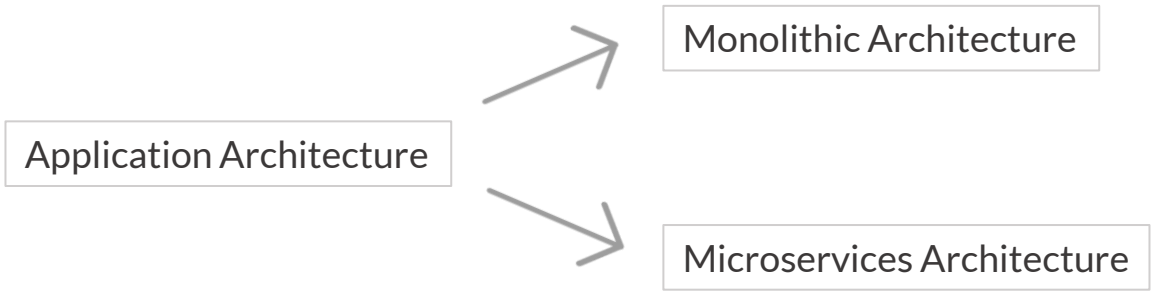
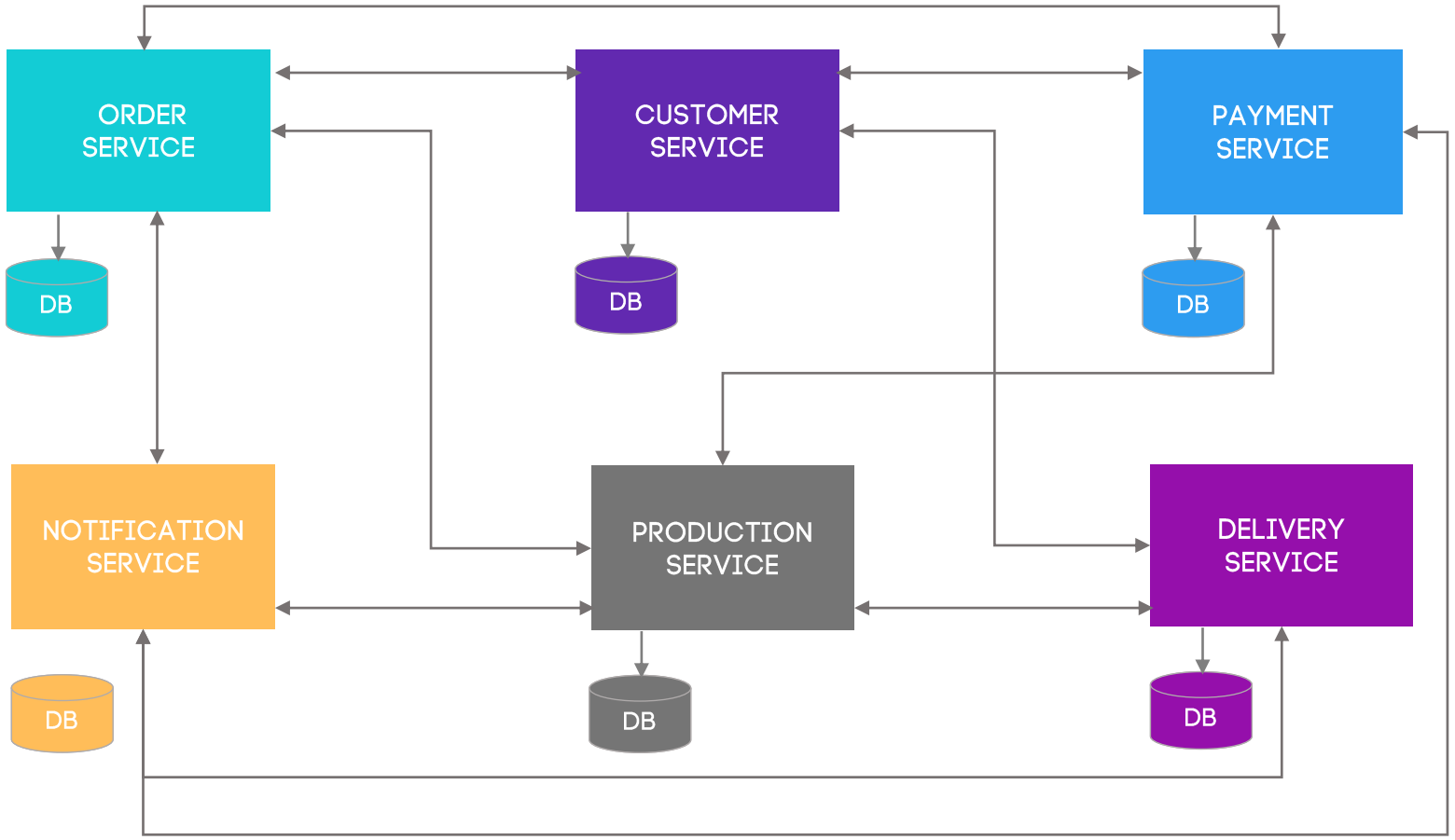
O que você verá:

- Overview do ecossistema Spring para a implementação de Arquiteturas de Microservices;
- Comunicação entre Microservices;
- Comunicação Síncrona One-To-One Request/Response;
- API Gateway Pattern;
- Service Registry Discovery Pattern;
- Circuit Breaker Pattern;
- API Composition Pattern;
- Comunicação Assíncrona One-To-One via Mensageria;
- Comunicação Assíncrona One-To-Many via Mensageria;
- Broker Pattern;
- Mediator Pattern;
- Event Driven com Event Notification Pattern;
- Event Carried State Transfer Pattern;
- Saga Pattern;
- Externalized Configuration Pattern;
- Observability: Distributed Tracing;
- Observability: Metrics;
- Log Aggregation Pattern;
- Etc.

Arquitetura da Aplicação



Arquitetura de Microservices



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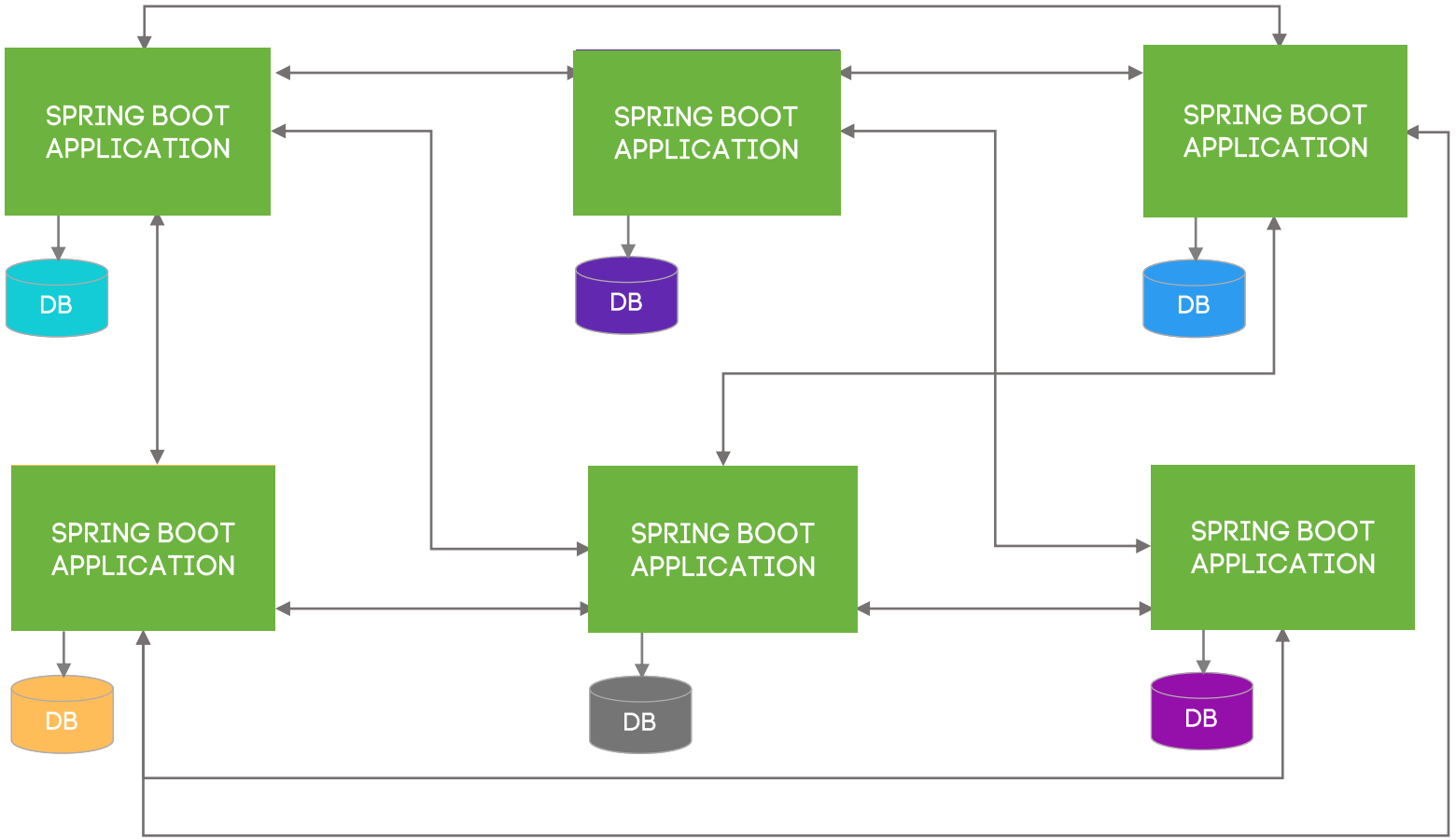
Arquitetura de Microservices



