

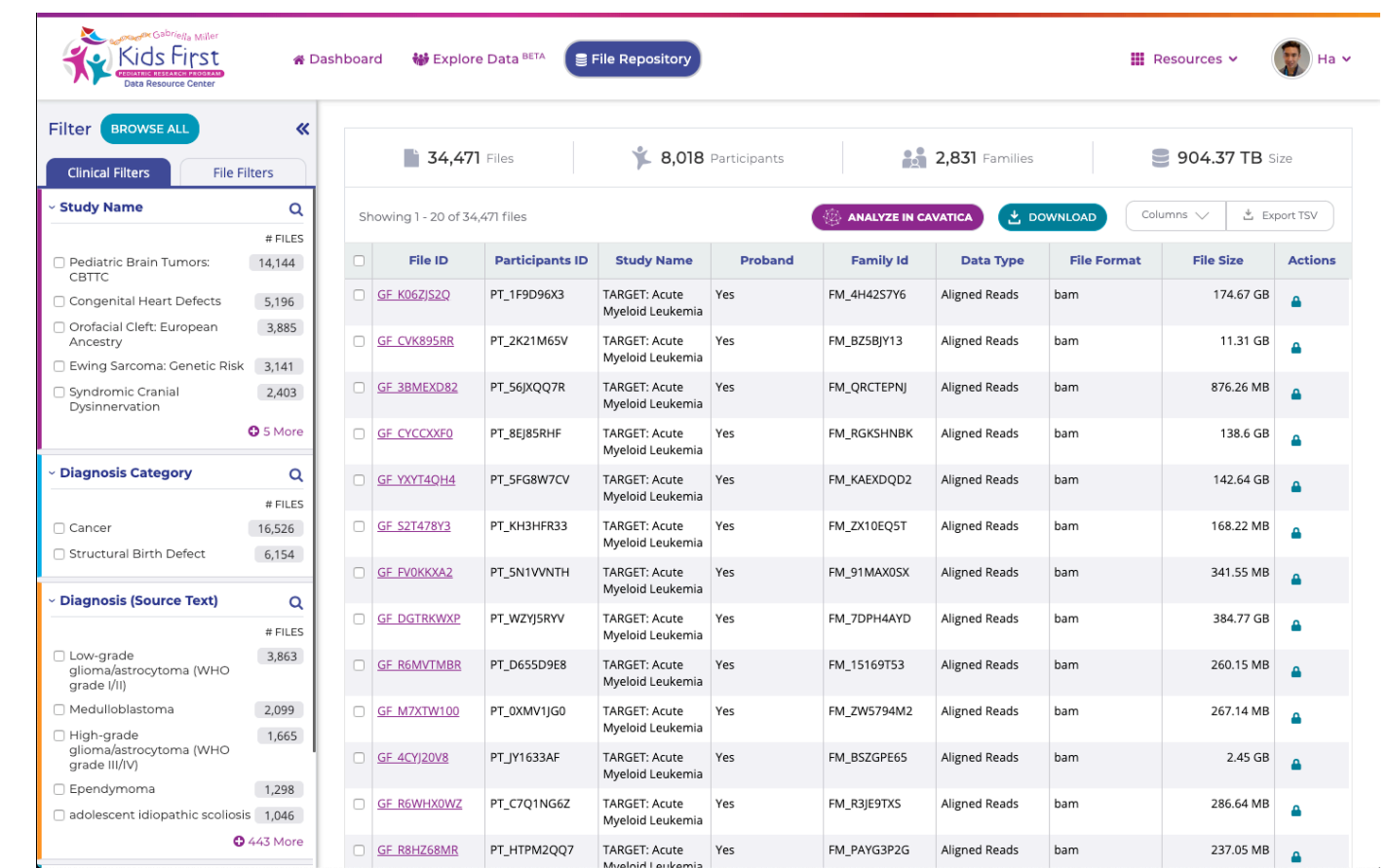
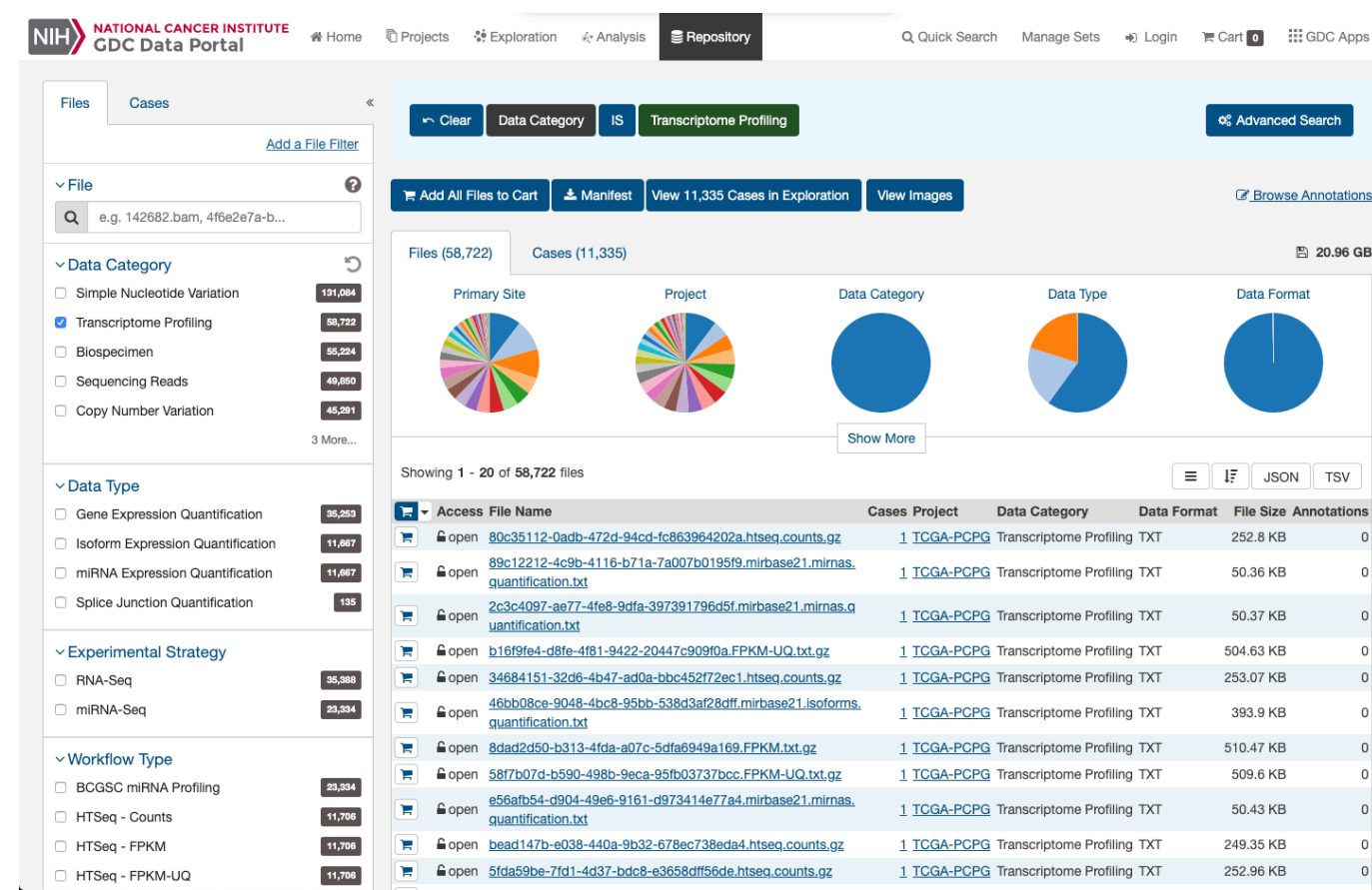
