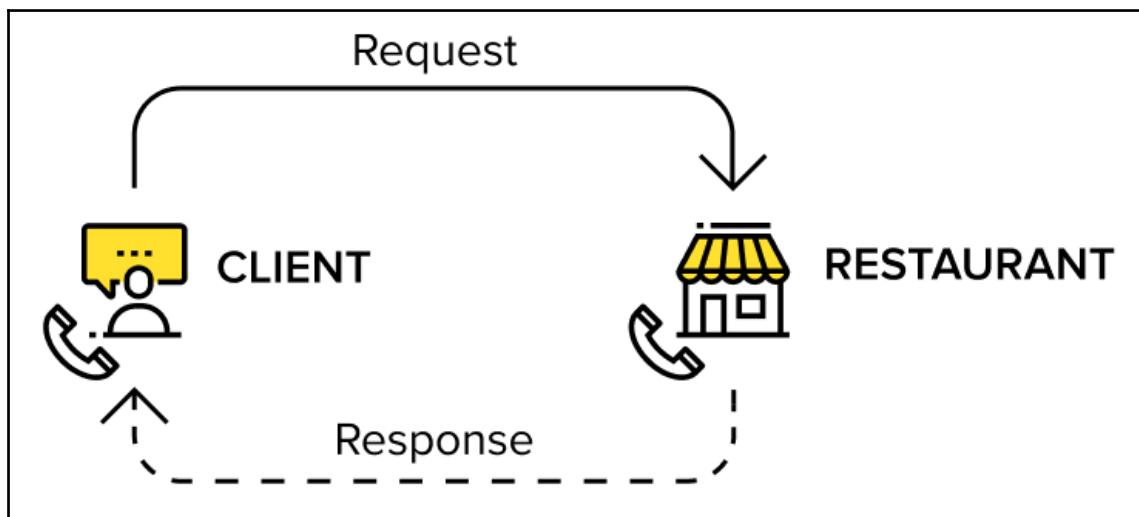
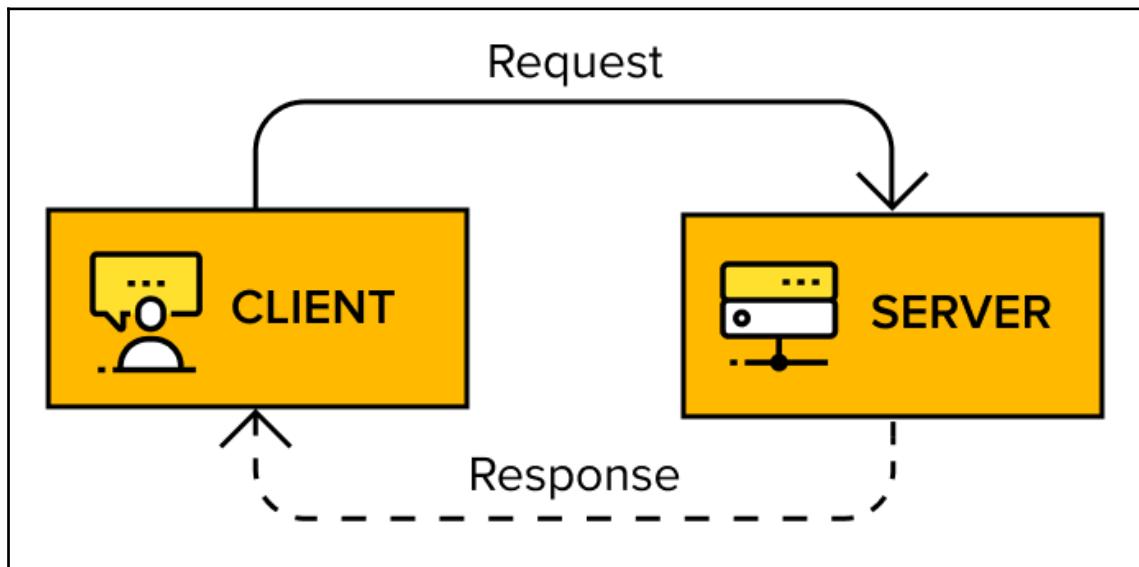
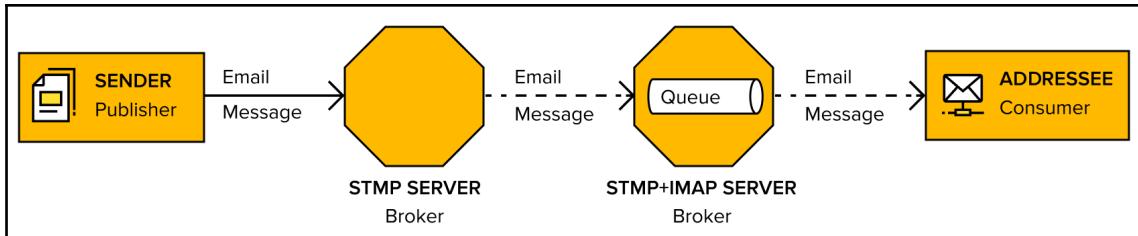
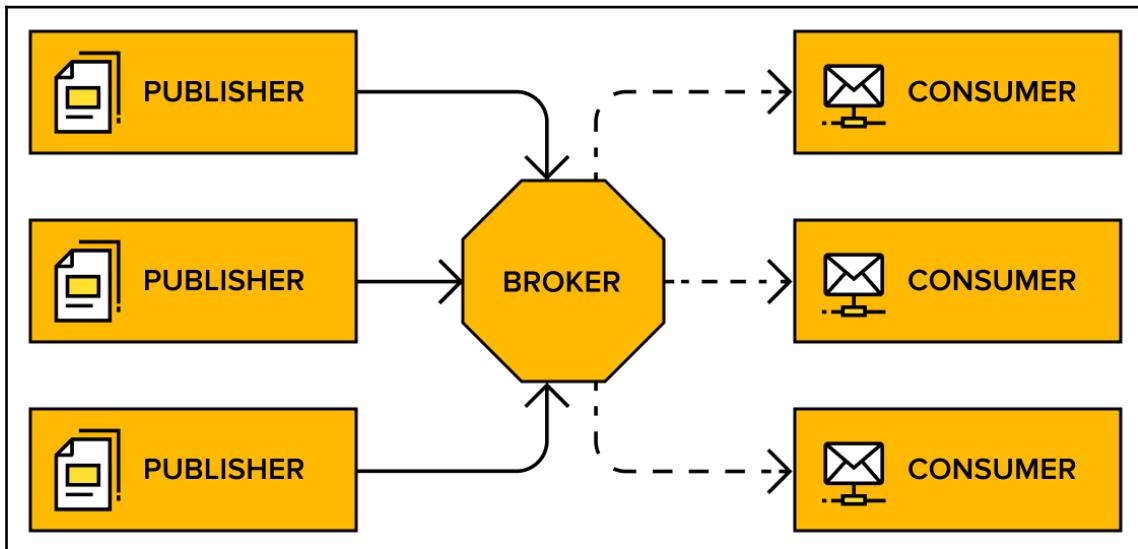
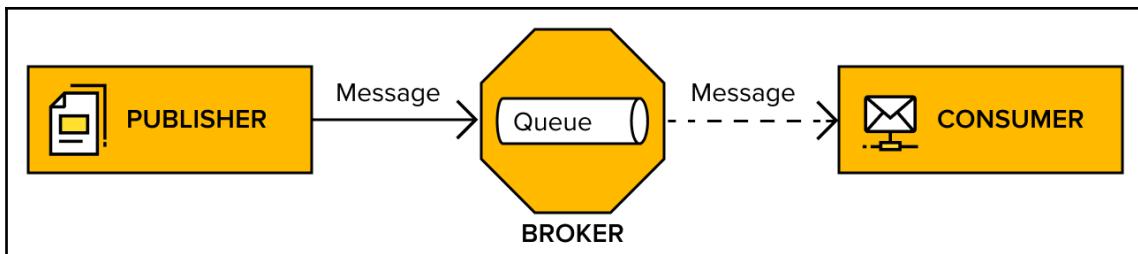
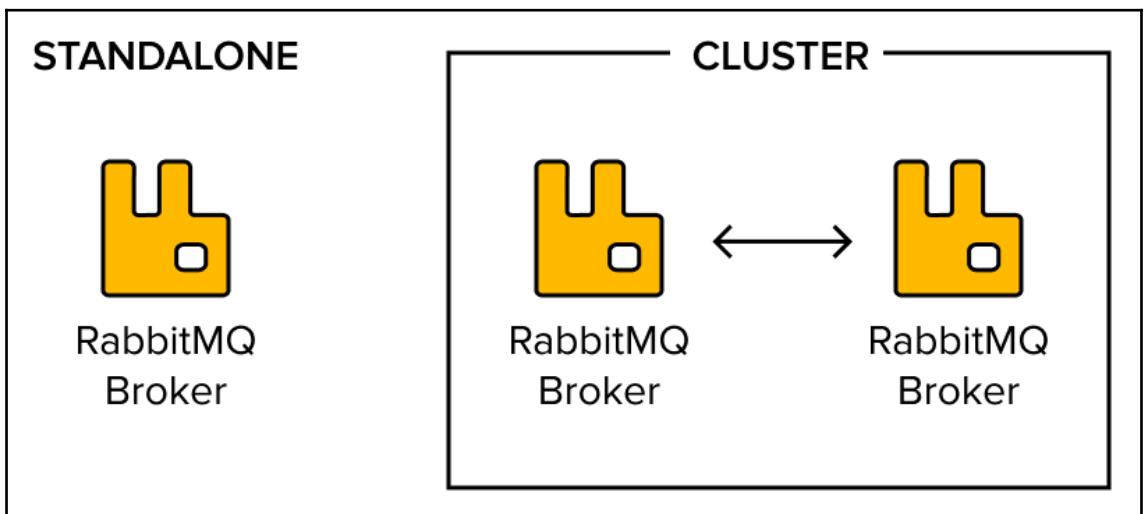
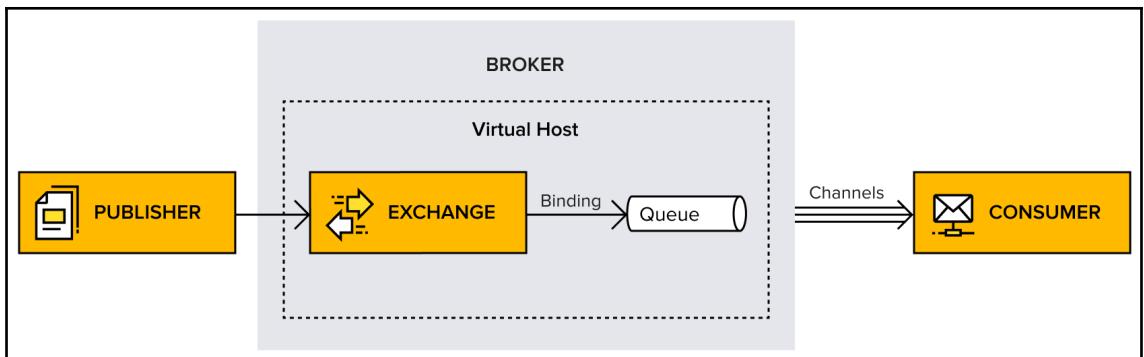
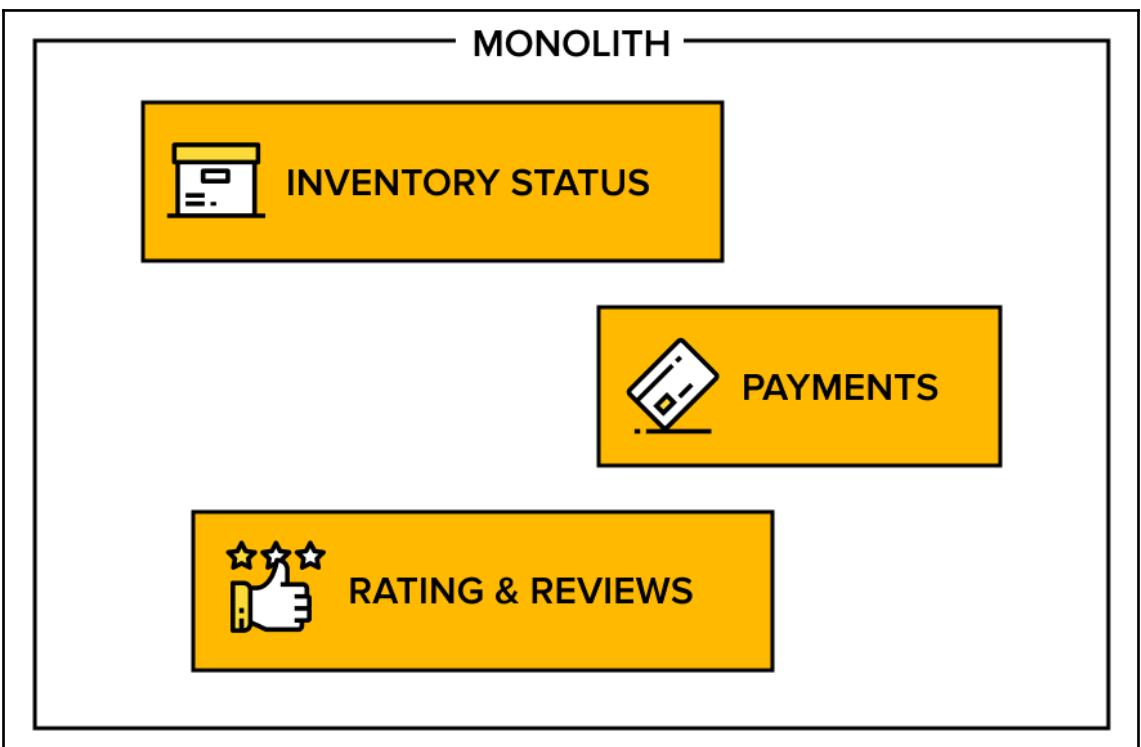
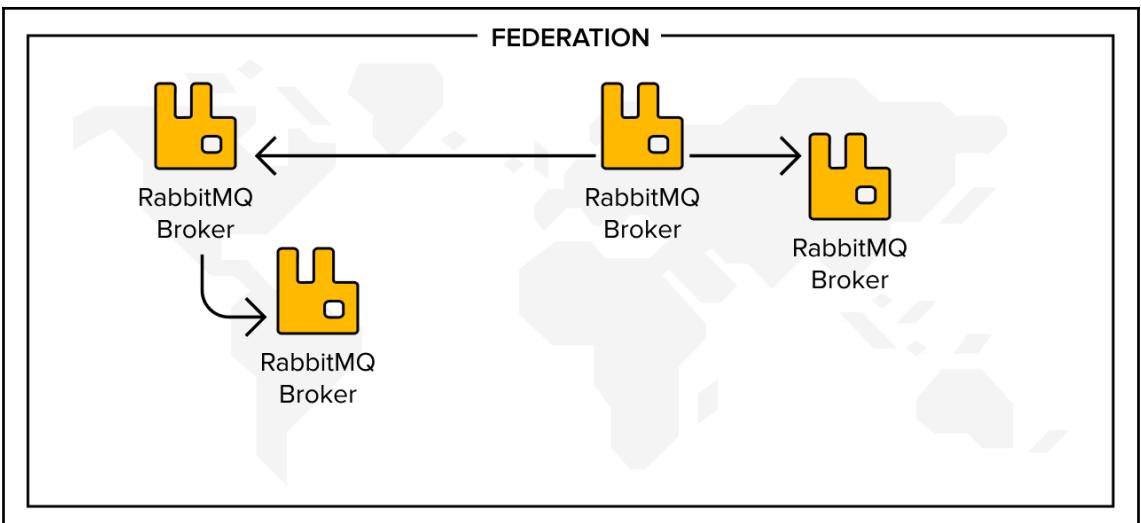