Spring Projects

Spring Boot
Spring Data

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Database Pattern

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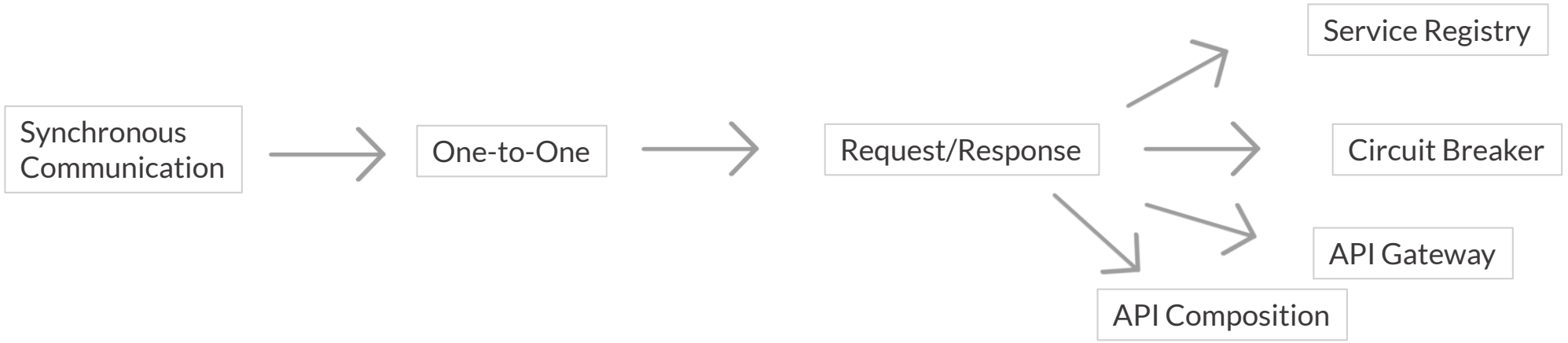
Comunicação entre Microservices



Asynchronous Communication

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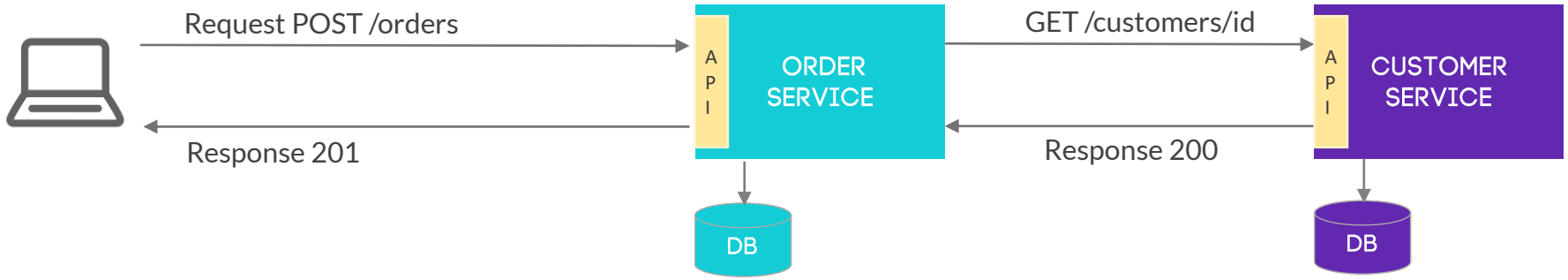
Comunicação Síncrona via REST API



Spring Projects

Spring Web: RESTful and Spring MVC

Spring Reactive Web: Spring Webflux

Spring HATEOAS

Spring Validation

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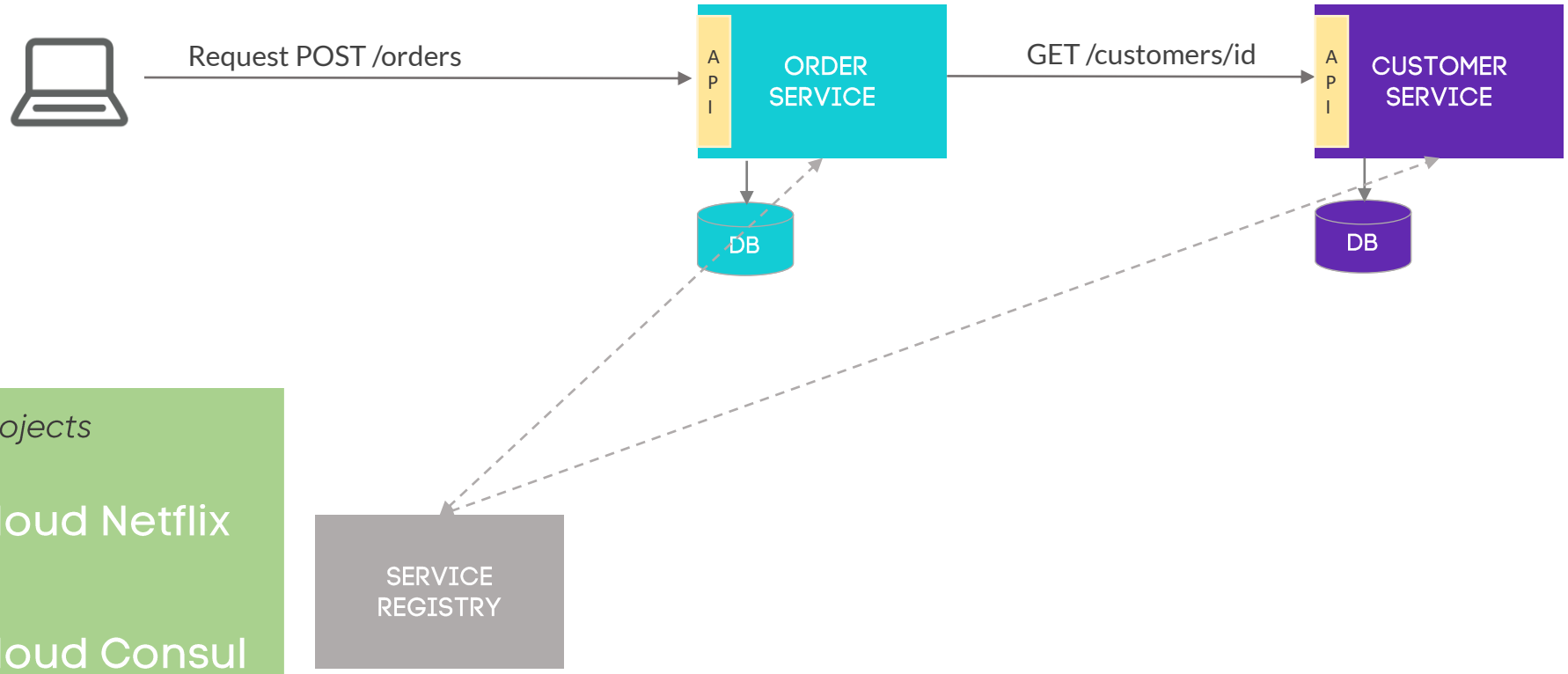
Service Registry / Discovery