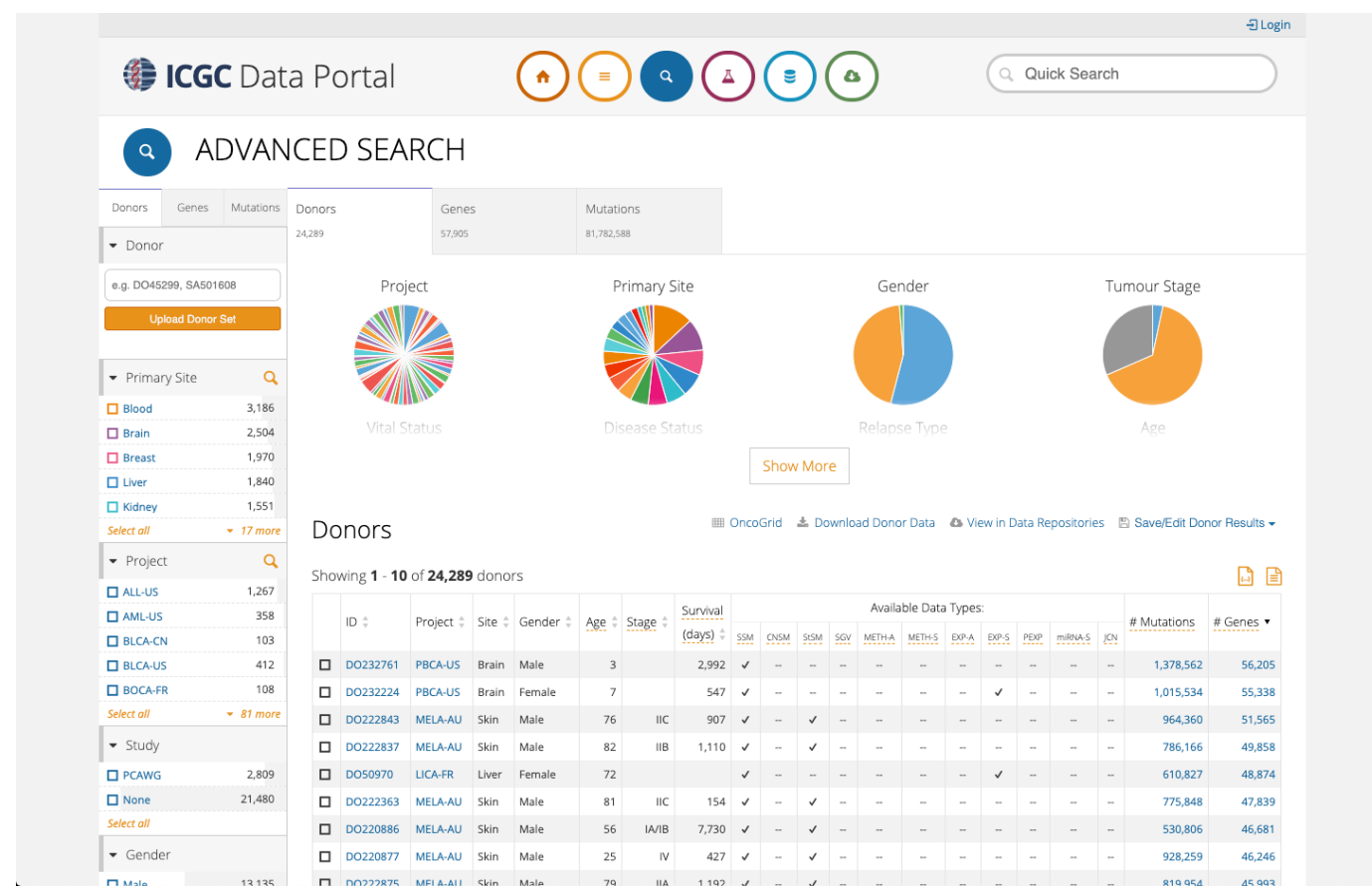
# Conquering Micro-services

