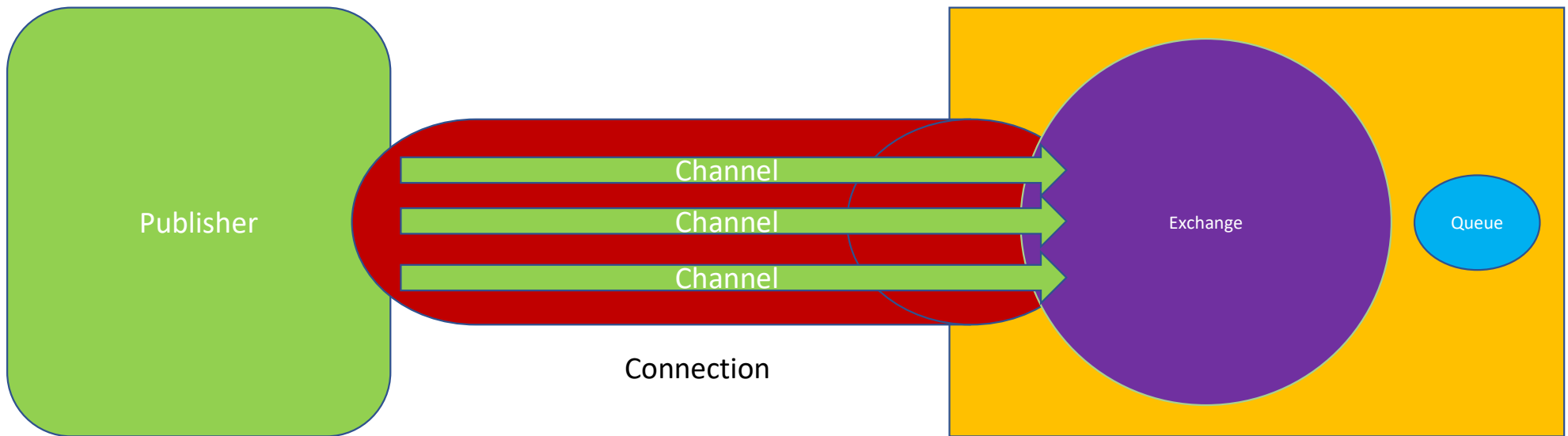
# RabbitMQ – Basic Communication

Gulshan Bajaj

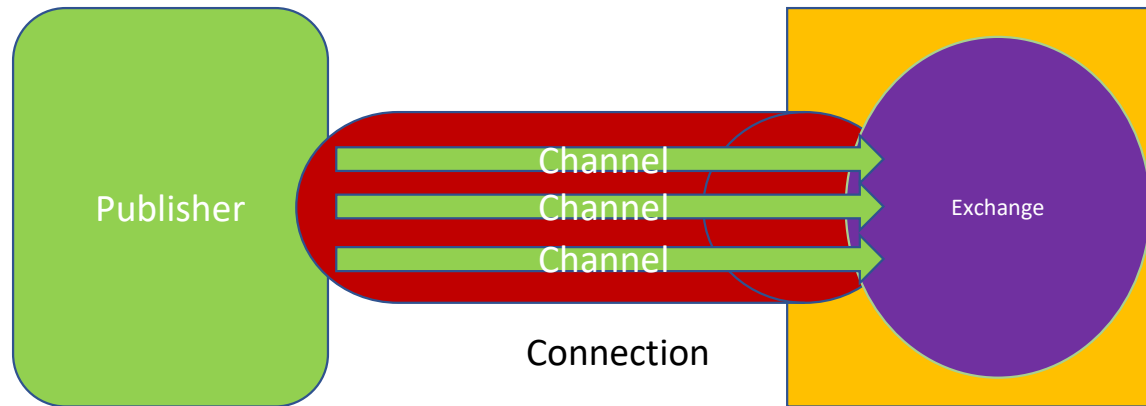
# Message Broker



AMQP – Advanced Message Queuing Protocol



Publisher publishes the message on a channel along with a routing information

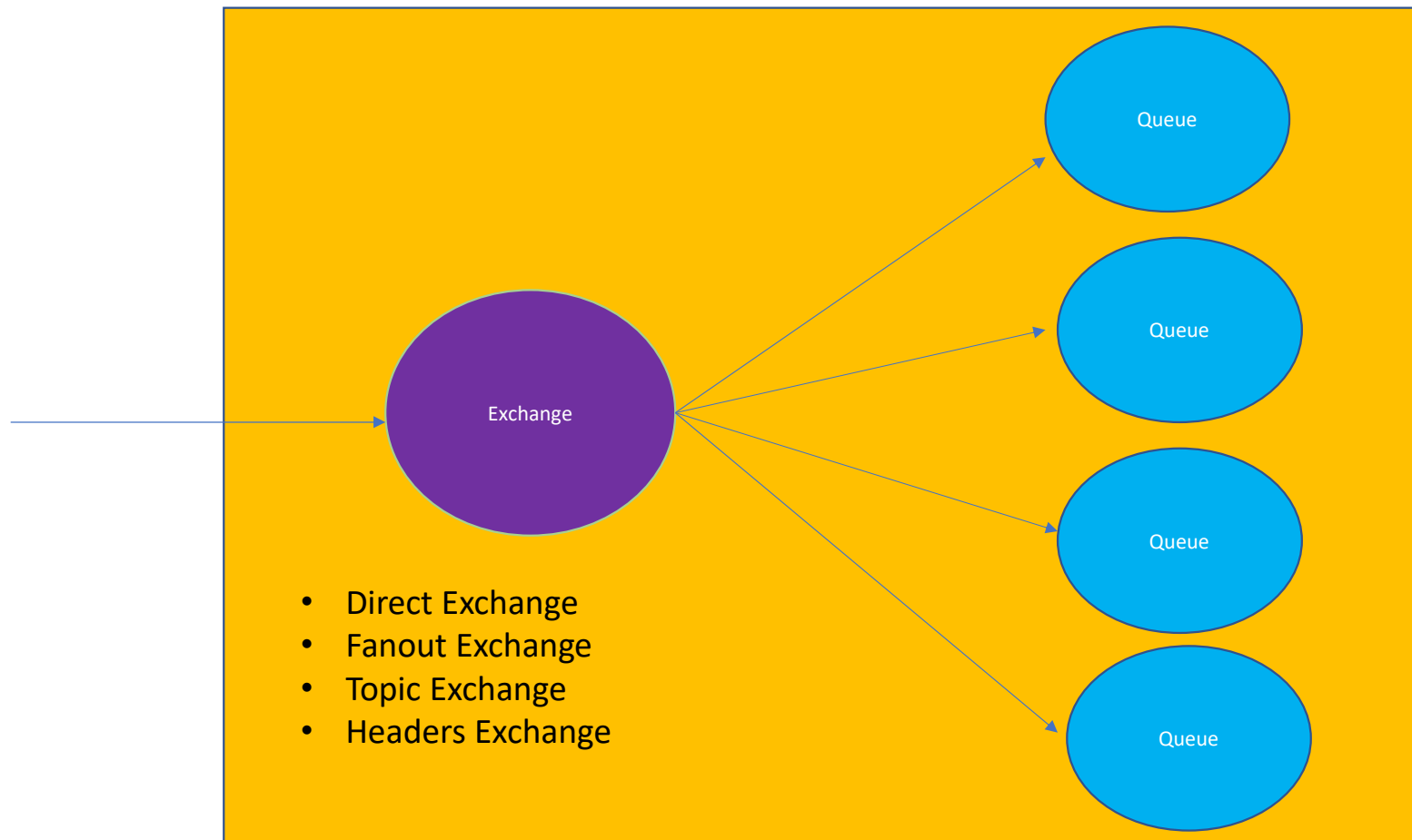


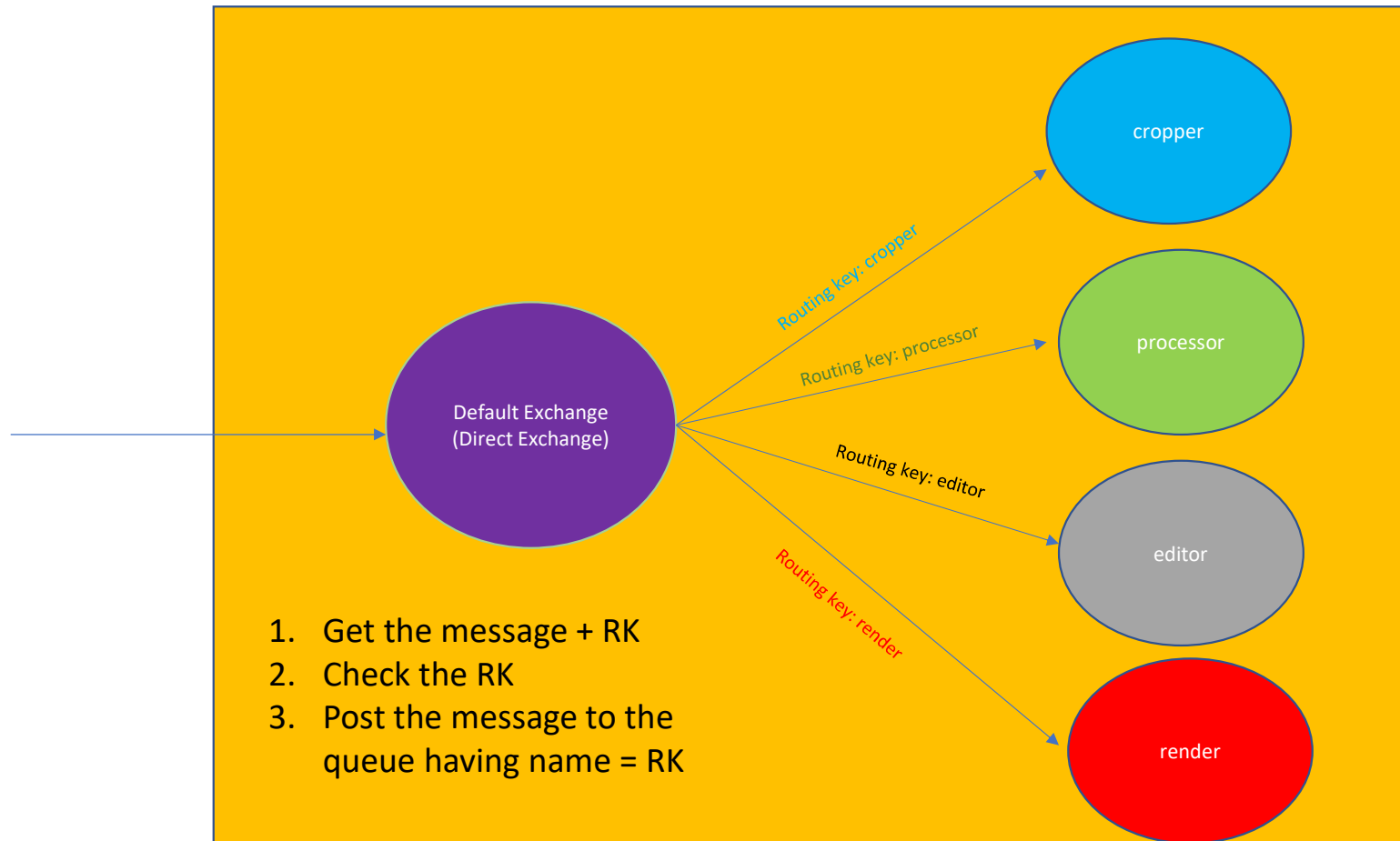
- Connection