Spring Projects

Spring Cloud Netflix Eureka

Spring Cloud Consul

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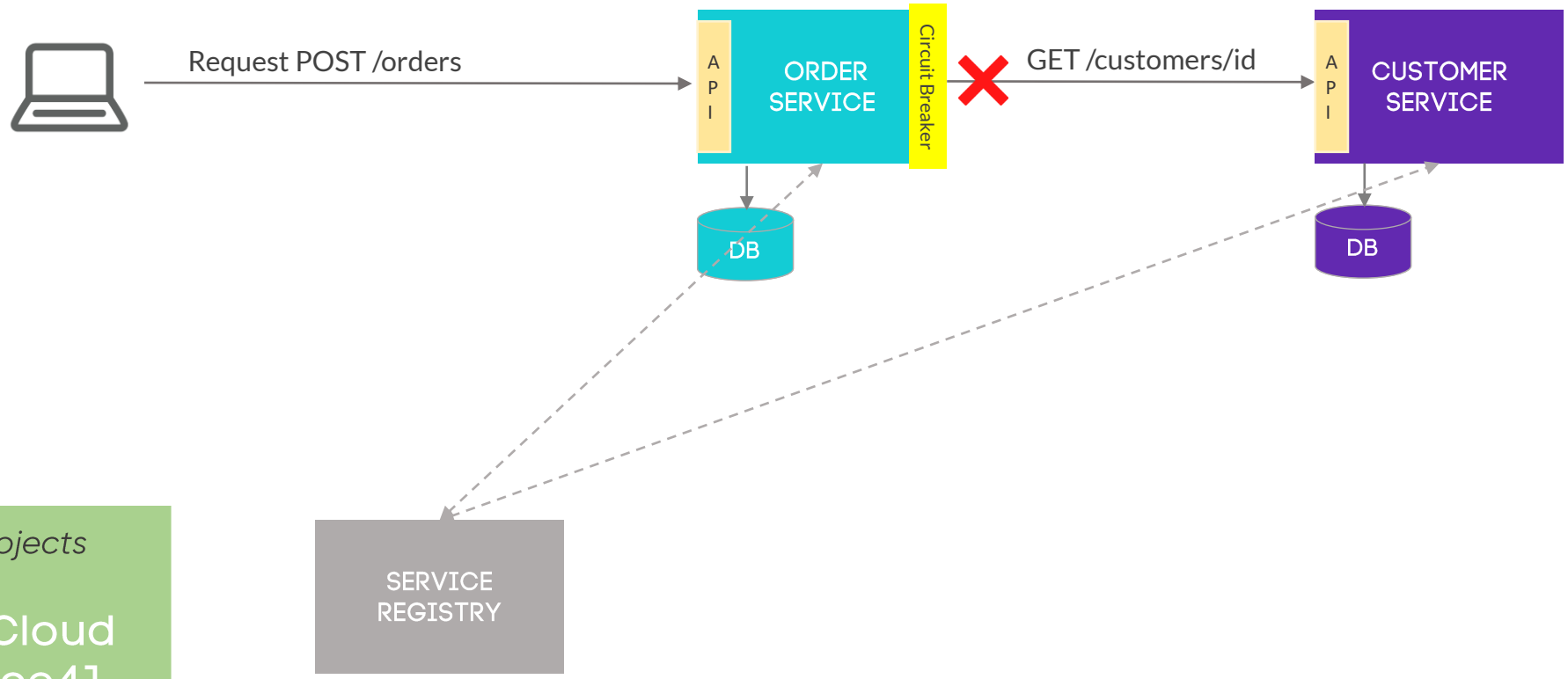
Circuit Breaker



Spring Projects

Spring Cloud Resilience4J

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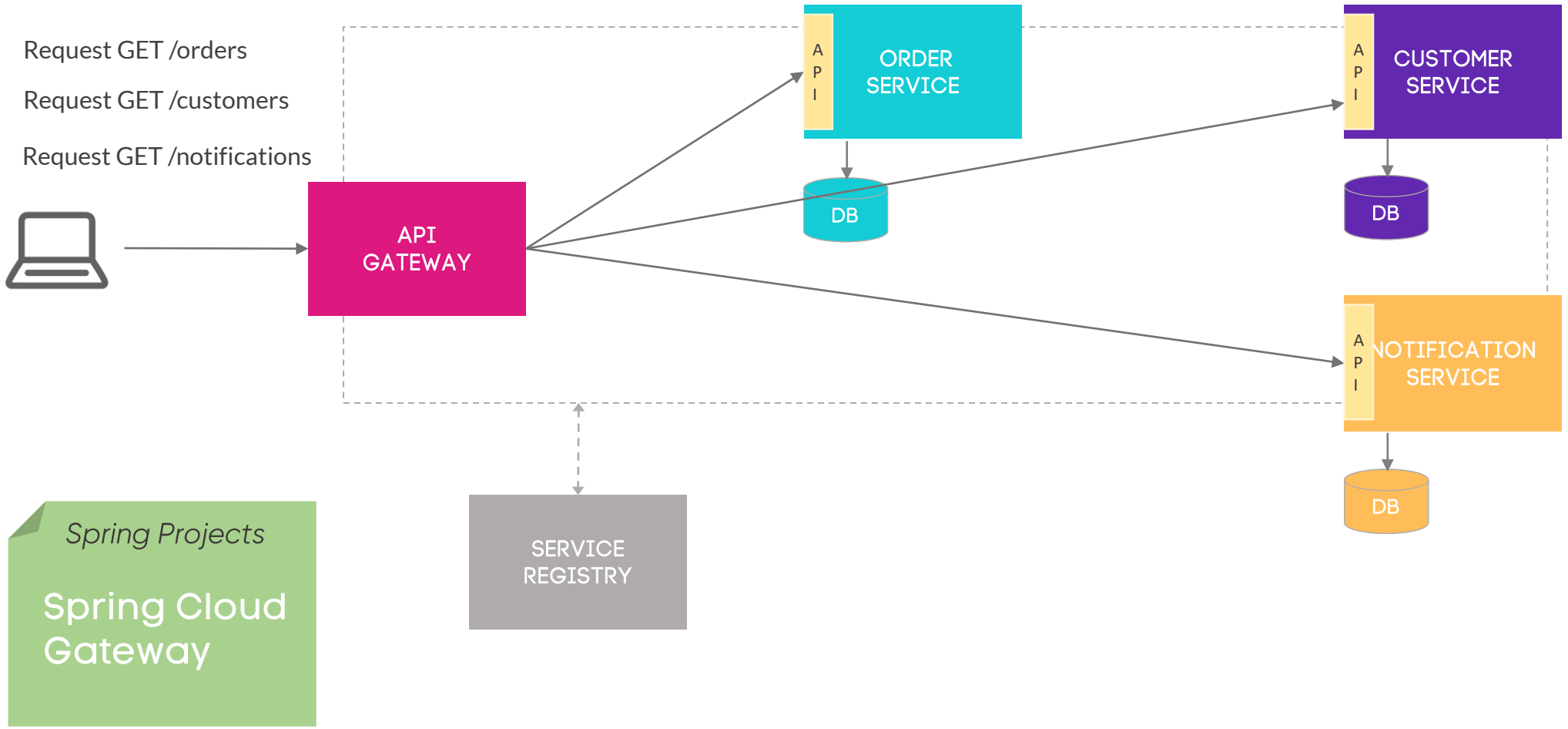
API Gateway Pattern



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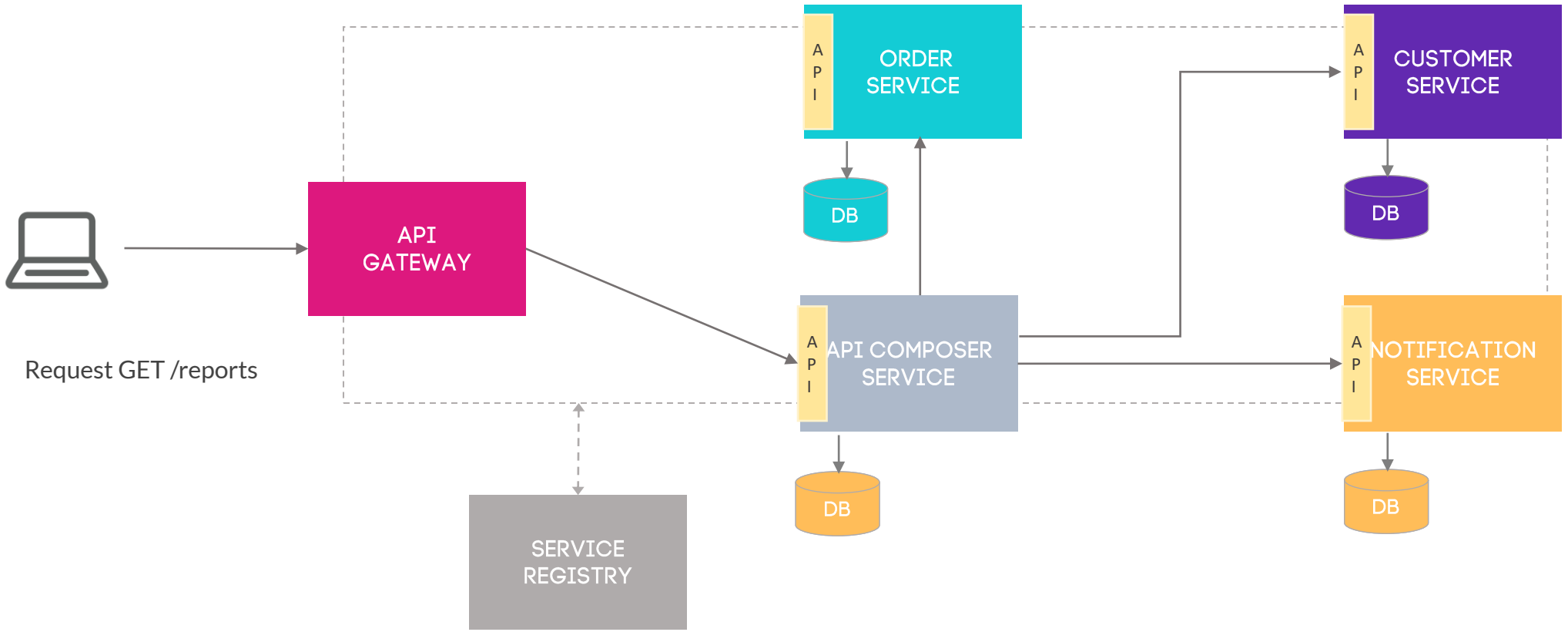
API Composition Pattern