with  GraphQL

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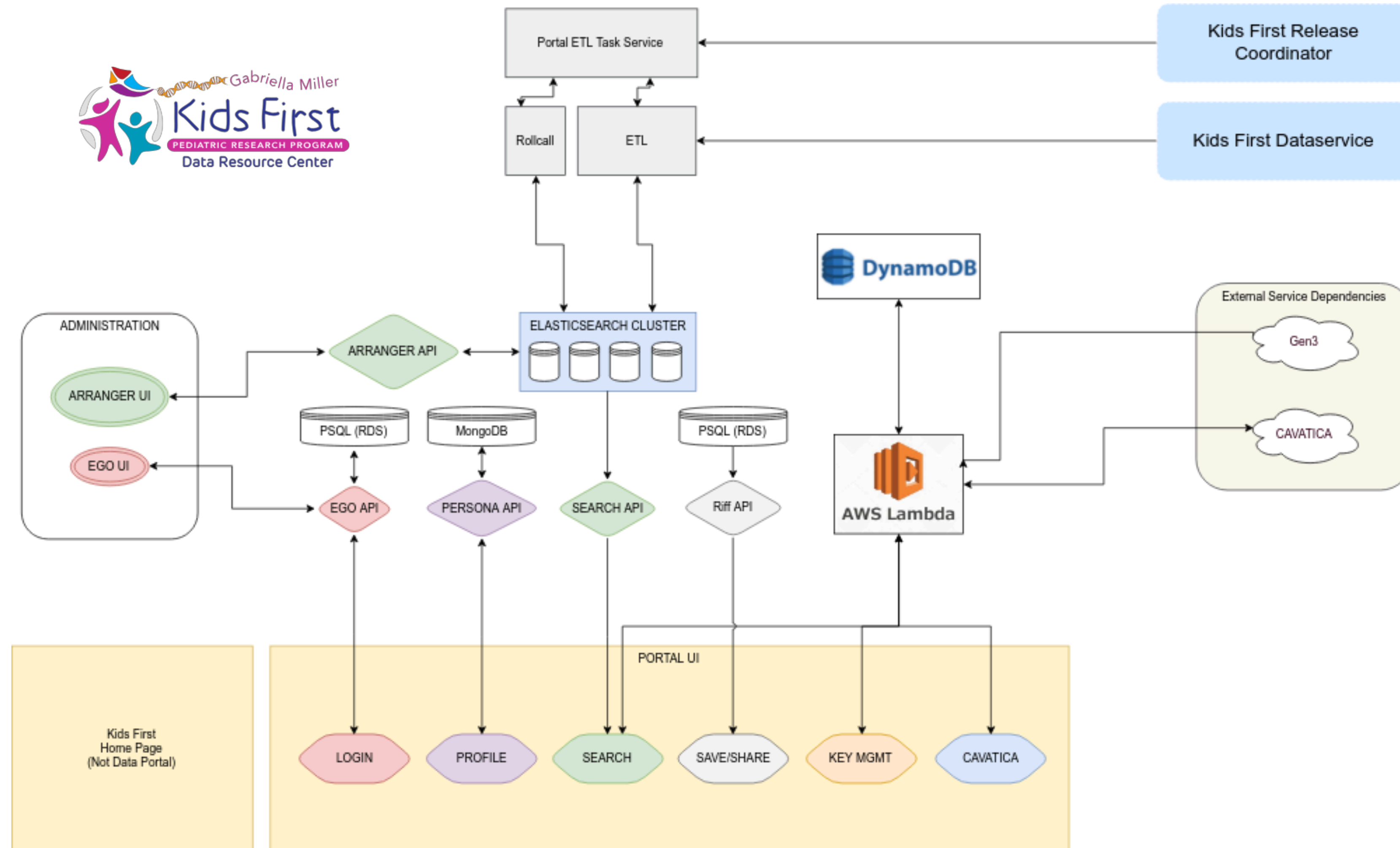
Our plan for  ARGO

