

RabbitMQ and .NET

With EasyNetQ

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Today's Talk

- EasyNetQ demo
- Why messaging?
- Why RabbitMQ?
- AMQP Exchange-Binding-Queue Model
- Why EasyNetQ?
- Our experience with RabbitMQ

EasyNetQ Demo

Just for fun it's using Mono on OSX

Why Messaging?

	logically Decoupled	Location Unaware	Temporal Decoupling	Low Latency	Open Standards
File Transfer	yes	yes	yes	no	yes
Shared Database	no	yes	yes	no	no
RPC (e.g. COM+)	yes	no	no	yes	no
Web Services	yes	no	no	yes	yes
Message Queue	yes	no	yes	yes	some
Message Bus	yes	yes	yes	yes	some

Why RabbitMQ

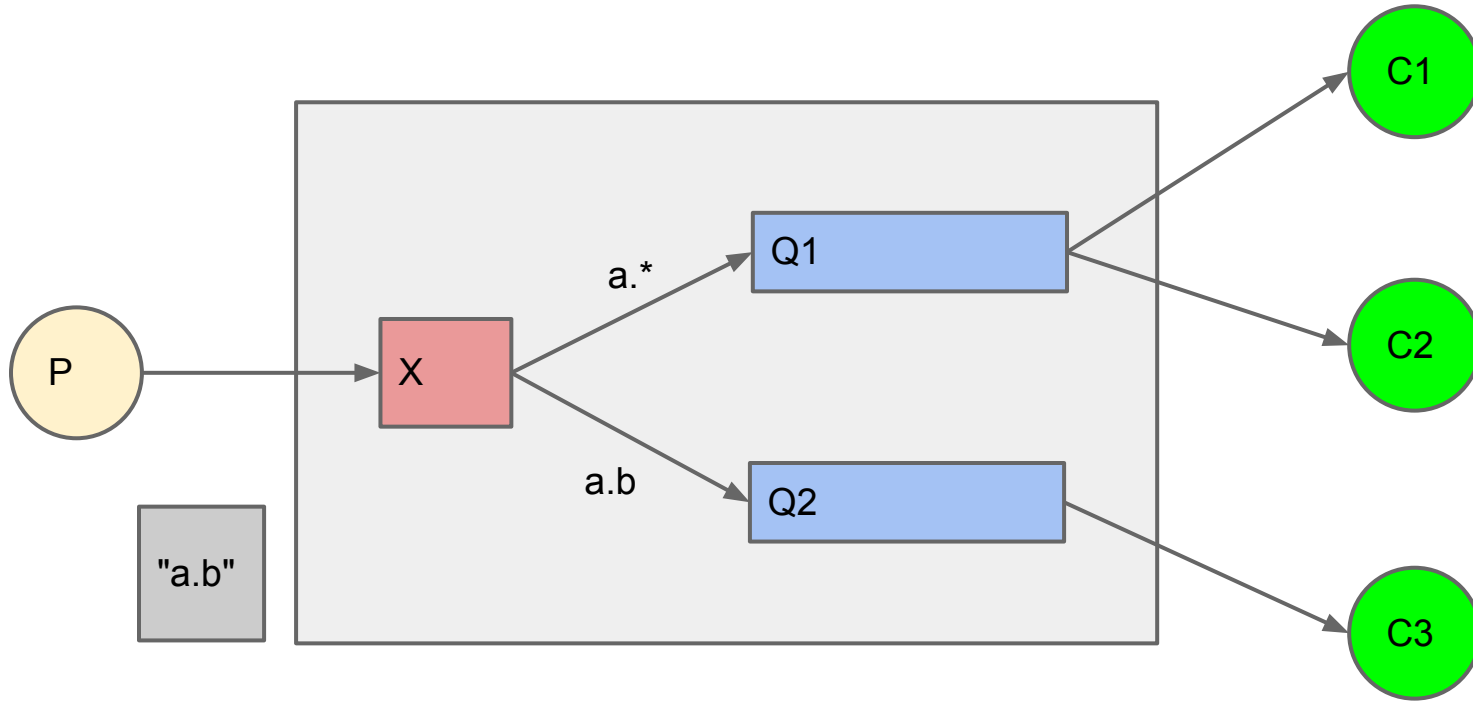
Broker vs Brokerless

- Location unaware services
 - Single point of management (monitoring, DR)
 - Every interaction has two hops
- Location aware
 - No single point of failure
 - Each interaction has a single hop
 - Monitoring, DR is distributed

Why RabbitMQ

- VMWare
 - Open source
 - Commercial support available
- Erlang
 - Reliable Actor based programming
 - Fault tollerant
 - Multi-platform
 - Clustering out-of-the-box
- AMQP
 - Open standard
 - Client libraries for different languages
 - Flexible exchange-binging-queue model

AMQP



Why EasyNetQ?

- 15below
- Inspired by NServiceBus, MassTransit
- AMQP is not easy
 - Implement messaging patterns
 - Serialization
 - Threading strategy (producer and consumer)
 - Handling connection loss
 - Various AMQP tweaks (QoS settings etc)
 - Error handling strategy
- Attempts to make messaging with RabbitMQ super easy

EasyNetQ

- Open Source MIT licence
- EasyNetQ.com
- <http://github.com/mikehadlow/EasyNetQ>
- 15 contributors, 58 forks
- Full documentation wiki
- Active newsgroup
- NuGet 8000+ downloads - CI from GitHub
- Supports a multi-million £ business
- Sponsored by 15below
- RabbitMQ Management API client

Our Experiences With RabbitMQ

- RabbitMQ is a reliable black box
- Performance is great
- Management UI is useful
- Writing reliable AMQP clients is hard
- Monitoring a challenge
- Auditing a challenge
- Message versioning?

So ...

- Messaging can help you build SOA
- RabbitMQ is a robust high-performance message broker
- EasyNetQ makes working with RabbitMQ from .NET easy.

One more thing...

15below is hiring - so come and do messaging with us in Brighton!

Questions?

RabbitMQ.com

EasyNetQ.com

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