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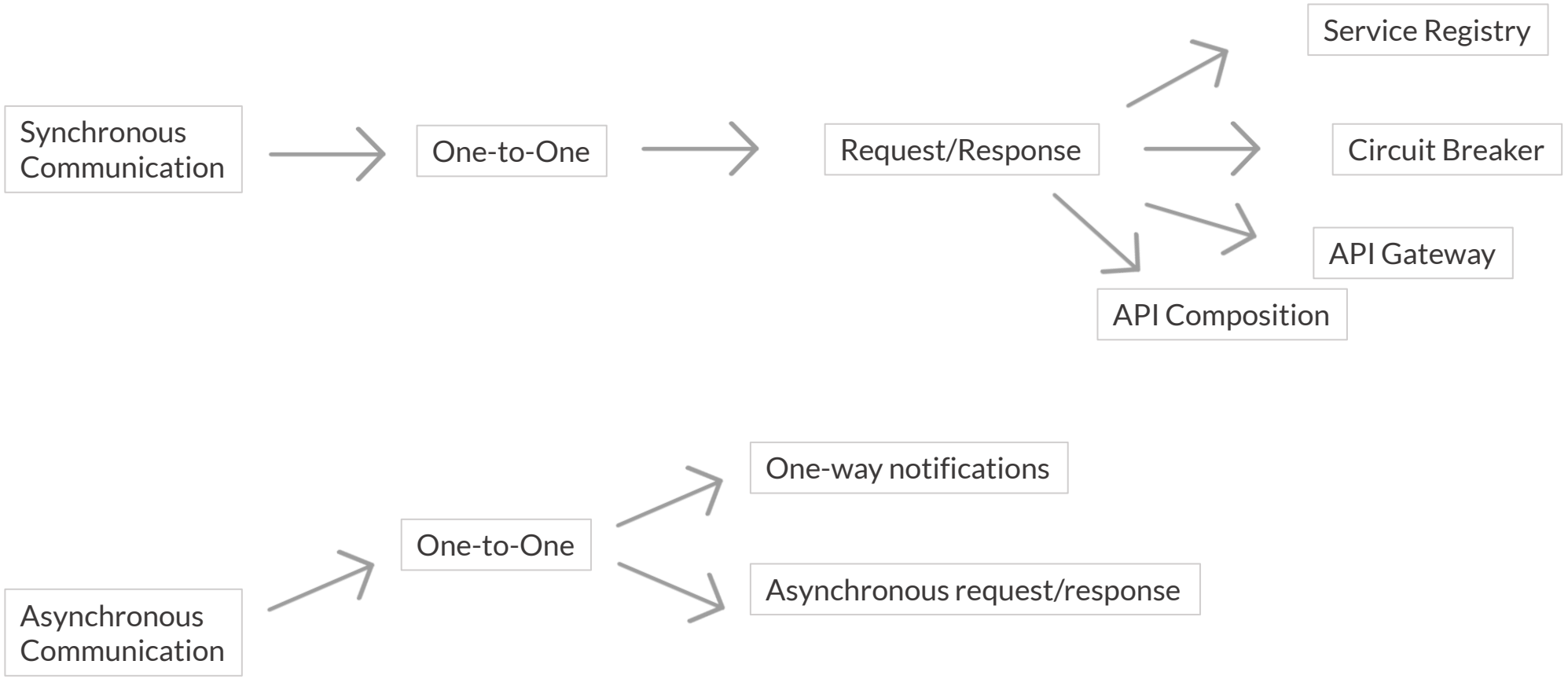
Comunicação entre Microservices



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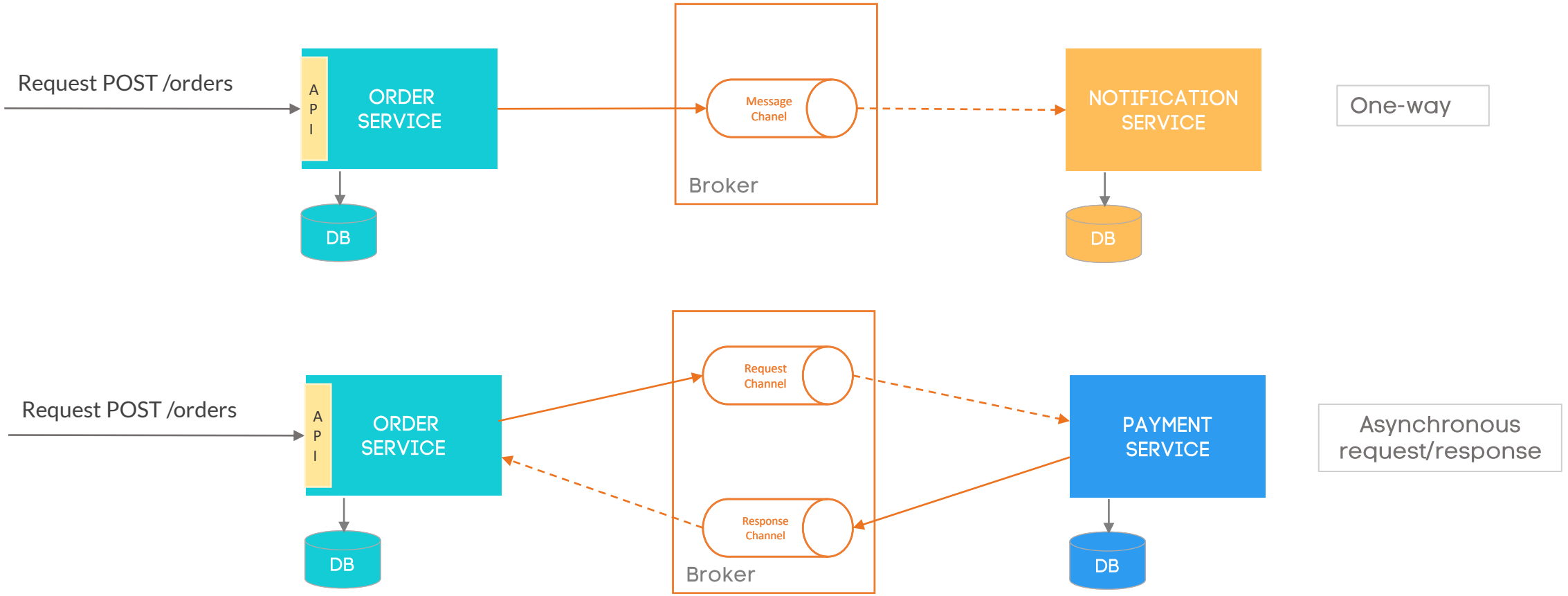
Comunicação Assíncrona via Mensageria: One-To-One



