

Robots Store Shop

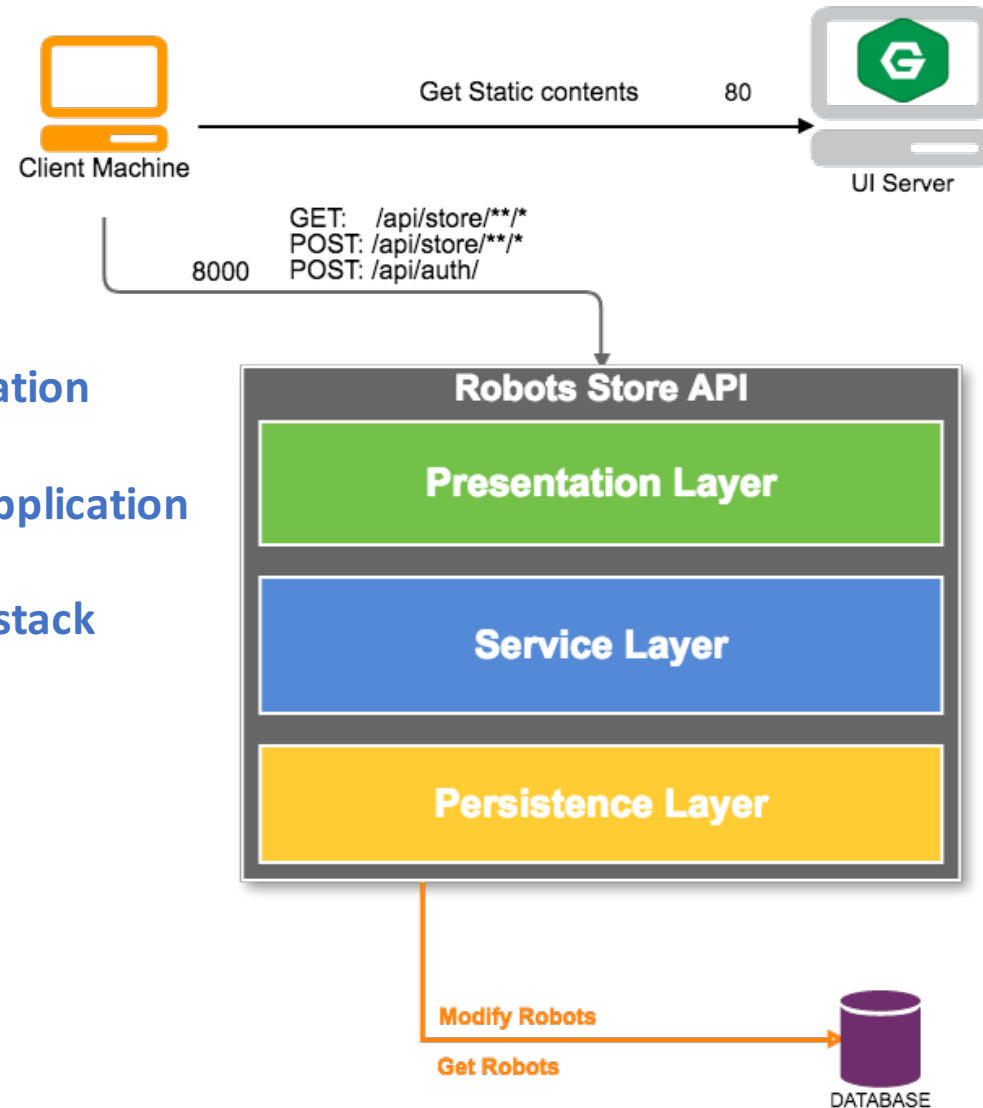
RBC – ACE Program

Hedi AYED 03-23-2018

Plan

- Monolithic application
 - Architecture
 - Cloud deployment
- Toward a Micro-services architecture
 - *Single responsibility principle*
 - *API Gateway*
 - *CQRS*
 - *Service registry*
 - *Docker*
 - *Ribbon*

Monolithic application architecture




- Multi-layer WEB application
- Dedicated static WEB application
- Angular / Java / Spring stack




Monolithic application


Cloud deployment: Heroku

 **HEROKU**


Jump to Favorites, Apps, Pipelines, Spaces...