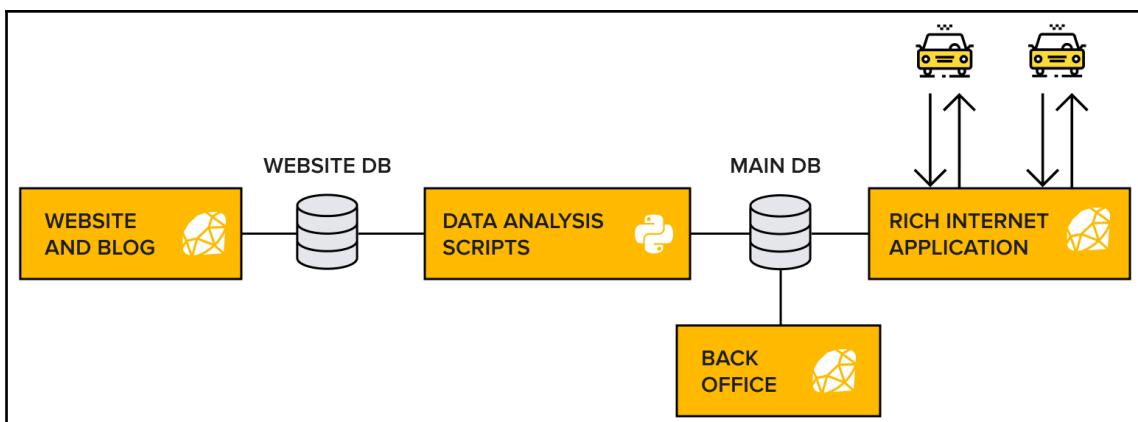
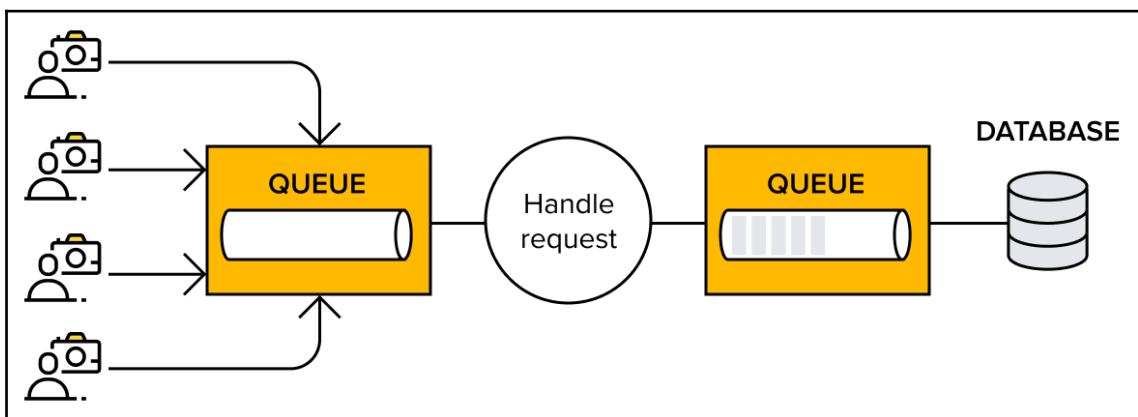
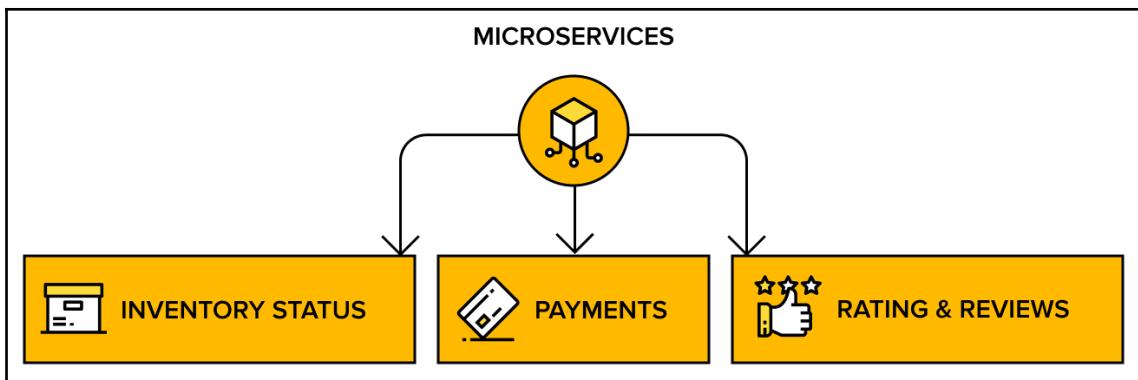
Chapter 1: A Rabbit Springs to Life