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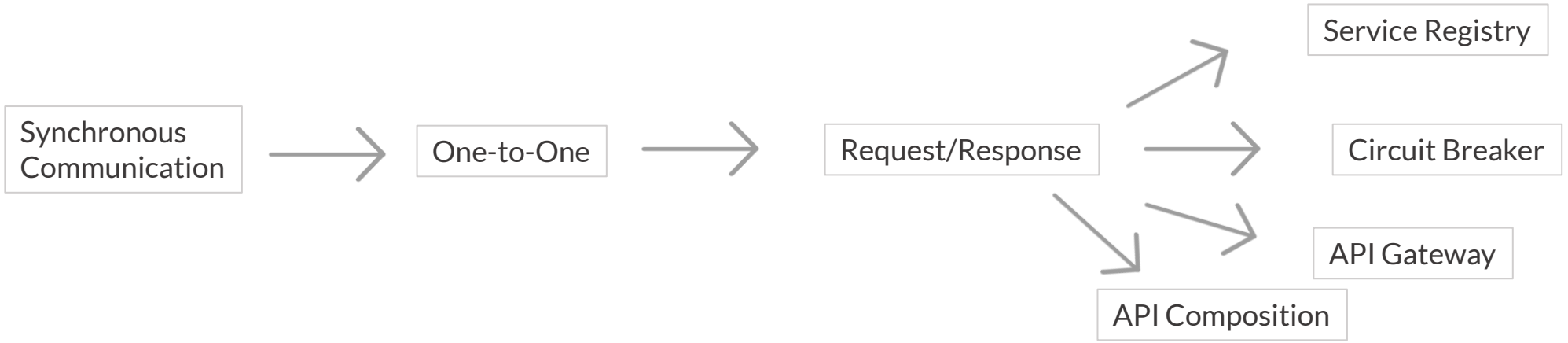
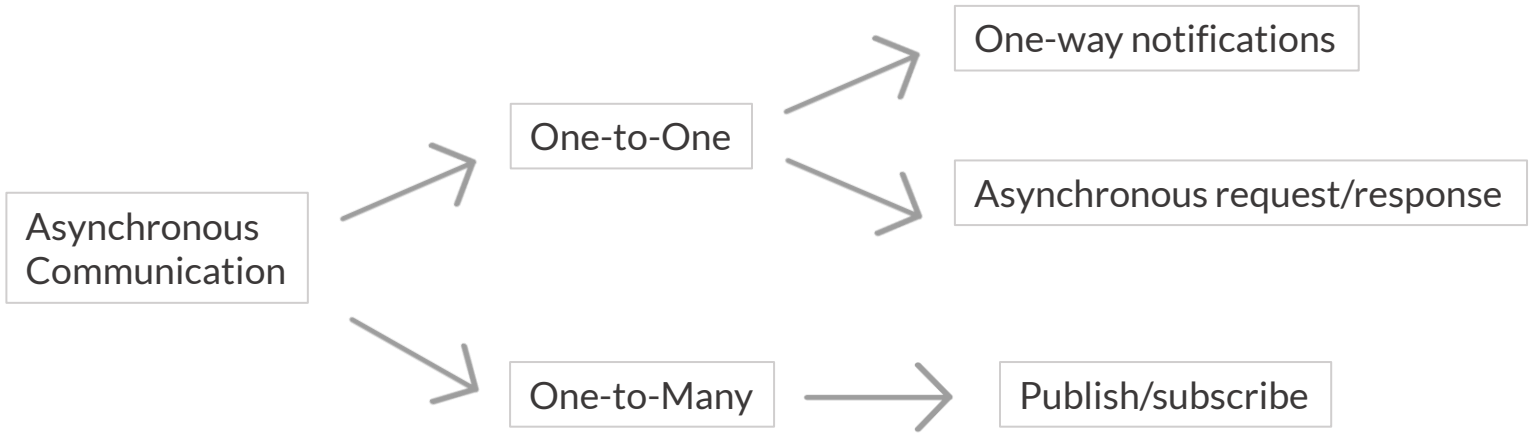
Comunicação entre Microservices





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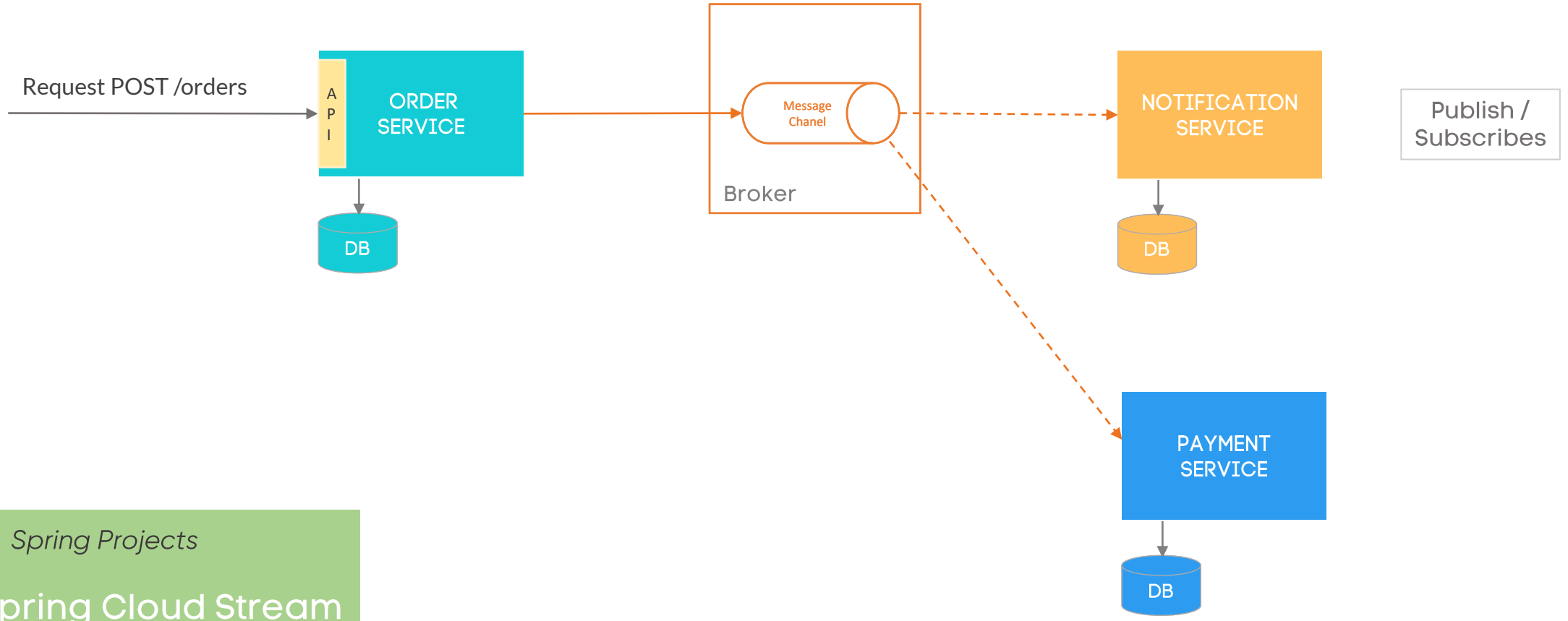
Comunicação Assíncrona via Mensageria: One-To-Many



Spring Projects

Spring Cloud Stream

Spring AMQP

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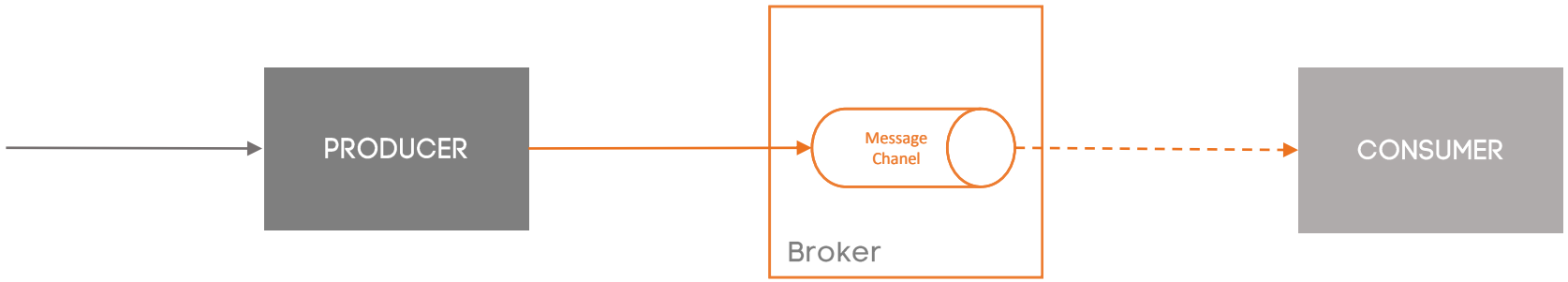
Broker Pattern