 Personal ▾

New ▾

 robotsstore-api

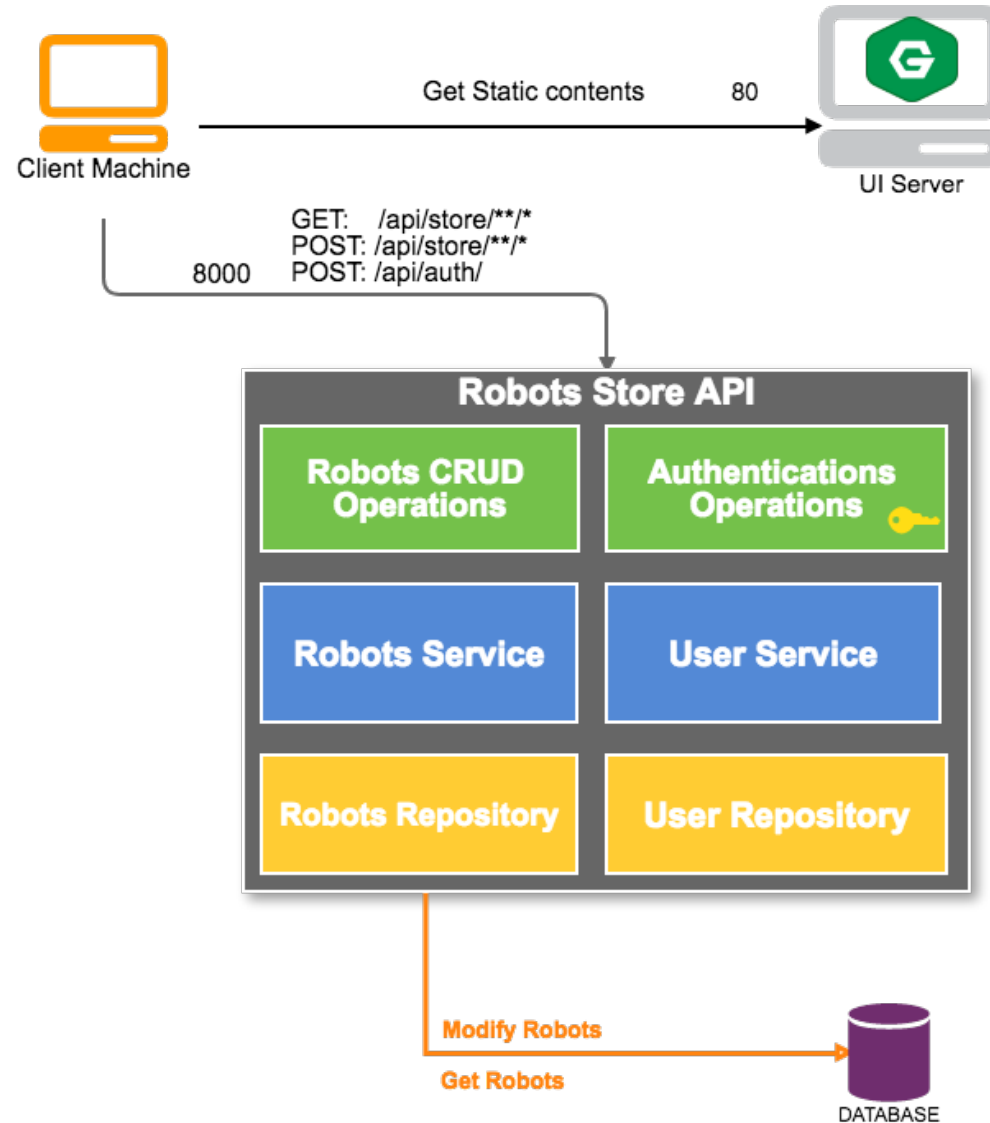
Java • heroku-16 • United States ★

