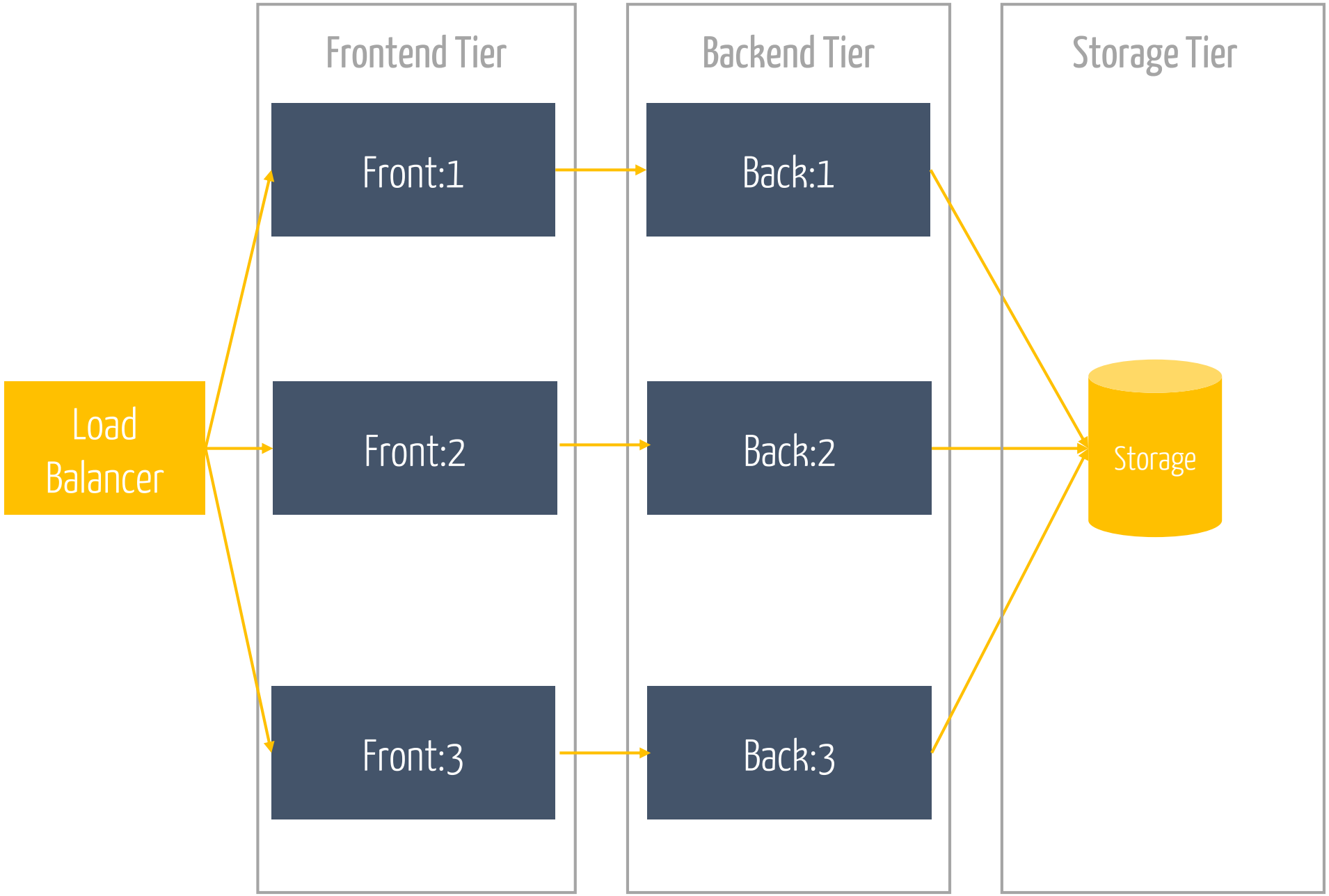
NServiceBus and Service Fabric

A Tale of

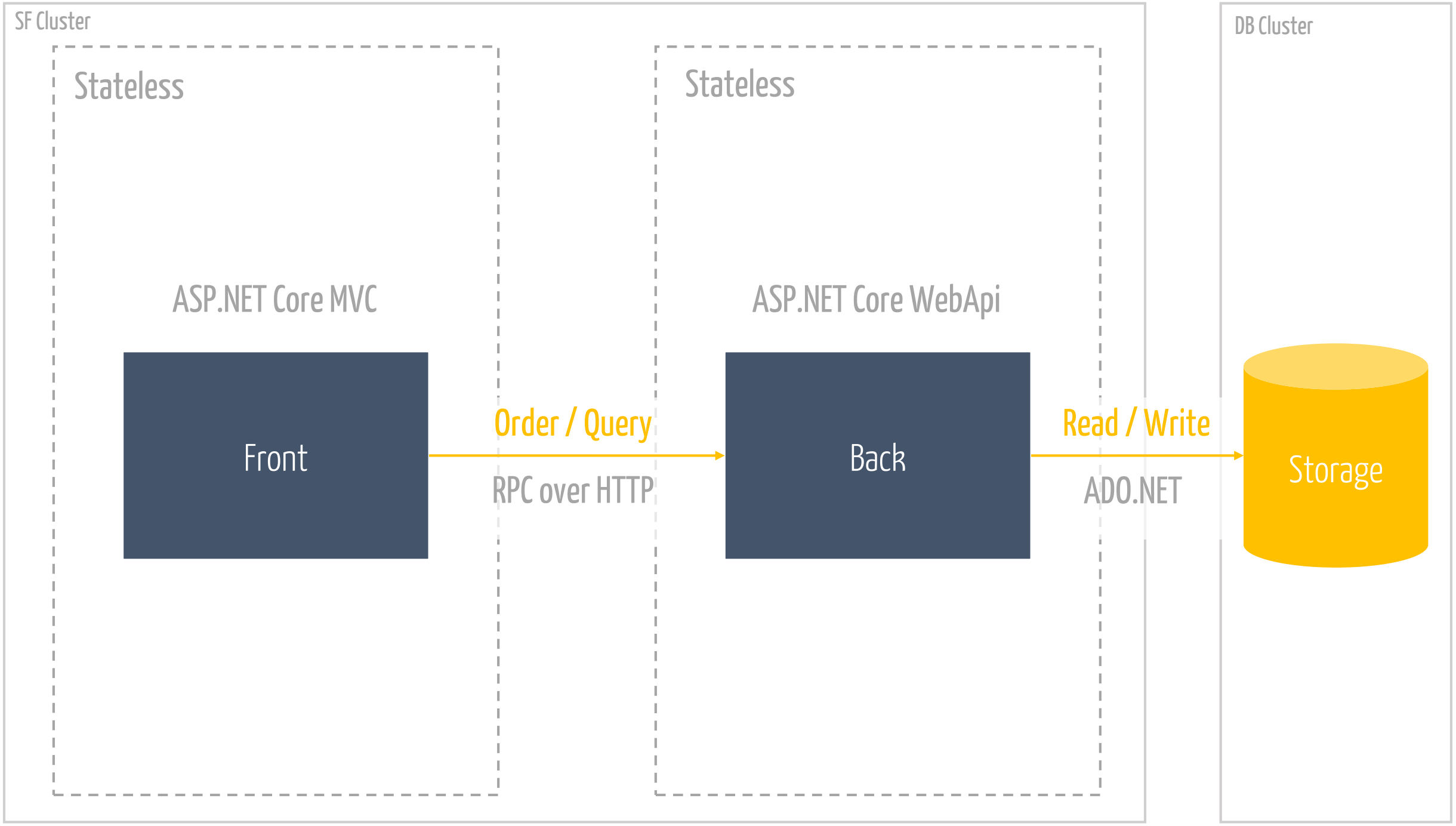
orders

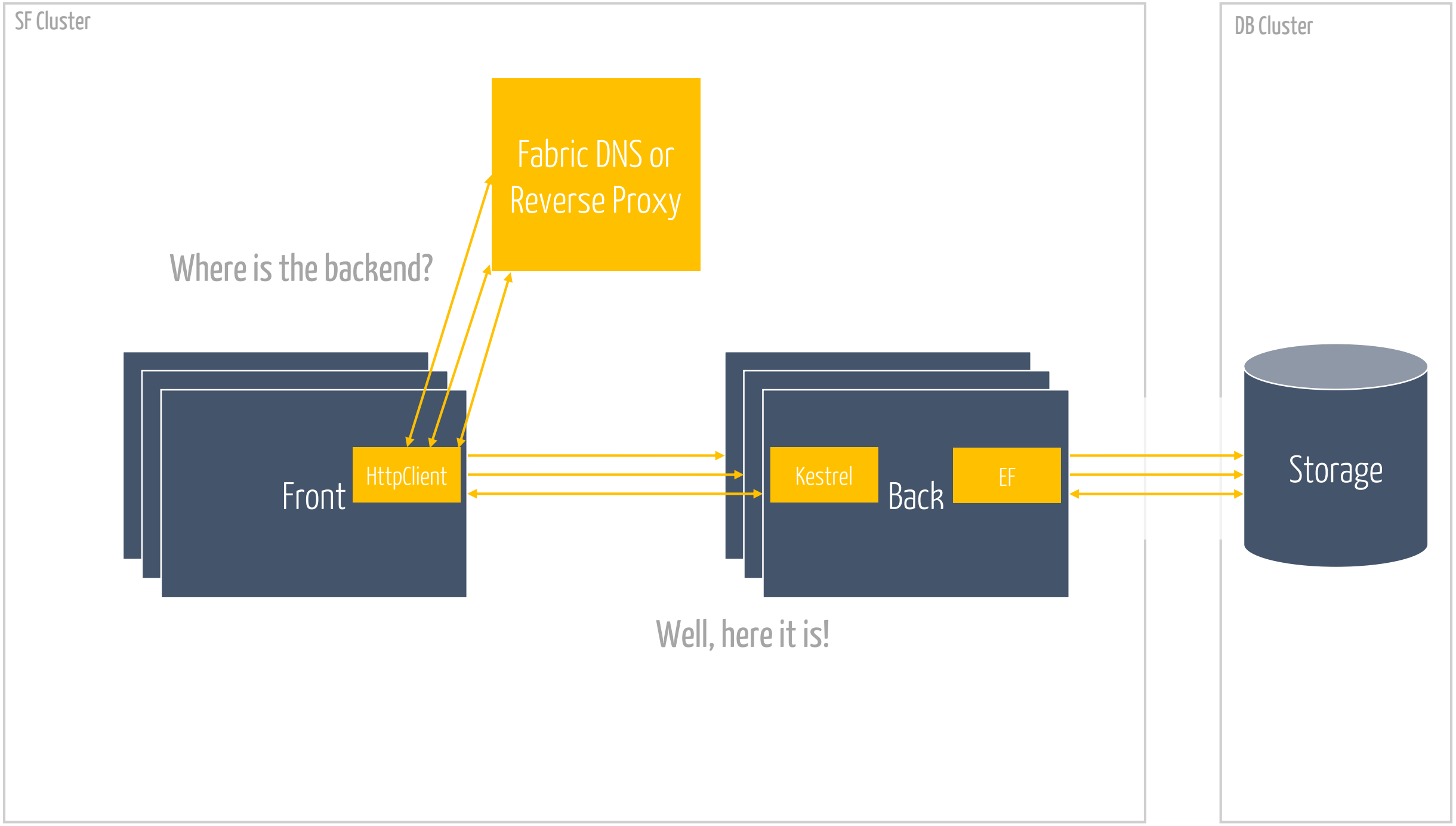
A few hours

later...


Frontend Tier
Backend Tier
Storage Tier
Load Balancer
Front:1
Front:2
Front:3
Back:1
Back:2
Back:3
Storage

Microservices 1.0


SF Cluster
Stateless
Stateless
DB Cluster
ASP.NET Core MVC
ASP.NET Core WebApi
Front
Order / Query
RPC over HTTP
Back
Read / Write
ADO.NET
Storage