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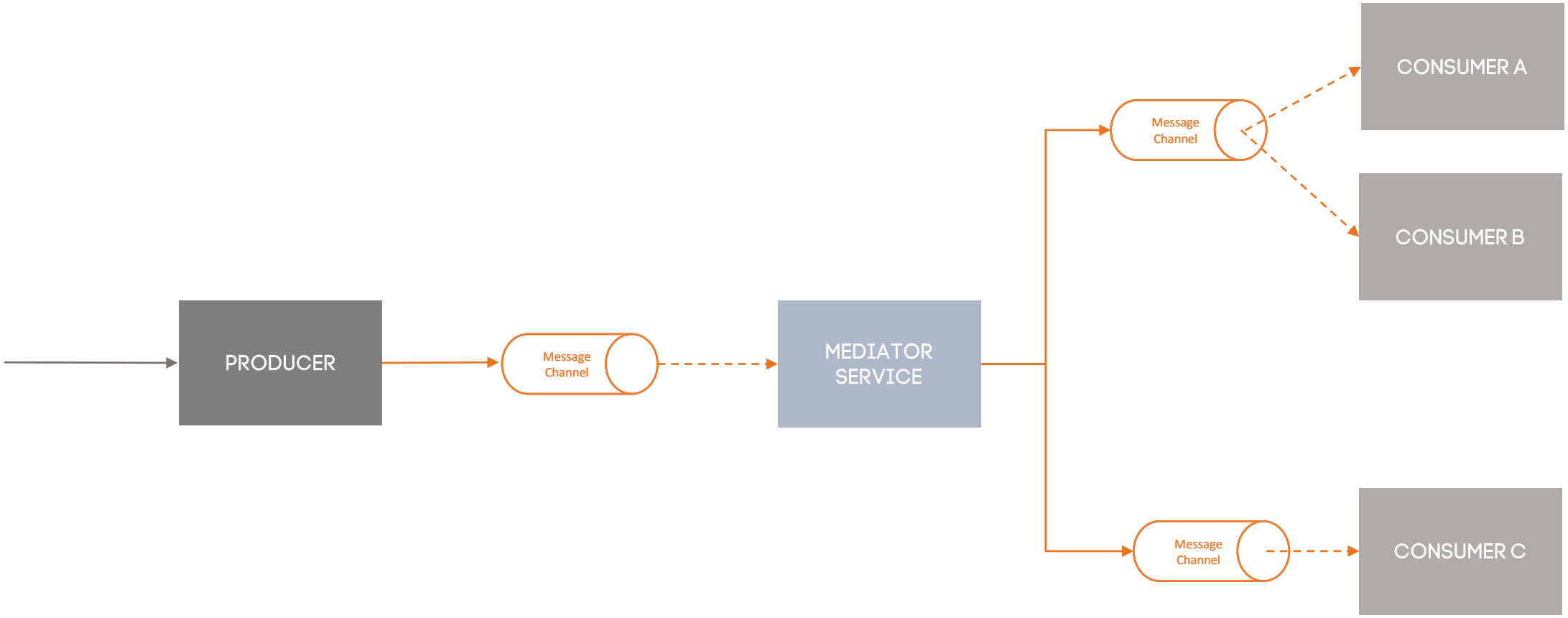
Mediator Pattern



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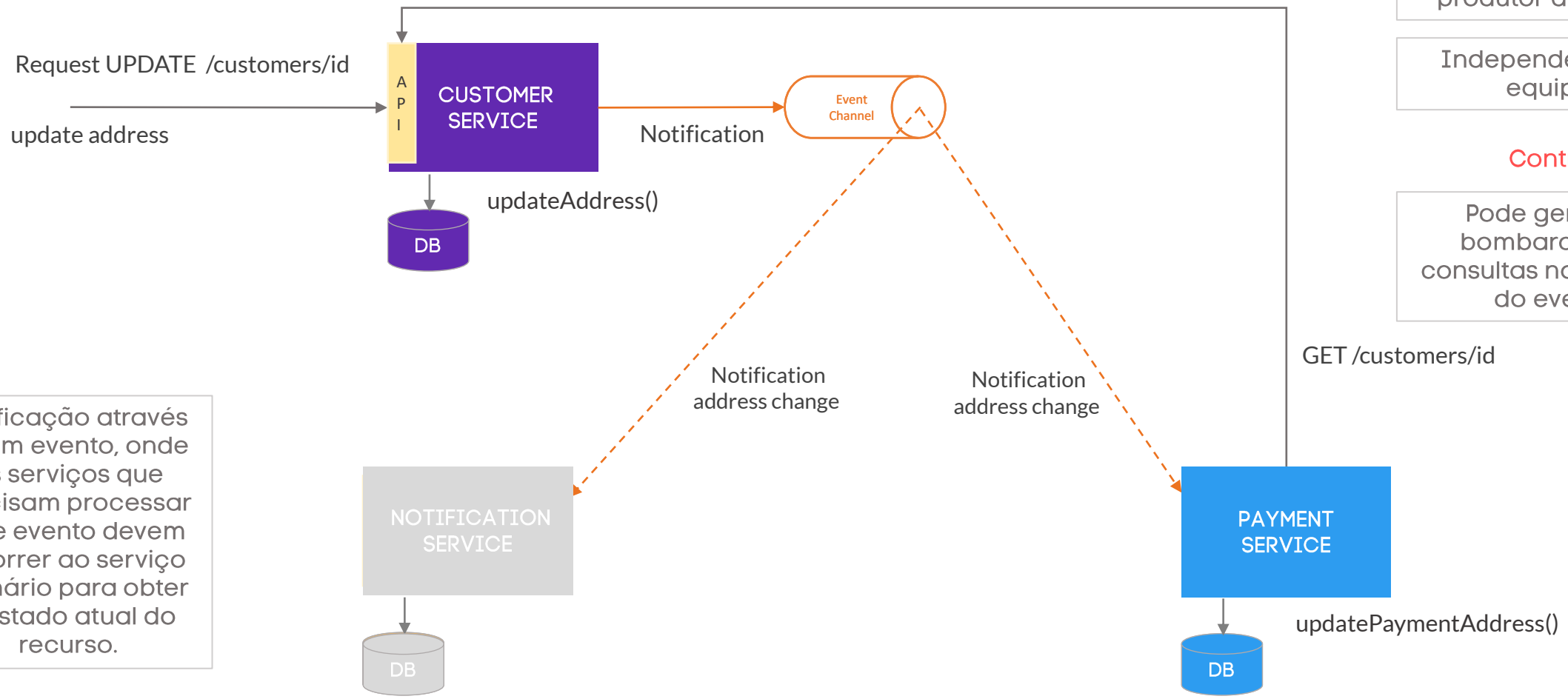
Event Notification Pattern



Notificação através de um evento, onde os serviços que precisam processar esse evento devem recorrer ao serviço primário para obter o estado atual do recurso.

Prós

Isolamento de responsabilidade do produtor do evento

Independência de equipes

Contras

Pode gerar um bombardeio de consultas no produtor do evento

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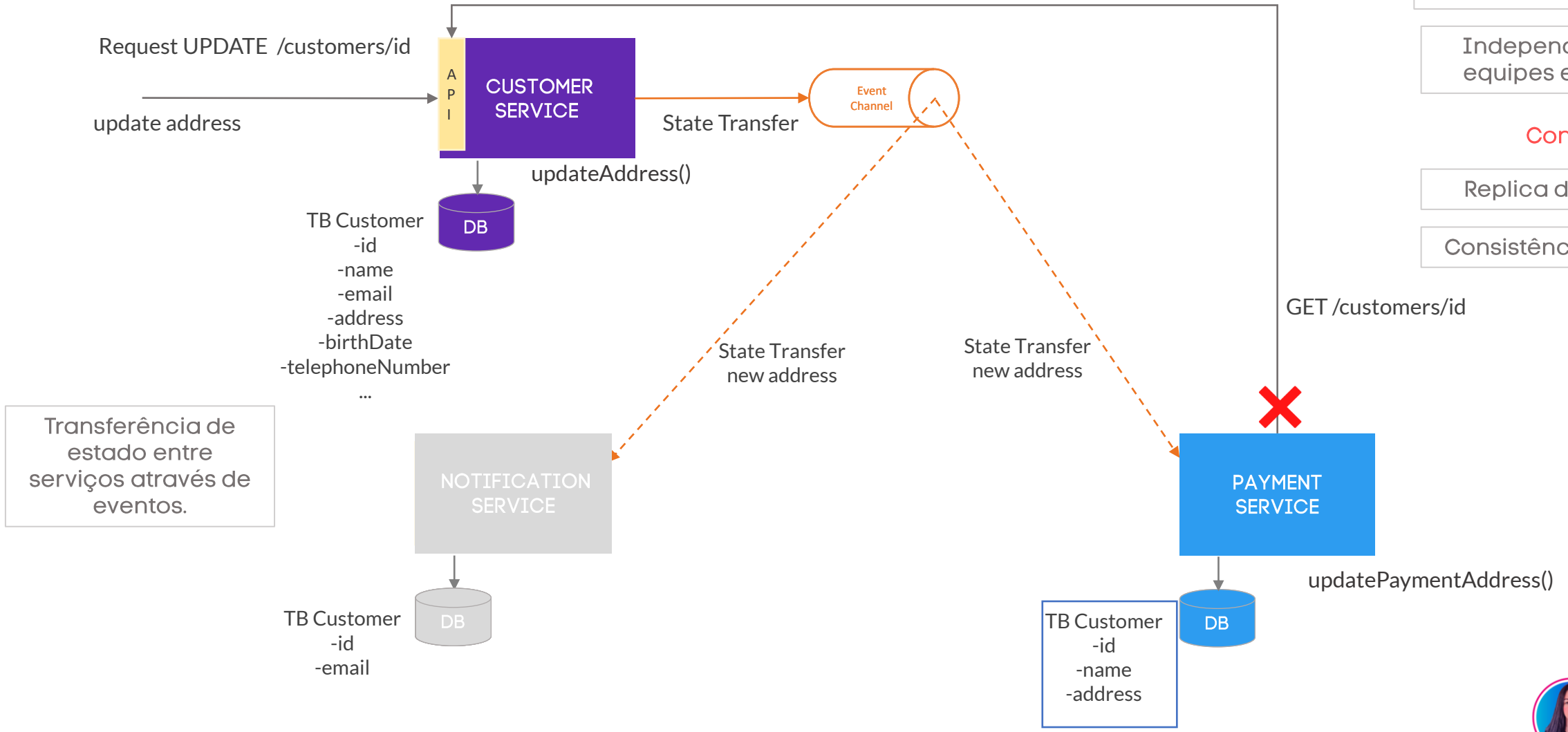
Event-Carried State Transfer Pattern



Transferência de estado entre serviços através de eventos.