 robotsstore-web

Node.js • heroku-16 • United States ★

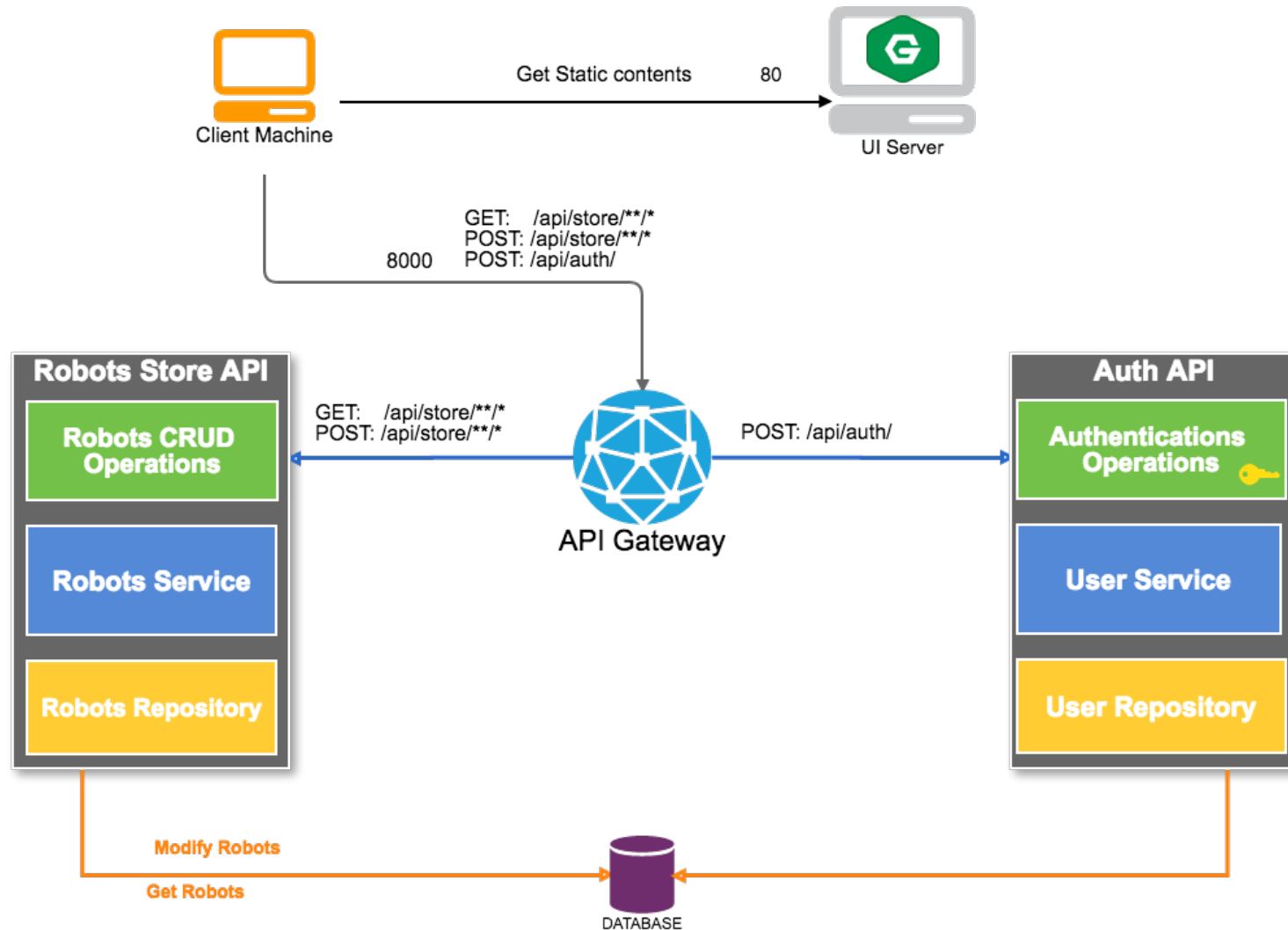
Toward a Micro-services architecture

