Shopping Cart

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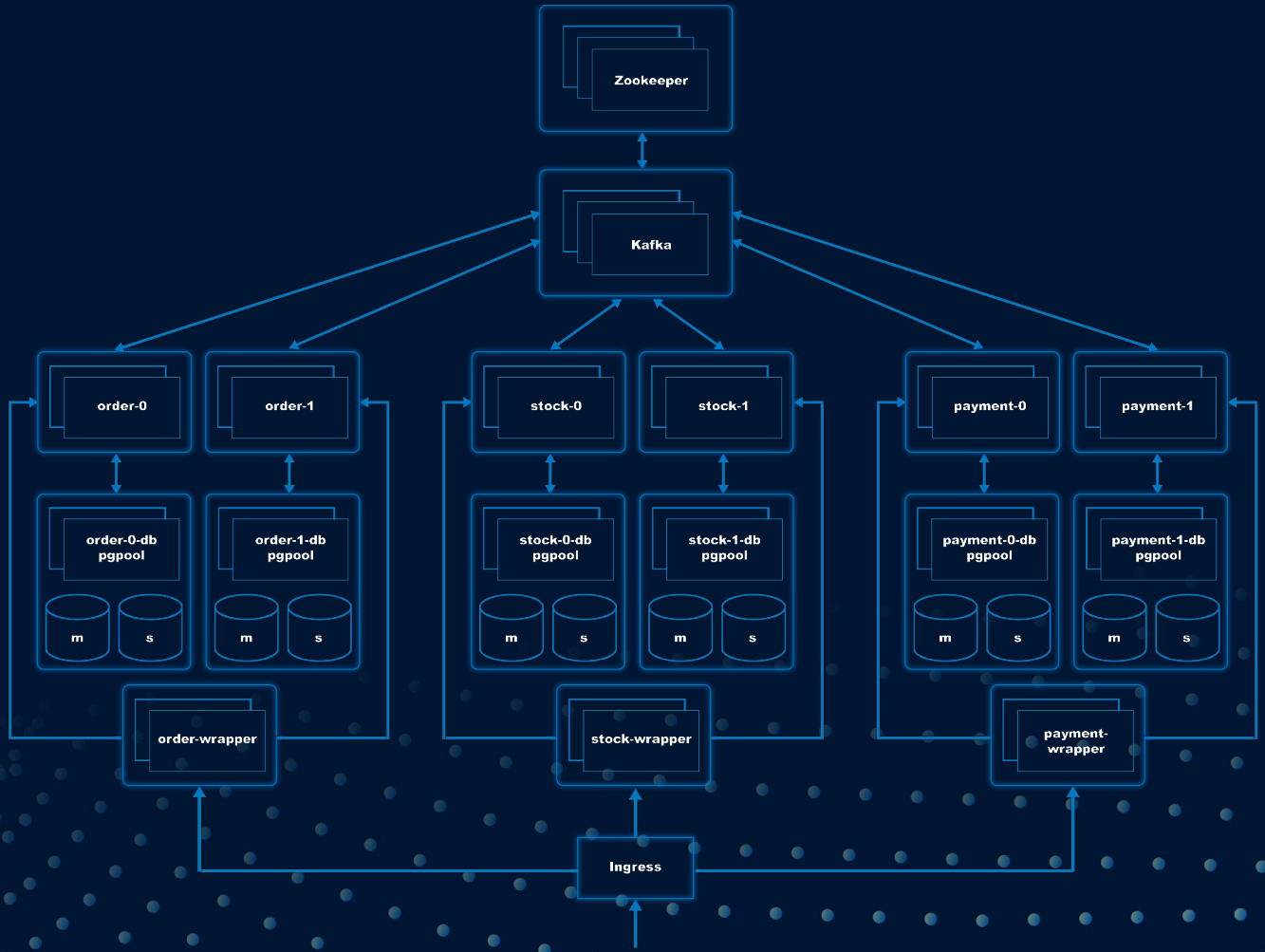