Prós

- Melhora performance
- Melhora disponibilidade
- Independência de equipes e serviços

Contras

- Replica dos dados
- Consistência Eventual

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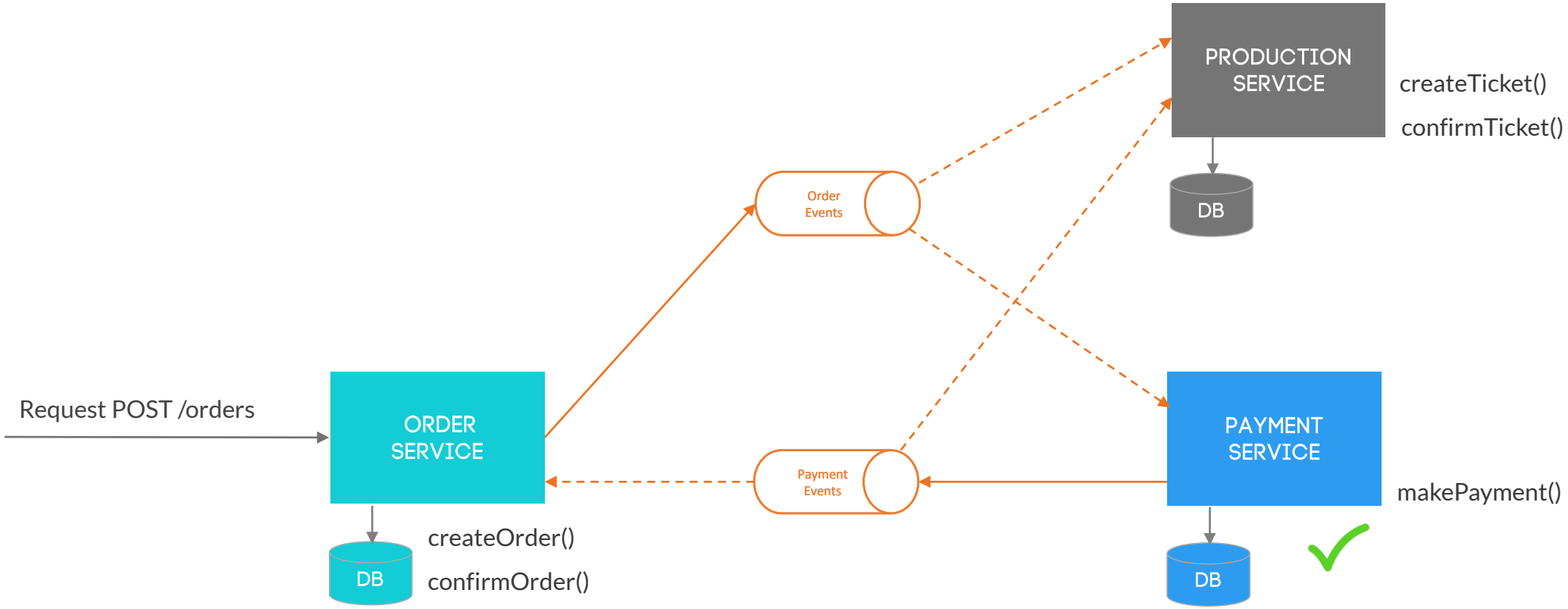
Saga Pattern



Rafael Fuji Gomes - rael.fuji@gmail.com - CPF: 107.615.537-54

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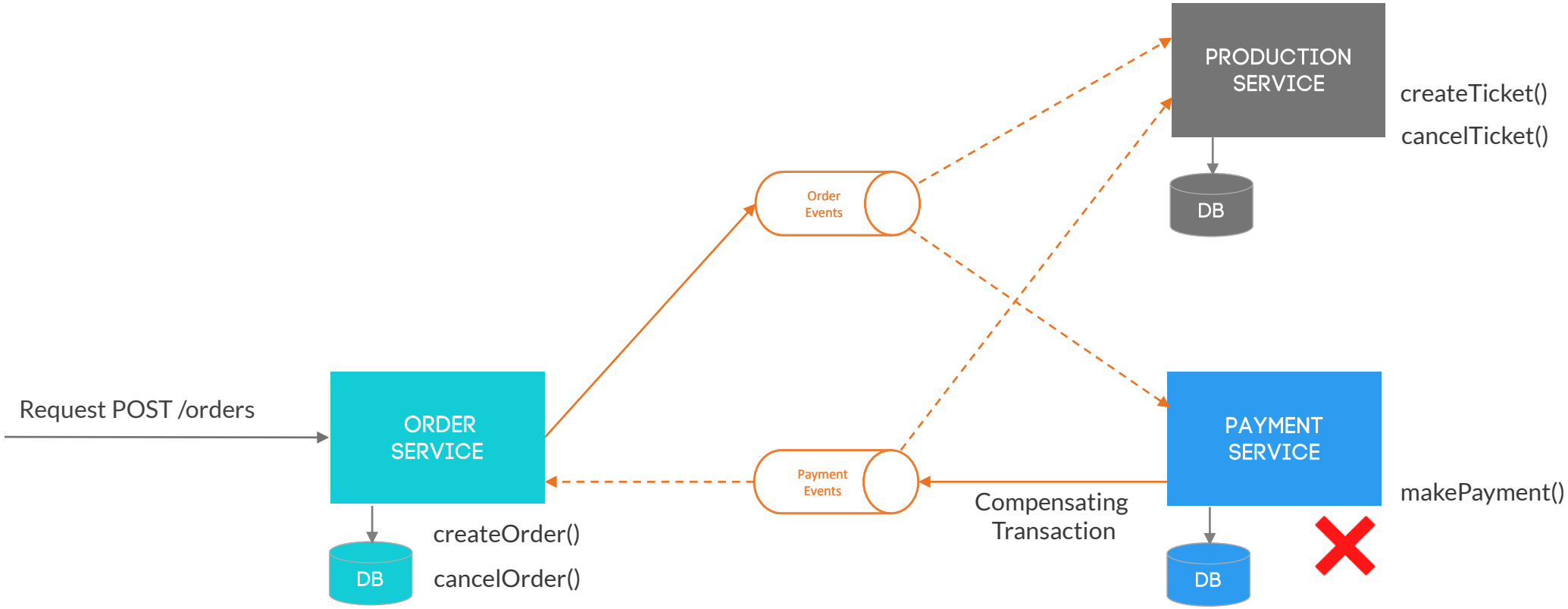
Saga Pattern