# from softeng with

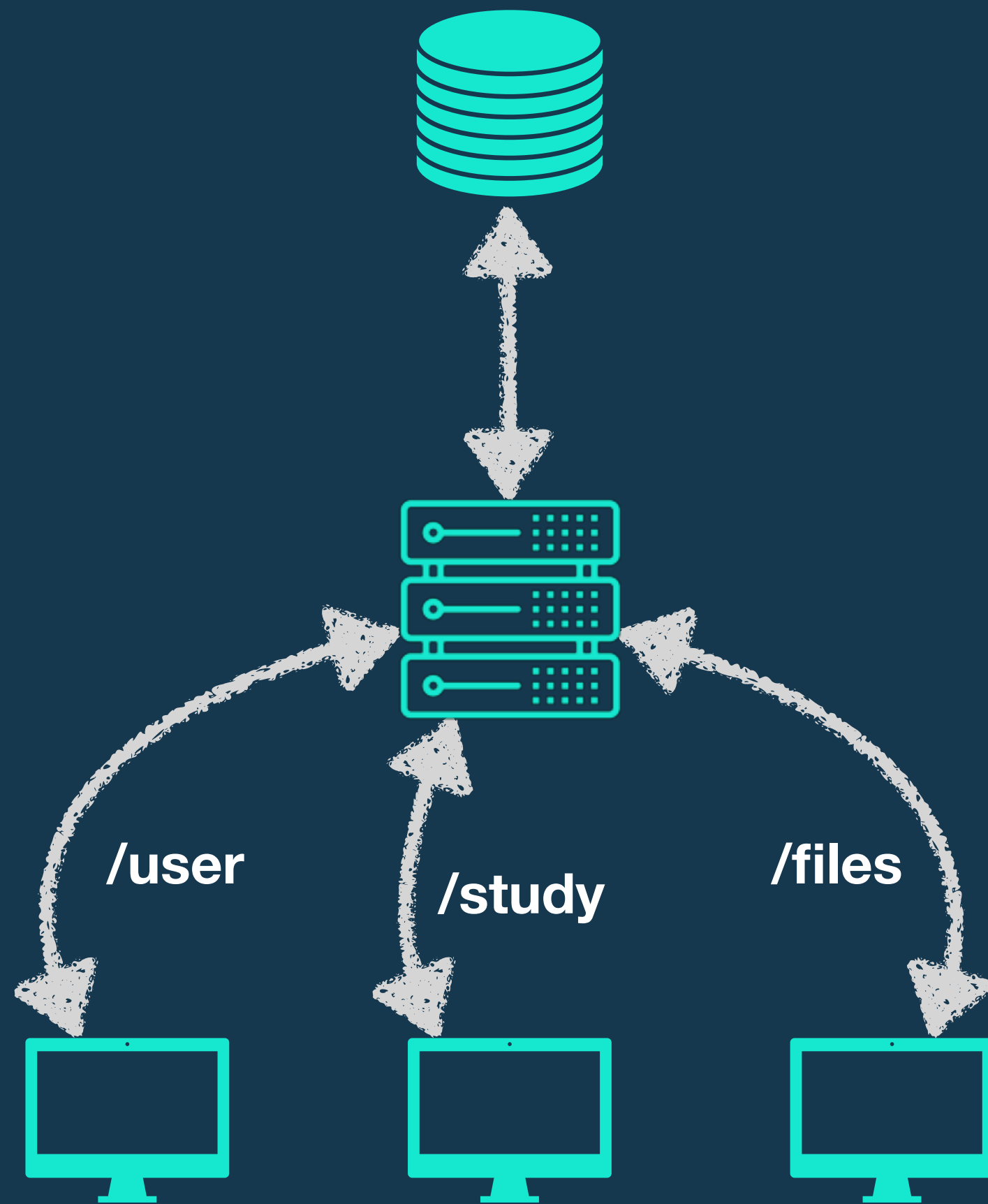


## and more...

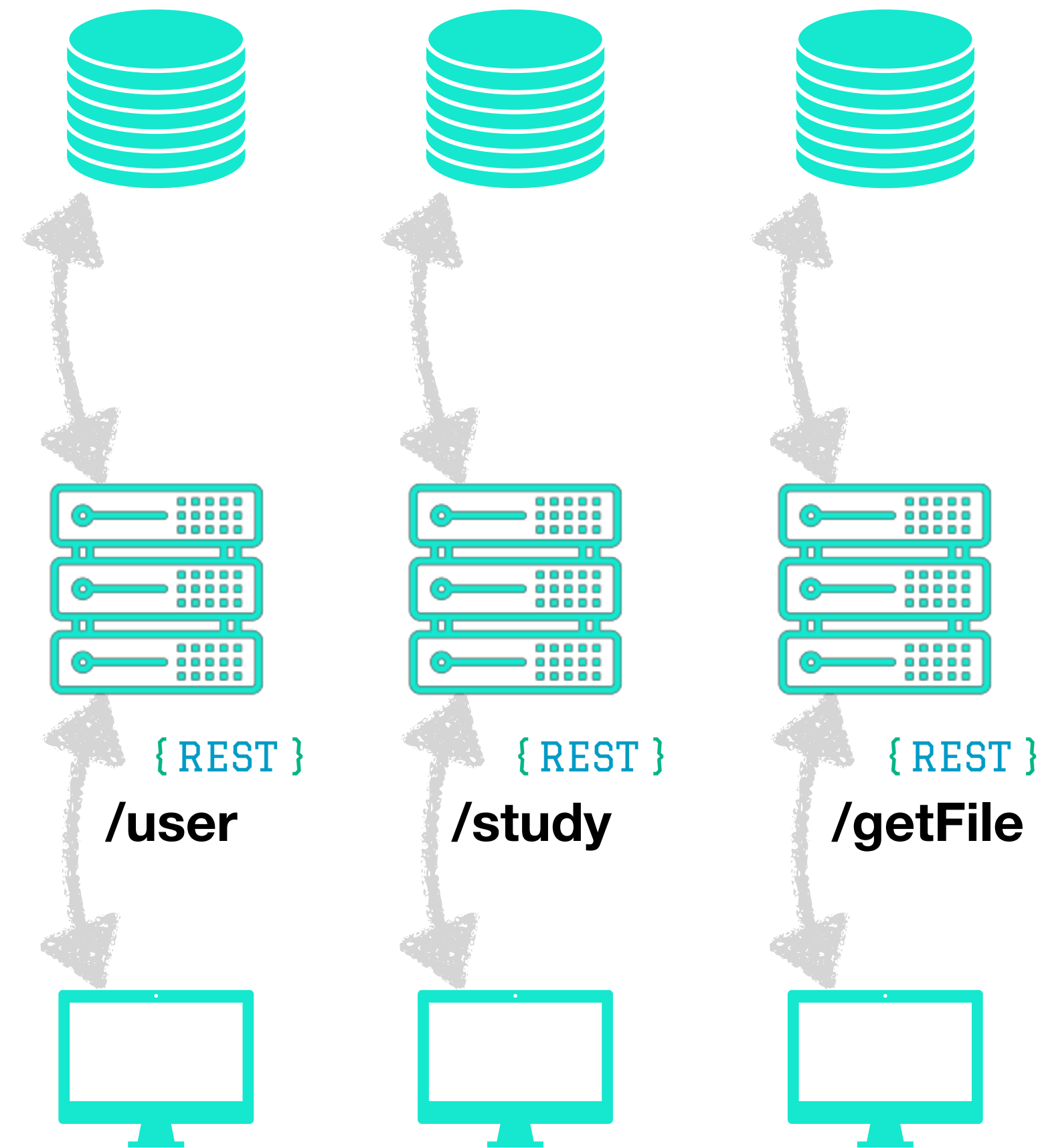
