Quick Start RabbitMQ (RMQ)

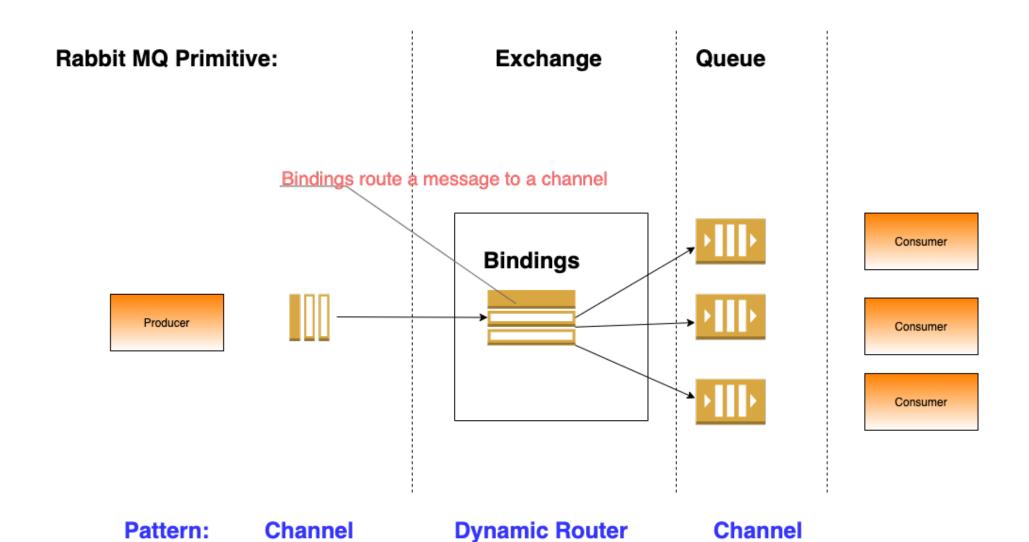
A Hitchhiker's Guide to AMQP 0-9-1

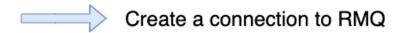
Protocol

- RMQ uses the AMQP protocol to transport messages
 - RMQ uses AQMP 0-9-1
 - This is a significantly different protocol to AMQP 1–0
 - AMQP 1-0 implementations include Azure Service Bus and Azure Event Hubs
- Further reading:
 - AMQP 0-9-1
 - RMQ and AMQP 0-9-1

Durable

RMQ uses the term durable for persistent configuration i.e. will survive restarts of the server. If a definition is not defined as durable it is transient and won't survive a restart





Connections

RMQ uses a multiplexed TCP/IP connections to connect to the server. A connection factory creates a connection, and you then create a channel on it. In production code **pool** connections.

Declare an Exchange of Desired Type

Exchanges

An exchange is the routing table for your messages. You may use multiple exchanges if you want to create multiple routing scopes i.e. one per microservice that publishes messages.

Create a Queue

Queues

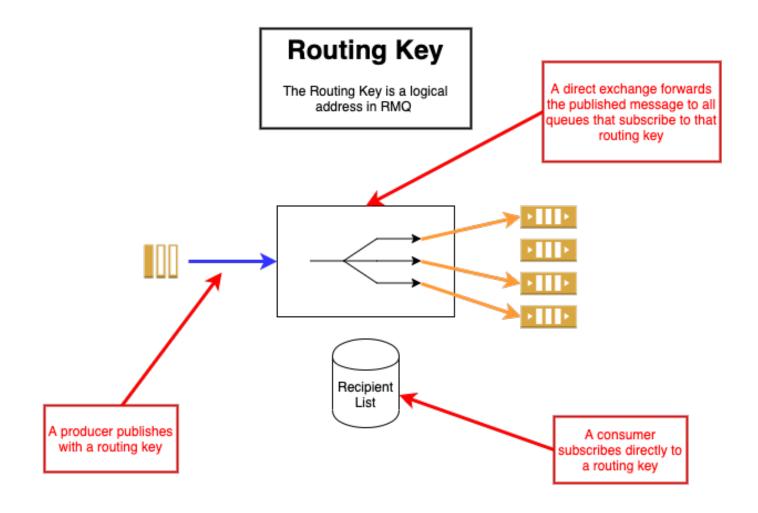
An RMQ queue supports FIFO delivery of messages. A message is **locked** when read until acked or nacked. A queue supports multiple consumers as others can read past the locked message.