Single responsibility principle



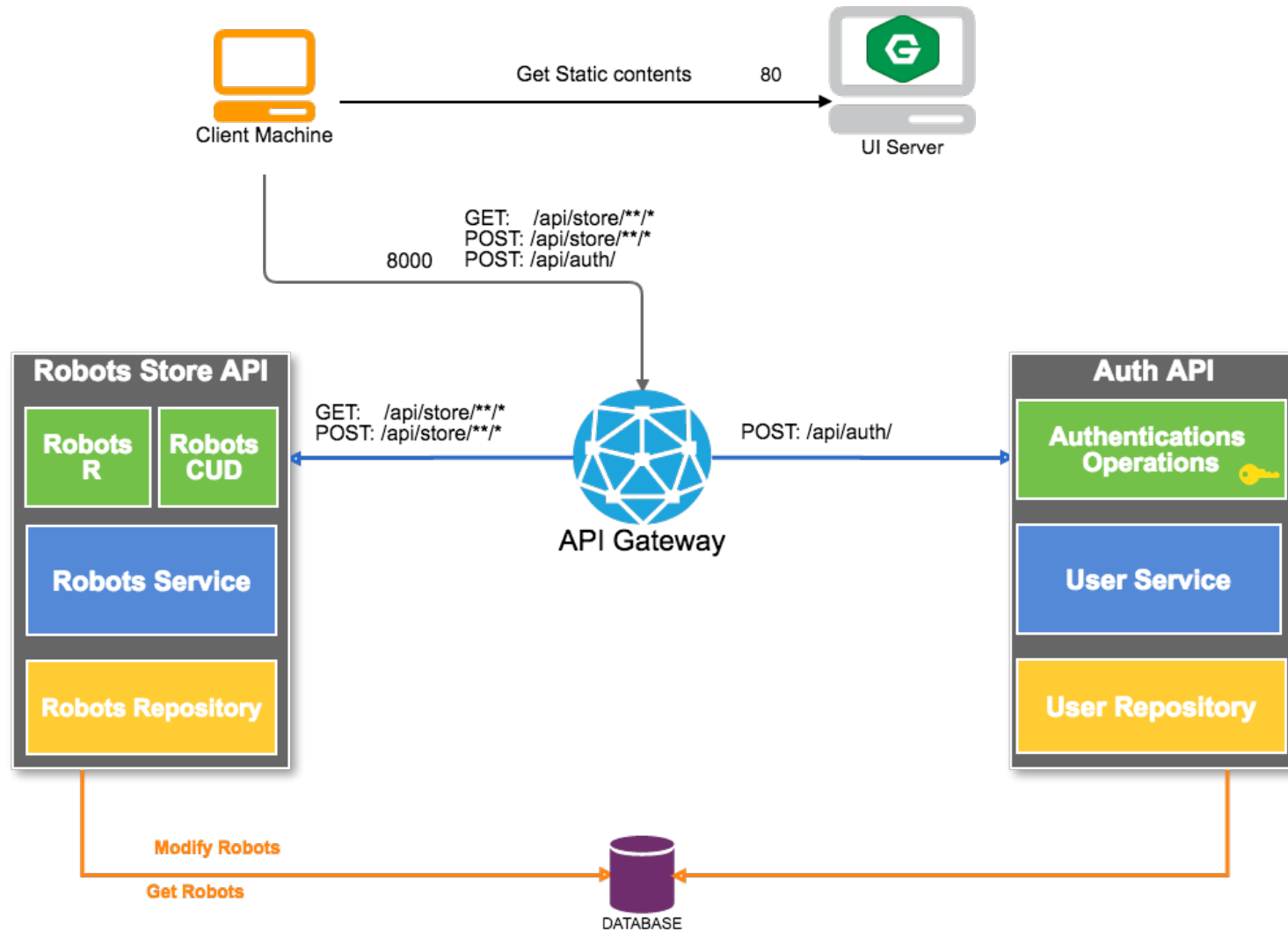
Toward a Micro-services architecture