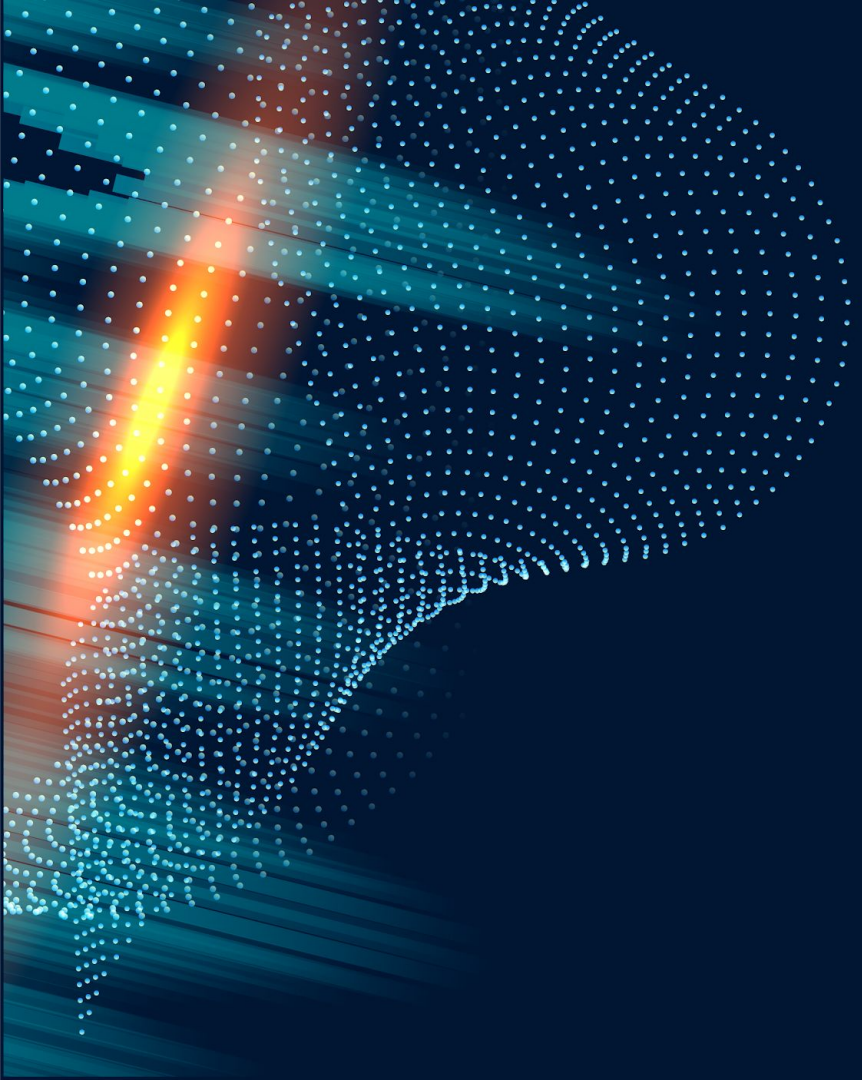
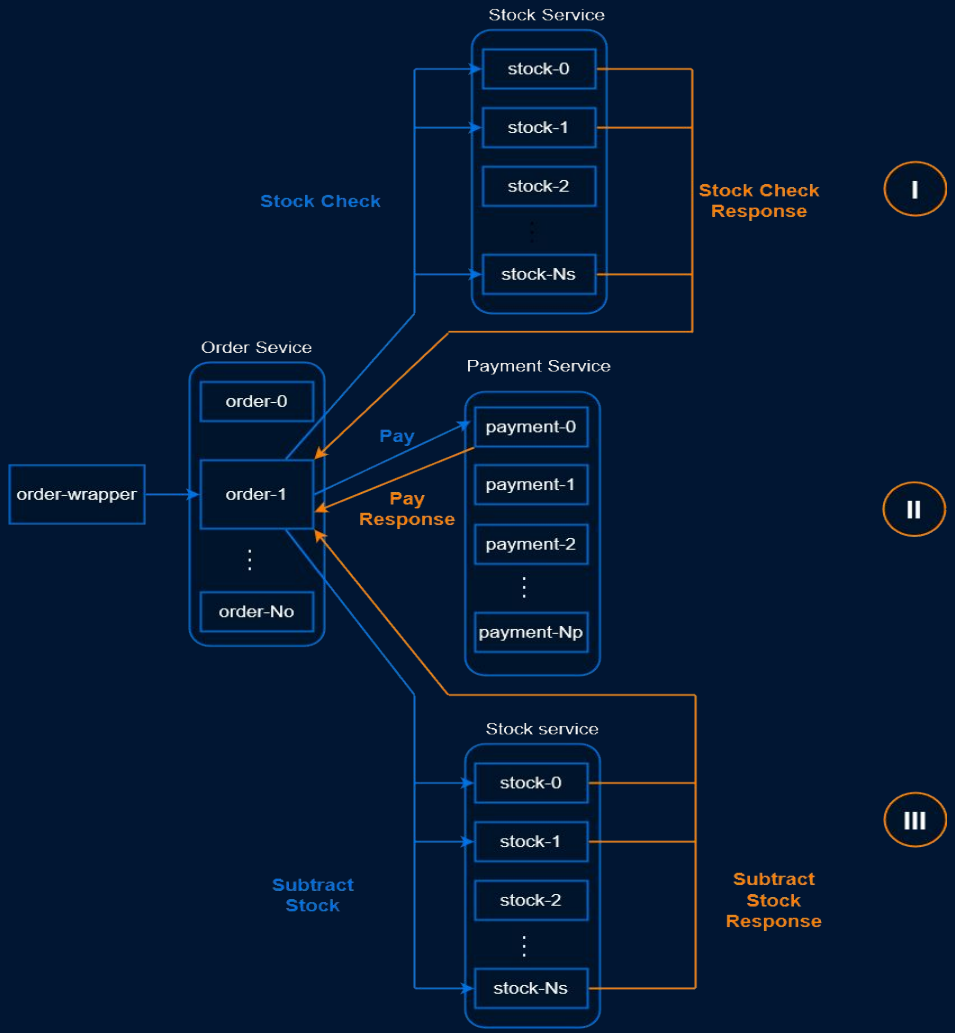

