What is RabbitMQ?

- A Message Broker – it accepts and forwards messages

- Messages are sent by Producers (or Publishers)

- Messages are received by Consumers (or Subscribers)

- Messages are stored on Queues (essentially a message buffer)

- Exchanges can be used to add "routing" functionality

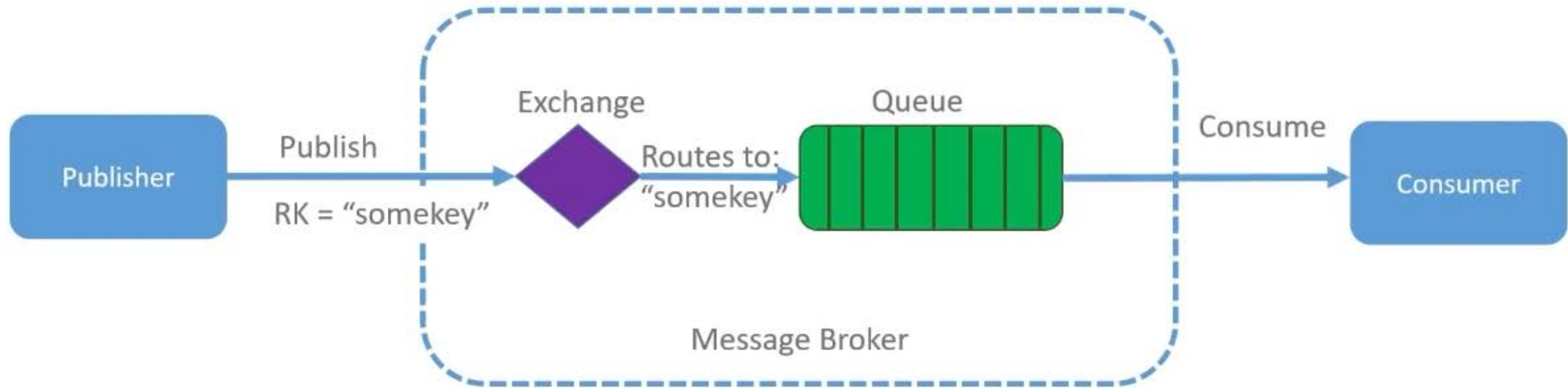- Uses Advanced Message Queuing Protocol (AMQP) & others