API Gateway / Backend for Front-End



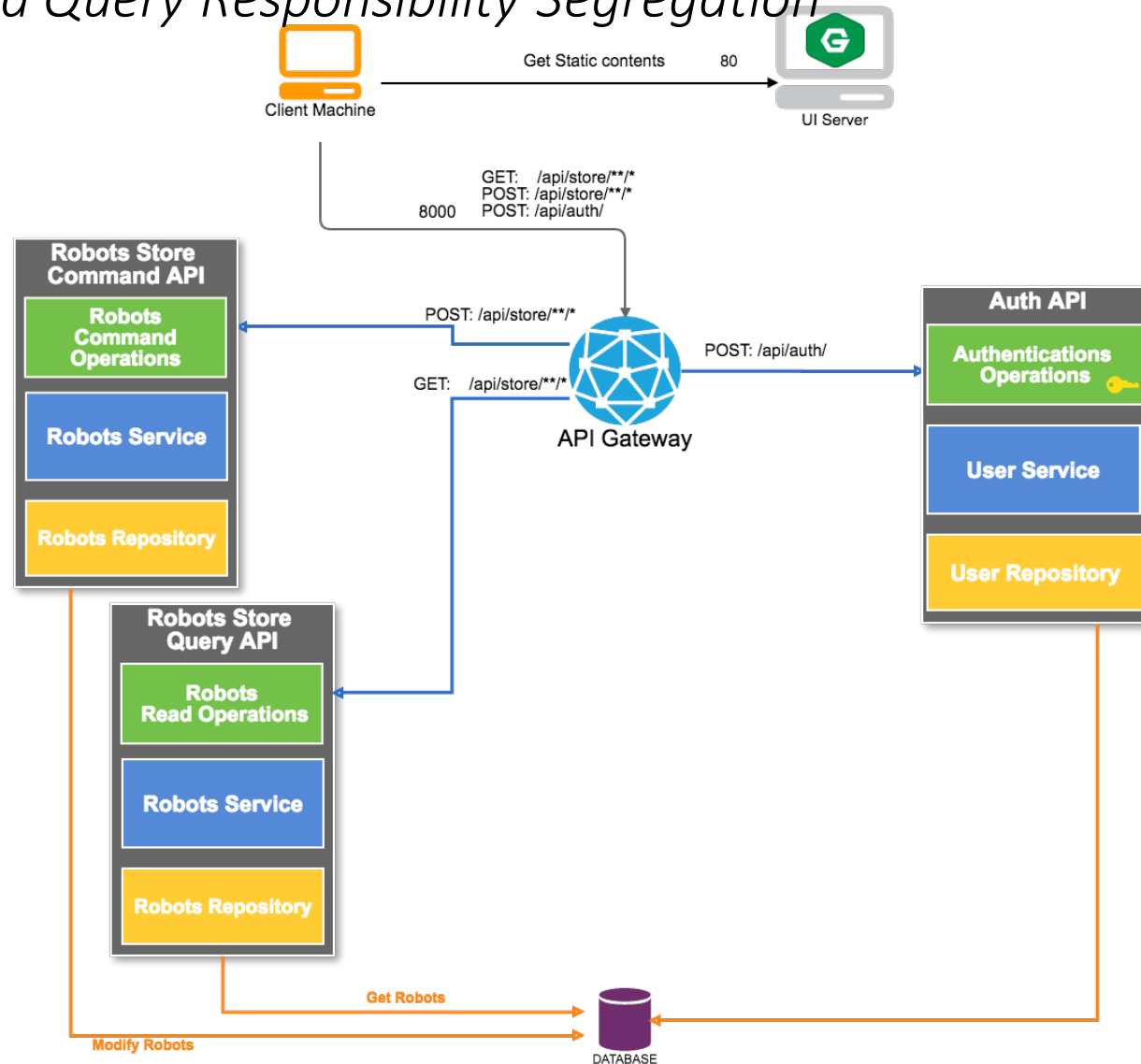
Toward a Micro-services architecture