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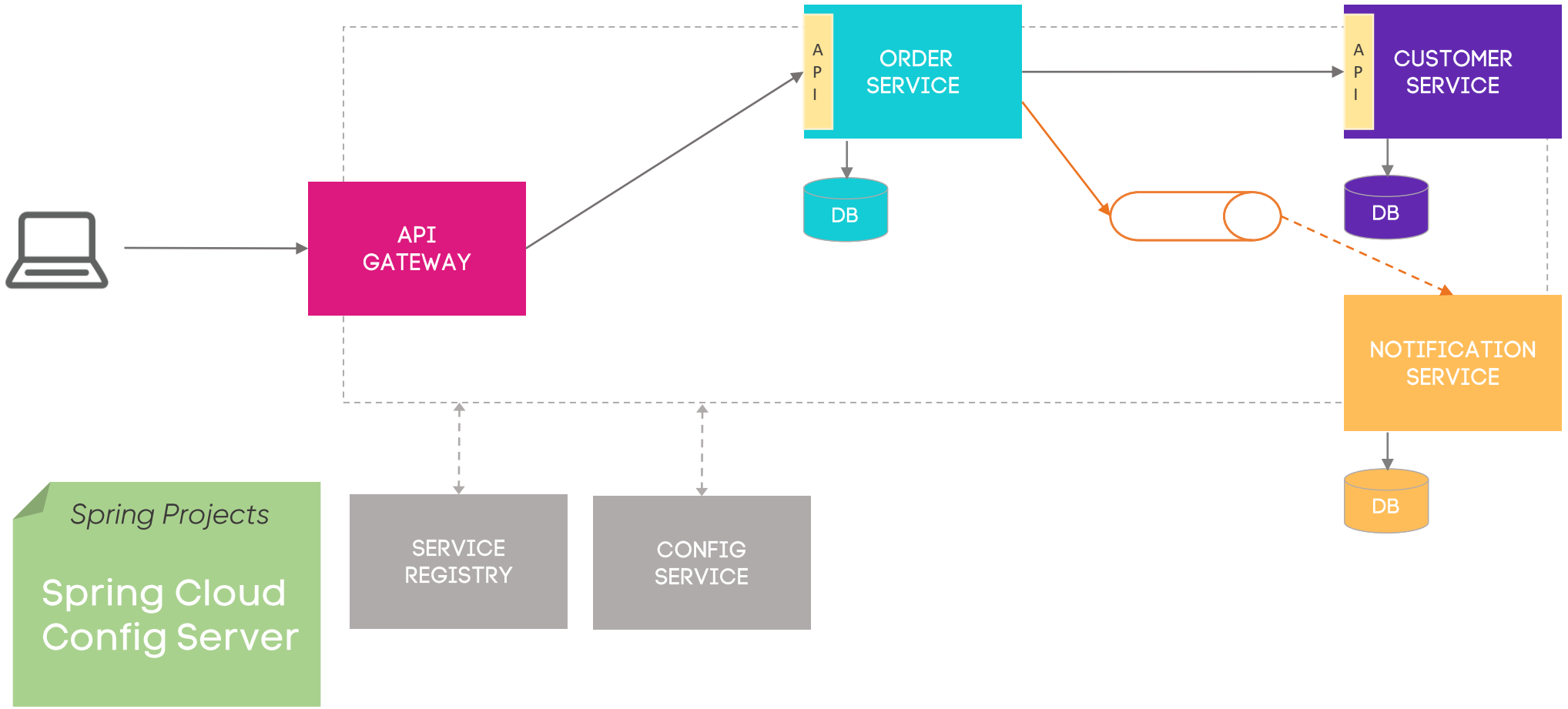
Externalized Configuration



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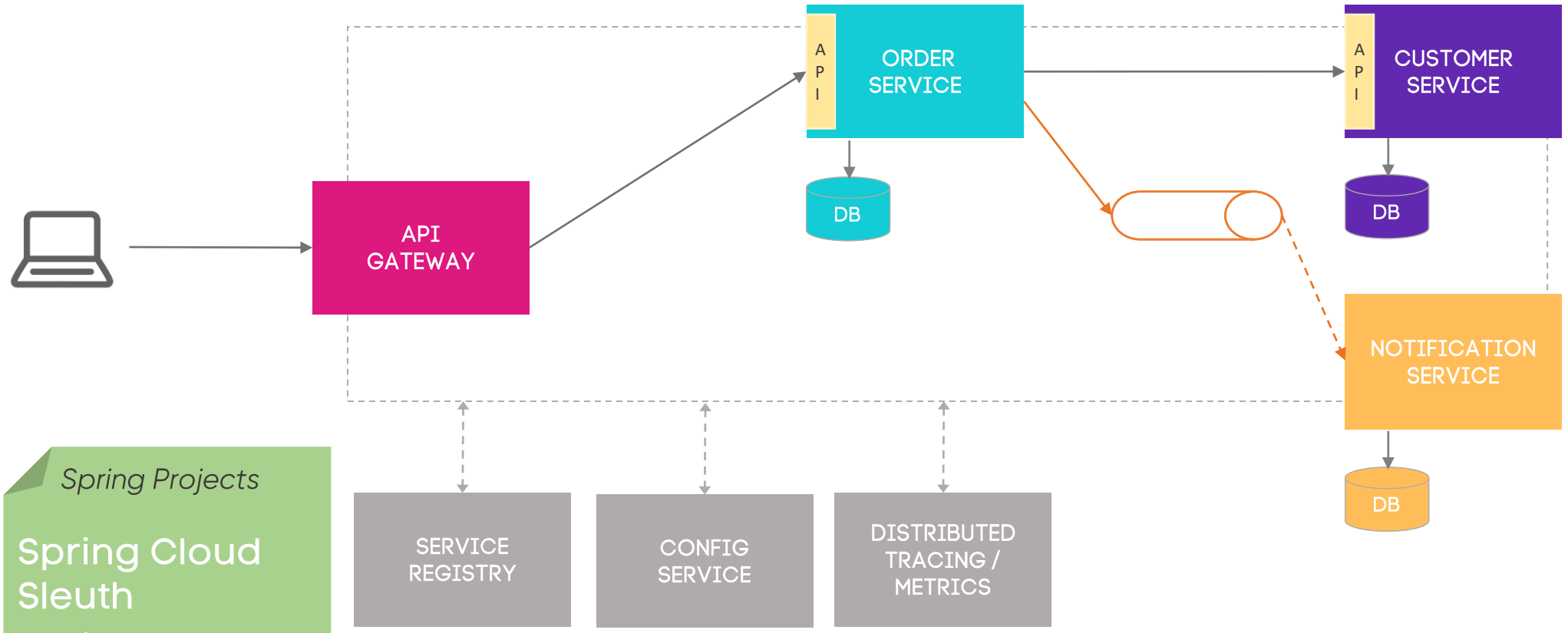
Observability: Distributed Tracing / Metrics



Spring Projects

Spring Cloud Sleuth

Spring Actuator

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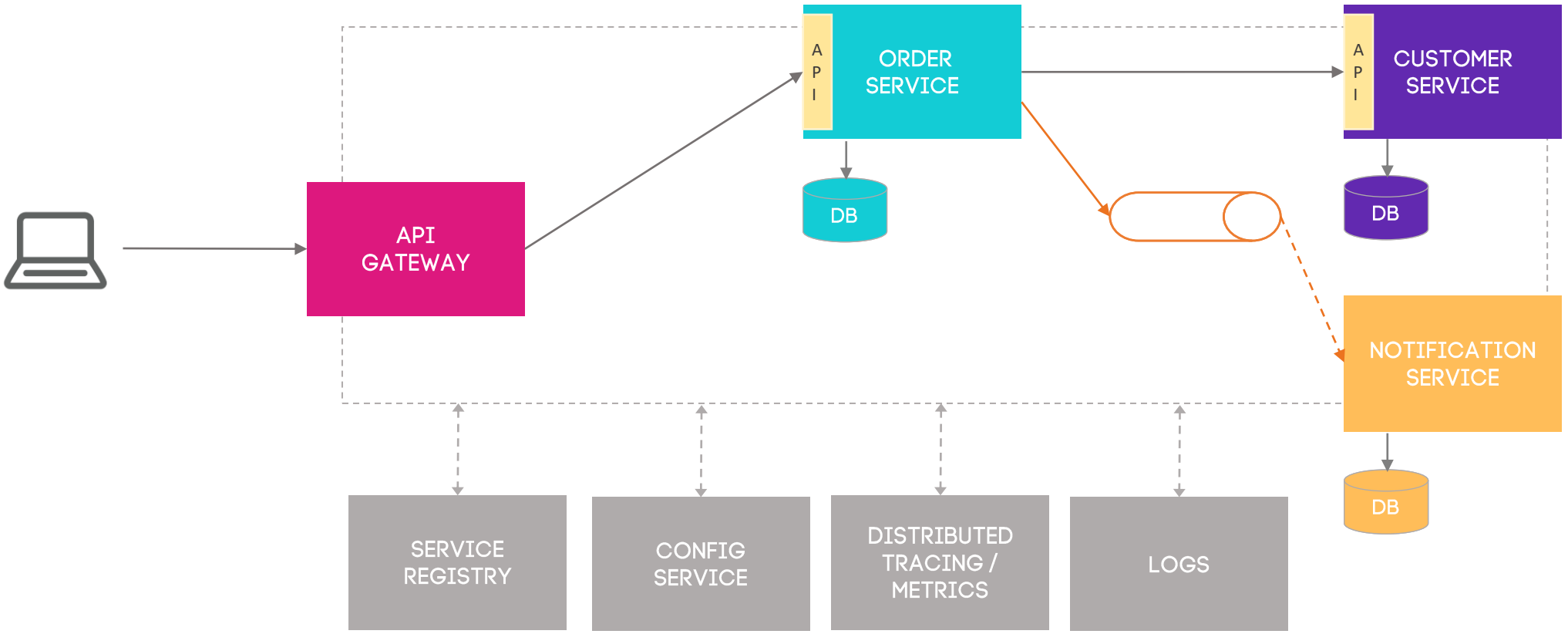
Observability: Log Aggregation



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Obrigada!

Não perca o próximo dia: **Projeto Decoder**

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