Zookeeper
Kafka
order-0
order-1
stock-0
stock-1
payment-0
payment-1
order-0-db pgpool
order-1-db pgpool
stock-0-db pgpool
stock-1-db pgpool
payment-0-db pgpool
payment-1-db pgpool
m
s
m
s
m
s
m
s
m
s
m
s
order-wrapper
stock-wrapper
payment-wrapper
Ingress



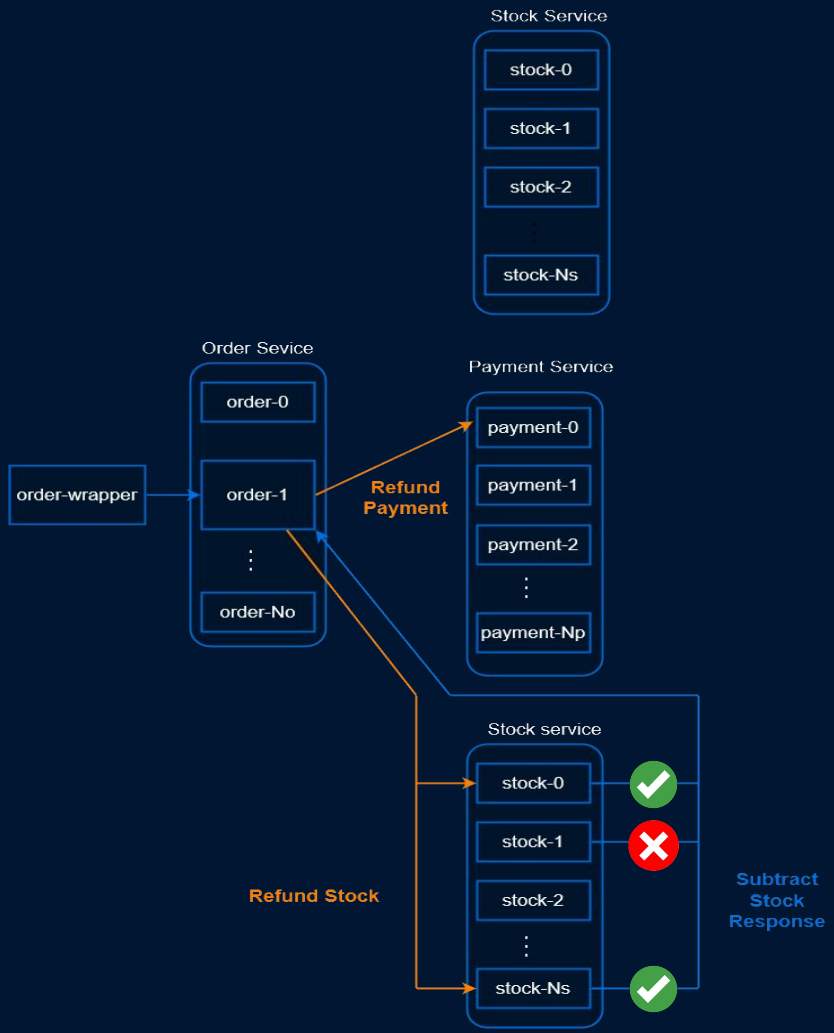
Scalability

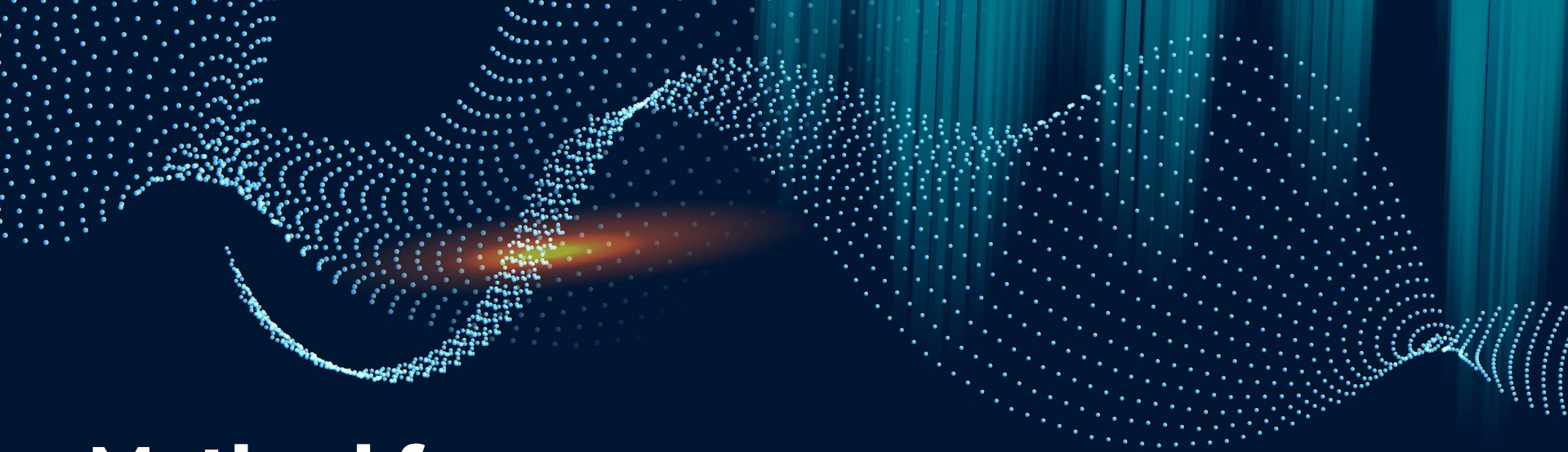
- Data sharding
- Replication
- Streaming

