

GraphQL and Microservices

Integration Strategies

Oliver Sturm • @olivers • oliver@oliversturm.com



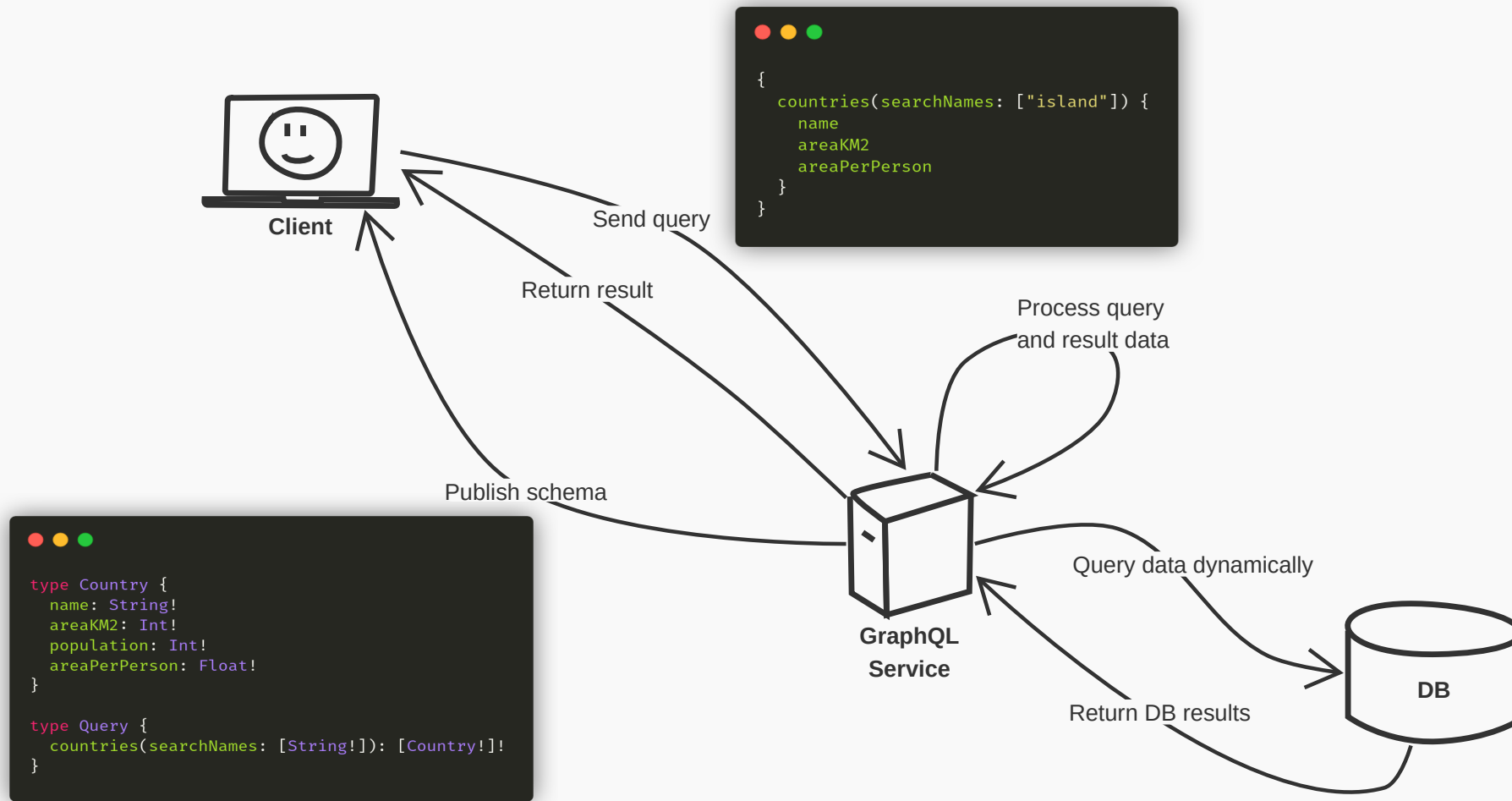
Oliver Sturm

- Training Director at DevExpress
- Consultant, trainer, author, software architect and developer for over 25 years
- Contact: oliver@oliversturm.com