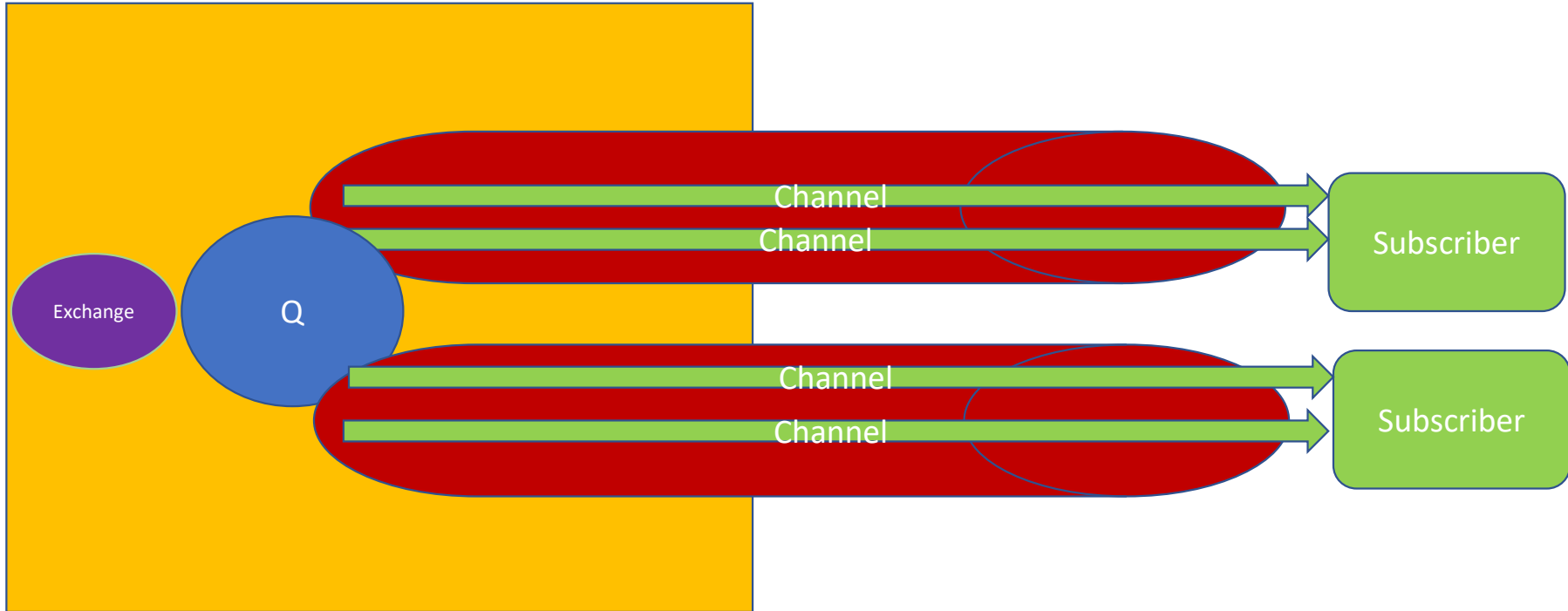
- Uses TCP
- Uses Authentication
- Can be protected by TLS

- Channel

- Lightweight Connections that share a TCP connection (AMQP connection)
- Example: every thread of a multithreaded application can have its own channel
- Connection closed -> All underlying channels closed
- No channel without connection







## Possible Questions that are not answered as of now

- What if Queue does not exist as mentioned in the RK i.e. what if message cannot be routed
- When to delete a message from the queue



# Steps

- Publisher

- Create a connection, say CN
- Create a channel in CN, say CH
- [Optional] Create an Exchange
  - Specify the bindings
- If the queue does not exist already
  - Create a queue through the channel
- Publish the message
- Close the connection
  - Automatically closes the channel

- Subscriber

- Create a connection say CN
- Create a channel in CN, say CH
- Create the queue, if it does not exist already and associate it with the channel CH
- Associate a call-back function with the message queue
- Start consuming the messages