# Behind the scene



# Monolithic System



# Micro-...what?

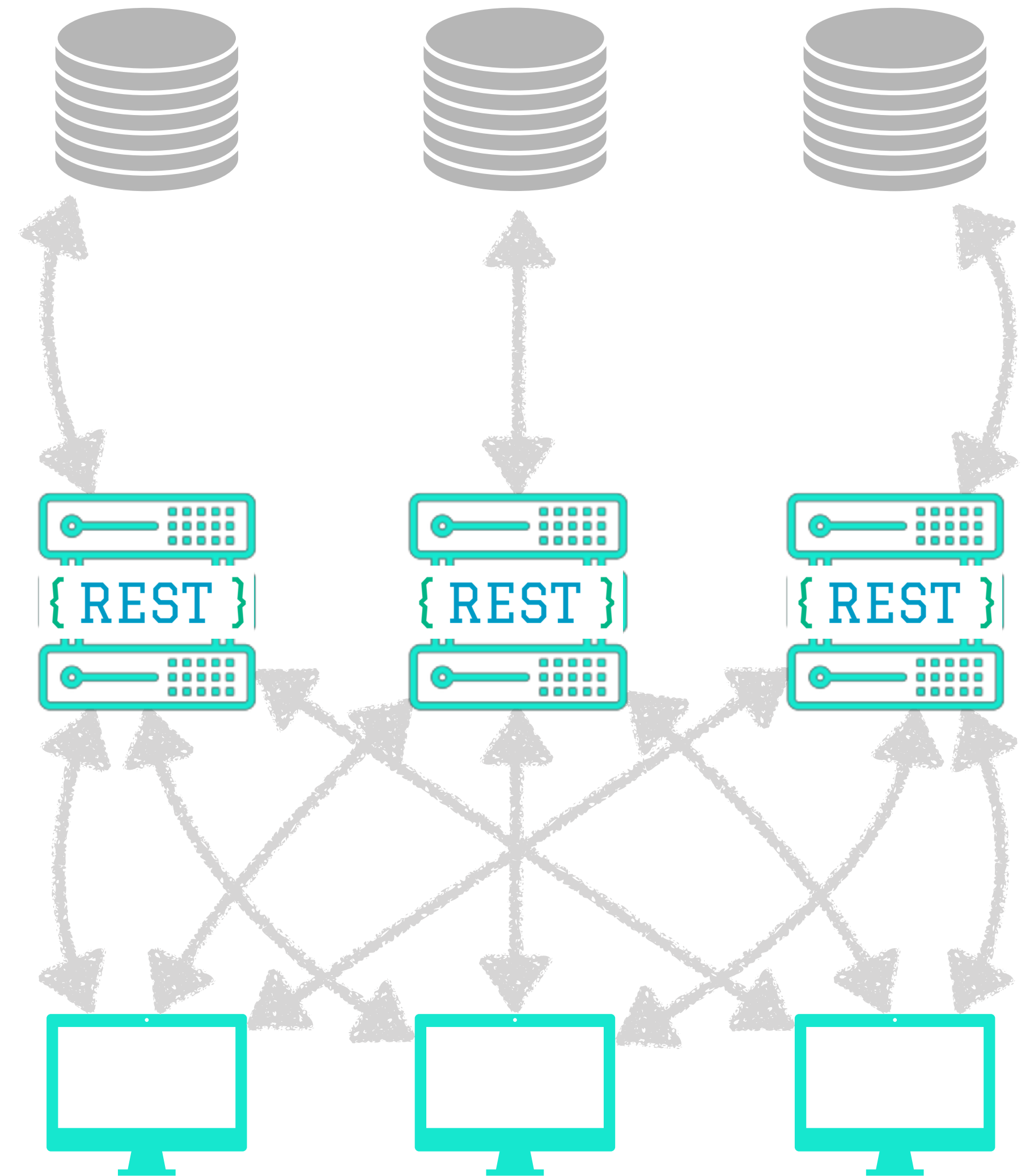


## Micro-services