Agenda

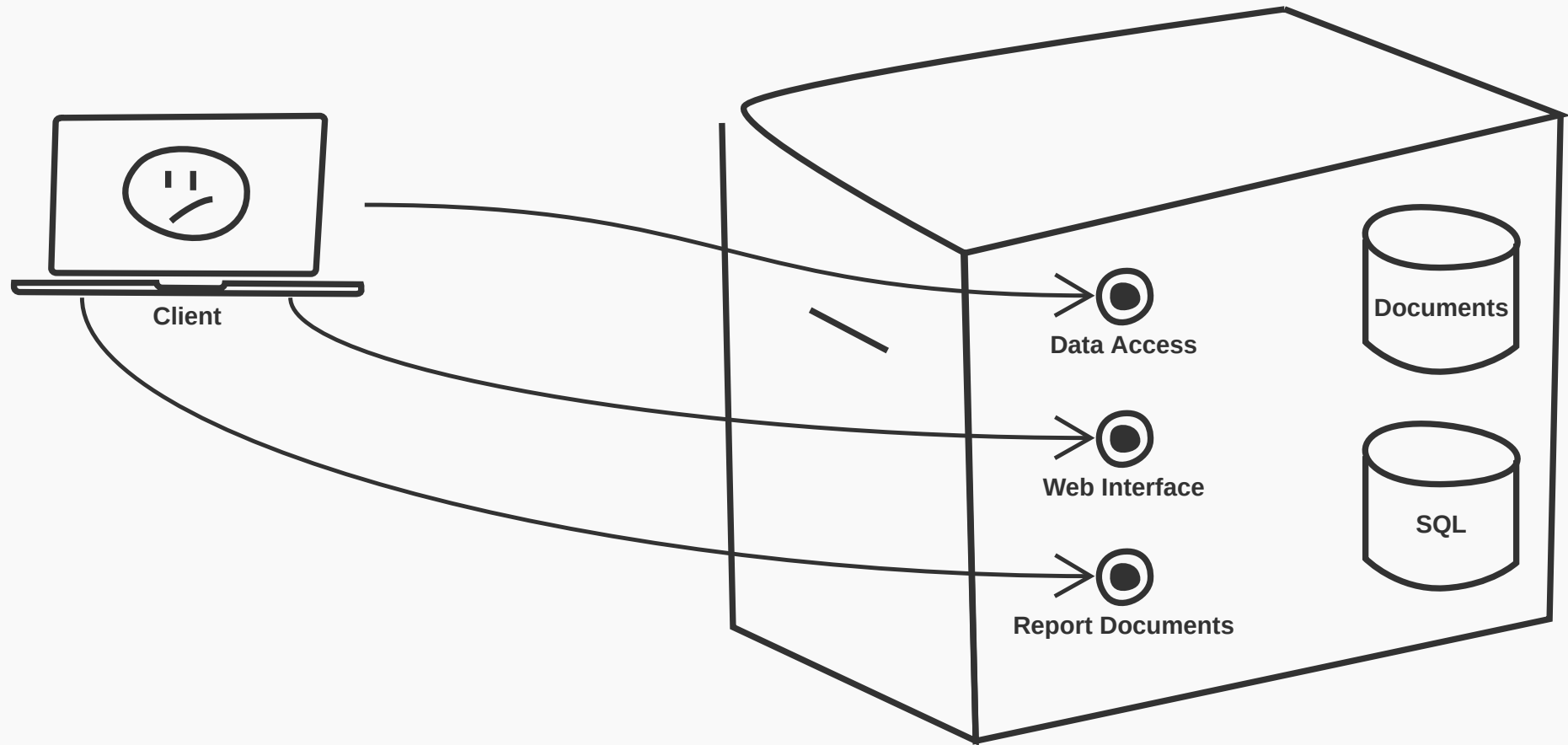
- Leveling the playing field -- what's GraphQL anyway?
- The difficulty of interacting with service architectures
- Solution proposals