CQRS: Command Query Responsibility Segregation



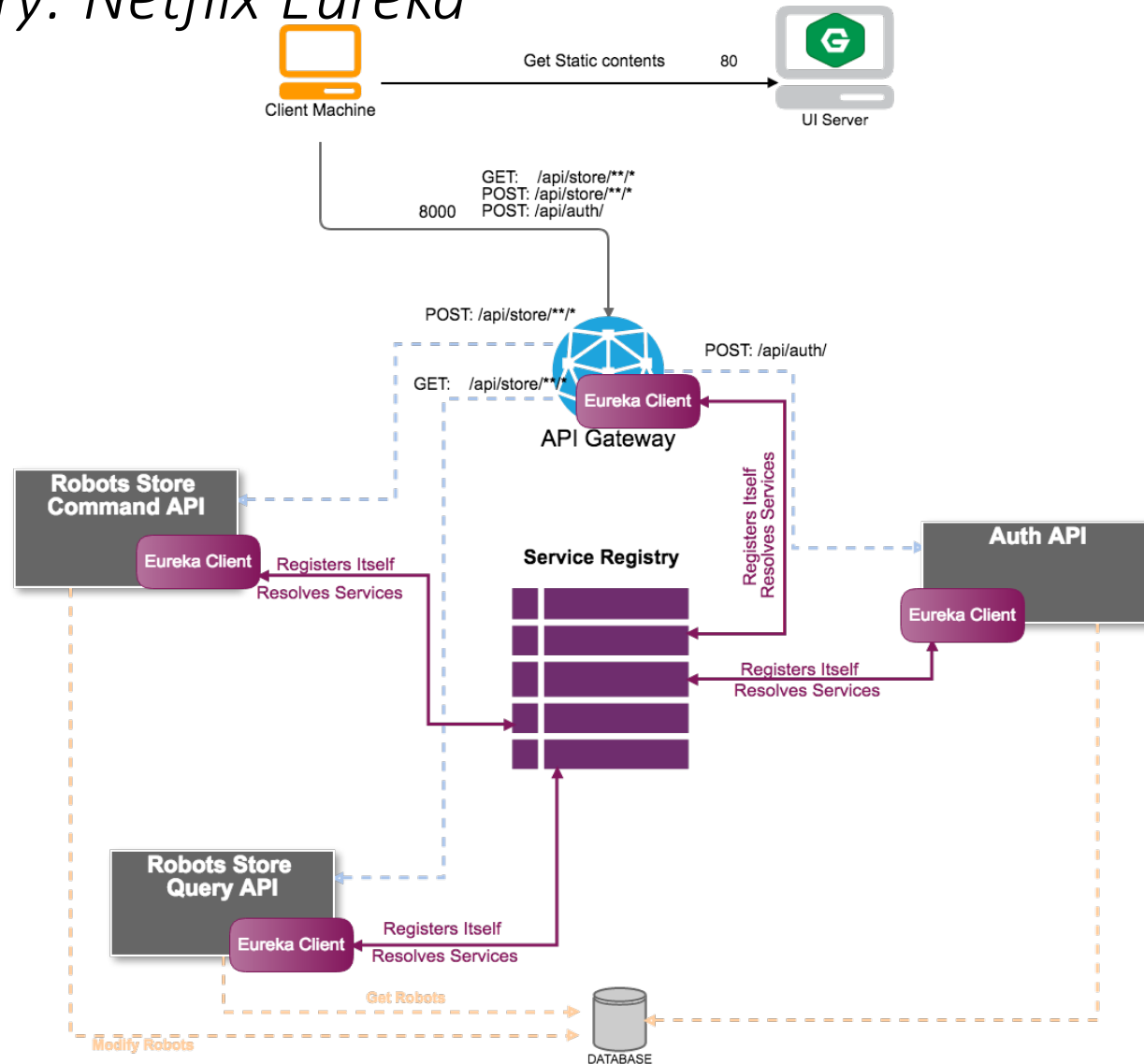
Toward a Micro-services architecture

