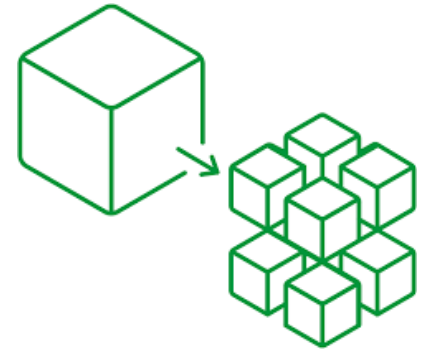




gRPC

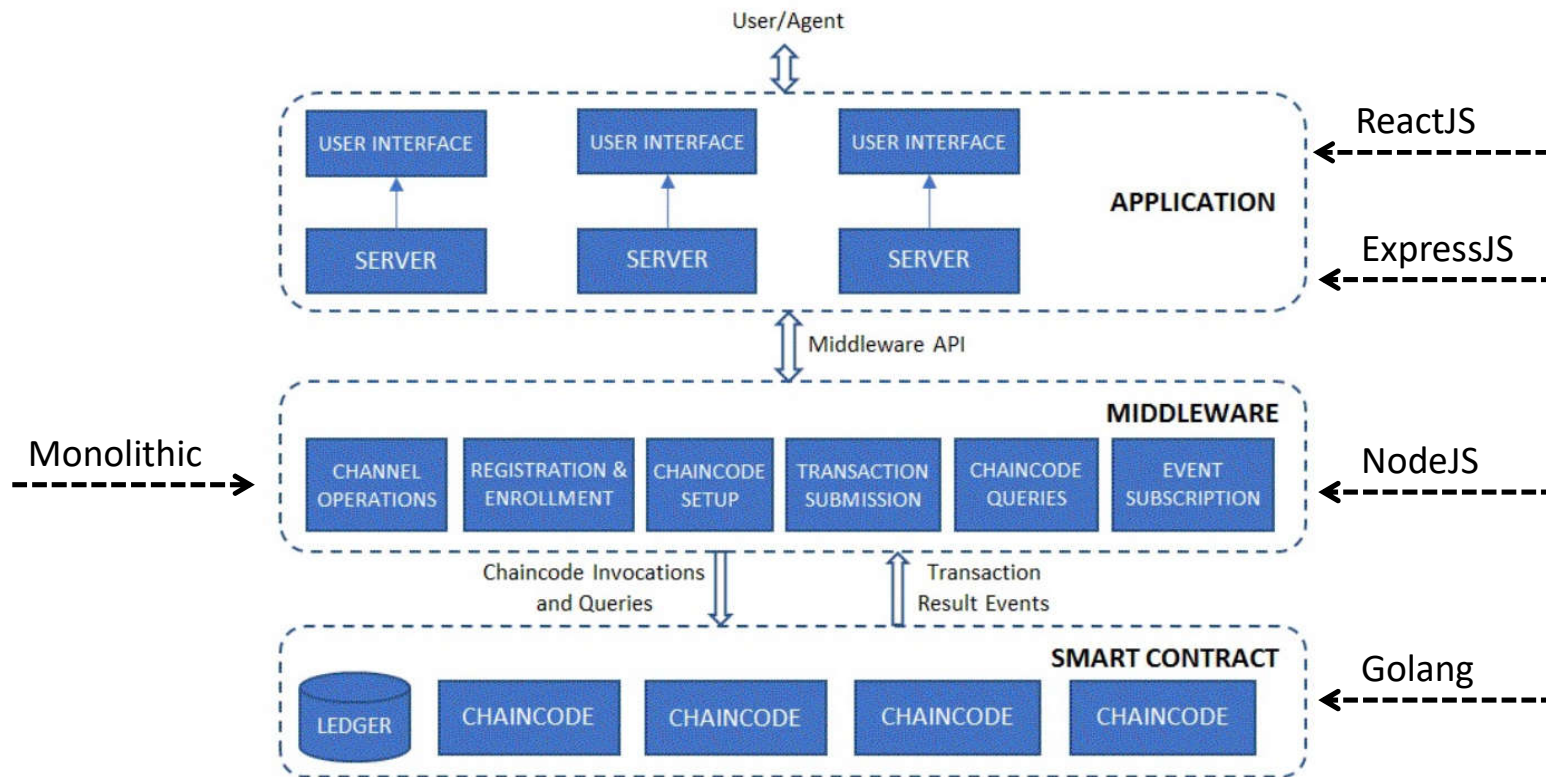


# gRPC for Hyperledger Fabric Microservice Architecture

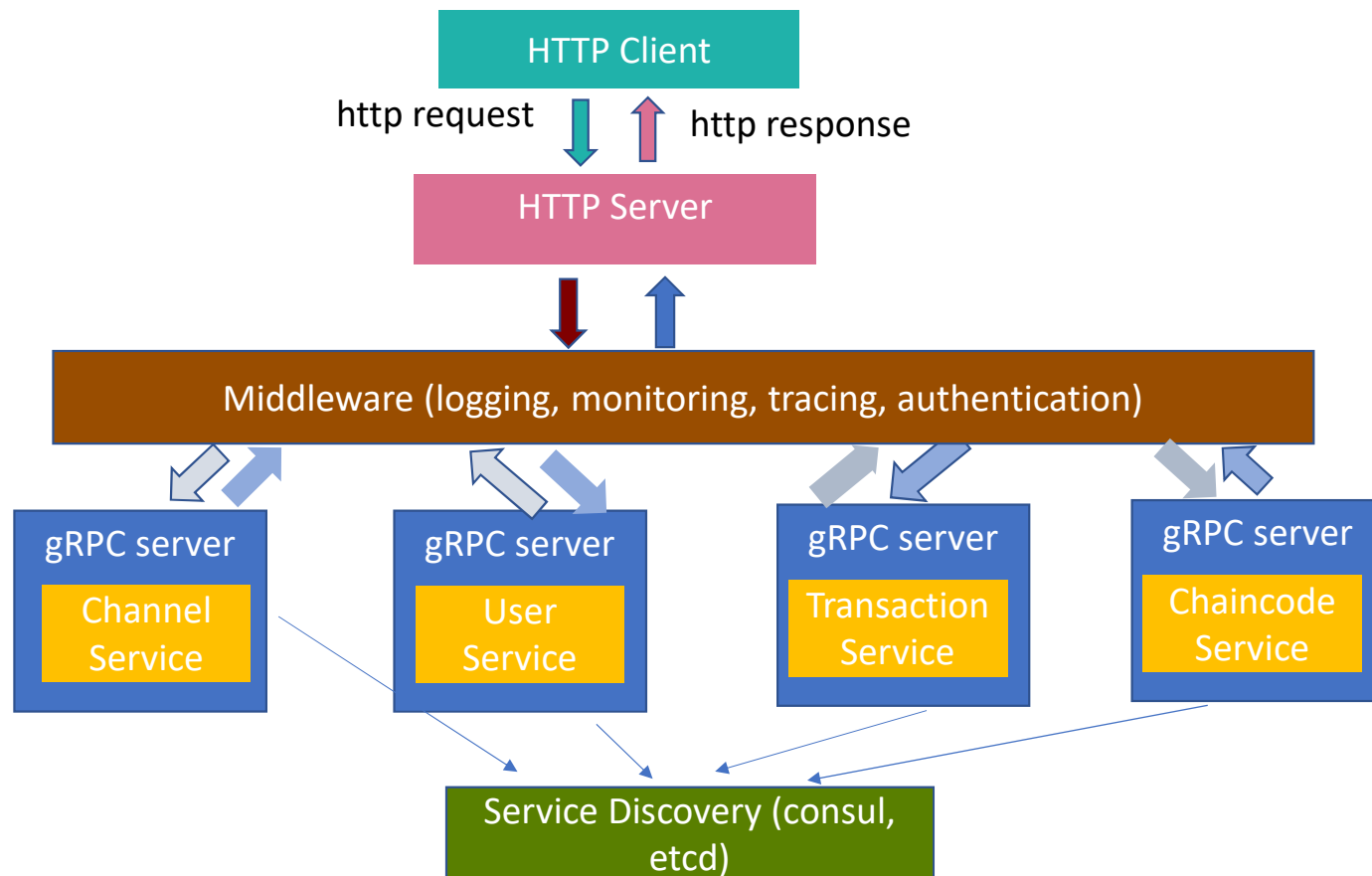
# Content

- Hyperledger Fabric Application Architecture (current)
- Microservice Architecture
- Why golang and gRPC
- Go-kit
- Demo
  - Gokit Demo
  - http & gRPC Demo
  - Browser Demo