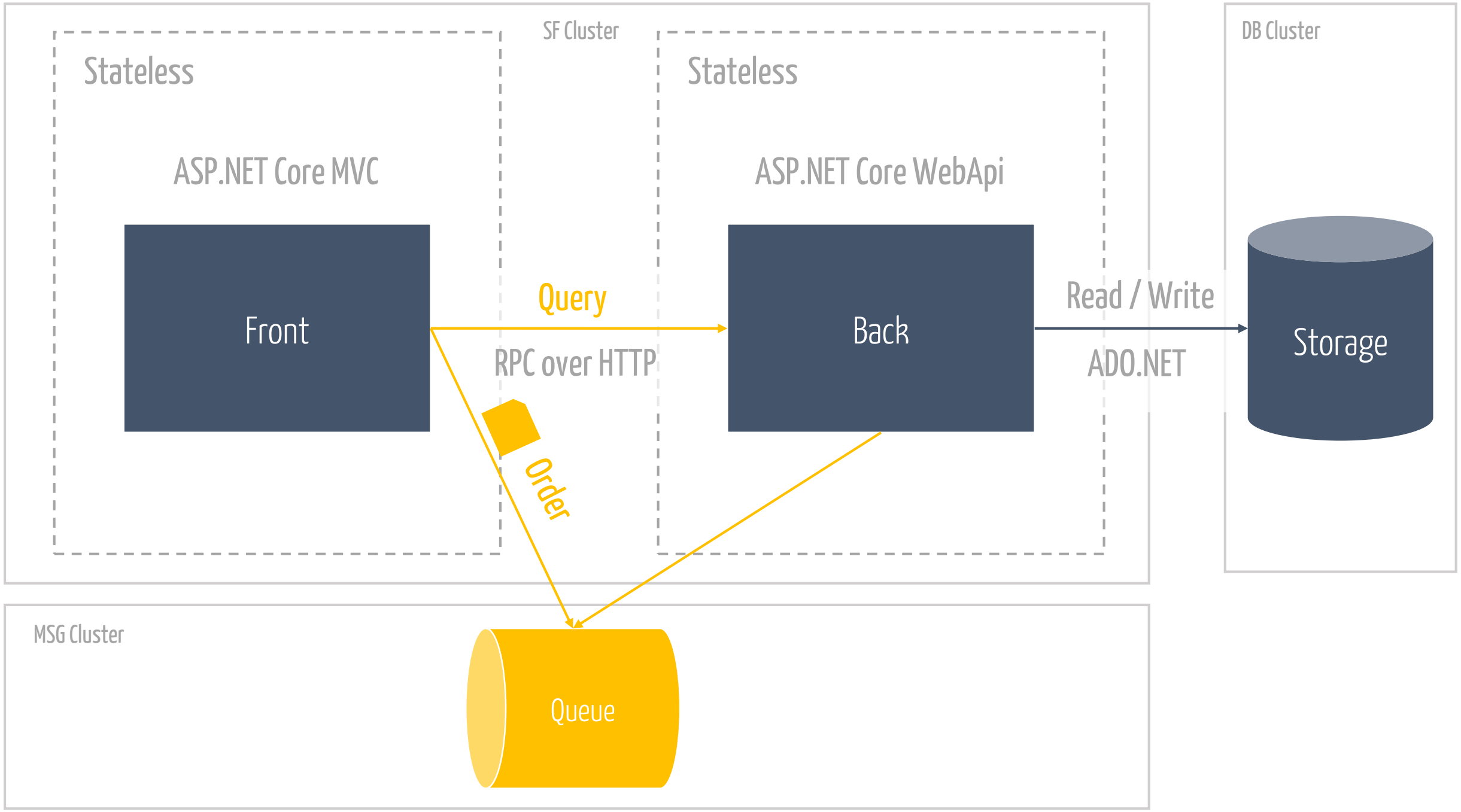

SF Cluster
DB Cluster
Fabric DNS or
Reverse Proxy
Where is the backend?
Front
HttpClient
Kestrel
Back
EF
Storage
Well, here it is!