CQRS: Command Query Responsibility Segregation

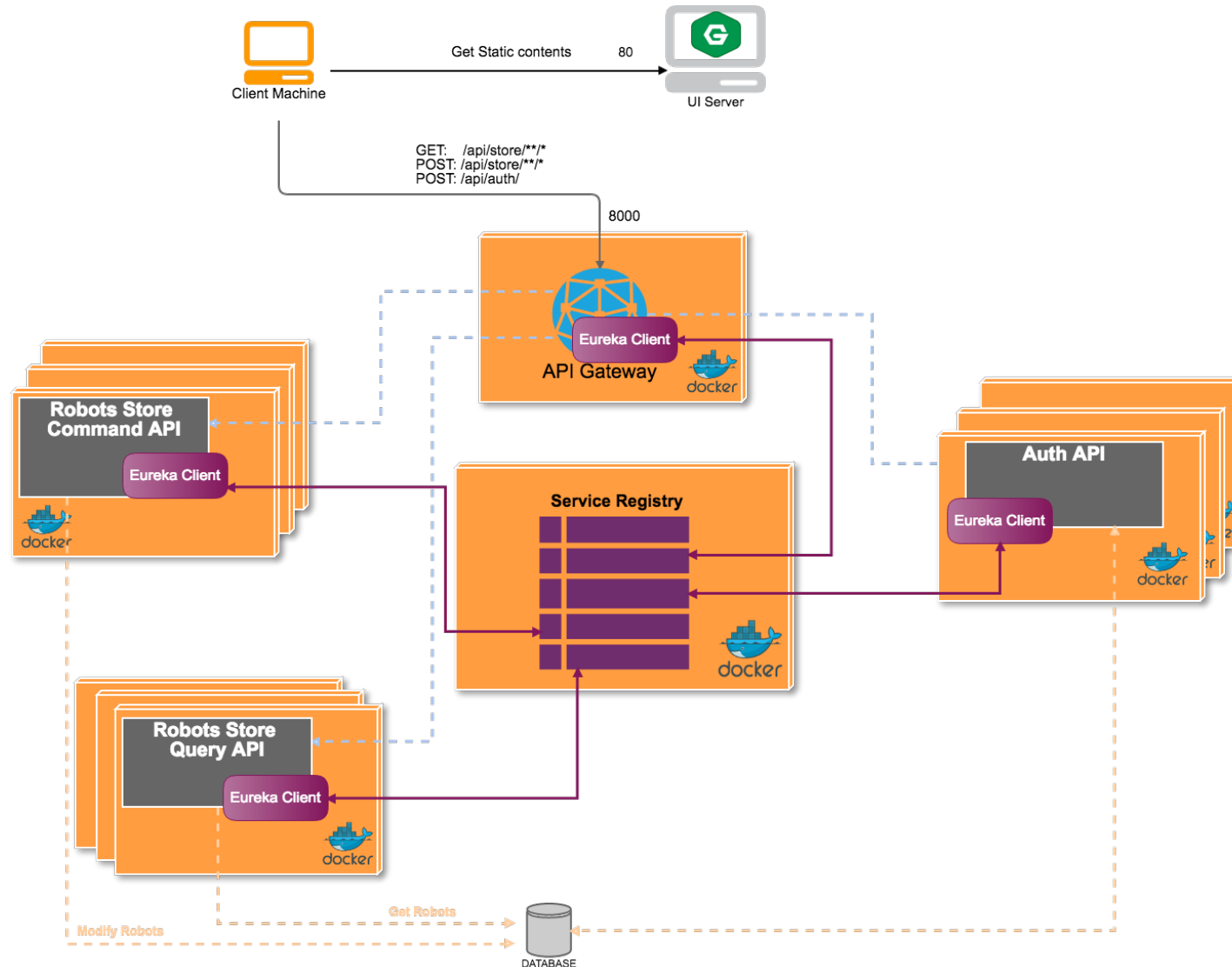
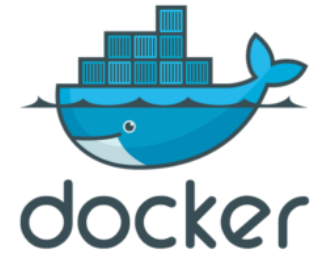