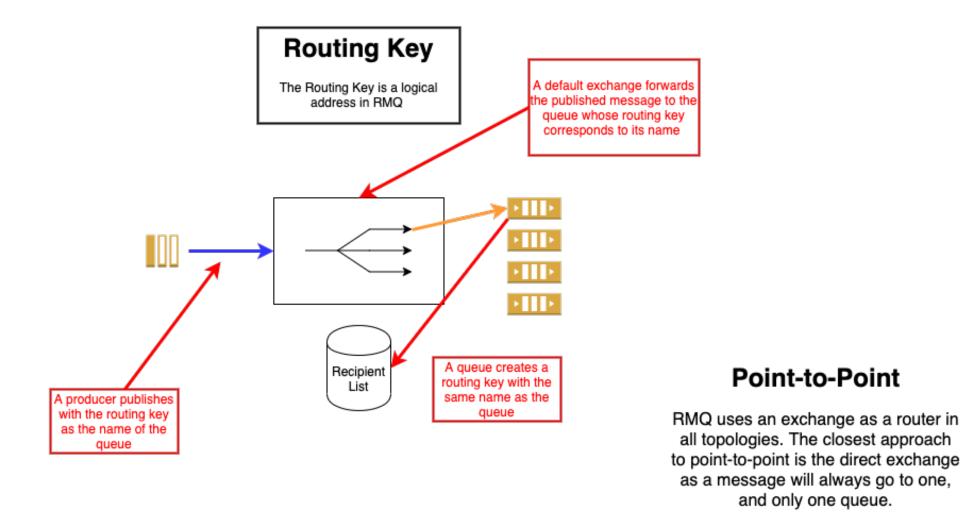
Bind the Queue to a Routing Key in the Exchange

Binding

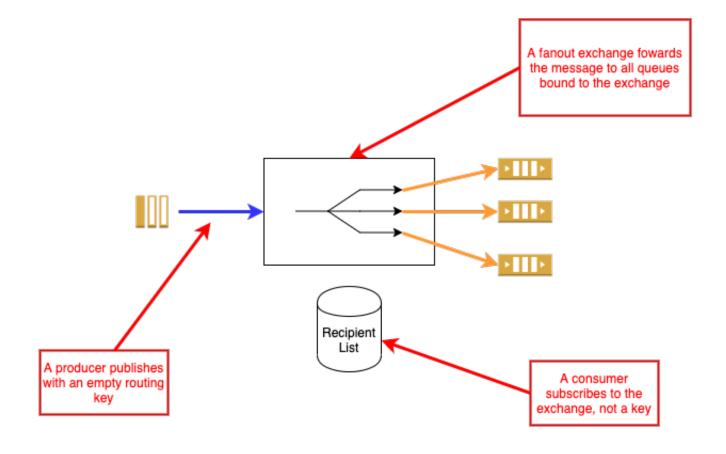
Binding is the key step in association the queue with an exchange



Rabbit MQ Direct Exchange



Rabbit MQ Default Exchange



Rabbit MQ Fanout Exchange

Binding

In a Fanout Exchange, we just bind with an empty routing key, because all queues recieve each message

Overview

Connections

Channels

Exchanges

Queues

Admin

Cluster rabbit@6220692416be

User guest Log out

Overview

▶ Totals

Nodes

Churn statistics

Ports and contexts

Listening ports

Protocol	Bound to	Port	
amqp	::	5672	
clustering	::	25672	
http	::	15672	

Web contexts

Context	Bound to	Port	SSL	Path	
RabbitMQ Management	0.0.0.0	15672	0	/	

Export definitions

Import definitions



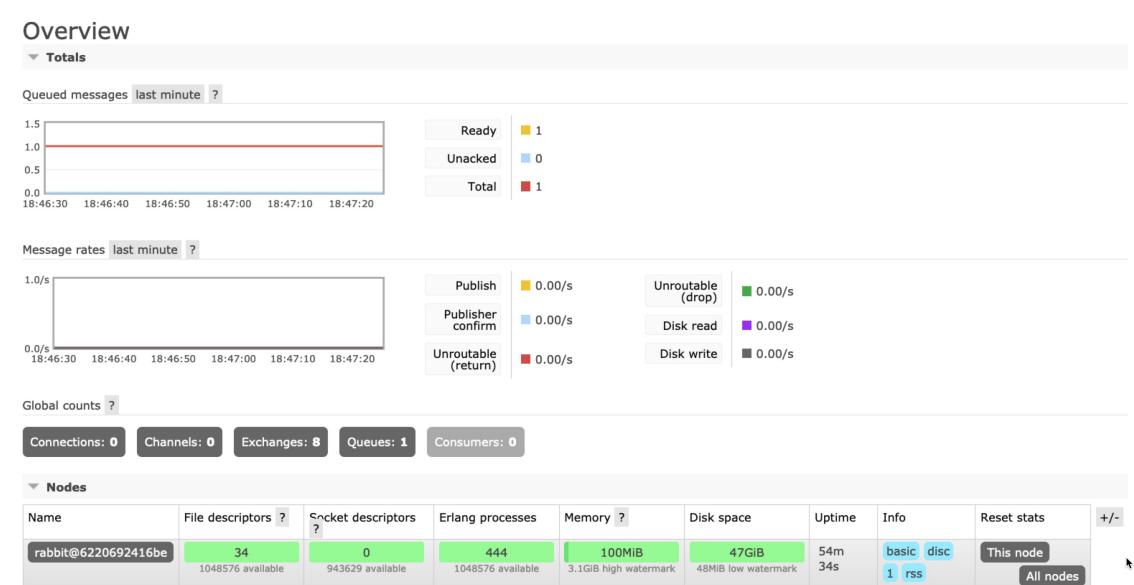
Overview

Channels

Erlang 23.0.2

Exchanges

Connections



Admin

Queues