System

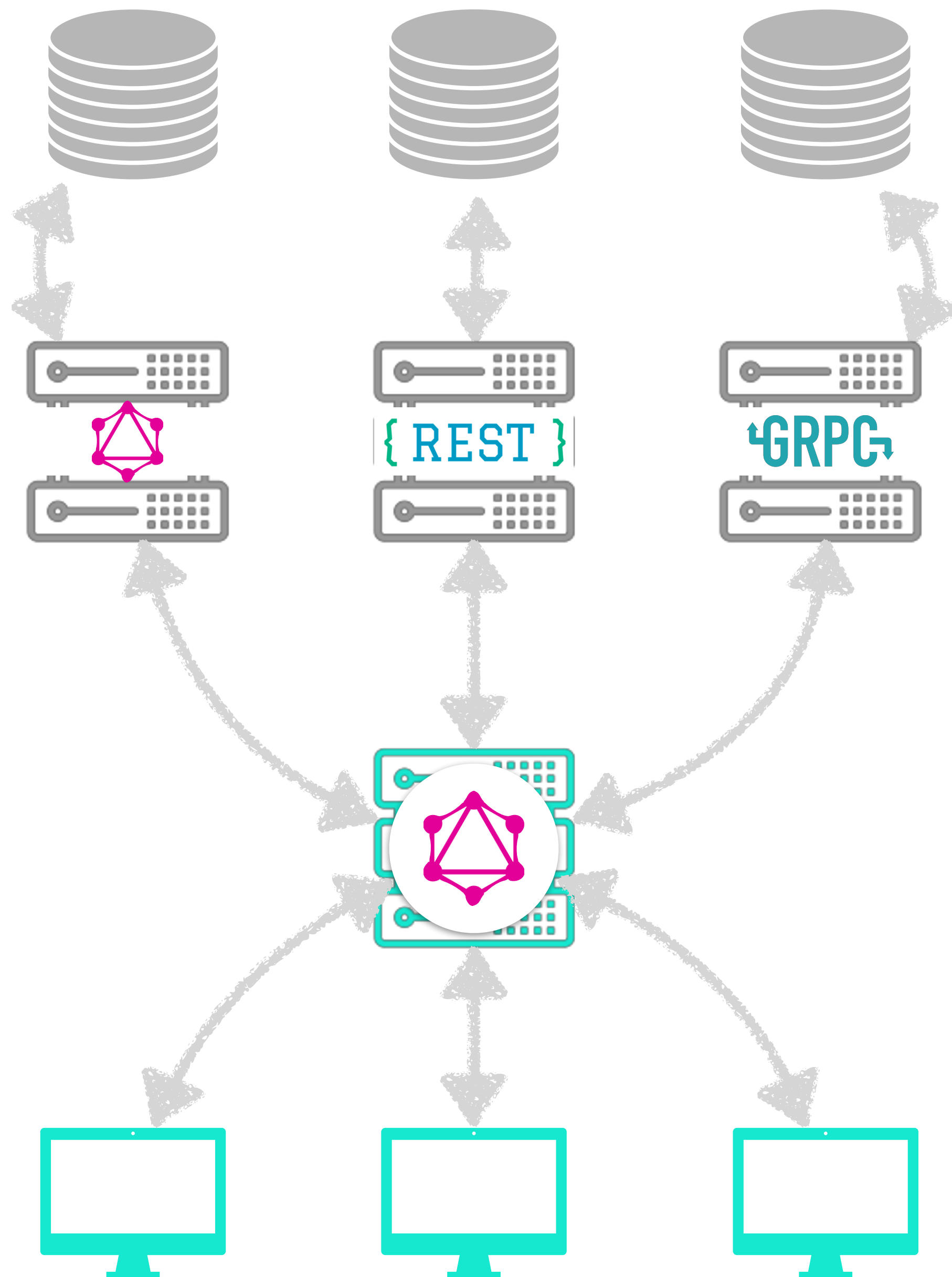
- Functionally decoupled
- Independently deployable
- Independently scalable