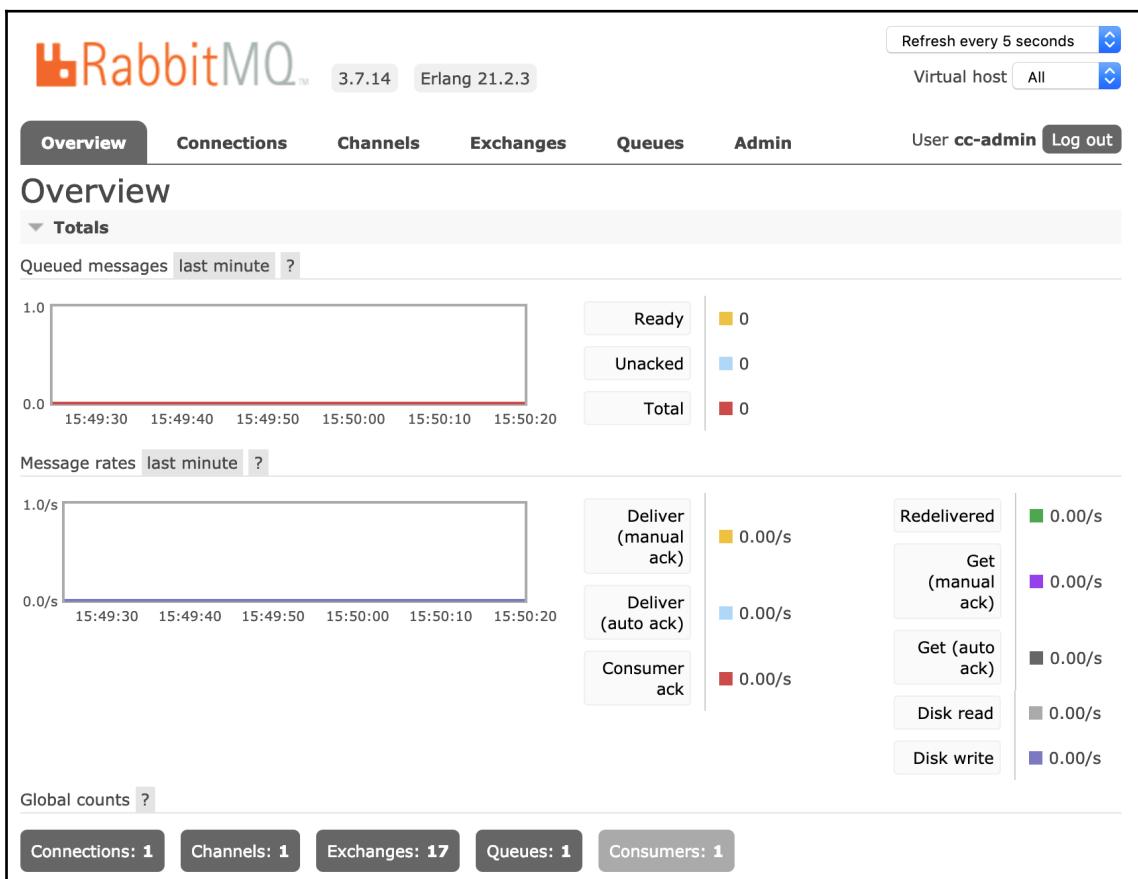




Username: *

Password: *

Login



RabbitMQ™ 3.7.14 Erlang 21.2.3 Refresh every 5 seconds Virtual host All Log out

Overview Connections Channels Exchanges Queues Admin

Users

All users

Filter: Regex ? 4 items, page size up to 100

Name	Tags	Can access virtual hosts	Has password
admin	administrator	/, cc-dev-vhost, viezrrhs	•
cc-admin	administrator	cc-dev-vhost	•
cc-dev		cc-dev-vhost	•
viezrrhs	administrator	viezrrhs	•

Add a user

HTTP API Server Docs Tutorials Community Support Community Slack Commercial Support Plugins GitHub Changelog

RabbitMQ™ 3.7.14 Erlang 21.2.3 Refresh every 5 seconds Virtual host All Log out

Overview Connections Channels Exchanges Queues Admin

User: cc-dev

Overview

Tags
Can log in with password •

Permissions

Current permissions

Virtual host	Configure regexp	Write regexp	Read regexp	
cc-dev-vhost	.*	.*	.*	<button>Clear</button>

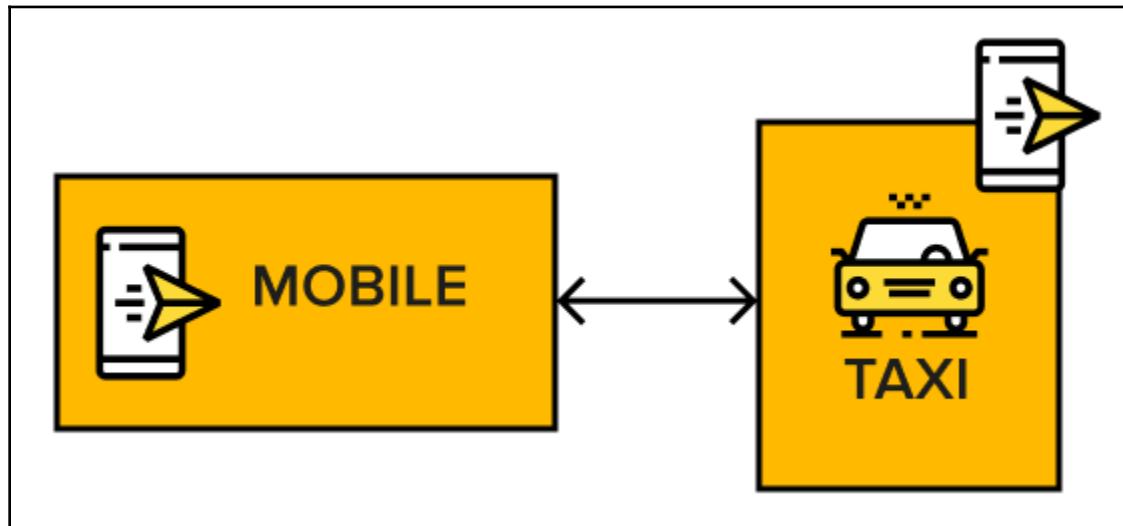
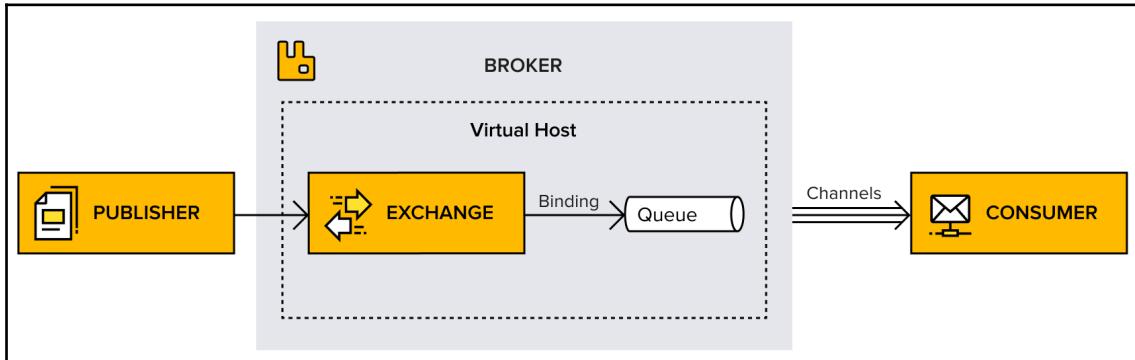
Set permission

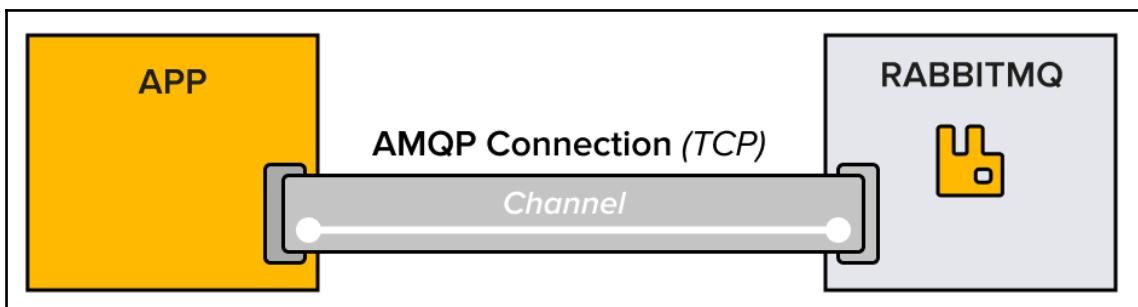
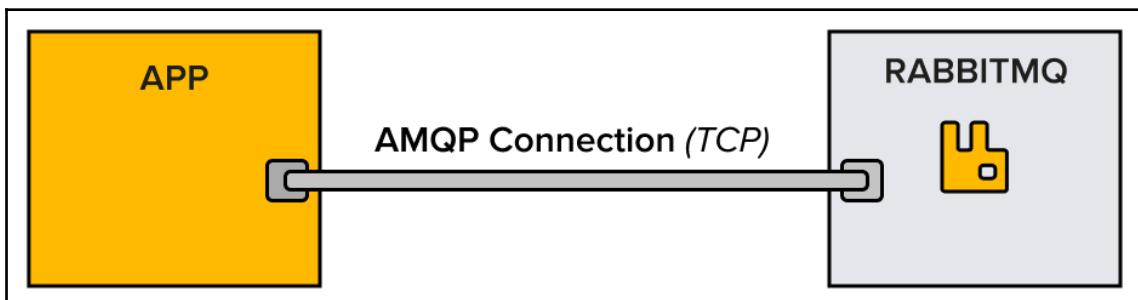
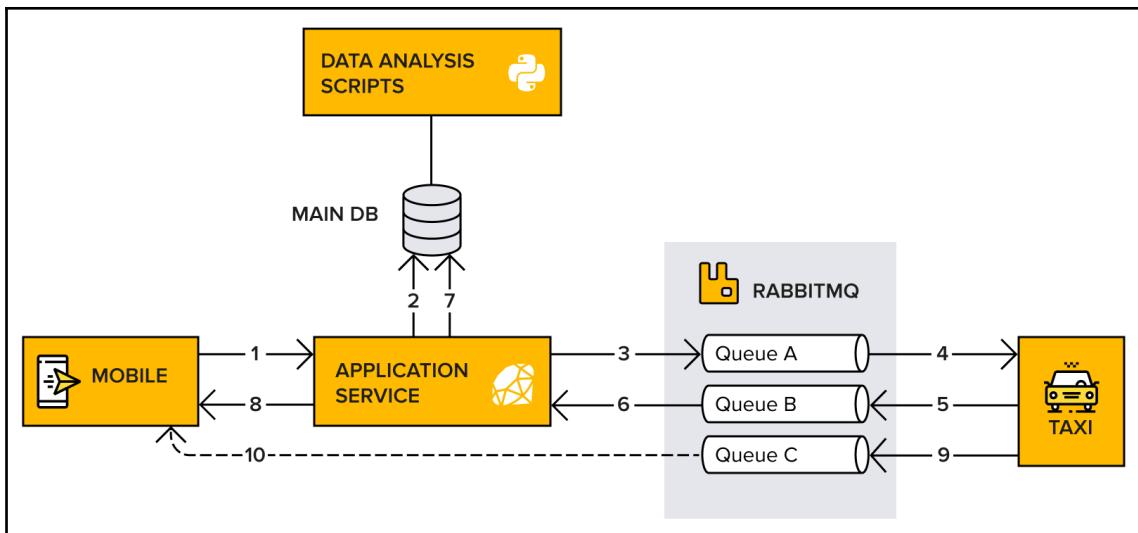
Virtual Host: / Configure regexp: .* Write regexp: .* Read regexp: .*