GraphQL



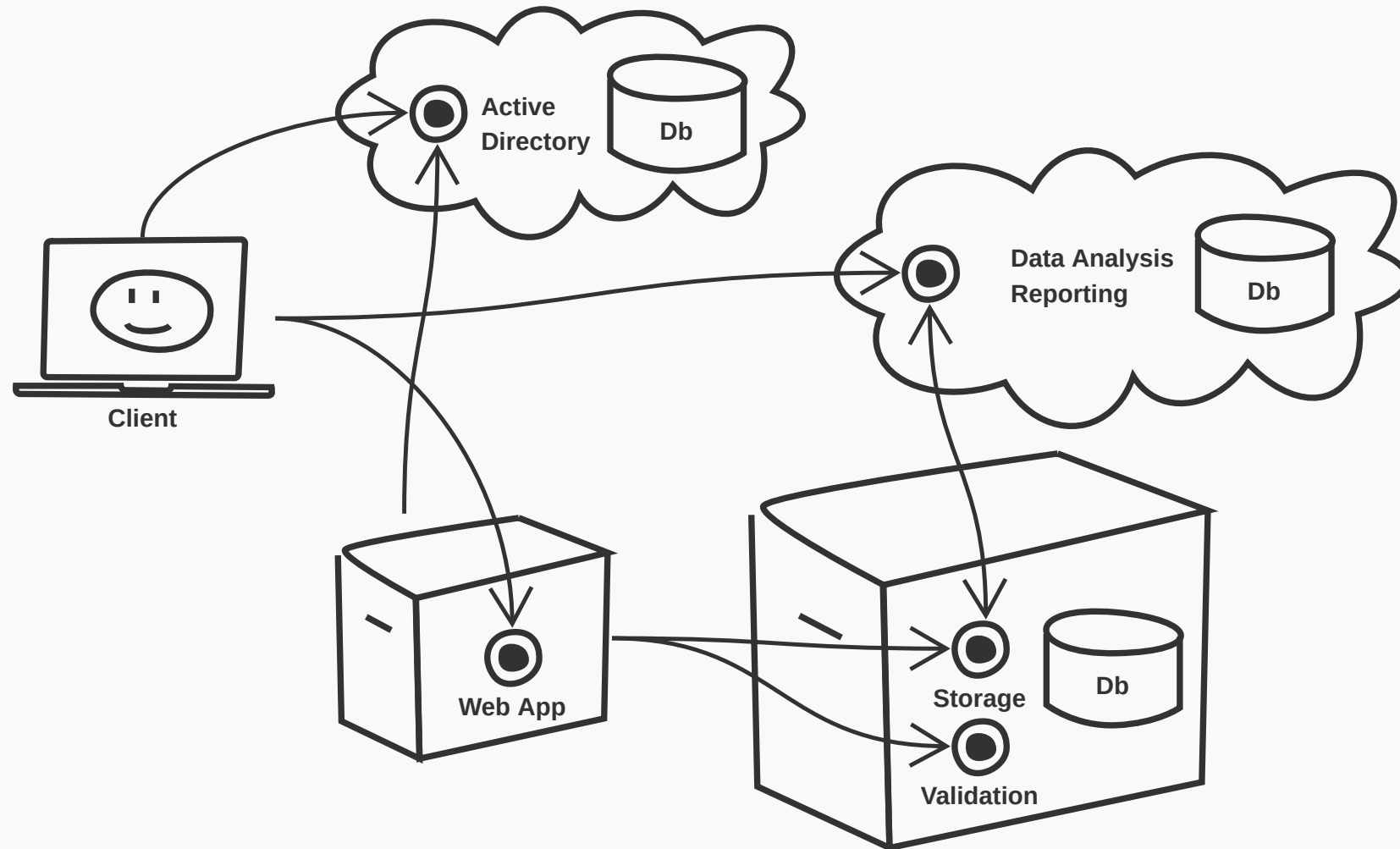
DEMO

Basic Service Structure

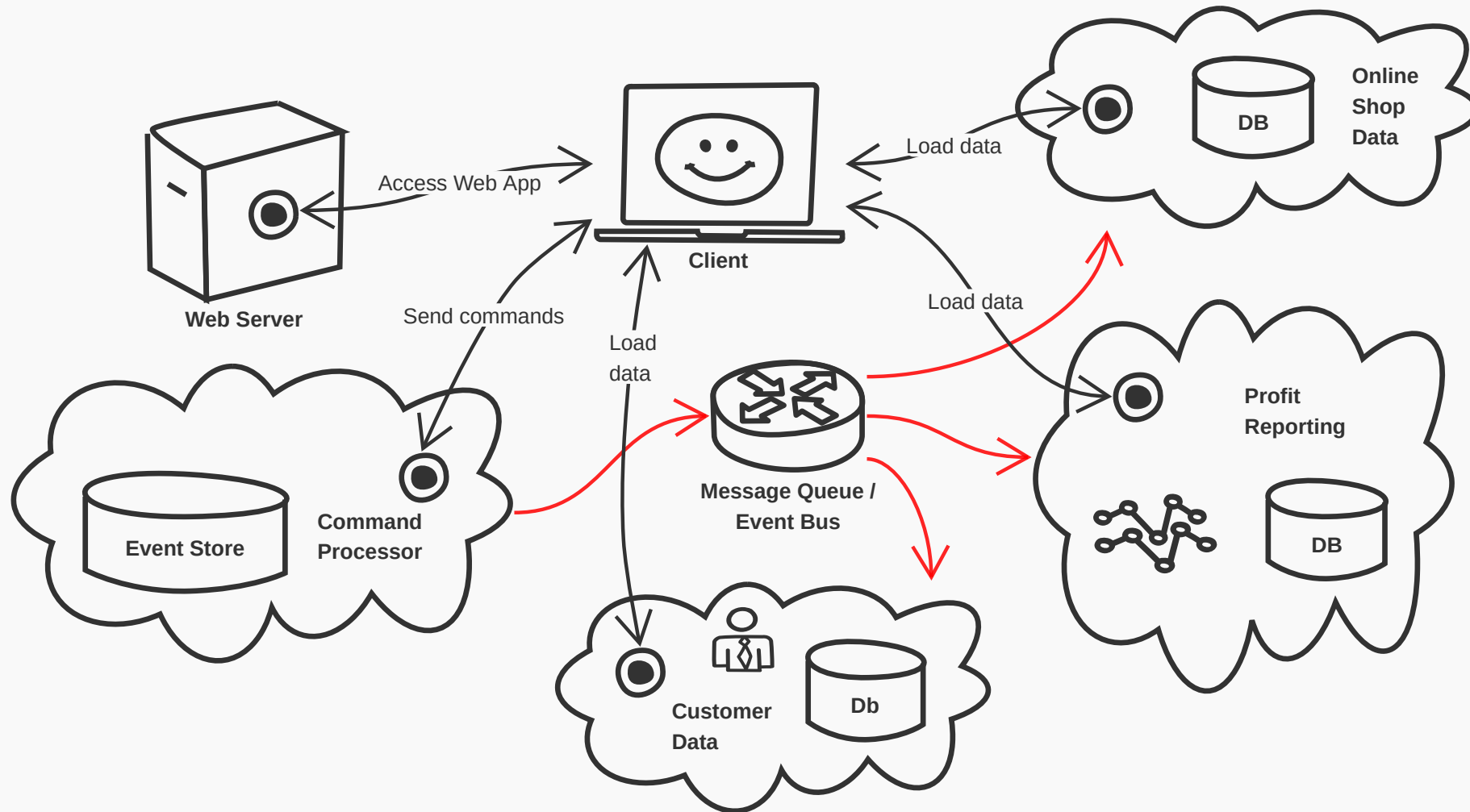


The Mighty Server

Microservices Structure



CQRS/ES Structure



GraphQL Integration In Service Architectures

There are two integration options.

1. Provide an extra read model endpoint that understands GraphQL queries

GraphQL Integration In Service Architectures

There are two integration options.