# Some challenge

- No place to handle cross-cutting concerns
- Front-end handles heavy business logic
- Inefficiencies with **REST**:
  - Over & under-fetching
  - Lack of API schema -> manual documentation





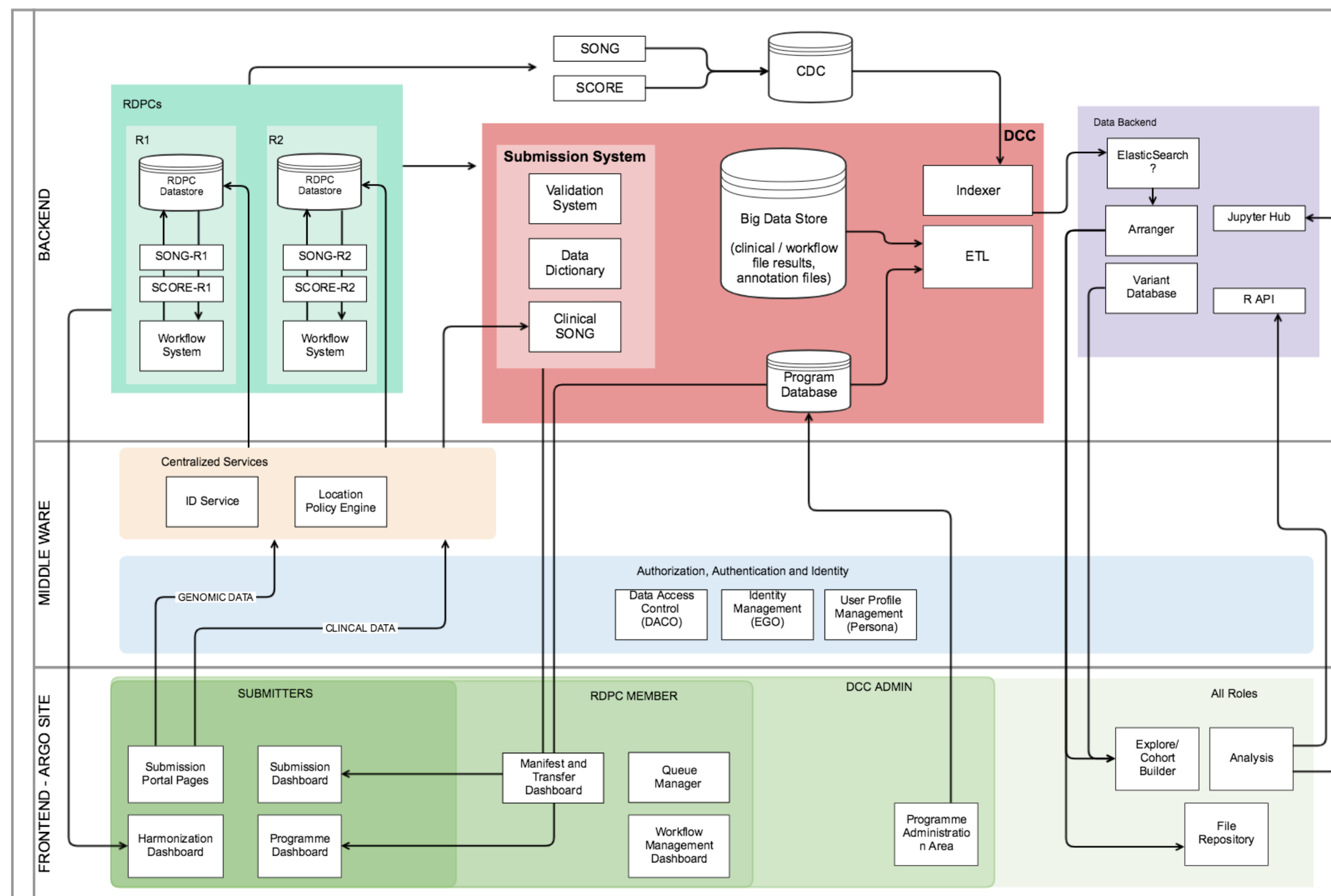


# The GraphQL Solution

- An **aggregation layer** to handle cross-cutting concern
- **Why GraphQL?**
  - Explorable schema —> self-documenting
- **Schema Stitching:**
  - Modelling underlying services as an independent schemas
  - “Stitch” the schemas together as nodes in a graph
  - Network advantage: batched request