# Hyperledger Fabric Application Architecture



# Microservice Architecture



# Why gRPC? Why go lang?

Internal

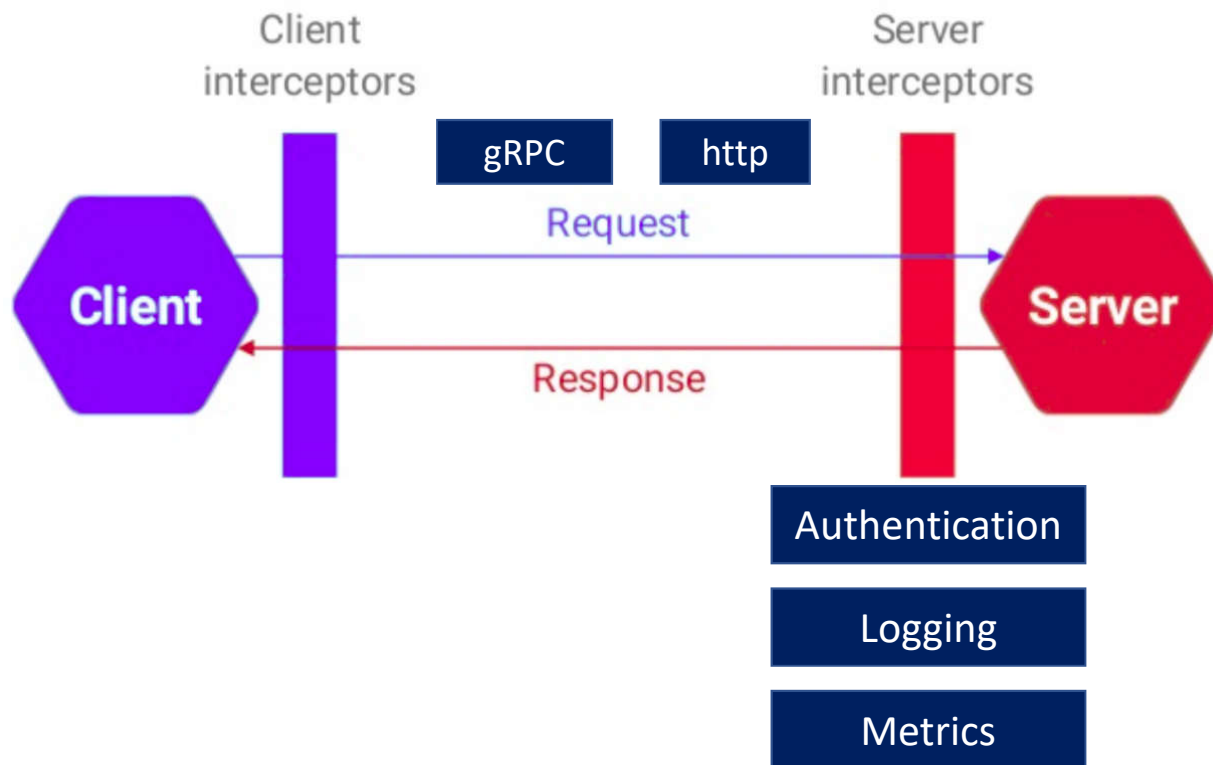
Performance

One language