Toward a Micro-services architecture

Service registry: Netflix Eureka

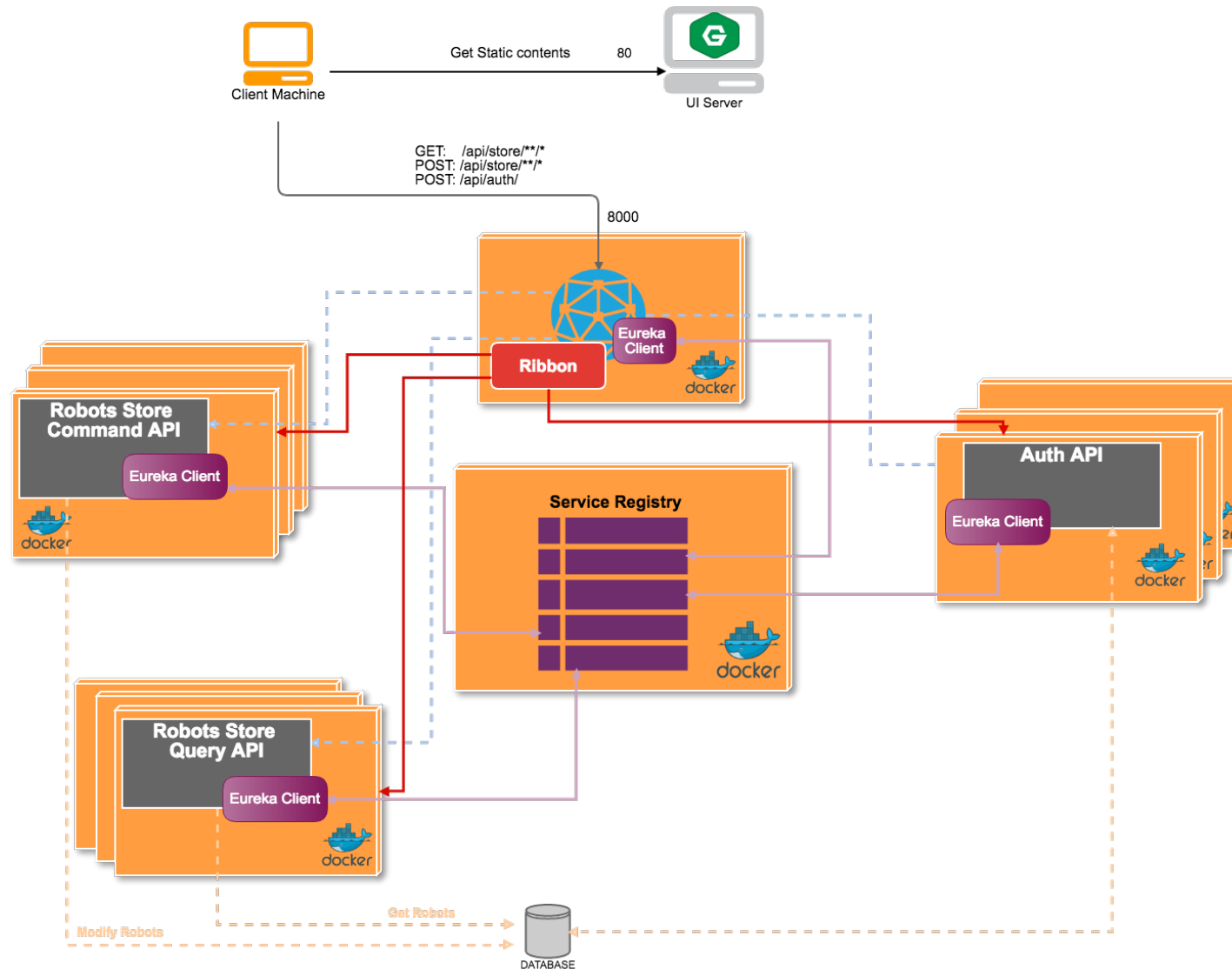


Let's "Dockerise It"



Load Balancing: Ribbon

NETFLIX | OSS



That's it

Thank you for your time and attention!