# BRACE YOURSELF



# ARGO IS COMING

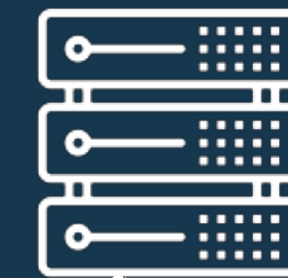




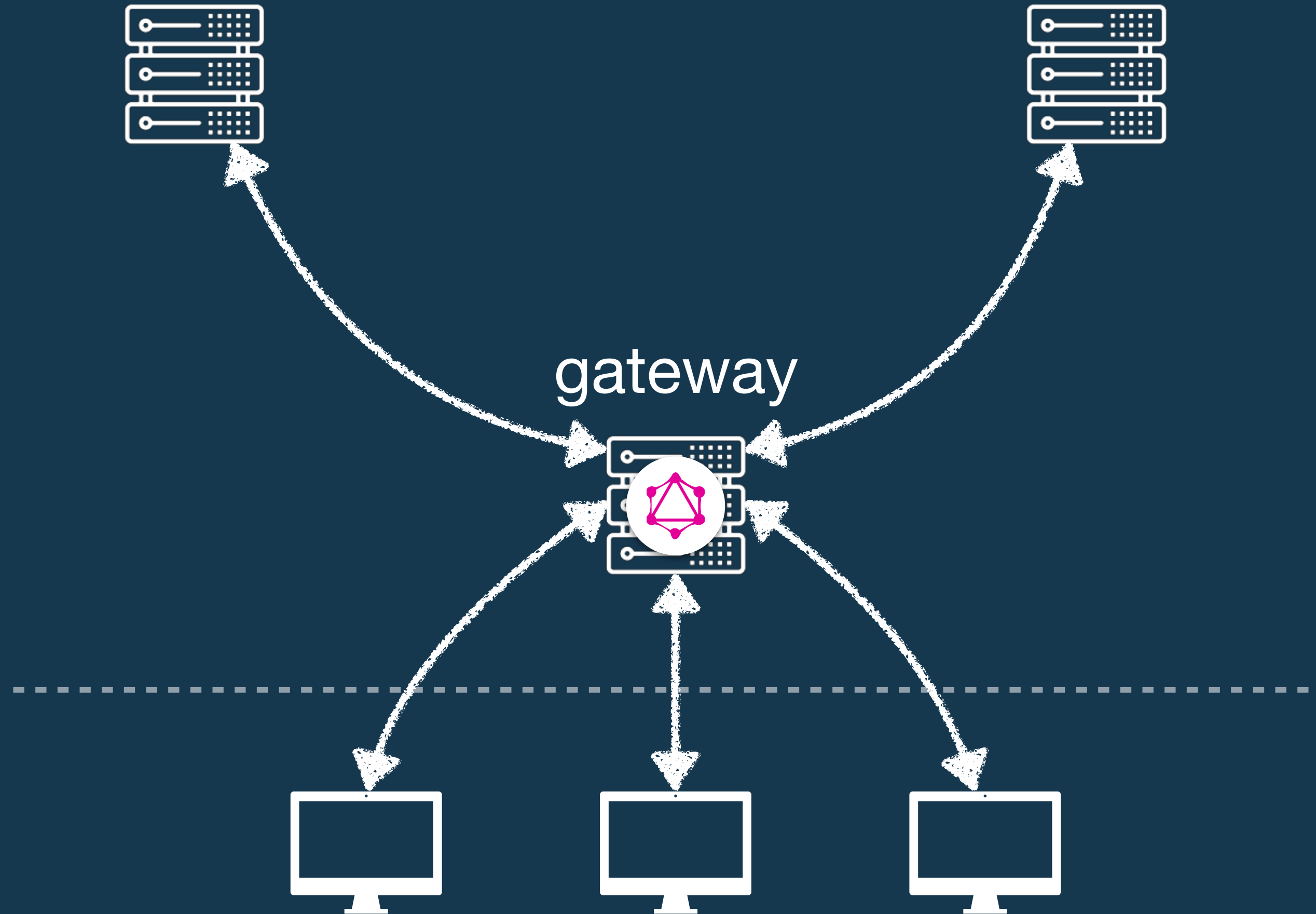
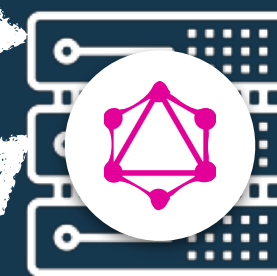
# demo

user service

program service



gateway





# The wins

- Explorability:
  - Better developer on-boarding
  - Collaboration with non-technical team members
- Central place for integration test —> higher quality software
- Network performance

**thank you**