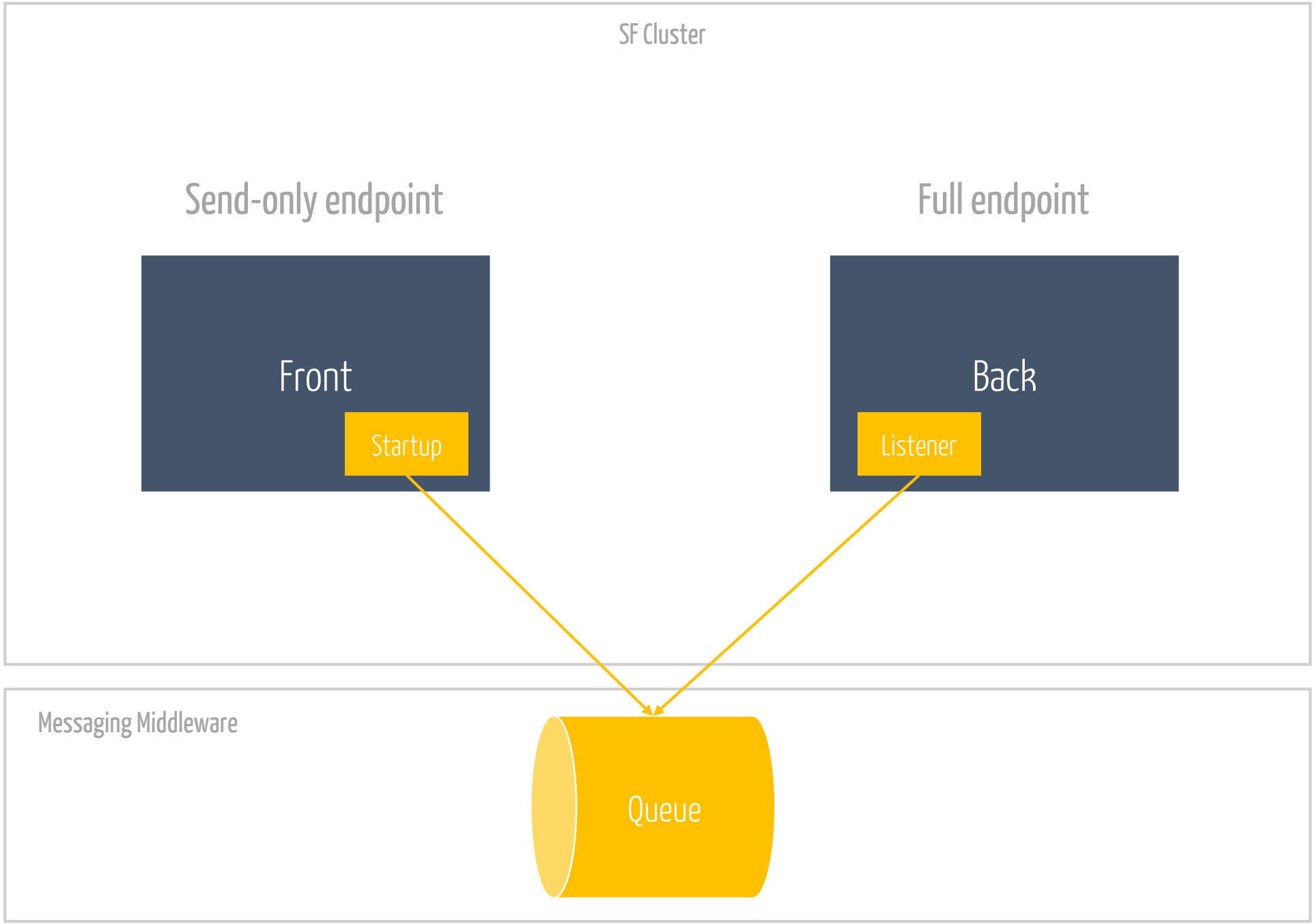
Demo

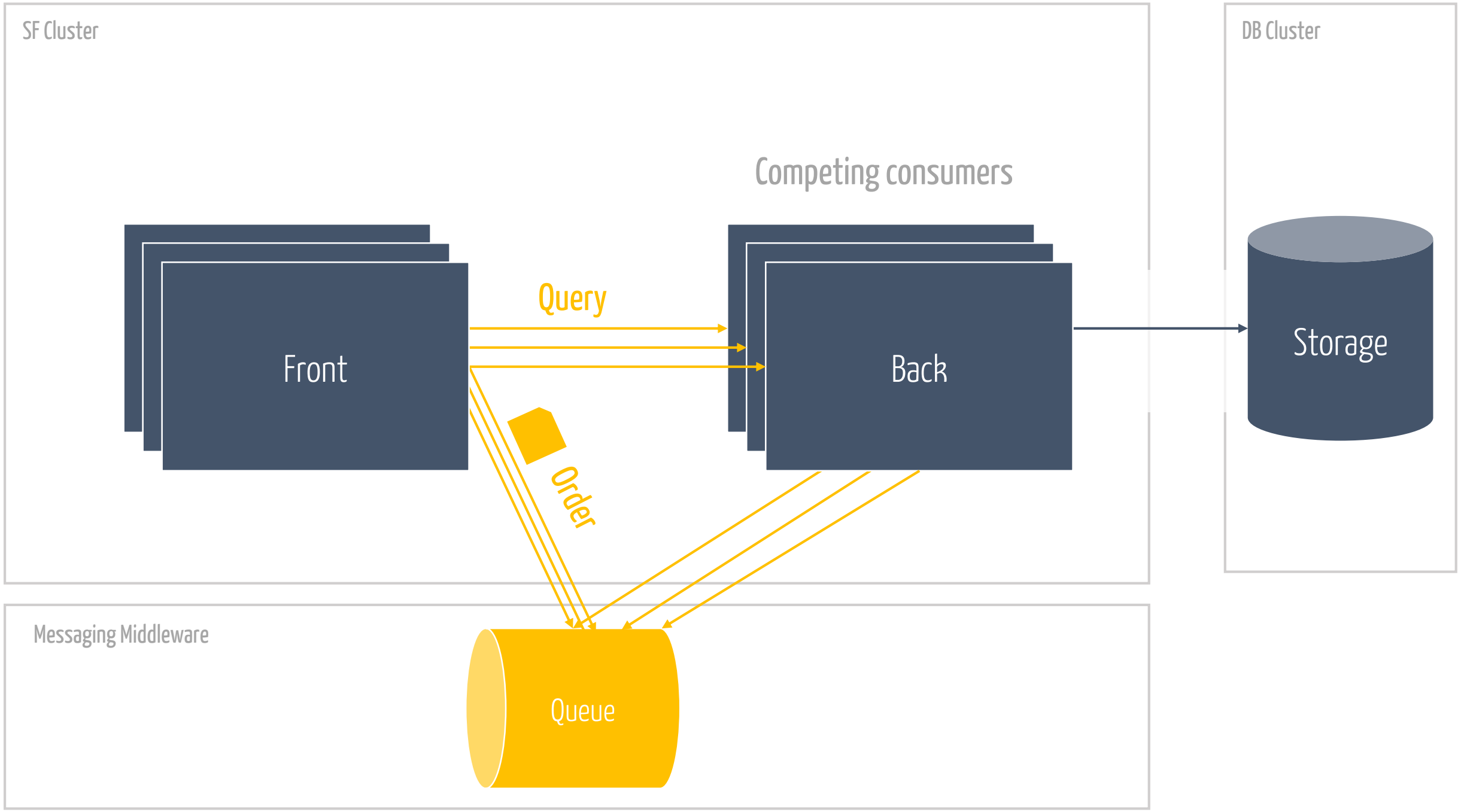
The RPC callstack of

doom

Microservices 2.0


SF Cluster
Stateless
ASP.NET Core MVC
Front
Stateless
ASP.NET Core WebApi
Back
Query
RPC over HTTP
Order
Read / Write
ADO.NET
DB Cluster
Storage
MSG Cluster
Queue


SF Cluster
Send-only endpoint
Full endpoint
Front
Startup
Back
Listener
Messaging Middleware
Queue


SF Cluster
DB Cluster
Competing consumers
Front
Query
Back
Storage
Order
Messaging Middleware
Queue