1. Provide an extra read model endpoint that understands GraphQL queries

Of course it is possible to create a special read model for this purpose, instead of using an existing one

GraphQL Integration In Service Architectures

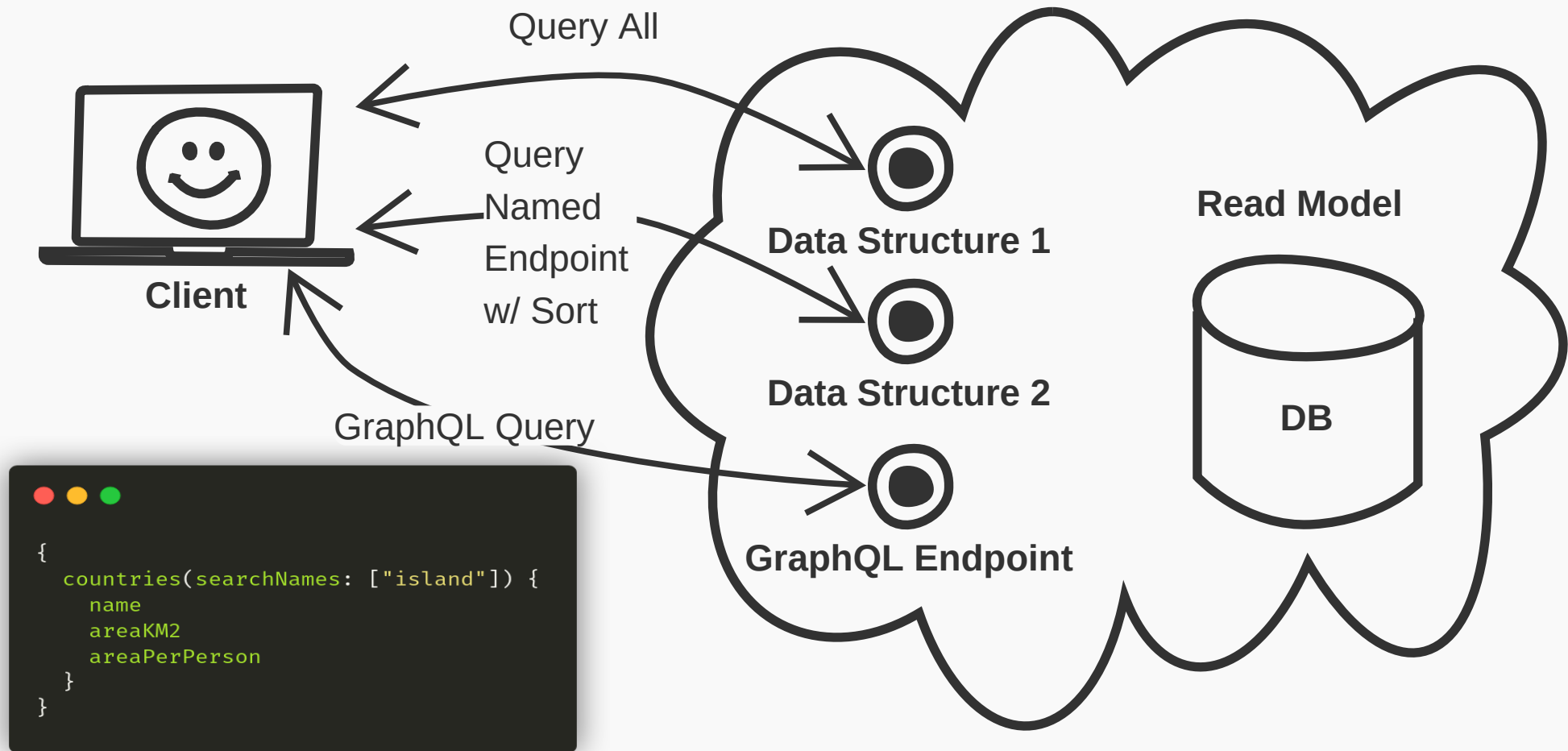
There are two integration options.