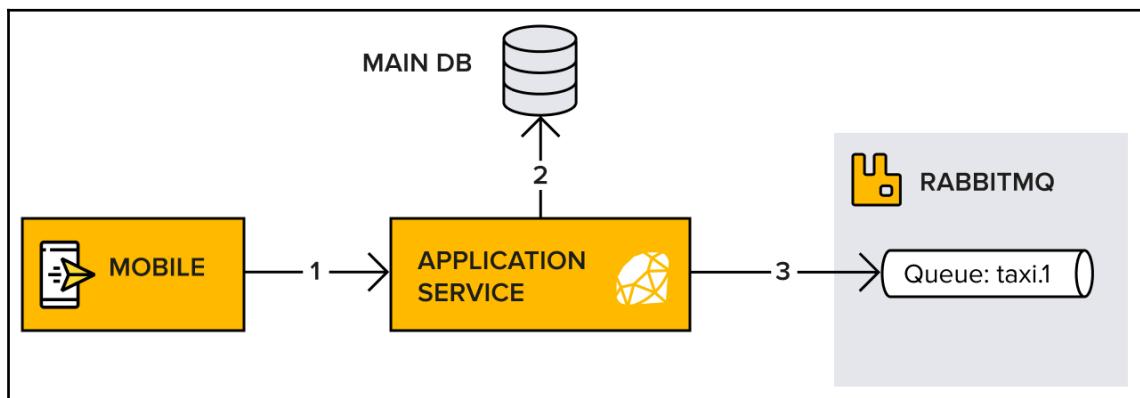
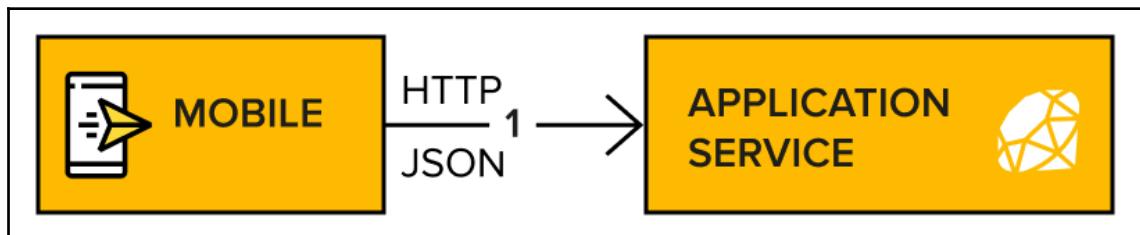
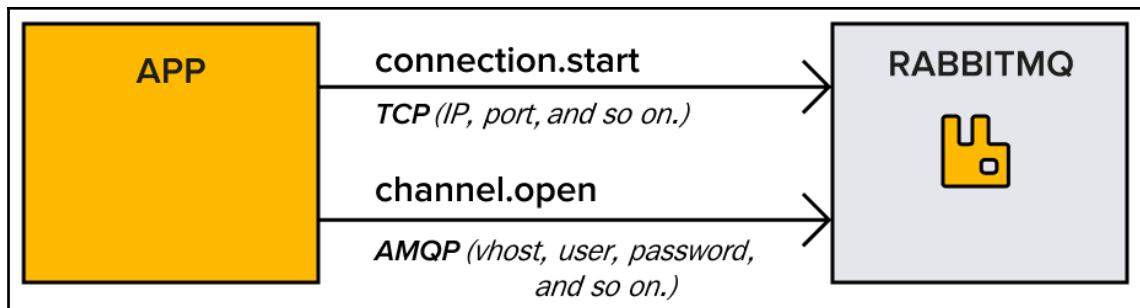
Set permission

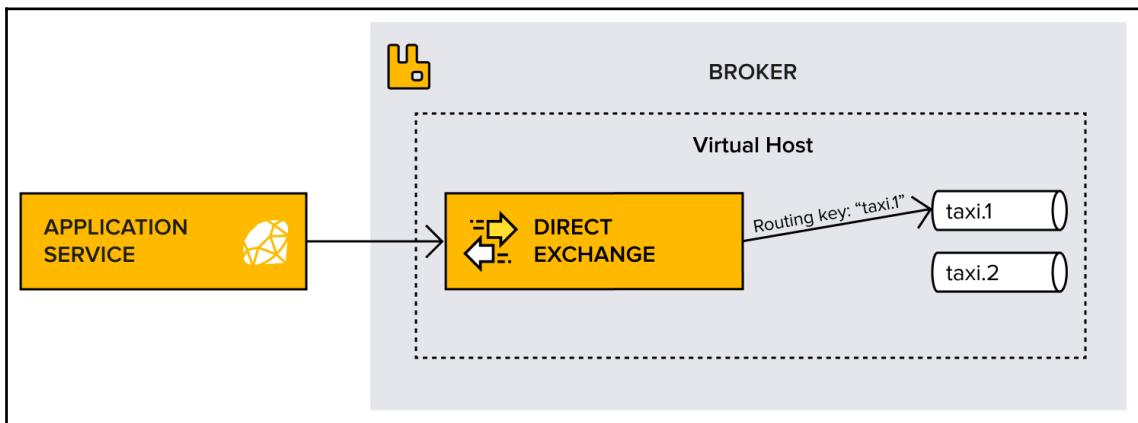
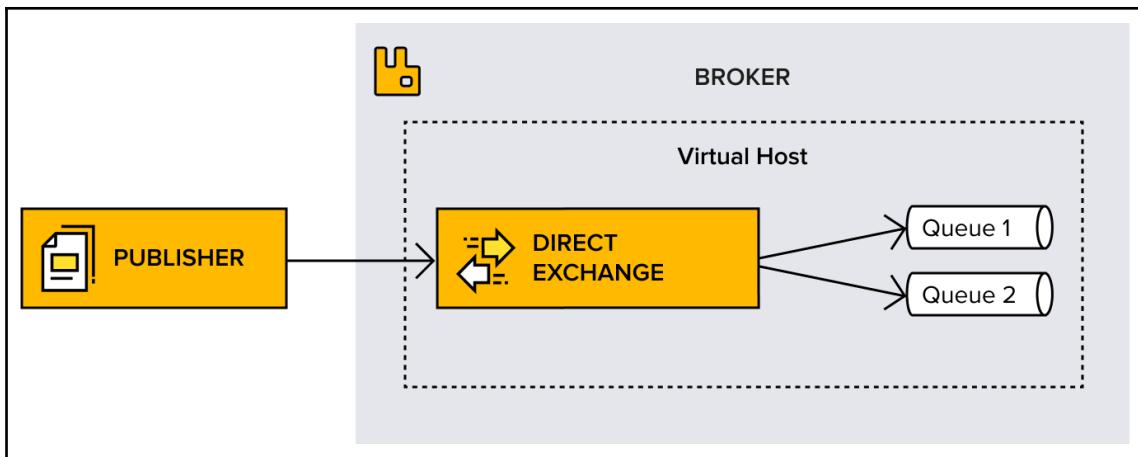
Topic permissions

Chapter 2: Creating a Taxi Application







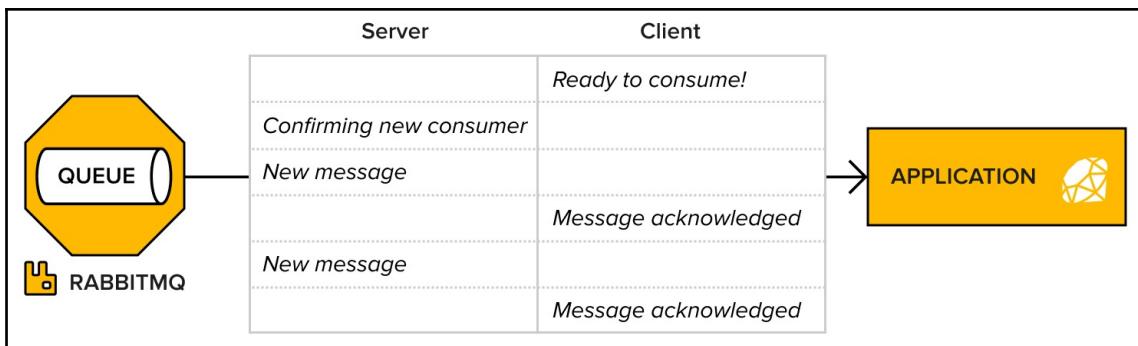
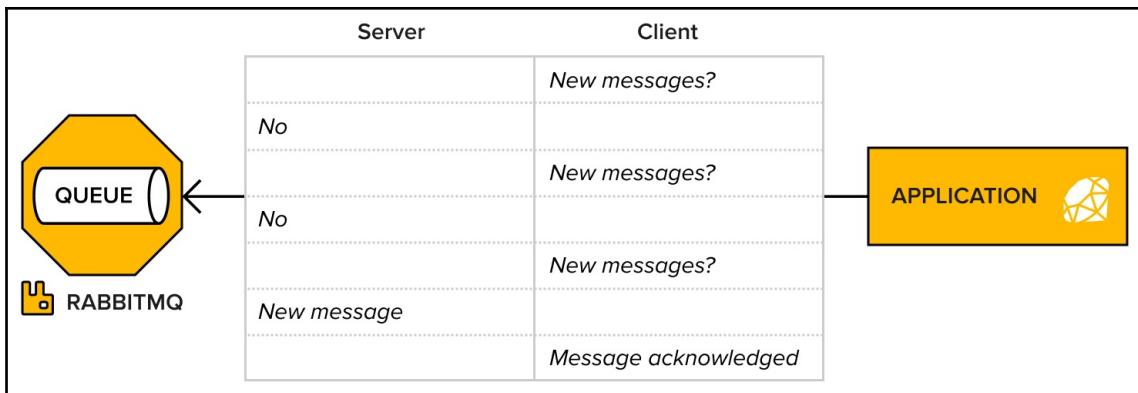


AMQP Message

properties:

content-type::string
content-encoding::string
delivery-mode::1 | 2
priority::0-9
correlation-id::string
reply-to::string
expiration::string
message-id::string
timestamp::timestamp
type::string
user-id::string
app-id::string
reserved::null
headers::map[string,object]

body:byte[]



RabbitMQ Refresh every 5 seconds

Connections

All connections (2)

Pagination

Page 1 of 1 - Filter: Regex ? Displaying 2 items , page size up to:

Overview		Details				Network		+/-
Name	State	SSL / TLS	Protocol	Channels	Client	From client	To client	
213.113.171.229:60071	running	○	AMQP 0-9-1	1	Bunny / ruby 2.6.2... 2.14.2	0B/s	31B/s	
213.113.171.229:60399	running	○	AMQP 0-9-1	0	Bunny / ruby 2.6.2... 2.14.2	0B/s	0B/s	

