

RabbitMQ for .Net Developers – Part 2

Advanced Topics

Michael Stephenson
@michael_stephen
Michael_stephensonuk@yahoo.co.uk



pluralsight
hardcore developer training

Agenda

- **Scheduled Delivery**
- **Virtual Hosts**

Scheduled Delivery

Background

- How can I publish a message but delay the processing of the message?

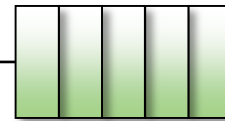
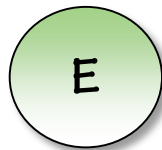
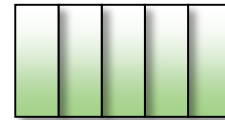
Holding Queue???

Scheduled Delivery

Message schedule reached



Holding Queue



Processing Queue



How can we do it

```
Write-Host "Creating Exchange" -foregroundcolor green

$exchangeType = [RabbitMQ.Client.ExchangeType]::Topic

$args = @{"alternate-exchange"="Module3.Sample10.FailuresExchange"};

$model.ExchangeDeclare("Module3.Sample10.Exchange", $exchangeType,
    $true, $false, $args)
```

Demo

Scheduled Delivery

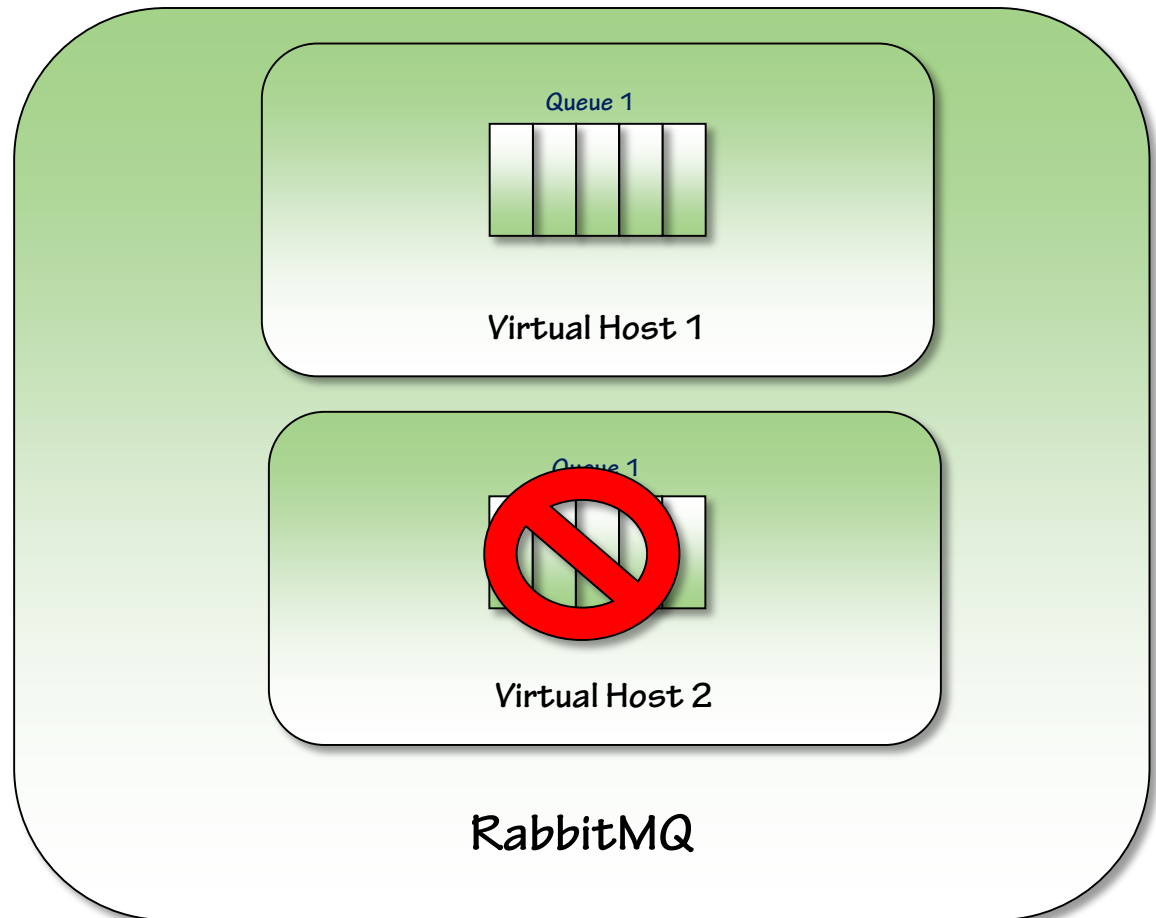
Virtual Hosts

Background

- Can I sandbox messaging in RabbitMQ
- Why
 - Application isolation
 - Data protection
 - Support separation
 - SLA

Virtual Host!

Virtual Host



How can we do it

[Overview](#)[Connections](#)[Channels](#)[Exchanges](#)[Queues](#)[Admin](#)

Virtual Hosts

▼ All virtual hosts

Filter:

Overview		Messages			Data rates		Message rates	
Name	Users (?)	Ready	Unacked	Total	From clients	To clients	publish	deliver / get
/	guest	0	0	0	0B/s (2.0MB total)	0B/s (9.4MB total)	0.00/s	0.00/s
Host1	guest, host1user	0	0	0	0B/s (2.2kB total)	0B/s (2.0kB total)	0.00/s	
Host2	guest, host2user	0	0	0	0B/s (1.7kB total)	0B/s (1.6kB total)	0.00/s	

How can we do it

```
var connectionFactory = new ConnectionFactory
{
    HostName = HostName,
    UserName = UserName,
    Password = Password,
    VirtualHost = virtualHost
};
```

Demo

Virtual Hosts

Summary

- **Challenges of real world messaging solutions**
 - Scheduled Delivery
 - Virtual Hosts