Secure

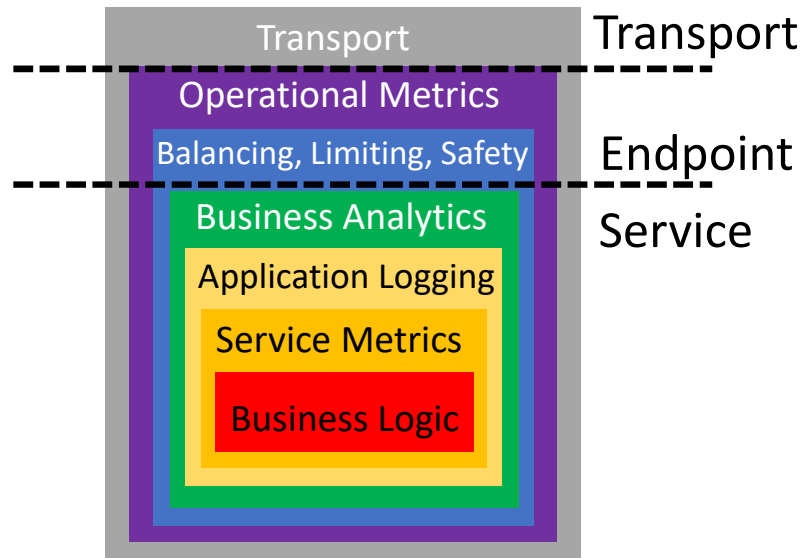
FronEnd to BackEnd

# Communication and Middleware



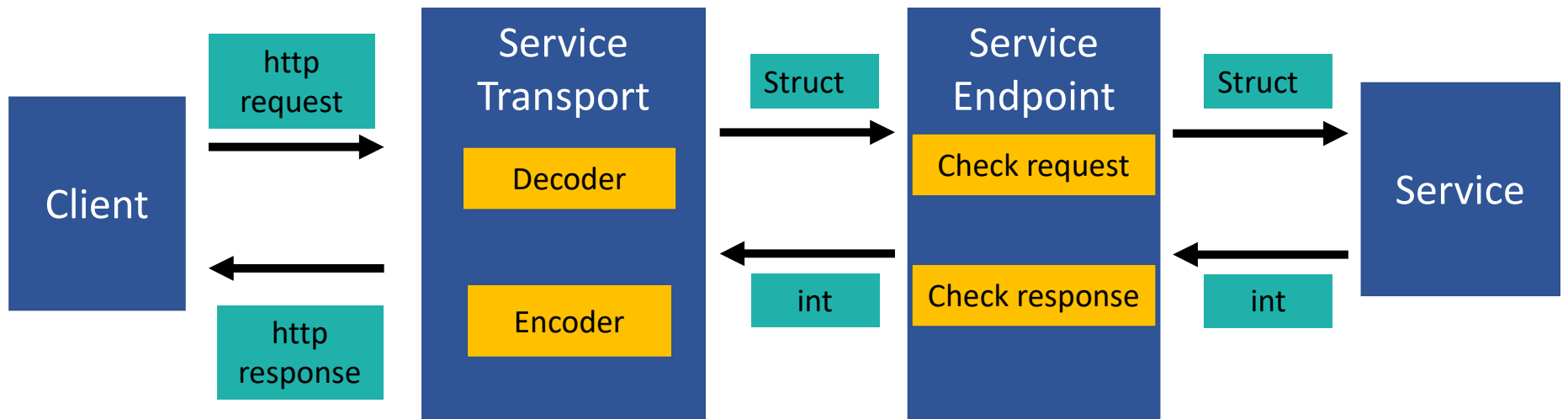
Do it faster?  
Framework?  
Standard?