[HTTP API](#) [Server Docs](#) [Tutorials](#) [Community Support](#) [Community Slack](#) [Commercial Support](#) [Plugins](#) [GitHub](#) [Changelog](#)

RabbitMQ 3.8.1 Erlang 22.1.5

Virtual host cc-dev-vhost User cc-dev Log out

Overview Connections Channels Exchanges Queues Admin

Exchanges

All exchanges (8)

Pagination

Page 1 of 1 - Filter: Regex ? Displaying 8 items , page size up to: 100

Virtual host	Name	Type	Features	Message rate in	Message rate out	+/-
cc-dev-vhost	(AMQP default)	direct	D			
cc-dev-vhost	amq.direct	direct	D			
cc-dev-vhost	amq.fanout	fanout	D			
cc-dev-vhost	amq.headers	headers	D			
cc-dev-vhost	amq.match	headers	D			
cc-dev-vhost	amq.rabbitmq.trace	topic	D I			
cc-dev-vhost	amq.topic	topic	D			
cc-dev-vhost	taxi-direct	direct	D AD			

Add a new exchange

HTTP API Server Docs Tutorials Community Support Community Slack Commercial Support Plugins GitHub Changelog

RabbitMQ 3.8.1 Erlang 22.1.5

Virtual host cc-dev-vhost User cc-dev Log out

Overview Connections Channels Exchanges Queues Admin

Queues

All queues (3)

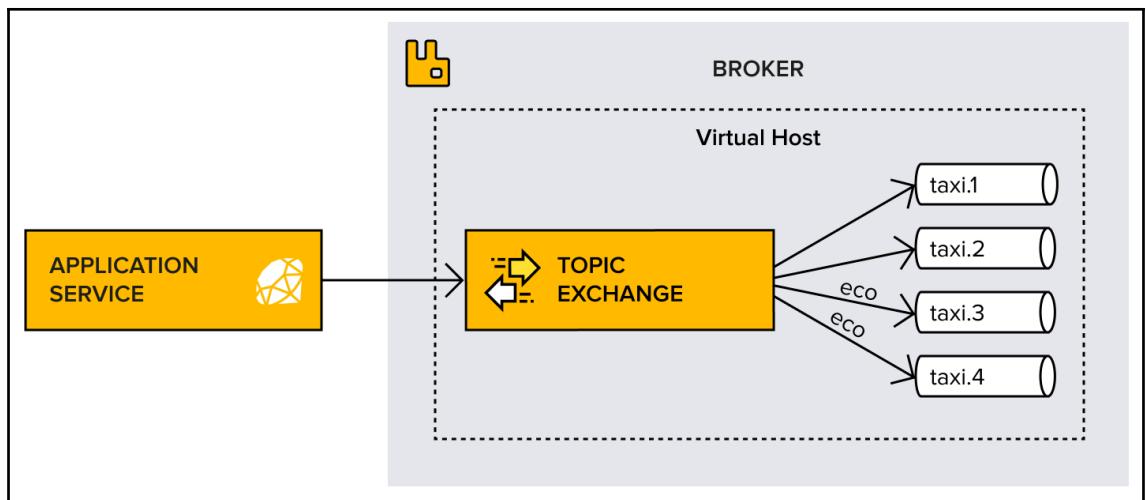
Pagination

Page 1 of 1 - Filter: Regex ? Displaying 3 items , page size up to: 100

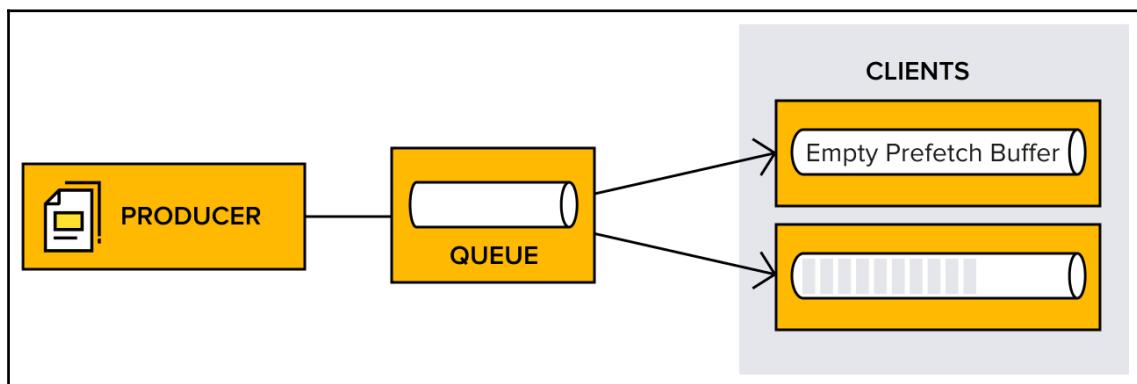
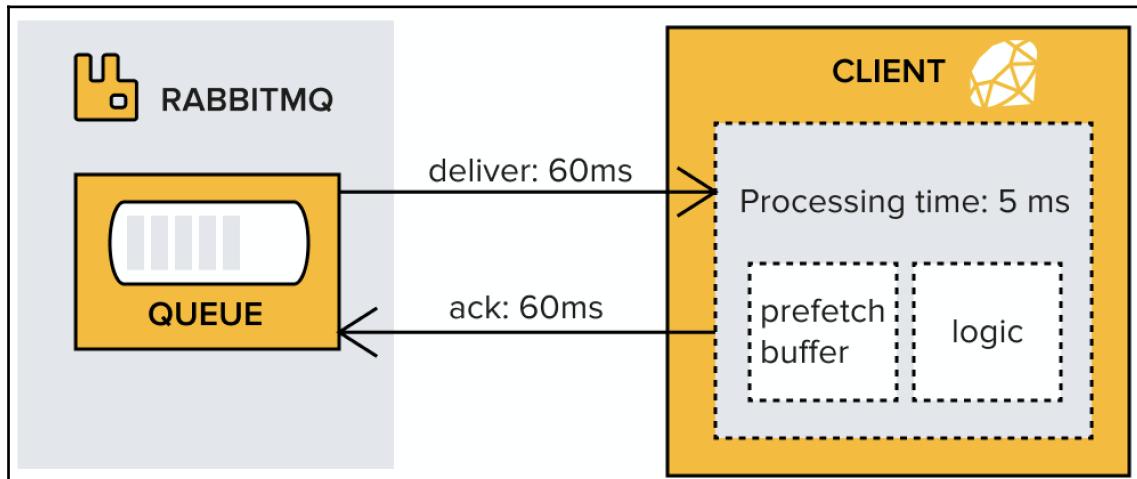
Overview				Messages				Message rates			+/-
Virtual host	Name	Type	Features	State	Ready	Unacked	Total	incoming	deliver / get	ack	
cc-dev-vhost	taxi.1	classic	D Args	idle	0	0	0				
cc-dev-vhost	taxi.2	classic	D Args	idle	0	0	0				
cc-dev-vhost	taxi.3	classic	D Args	idle	0	0	0				

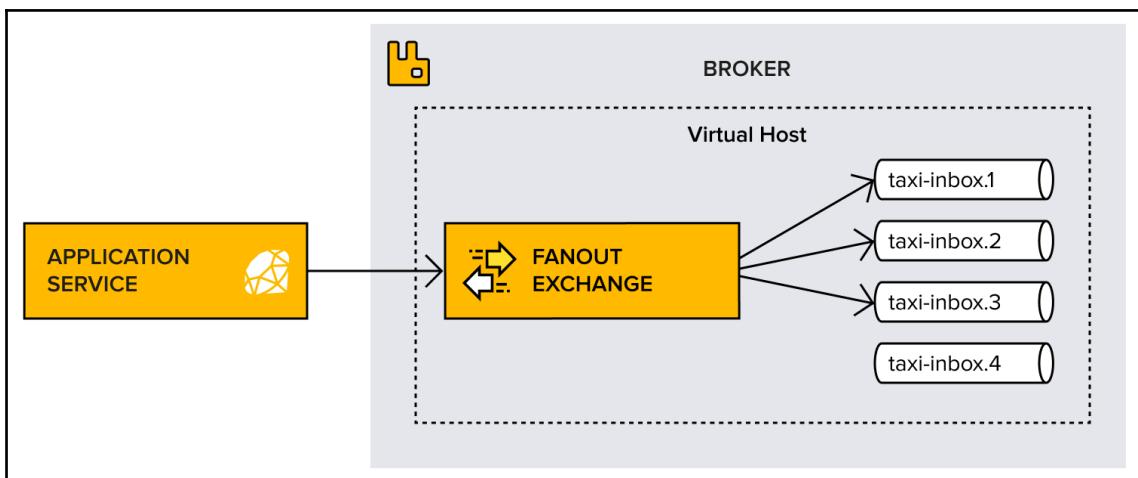
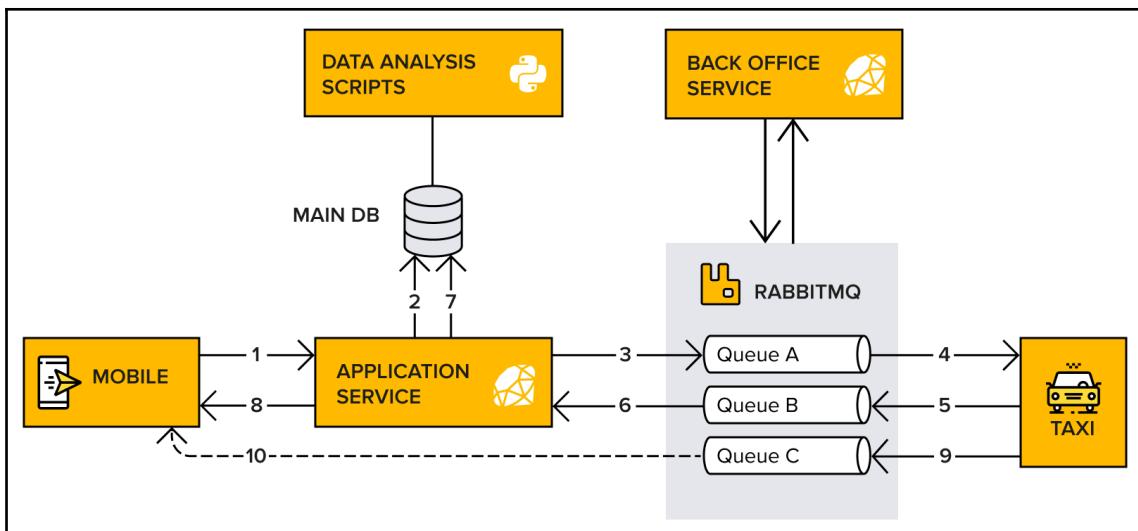
Add a new queue

HTTP API Server Docs Tutorials Community Support Community Slack Commercial Support Plugins GitHub Changelog



Chapter 3: Sending Messages to Multiple Taxi Drivers





RabbitMQ

Overview Connections Channels Exchanges **Exchanges** Queues Admin Log out

Refresh every 5 seconds

Exchanges

All exchanges (10)

Pagination

Page 1 of 1 - Filter: Regex ?

