

# Running, Validating, and Verifying any Queueing model with Rabbit-MQ

Containers

Container CPU usage

0.70% / 800% (8 CPUs available)

Container memory usage

277.2MB / 3.63GB

Show charts

Search

Only show running containers

	Name	Image	Status	Port(s)	CPU (%)	Last started	Actions
<input type="checkbox"/>	<div><div>competent_sanderson</div><div>0a68dbed7652</div></div>	rabbitmq:3-management	Running		0.33%	14 minutes ago	<div><div></div><div></div><div></div></div>
<input type="checkbox"/>	<div><div>agitated_margulls</div><div>203dc71473ef</div></div>	hello-world:latest	Exited		0%	5 days ago	<div><div></div><div></div><div></div></div>
<input type="checkbox"/>	<div><div>vigilant_wilbur</div><div>7d7d9b813a5b</div></div>	hello-world	Exited		0%	5 days ago	<div><div></div><div></div><div></div></div>
<input type="checkbox"/>	<div><div>gracious_napier</div><div>a7c3391819b1</div></div>	rabbitmq:latest	Exited		0%	5 days ago	<div><div></div><div></div><div></div></div>
<input type="checkbox"/>	<div><div>rabbitmq</div><div>7c92fe9ce408</div></div>	rabbitmq:3-management	Running	<div>15672:15672</div> <div>5672:5672</div> <div>Show less</div>	0.3%	13 minutes ago	<div><div></div><div></div><div></div></div>

RabbitMQ

RabbitMQ 3.13.2 Erlang 26.2.5

Refreshed 2024-05-25 16:17:03 Refresh every 5 seconds

Virtual host All

Cluster rabbit@7c92fe9ce408

User guest Log out

Overview

Connections

Channels

Exchanges

Queues and Streams

Admin

Overview

Totals

Queued messages last minute

Currently idle

Message rates last minute

Currently idle

Global counts

Connections: 0 Channels: 0 Exchanges: 7 Queues: 0 Consumers: 0

Nodes

Name	File descriptors	Socket descriptors	Erlang processes	Memory	Disk space	Uptime	Info	Reset stats
rabbit@7c92fe9ce408	43 1048576 available	0 943629 available	438 1048576 available	162 MiB 1.5 GiB high watermark	954 GiB 48 MiB low watermark	14m 3s	basic disc 2 rss	This node All nodes

Churn statistics

Ports and contexts

Listening ports

Protocol	Bound to	Port
amqp	::	5672
clustering	::	25672
http	::	15672
http/prometheus	::	15692

```
producer consumer +
File Edit View

import pika

# Establish connection to RabbitMQ server
connection = pika.BlockingConnection(pika.ConnectionParameters('localhost'))
channel = connection.channel()

# Declare a queue named 'hello'
channel.queue_declare(queue='hello')

# Function to send message
def send_message(message):
    channel.basic_publish(exchange='', routing_key='hello', body=message)
    print(f" [x] Sent '{message}'")

# Send 10 messages
for i in range(10):
    send_message(f"Message {i} from Bob")

# Close the connection
connection.close()
```

```
producer consumer +
File Edit View

import pika

connection = pika.BlockingConnection(pika.ConnectionParameters('localhost'))
channel = connection.channel()

channel.queue_declare(queue='hello')

def callback(ch, method, properties, body):
    print(f" [x] Received {body}")

channel.basic_consume(queue='hello', on_message_callback=callback, auto_ack=True)

print(' [*] Waiting for messages. To exit press CTRL+C')
channel.start_consuming()
|
```

```
KeyboardInterrupt
^C
C:\Users\NITHIN ANIL>
C:\Users\NITHIN ANIL>
C:\Users\NITHIN ANIL>
C:\Users\NITHIN ANIL>
C:\Users\NITHIN ANIL>
C:\Users\NITHIN ANIL>
C:\Users\NITHIN ANIL>
C:\Users\NITHIN ANIL>
C:\Users\NITHIN ANIL>
C:\Users\NITHIN ANIL>python producer.py
[x] Sent 'Message 0 from Bob'
[x] Sent 'Message 1 from Bob'
[x] Sent 'Message 2 from Bob'
[x] Sent 'Message 3 from Bob'
[x] Sent 'Message 4 from Bob'
[x] Sent 'Message 5 from Bob'
[x] Sent 'Message 6 from Bob'
[x] Sent 'Message 7 from Bob'
[x] Sent 'Message 8 from Bob'
[x] Sent 'Message 9 from Bob'
```

Microsoft Windows [Version 10.0.22631.3447]  
(c) Microsoft Corporation. All rights reserved.


```
C:\Users\NITHIN ANIL>python consumer.py
[*] Waiting for messages. To exit press CTRL+C
[x] Received b'Message 0 from Bob'
[x] Received b'Message 1 from Bob'
[x] Received b'Message 2 from Bob'
[x] Received b'Message 3 from Bob'
[x] Received b'Message 4 from Bob'
[x] Received b'Message 5 from Bob'
[x] Received b'Message 6 from Bob'
[x] Received b'Message 7 from Bob'
[x] Received b'Message 8 from Bob'
[x] Received b'Message 9 from Bob'
```

OverviewConnectionsChannelsExchangesQueues and StreamsAdmin

Queue hello

Overview

Queued messageslast minute?

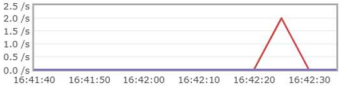


Ready0

Unacked0

Total0

Message rateslast minute?



Publish0.00/s

Deliver (manual ack)0.00/s

Deliver (auto ack)0.00/s

Consumer ack0.00/s

Redelivered0.00/s

Get (manual ack)0.00/s

Get (auto ack)0.00/s

Get (empty)0.00/s

Details

Features

queue storage version: 1

Policy

Operator policy

Effective policy definition

Stateidle

Consumers1

Consumer capacity91%

Messages?

Message body bytes?

Process memory?

Total0

Ready0

Unacked0

In memory0

Persistent0

Transient, Paged Out0

Consumers (1)

OverviewConnectionsChannelsExchangesQueues and StreamsAdmin

Queues

All queues (1)

Pagination

Page 1 of 1 - Filter:  ☐ Regex?

Displaying 1 item , per page

Overview				Messages			Message rates			+/-
Virtual host	Name	Type	Features	State	Ready	Unacked	Total	incoming	deliver / get	ack
/	hello	classic		running	10	0	10	2.0/s	0.00/s	0.00/s

Add a new queue

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