# go-kit: go microservice framework



- Layer architecture
- Strict Separation of Concerns
- Standard Implementations

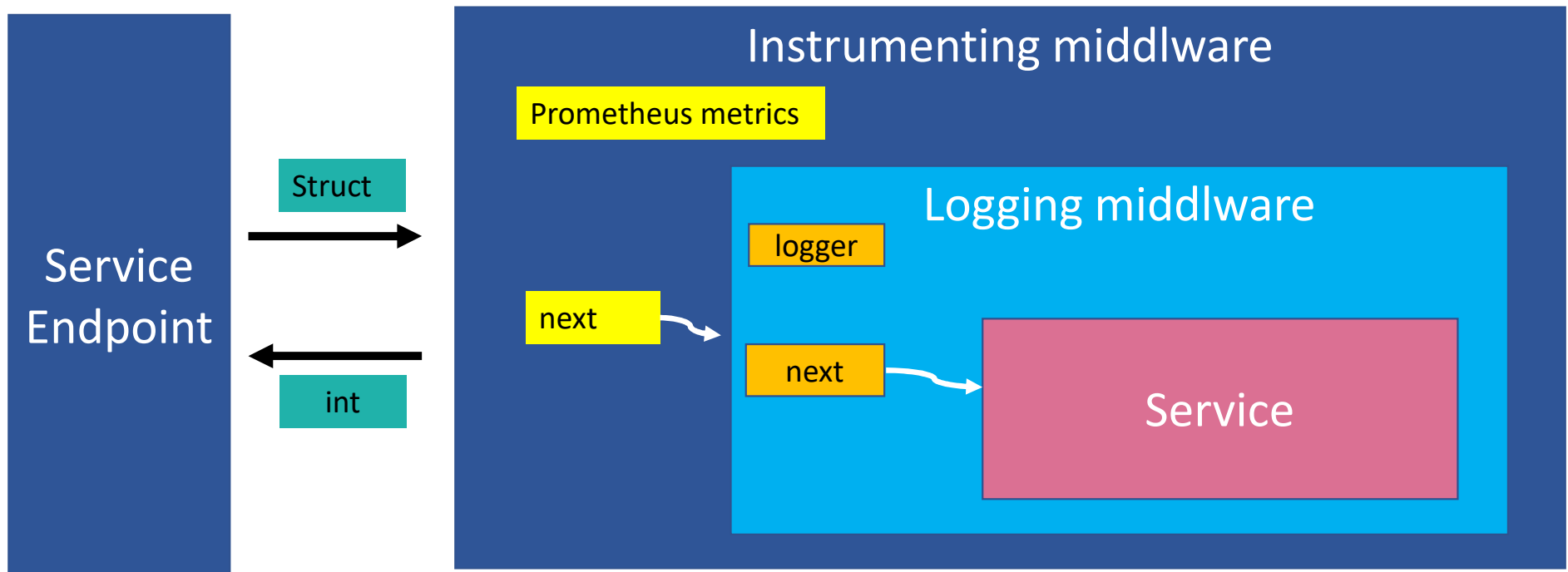
# Service Transport



- ❑ Connect with outside
- ❑ http, gRPC, thrift



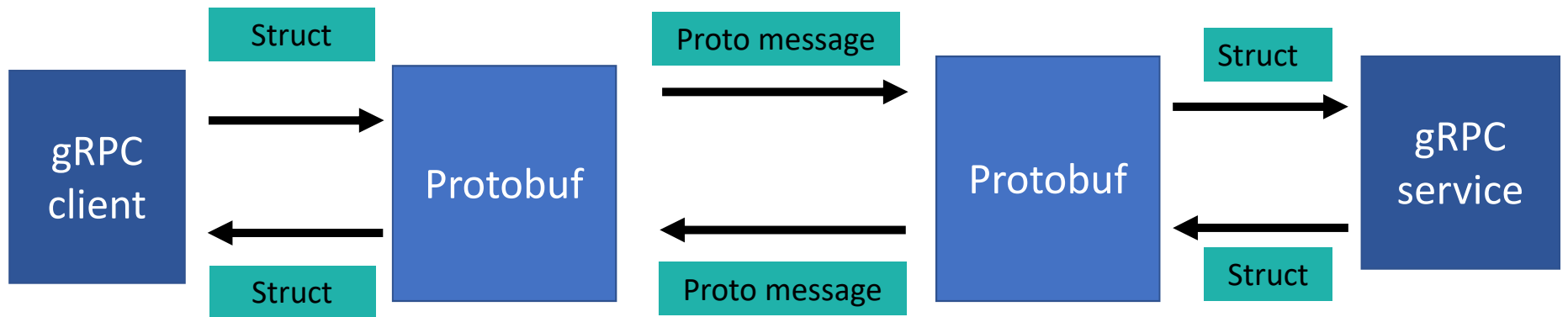
# Service Middlewares



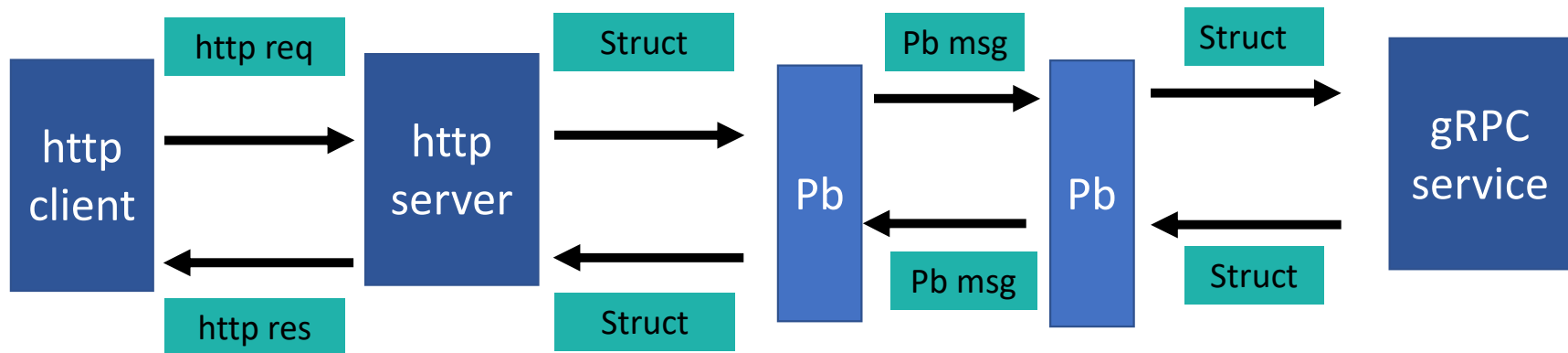