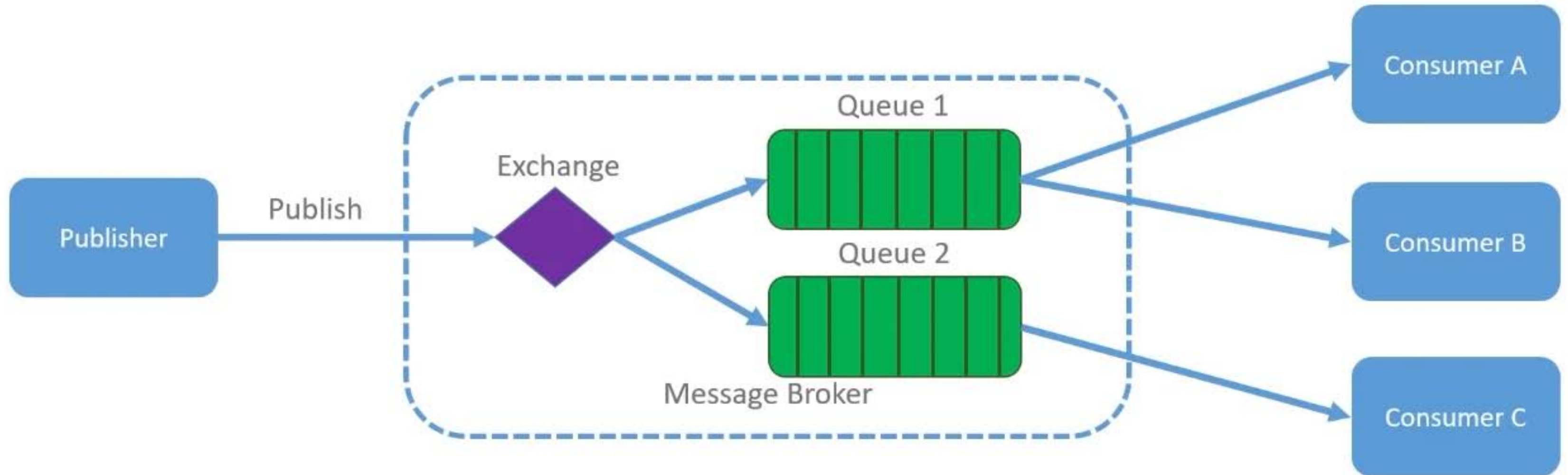# Exchanges

4 Types of Exchange

- Direct Exchange

- Fanout Exchange

- Topic Exchange

- Header Exchange
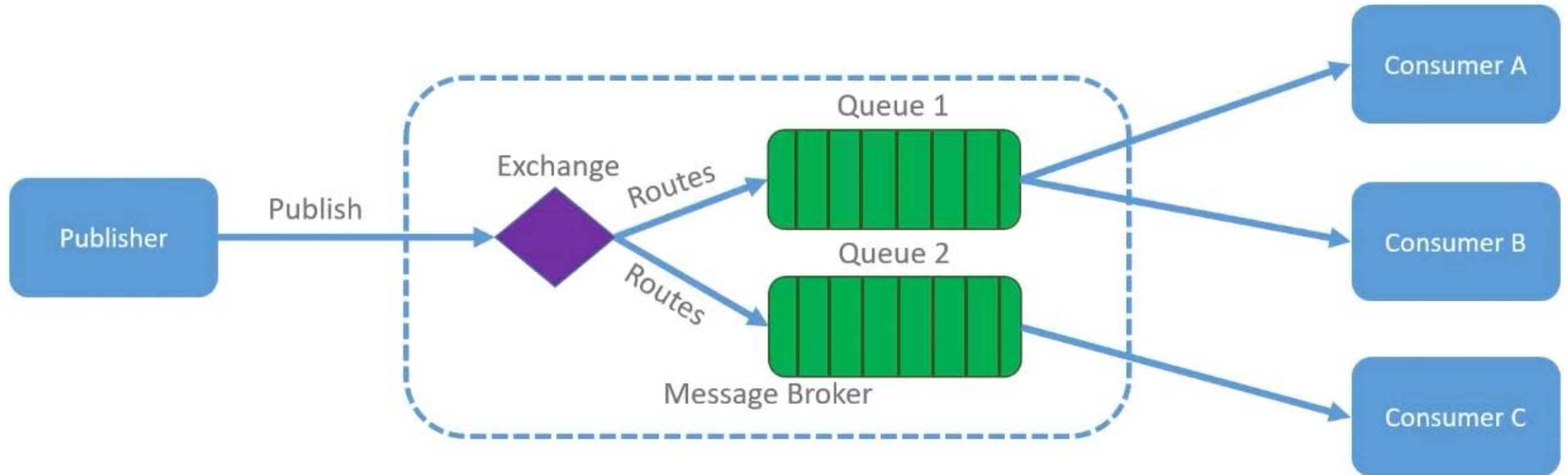
RabbitMQ Direct Exchange

- Delivers Messages to queues based on a routing key
- Ideal for "direct" or unicast messaging

RabbitMQ Fanout Exchange

- Delivers Messages to all Queues that are bound to the exchange
- It ignores the routing key
- Ideal for broadcast messages

RabbitMQ Topic Exchange

- Routes messages to 1 or more queues based on the routing key (and patterns)
- Used for Multicast messaging
- Implements various Publisher / Subscriber Patterns

Message Broker

- Ensures at least once message delivery (Kafka, RabbitMQ, Kinesis, SQS, ...)