Displaying 10 items , page size up to:

Name	Type	Features	Message rate in	Message rate out	+/-
(AMQP default)	direct	D	0.00/s	0.00/s	
amq.direct	direct	D	0.00/s	0.00/s	
amq.fanout	fanout	D	0.00/s	0.00/s	
amq.headers	headers	D			
amq.match	headers	D			
amq.rabbitmq.trace	topic	D I			
amq.topic	topic	D			
taxi-direct	direct	D AD	0.00/s	0.00/s	
taxi-fanout	fanout		0.00/s	0.00/s	
taxi-topic	topic	D AD	0.00/s	0.00/s	

Add a new exchange

HTTP API Server Docs Tutorials Community Support Community Slack Commercial Support Plugins GitHub Changelog

Bindings

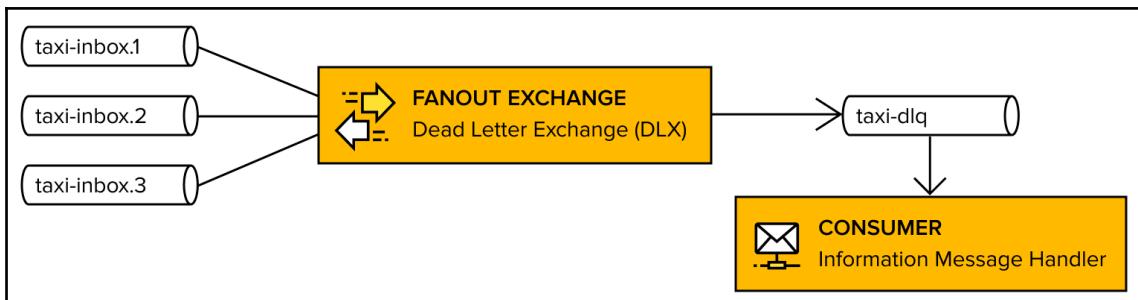
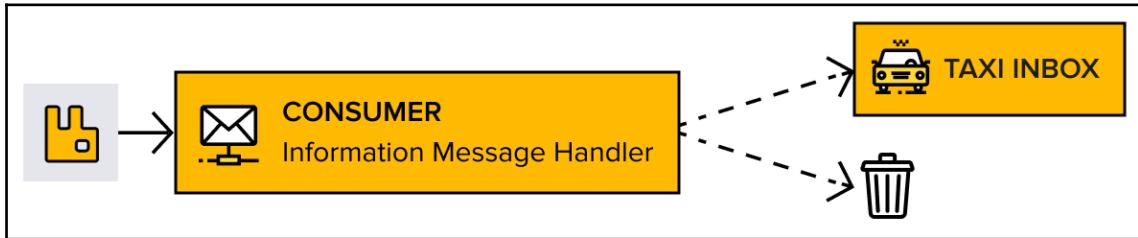
From Routing key Arguments
(Default exchange binding)

taxi-direct	taxi.1		Unbind
taxi-fanout			Unbind
taxi-topic	taxi.eco.1		Unbind

↓

This queue

Chapter 4: Tweaking Message Delivery



Screenshot of the RabbitMQ management interface, version 3.8.2 Erlang 22.2.4. The interface shows the "Queues" section with four queues listed:

Virtual host	Name	Node	Type	Features	State	Ready	Unacked	Total	Incoming	deliver / get	ack
cc-dev-vhost	taxi-dlq	rabbit@test-diligent-albatross-01	classic	D	idle	5	0	5	0.00/s		
cc-dev-vhost	taxi-inbox.1	rabbit@test-diligent-albatross-01	classic	D TTL DLX Q_TTL_DLX	idle	0	0	0	0.00/s		
cc-dev-vhost	taxi-inbox.2	rabbit@test-diligent-albatross-01	classic	D TTL DLX Q_TTL_DLX	idle	0	0	0	0.00/s		
cc-dev-vhost	taxi-inbox.3	rabbit@test-diligent-albatross-01	classic	D Args Q_TTL_DLX	idle	0	0	0			

The interface includes navigation buttons like "Overview", "Connections", "Channels", "Exchanges", "Queues" (selected), and "Admin", along with a "Log out" button. Top right controls include "Refresh every 5 seconds" and "Virtual host cc-dev-vhost".

RabbitMQ 3.8.2 | Erlang 22.2.4

Refreshed 2020-04-22 14:31:38 Refresh every 5 seconds

Virtual host cc-dev-vhost

Overview **Connections** **Channels** **Exchanges** **Queues** **Admin** Log out

Details

Features	x-dead-letter-exchange: taxi-fanout-dlx x-message-ttl: 604800000 durable: true	State	idle
Policy	Q_TTL_DLX	Consumers	0
Operator policy	dead-letter-exchange: taxi-fanout-dlx message-ttl: 604800000	Consumer utilisation ?	0%
Effective policy definition	rabbit@test-diligent-albatross-01	Messages ?	Total 0 Ready 0 Unacked 0 In memory 0 Persistent 0 Transient, Paged Out 0
Node		Message body bytes ?	0iB 0iB 0iB 0iB 0iB 0iB
Mirrors		Process memory ?	19kiB

▶ Bindings

▶ Publish message

RabbitMQ 3.8.2 | Erlang 22.2.4

Refresh every 5 seconds

Virtual host cc-dev-vhost

Overview **Connections** **Channels** **Exchanges** **Queues** **Admin** Log out

Policies

User policies

Filter: Regex ? 1 item, page size up to 100

Virtual Host	Name	Pattern	Apply to	Definition	Priority
cc-dev-vhost	Q_TTL_DLX	taxi-inbox\.\d+	queues	dead-letter-exchange: taxi-fanout-dlx message-ttl: 604800000	0

Add / update a policy

Virtual host: cc-dev-vhost

Name: Q_TTL_DLX *

Pattern: taxi-inbox\.\d+ *

Apply to: Exchanges and queues

Priority:

Definition:

dead-letter-exchange	= taxi-fanout-dlx	String
message-ttl	= 604800000	Number
	=	String

Users

Virtual Hosts

Feature Flags

Policies

Limits

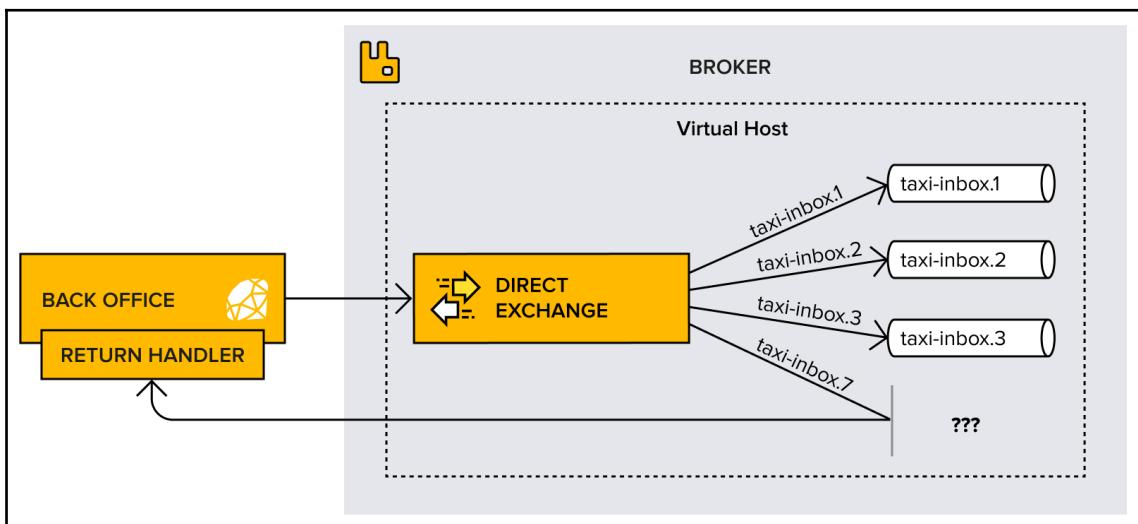
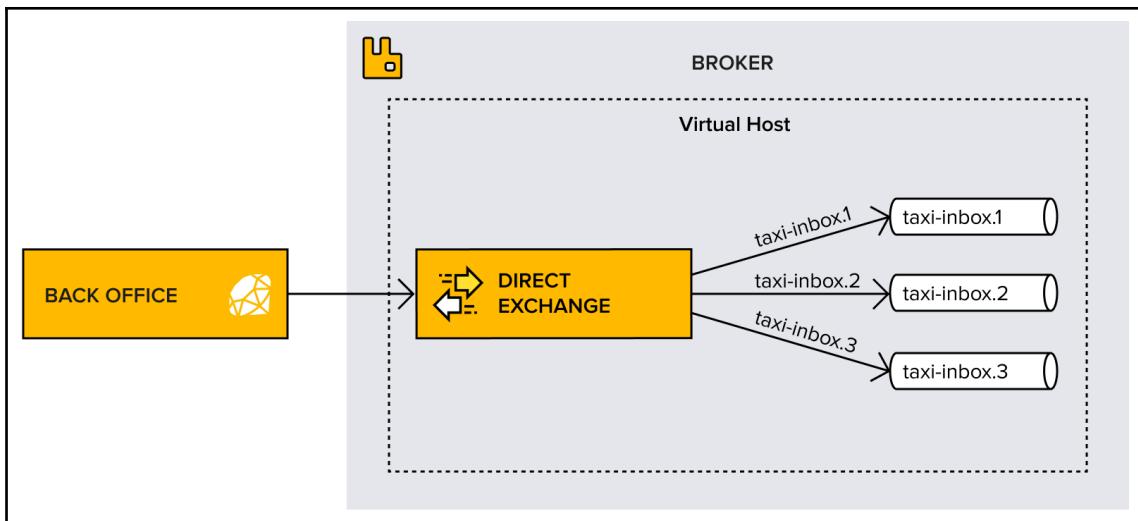
Cluster