- ❑ Same method signature
- ❑ Wrapping

go-kit demo

# gRPC-gRPC communication

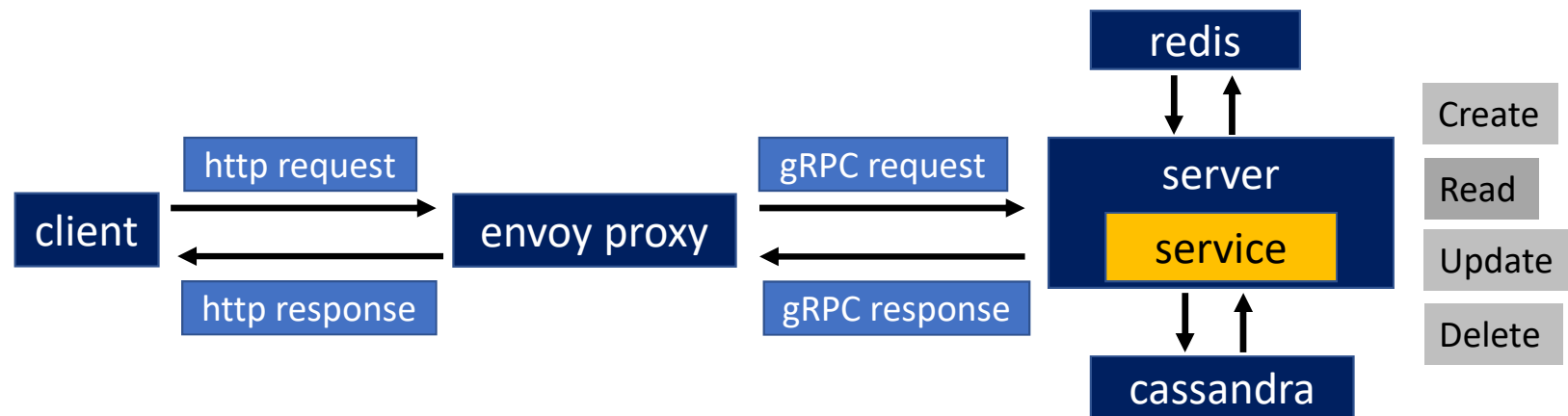


# http-gRPC communication



# Communication demo

# FrontEnd to BackEnd



- Browser does not support gRPC communication yet.
- Envoy proxy = translator

THANK YOU!