Demo

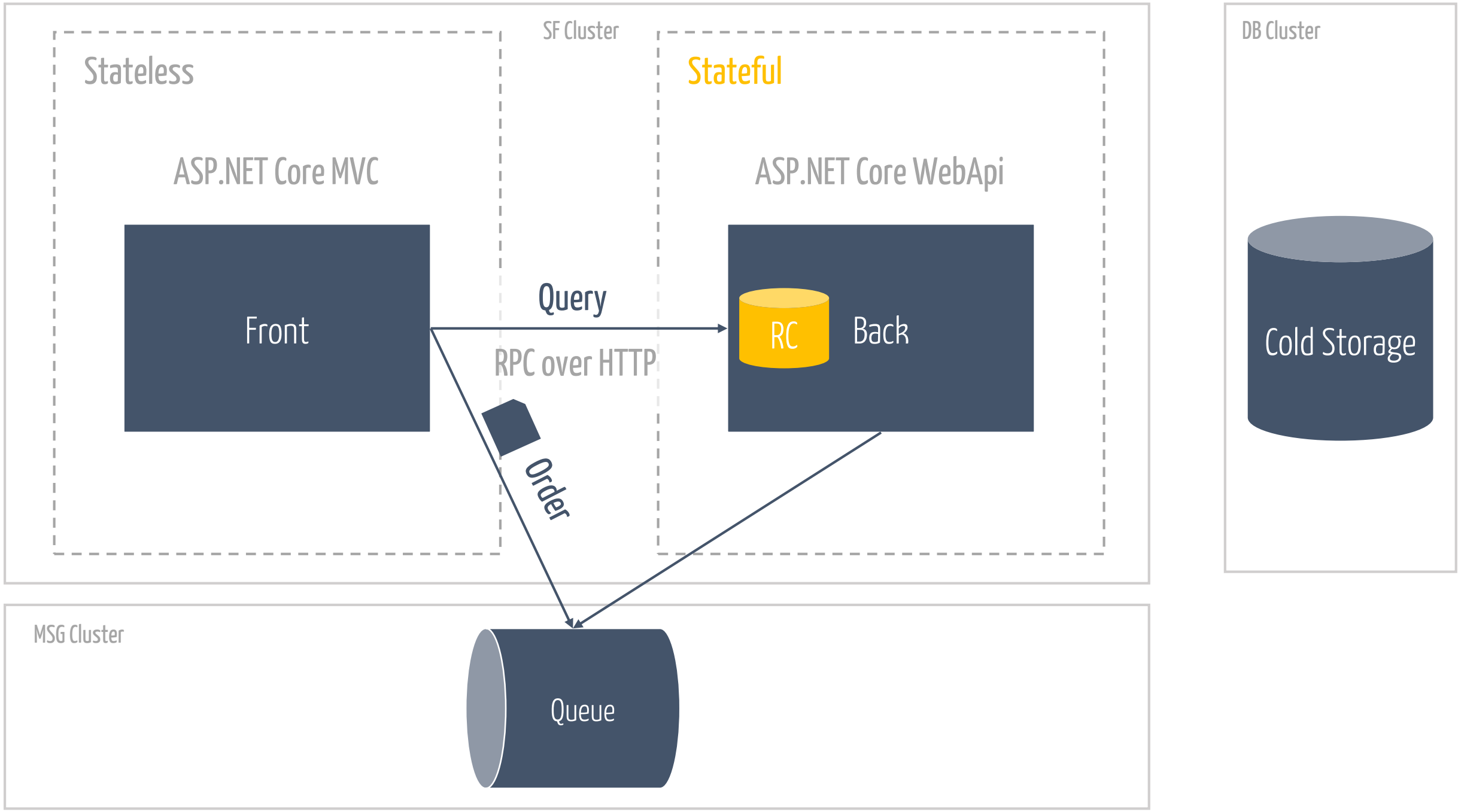
almost

a happy life

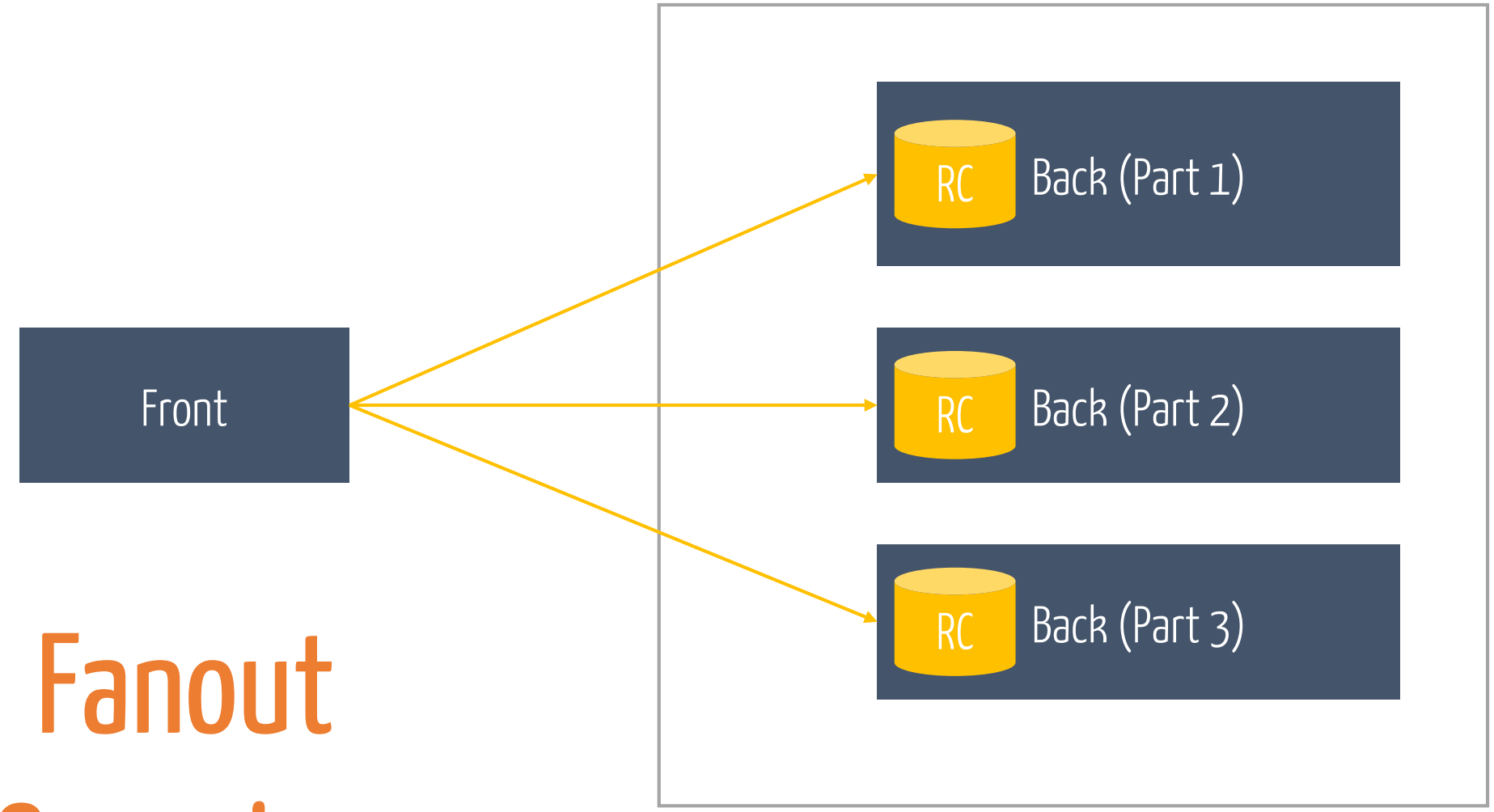
almost

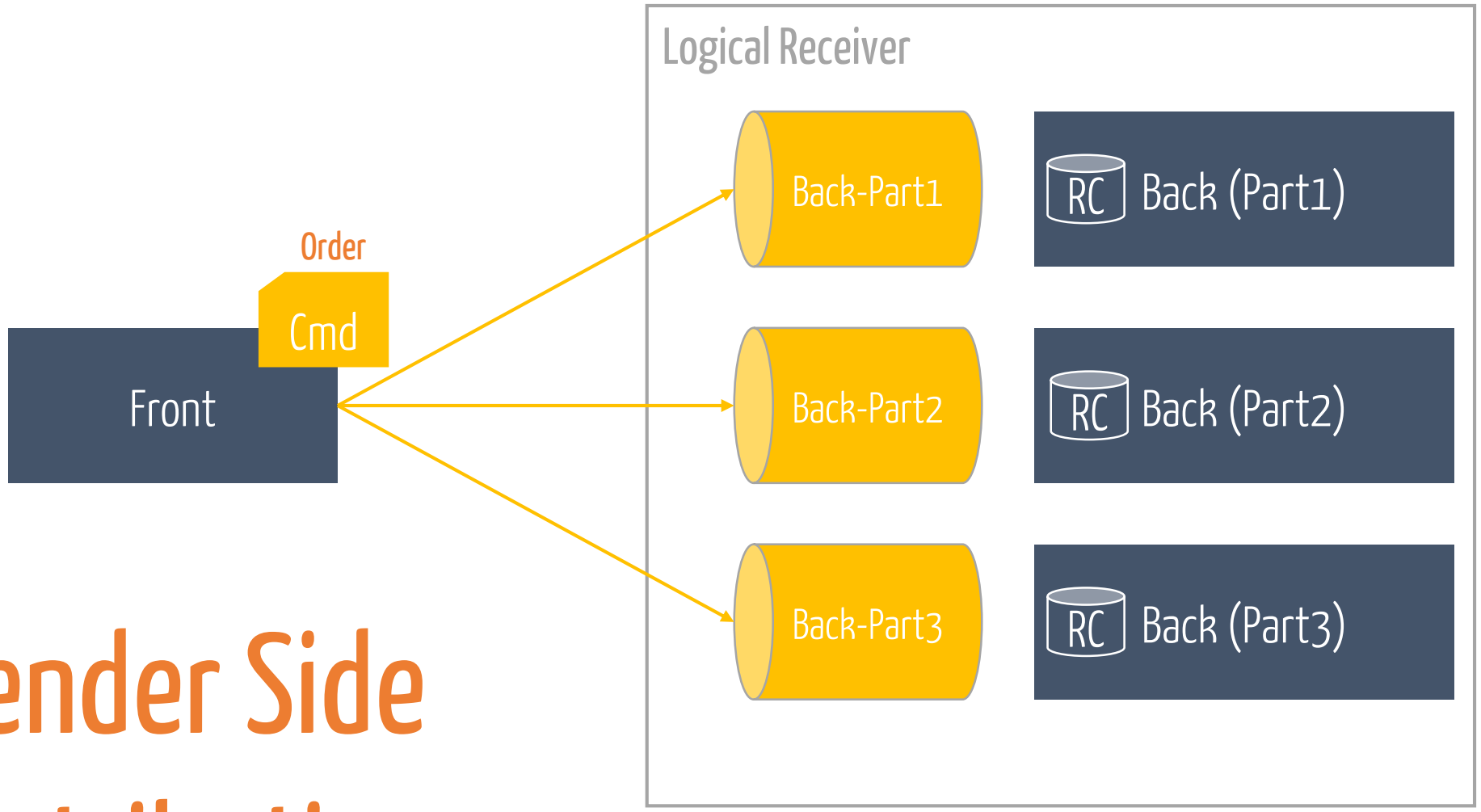
a happy life

Microservices 3.0


SF Cluster
Stateless
ASP.NET Core MVC