Federation Status

Federation Upstreams

Shovel Status

Shovel Management



RabbitMQ™ 3.8.1 Erlang 22.1.5

Refresh every 5 seconds Virtual host cc-dev-vhost Log out

Overview Connections Channels Exchanges Queues Admin

Exchanges

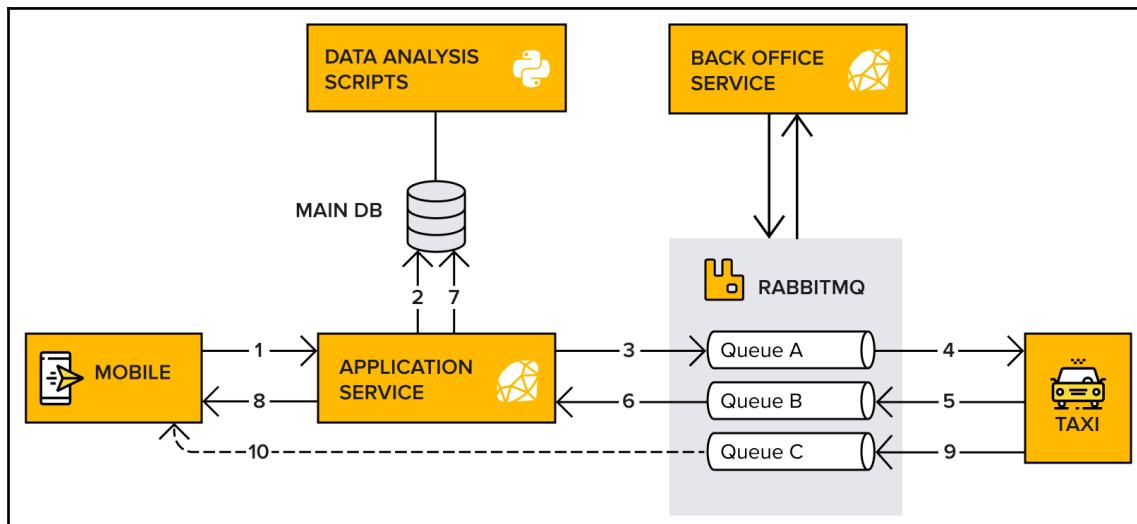
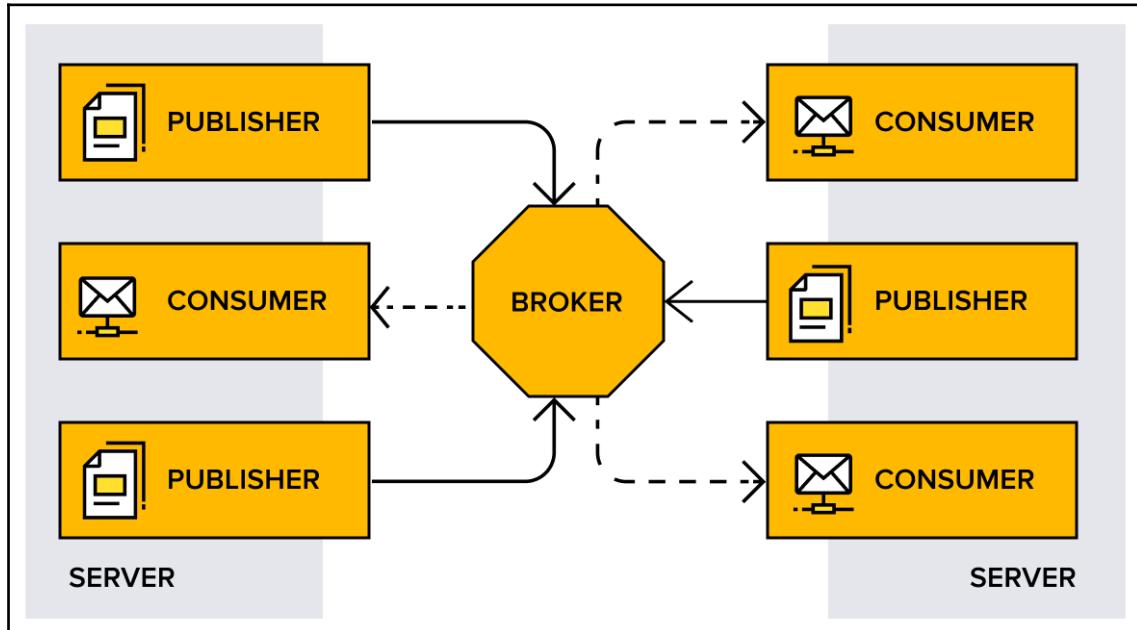
All exchanges (8)

Pagination

Page 1 of 1 - Filter: Regex ? Displaying 8 items , page size up to: 100

Virtual host	Name	Type	Features	Message rate in	Message rate out	+/-
cc-dev-vhost	(AMQP default)	direct	D			
cc-dev-vhost	amq.direct	direct	D			
cc-dev-vhost	amq.fanout	fanout	D			
cc-dev-vhost	amq.headers	headers	D			
cc-dev-vhost	amq.match	headers	D			
cc-dev-vhost	amq.rabbitmq.trace	topic	D I			
cc-dev-vhost	amq.topic	topic	D			
cc-dev-vhost	taxi-direct	direct	D AD			

Chapter 5: Message Routing



Overview Connections Channels Exchanges **Queues** Admin

Message rates last minute ?

Currently idle

Details

Features	arguments: x-queue-type: classic durable: true	State	0
Policy		Consumers	0
Operator policy		Consumer utilisation ?	0%
Effective policy definition			

▼ Bindings

From	Routing key	Arguments	
------	-------------	-----------	--

(Default exchange binding)

↓

This queue

Add binding to this queue

From exchange: *

Routing key:

Arguments: = String

Bind

RabbitMQ 3.8.2 Erlang 22.2.4

Do not refresh Virtual host cc-dev-ws

Overview **Connections** **Channels** **Exchanges** **Queues** **Admin**

Publish message

Message will be published to the default exchange with routing key **taxi_information**, routing it to this queue.

Delivery mode: 1 - Non-persistent

Headers: ? = String

Properties: ? =

Payload: `{"Longitude":9.96233,"Latitude":49.80404}`

Publish message

RabbitMQ 3.8.1 Erlang 22.1.5

Refresh every 5 seconds Virtual host cc-dev-vhost

Cluster rabbit@lovisas-mbp.net User cc-dev Log out

Overview **Connections** **Channels** **Exchanges** **Queues** **Admin**

Bindings

From	Routing key	Arguments	Unbind
(Default exchange binding) taxi_header_exchange		system: taxi version: 0.1b x-match: all	Unbind

↓
This queue

Add binding to this queue

From exchange: **taxi_header_exchange** *

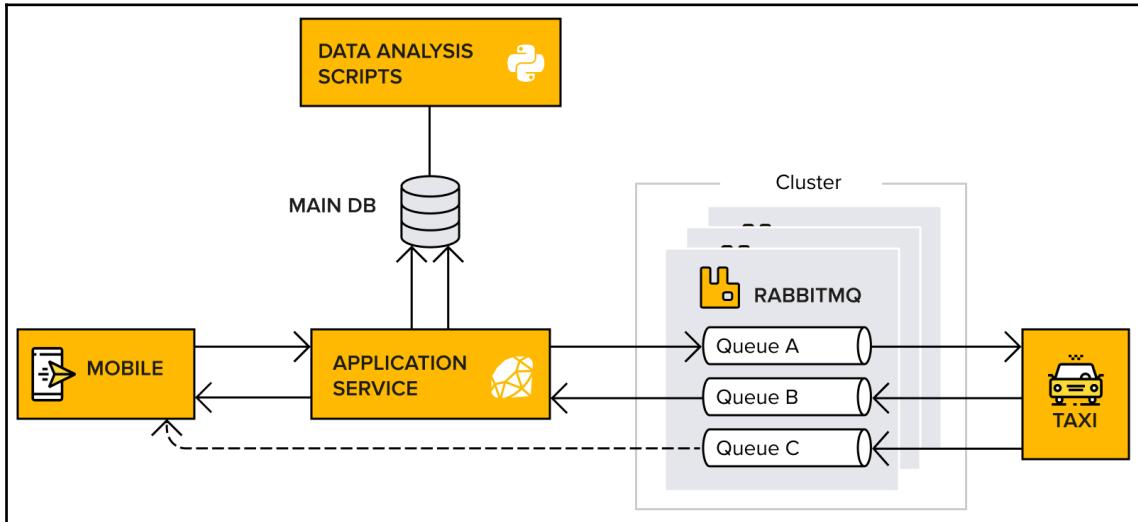
Routing key:

Arguments:

x-match	= all	String
system	= taxi	String
version	= 0.1b	String
	=	String

Bind

Chapter 6: Taking RabbitMQ to Production



Screenshot of the RabbitMQ management interface, version 3.8.2 Erlang 22.2.4, connected to Cluster rmq-prod. The interface shows the "Queues" tab selected. The top navigation bar includes "Overview", "Connections", "Channels", "Exchanges", "Queues" (selected), and "Admin". On the right, there are refresh, virtual host, and cluster selection dropdowns. The main area displays a table titled "Overview" with columns: Virtual host, Name, Node, Type, Features, State, Ready, Unacked, Total, incoming, deliver / get, and ack. Four queues are listed:

Virtual host	Name	Node	Type	Features	State	Messages			Message rates		
						Ready	Unacked	Total	incoming	deliver / get	ack
cc-dev-vhost	taxis.1	rabbit@rmq-prod-01	classic	D Args Q_TTL_DLX	idle	0	0	0			
cc-dev-vhost	taxis.2	rabbit@rmq-prod-01	classic	D Args Q_TTL_DLX	idle	0	0	0			
cc-dev-vhost	taxis.3	rabbit@rmq-prod-01	classic	D Args Q_TTL_DLX	idle	0	0	0			
cc-dev-vhost	taxis.4	rabbit@rmq-prod-01	classic	D Args Q_TTL_DLX	idle	0	0	0			

Below the table, a link "Add a new queue" is visible. The bottom navigation bar includes links for "HTTP API", "Server Docs", "Tutorials", "Community Support", "Community Slack", "Commercial Support", "Plugins", "GitHub", and "Changelog".

RabbitMQ 3.8.2 Erlang 22.2.4

Refresh every 5 seconds Virtual host: All Cluster rmq-prod

Overview **Connections** **Channels** **Exchanges** **Queues** **Admin**

Global counts ?