1. Provide an extra read model endpoint that understands GraphQL queries

Of course it is possible to create a special read model for this purpose, instead of using an existing one

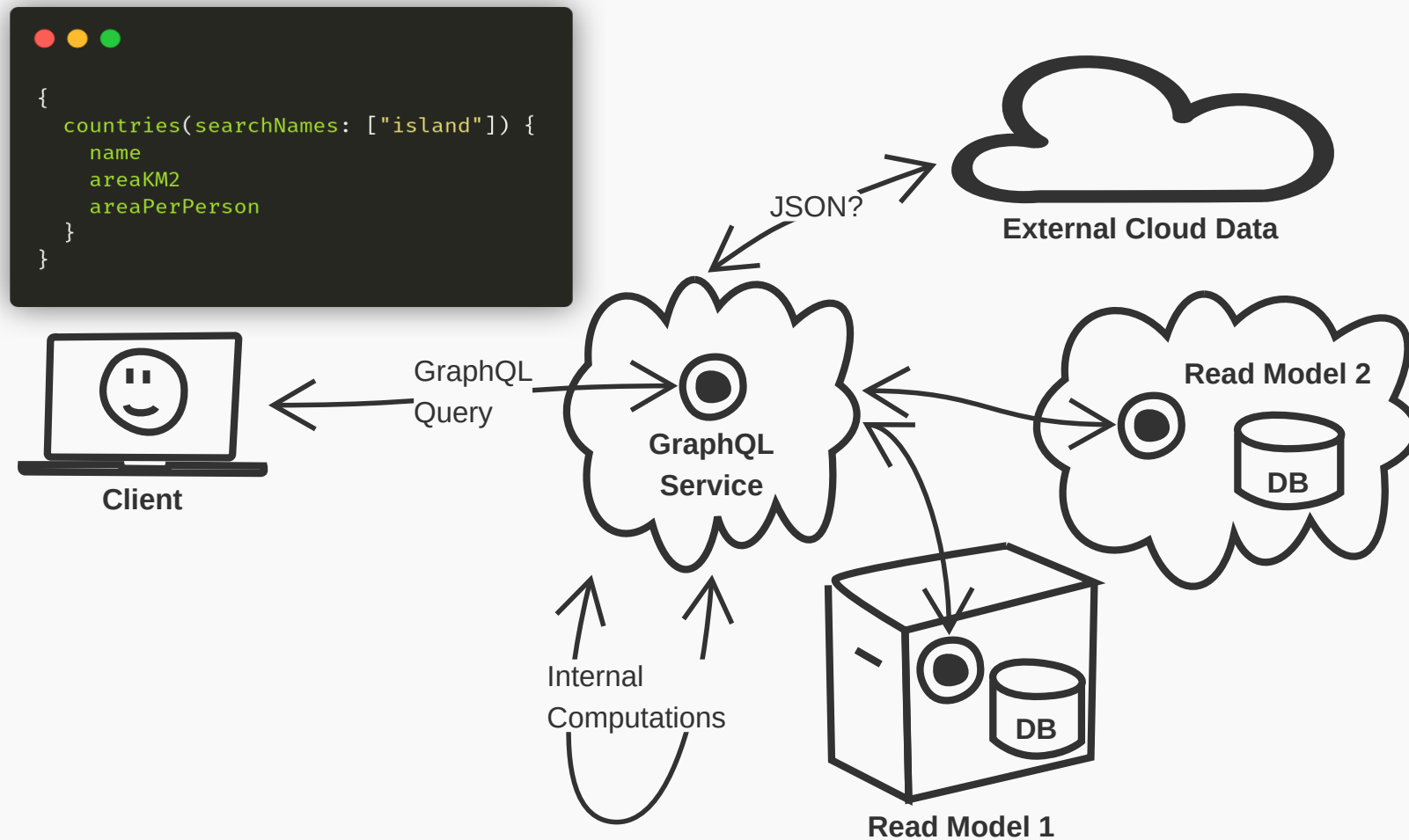
2. Create an accumulation service for dynamic GraphQL queries

GraphQL Endpoint In The Read Model



DEMO

Proxy/Facade/Mash GraphQL Service



DEMO

Sources

- This presentation:
 - <https://oliversturm.github.io/graphql-and-microservices>
 - PDF download:
<https://oliversturm.github.io/graphql-and-microservices/slides.pdf>
- Source code: <https://github.com/oliversturm/graphql-and-microservices>

Thank You

Please feel free to contact me about the content anytime.

Oliver Sturm • @olivers • oliver@oliversturm.com

