Evolutionary history of the RabbitMQ .NET Client

towards concurrency

Goals
target

Familiarity with **the RabbitMQ client**

Understand how **concurrency is hard** with the existing client approach

Experience the **process of evolving the client**

Process

Understand the synchronous path

Optimize the synchronous path

Introduce a redundant asynchronous path

It's code time

Recap
reminder

Find the IO-bound paths in your code

Get rid of lock contentions

If possible use a redundant code path that is async all the way

Recap
reminder

Gradually extend IO-bound paths

Never block threads

Only custom offload where really necessary

Recap
reminder

On .NET 5 consider ValueTask to benefit from pooling

Leverage existing battle tested reliable BCL components where you can

If you can, contribute back to OSS that you use in your company

Thanks

Slides, Links...

github.com/danielmarbach/**AsyncRabbitMQ**

Q & A

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Thanks