Connections: 1 Channels: 1 Exchanges: 24 Queues: 5 Consumers: 1

Nodes

Name	File descriptors ?	Socket descriptors ?	Erlang processes	Memory ?	Disk space	Uptime	Info	Reset stats	+/-
rabbit@rmq-prod-01	45 1000000 available	1 899910 available	524 1048576 available	99MB 3.1GB high watermark	100GB 477MB low watermark	12m 14s	basic disc 7 allocated	This node All nodes	
rabbit@rmq-prod-02	102 1000000 available	0 899910 available	484 1048576 available	101MB 3.1GB high watermark	100GB 477MB low watermark	12m 16s	basic disc 7 allocated	This node All nodes	

Churn statistics
Ports and contexts
Export definitions
Import definitions

RabbitMQ 3.8.2 Erlang 22.2.4

Refresh every 5 seconds Virtual host: All Cluster rmq-prod

Overview **Connections** **Channels** **Exchanges** **Queues** **Admin**

Add / update a policy

Virtual host: cc-dev-vhost

Name: HA_Q_TTL_DLX *

Pattern: taxi\.\d+ *

Apply to: Queues

Priority:

Definition:

ha-mode	= all	String	*
ha-sync-mode	= automatic	String	
message-ttl	= taxi\.\d+	Number	
dead-letter-exchange	= taxi-dlx	String	
	=	String	

Federation Upstreams
Shovel Status
Shovel Management

Queues [All types] Max length | Max length bytes | Overflow behaviour ?
Dead letter exchange | Dead letter routing key

Queues [Classic] HA mode ? | HA params ? | HA sync mode ?
HA mirror promotion on shutdown ? | HA mirror promotion on failure ?

RabbitMQ 3.8.2 Erlang 22.2.4 Refreshed 2020-04-20 12:54:35 Refresh every 5 seconds Virtual host All Cluster rmq-prod

Overview Connections Channels Exchanges **Queues** Admin

Queues

All queues (5, filtered down to 4)

Pagination Page 1 of 1 - Filter: taxi Regex ? Displaying 4 items , page size up to: 100

Overview						Messages			Message rates		
Virtual host	Name	Node	Type	Features	State	Ready	Unacked	Total	incoming	deliver / get	ack
cc-dev-vhost	taxis.1	rabbit@rmq-prod-01	+1	classic D Args HA_Q_TTL_DLX	idle	0	0	0			
cc-dev-vhost	taxis.2	rabbit@rmq-prod-01	+1	classic D Args HA_Q_TTL_DLX	idle	0	0	0			
cc-dev-vhost	taxis.3	rabbit@rmq-prod-01	+1	classic D Args HA_Q_TTL_DLX	idle	0	0	0			
cc-dev-vhost	taxis.4	rabbit@rmq-prod-01	+1	classic D Args HA_Q_TTL_DLX	idle	0	0	0			

Add a new queue

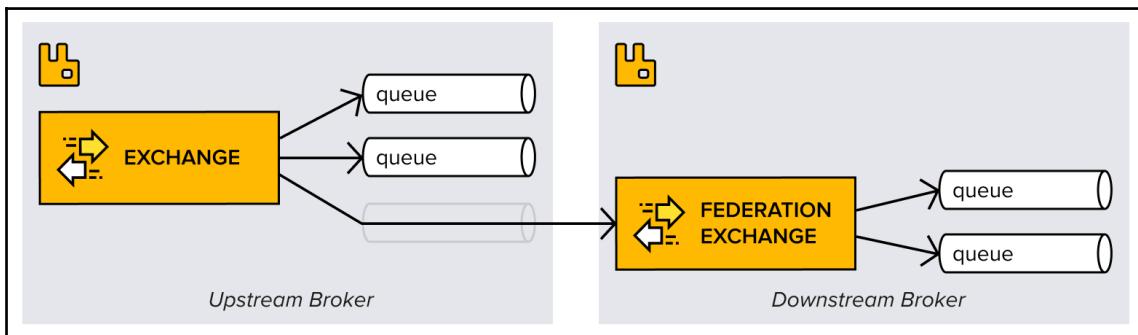
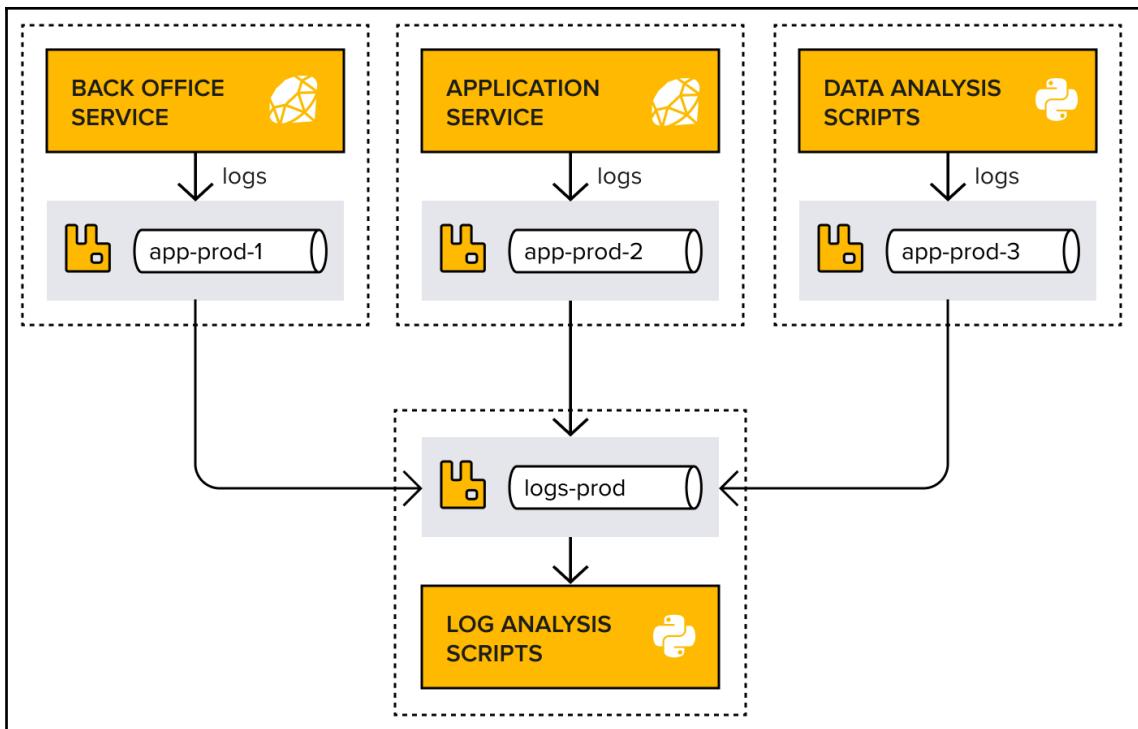
RabbitMQ 3.8.2 Erlang 22.2.4 Refresh every 5 seconds Virtual host All Cluster rmq-prod

Overview Connections Channels Exchanges **Queues** Admin

Details

Features	arguments: x-queue-type: classic durable: true	State	idle	
Policy	HA_Q_TTL_DLX	Consumers	0	
Operator policy	dead-letter-exchange: taxi-dlx ha-mode: all ha-sync-mode: automatic message-ttl: 604800000	Consumer utilisation ?	0%	
Effective policy definition		Messages ?	Total Ready Unacked In memory Persistent Transient, Paged Out	0 0 0 0 0 0
		Message body bytes ?	0iB 0iB 0iB 0iB 0iB 0iB	
		Process memory ?	15kiB	
Node	rabbit@rmq-prod-01			
Mirrors	rabbit@rmq-prod-02			

▶ Bindings
▶ Publish message



RabbitMQ 3.8.2 Erlang 22.2.4 Refresh every 5 seconds Virtual host All Cluster rmq-prod

Queues

Details		Features	Policy	State	Consumers	Consumer utilisation	Messages	Total	Ready	Unacked	In memory	Persistent	Transient, Paged Out
Effective policy definition	Operator policy	arguments: x-queue-type: classic durable: true	HA_Q_TTL_DLX	idle	0	0%	?	0	0	0	0	0	0
		dead-letter-exchange: taxi-dlx ha-mode: all ha-sync-mode: automatic message-ttl: 604800000			Message body bytes	?	0iB	0iB	0iB	0iB	0iB	0iB	0iB
Mirrors	Node	rabbit@rmq-prod-01					Process memory	?	15kB				
	Mirrors	rabbit@rmq-prod-02											

▶ Bindings
▶ Publish message

RabbitMQ 3.8.2 Erlang 22.2.4 Refresh every 5 seconds Virtual host All Log out

Admin

>Add / update a policy

Virtual host: logs-prod Name: app-prod-logs * Pattern: ^app-logs* Apply to: Exchanges Priority: Definition: federation-upstream-set = all = String *

Federation Status Federation Upstreams Shovel Status Shovel Management

Queues [All types] Max length | Max length bytes | Overflow behaviour Dead letter exchange | Dead letter routing key Queues [Classic] HA mode | HA params | HA sync mode HA mirror promotion on shutdown | HA mirror promotion on failure Message TTL | Auto expire | Lazy mode | Master Locator Queues [Quorum] Max in memory length | Max in memory bytes | Delivery limit Exchanges Alternate exchange Federation Federation upstream set | Federation upstream

Add / update policy

RabbitMQ 3.8.1 Erlang 22.1.5

Refreshed 2020-04-24 13:28:01 Refresh every 5 seconds

Virtual host: cc-prod-vhost

Overview Connections Channels Exchanges Queues Admin Log out

Federation Upstreams

Upstreams

Virtual Host	Name	URI	Prefetch Count	Reconnect Delay	Ack mode	Trust User-ID	Exchange	Max Hops	Expiry	Message TTL	HA Policy	Queue	Consumer tag
cc-prod-vhost	app-prod-logs	amqp://cc-prod:[redacted]@app-prod-1:5672/cc-prod-vhost			?	?	?				?	?	

Add a new upstream

URI examples

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RabbitMQ 3.8.2 Erlang 22.2.4

Do not refresh Virtual host: All

Overview Connections Channels Exchanges Queues Admin Log out

Federation Status

Running Links

Upstream	URI	Virtual Host	Exchange / Queue	Node	State	Inbound message rate	Last changed	ID	Consumer tag	Operations
app-prod-logs	amqp://app-prod-1:5672/logs-prod	logs-prod	app-logs exchange	rabbit@logs-prod	running		2020-04-24 19:59:39	eaicca23		<button>Restart</button>

Users

Virtual Hosts

Feature Flags

Policies

Limits

Cluster

Federation Status

Federation Upstreams

Shovel Status

Shovel Management

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RabbitMQ 3.8.2 Erlang 22.2.4

Do not refresh Virtual host: All

Overview Connections Channels Exchanges Queues Admin Log out

Connections

All connections (2, filtered down to 1)

Pagination

Page 1 of 1 - Filter: -02 Regex ? Displaying 1 item, page size up to: 100

Overview					Details			Network		+/-
Virtual host	Name	Node	User name	State	SSL / TLS	Protocol	Channels	From client	To client	
logs-prod	<rabbit@logs-prod.3.31374.33>	logs-prod	none			Direct 0-9-1				

Federation link (upstream: app-prod-logs, policy: app-prod-logs)

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Chapter 7: Best Practices and Broker Monitoring