Front
Stateful
ASP.NET Core WebApi
RC
Back
Query
RPC over HTTP
Order
DB Cluster
Cold Storage
MSG Cluster
Queue

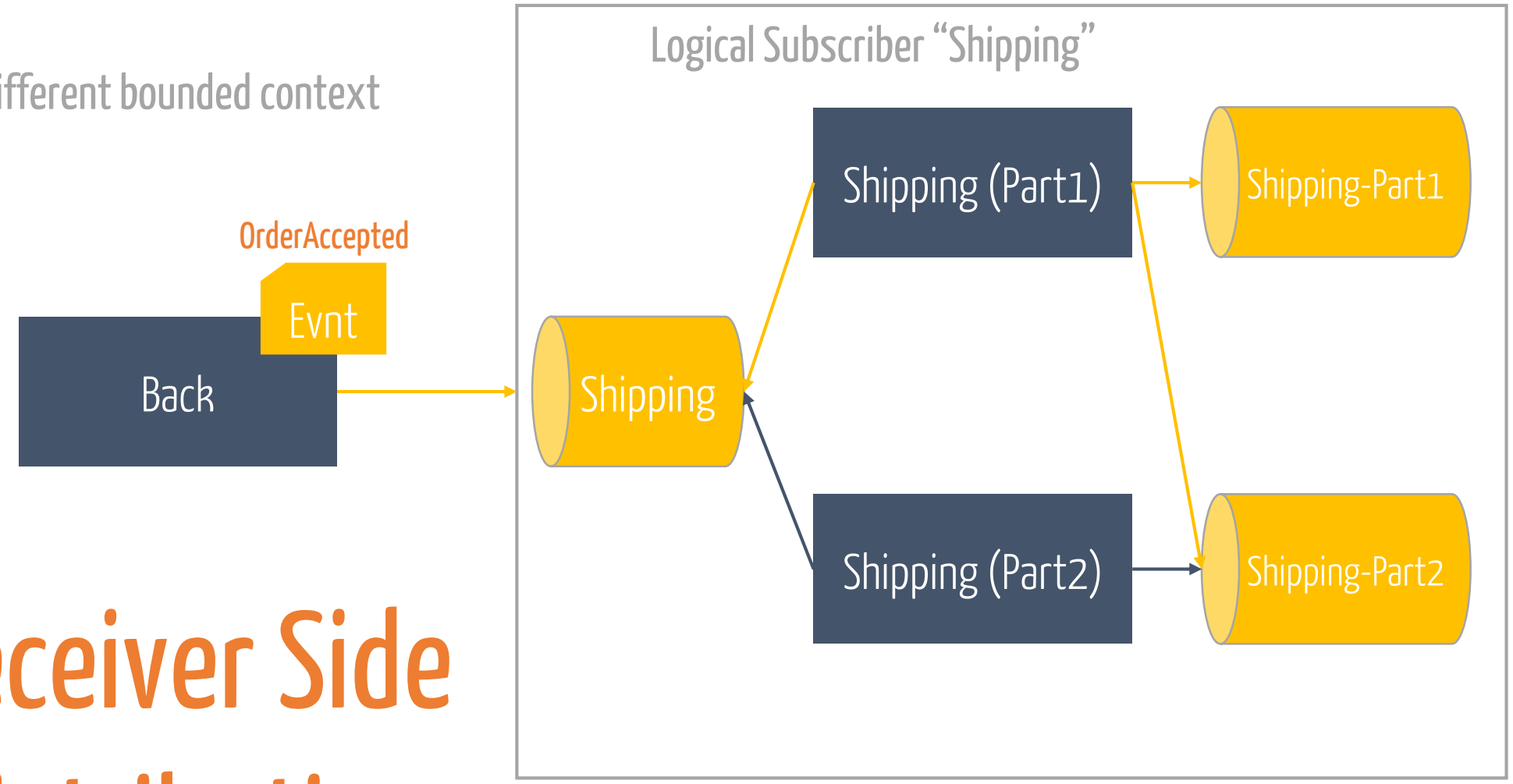
Fanout Querying





Sender Side Distribution

Receiver Side Distribution



Demo

Slides, Links...

github.com/danielmarbach/service-fabric-webinar

Particular Software

Q&A

daniel.marbach@particular.net
@danielmarbach

bob.langley@particular.net
@boblangley

Particular
Software

Thanks