Method of Transaction



Rollbacks


Stock Service
stock-0
stock-1
stock-2
stock-Ns
Order Sevice
order-0
order-wrapper
order-1
order-No
Refund Payment
Payment Service
payment-0
payment-1
payment-2
payment-Np
Stock service
stock-0
stock-1
stock-2
stock-Ns
Refund Stock
Subtract Stock Response



Method for Fault Tolerance

- Replication
- Startup checks
- Re-read last messages
- Idempotence

Results

Consistency

Throughput

THANKS!

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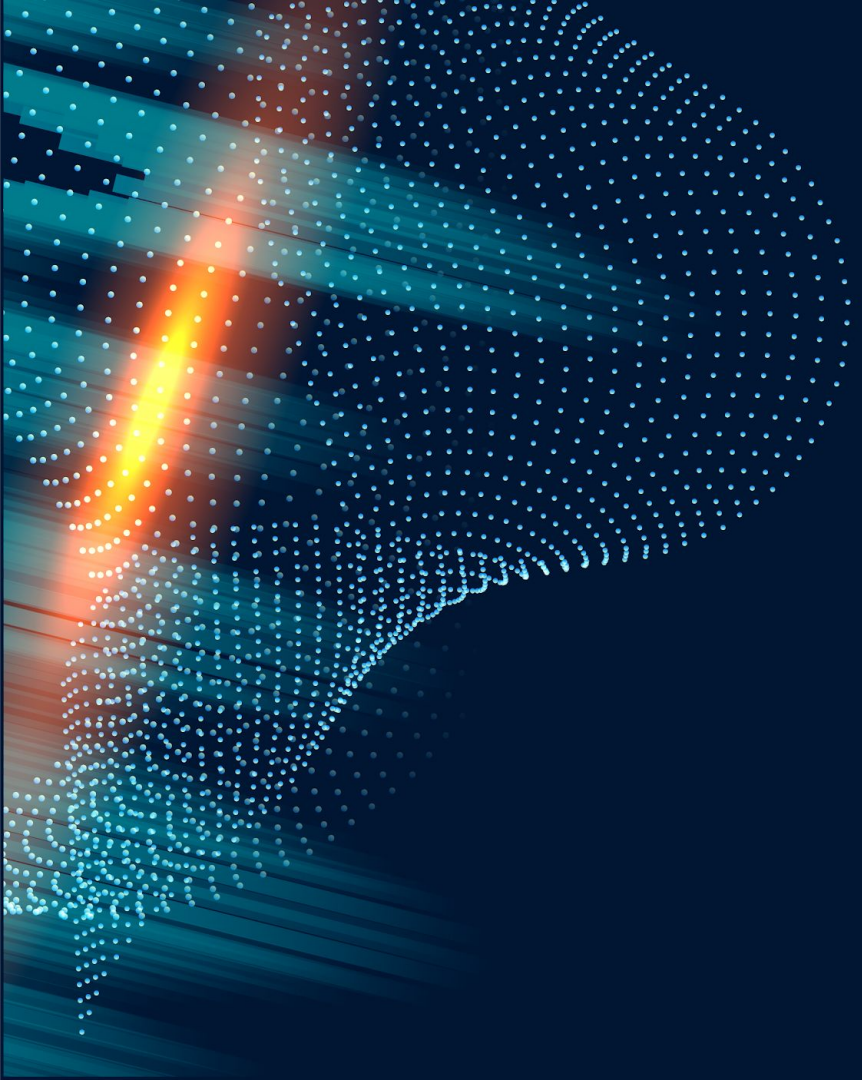

Things we have tried too...Eureka!

- Service Registration & Discovery
- Load balancing
- Integratable with Spring Cloud
- Decided against it for complexity reasons