

CAMUNDA

Camunda

The Universal Process Orchestrator



Camunda - The Universal Process Orchestrator

Orchestrate

Complex process flows across people, systems and devices.

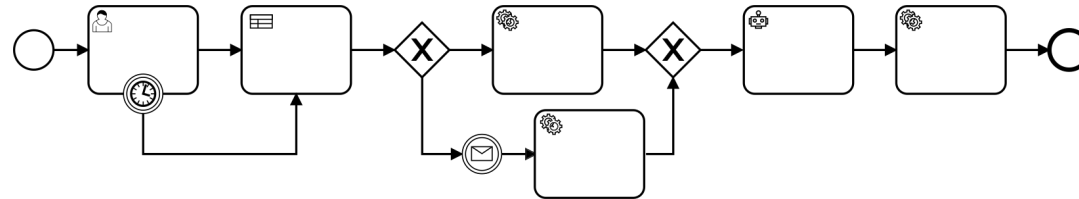
Automate

Any process, anywhere.

Transform

Your organization toward a digital future.

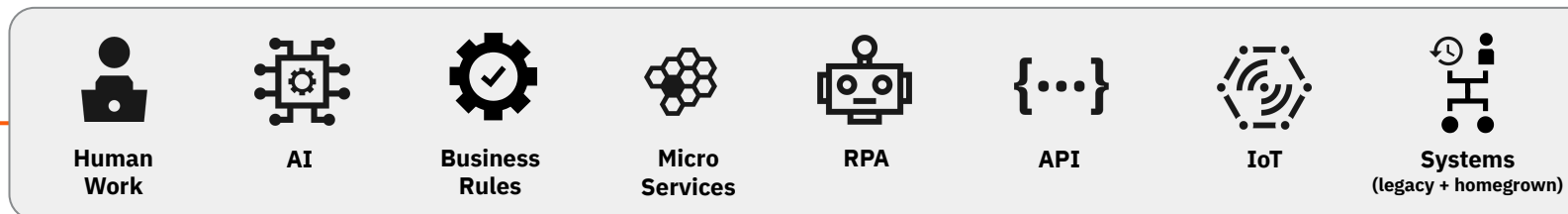
Collaborate



Flexibility



All Endpoints



Camunda Platform: The Universal Process Orchestrator



Design

Developers & business users collaborate to design & deploy processes with Camunda.



Modeler

Model & deploy business process diagrams with BPMN & DMN.

Available via web and desktop app.



Connectors

Out-of-the-box integrations to easily communicate with popular enterprise applications & protocols.



Integration Framework

Build & provision your own connectors to any system including home-grown & legacy applications.



Forms

Drag & drop creation of forms that power workflows that require human interaction.

Automate

Enterprise-grade automation platform. Built for today's business complexity, loved by developers.

POWERED BY ZEEBE



Workflow Engine

Next-generation, cloud-native BPMN workflow engine that unlocks unparalleled speed, scale & resilience.



Decision Engine

Automate decisions in end-to-end business processes via DMN.



Tasklist

Assign and execute tasks that require human interaction via easy-to-use Forms or via your own apps with the Tasklist API.



Operate

Real time visibility to monitor, analyze and resolve problems with any process instance.

Improve

Teams have the insights to fix the highest ROI problems for their business processes.



Optimize

Get the insights you need to understand and continuously improve your business processes.

Demo Scenario



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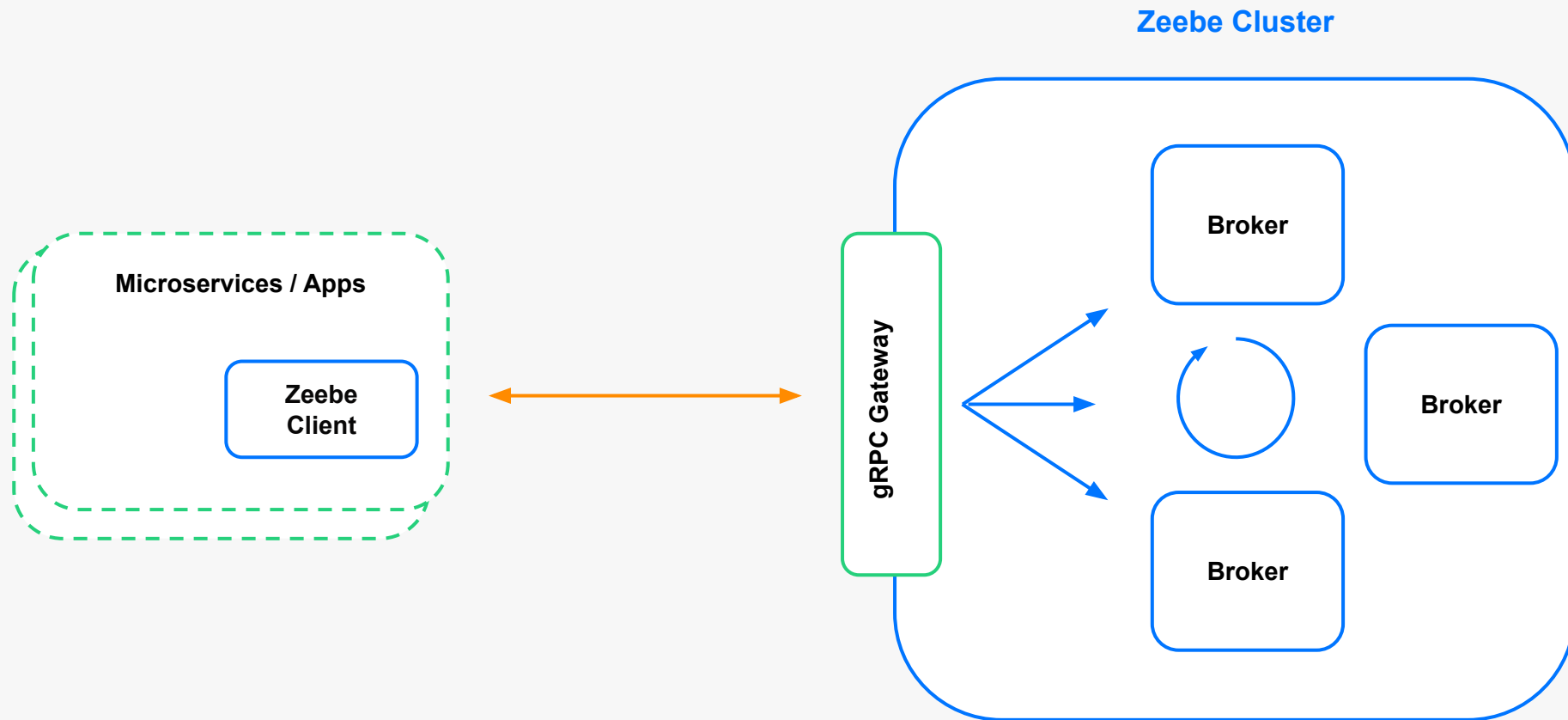
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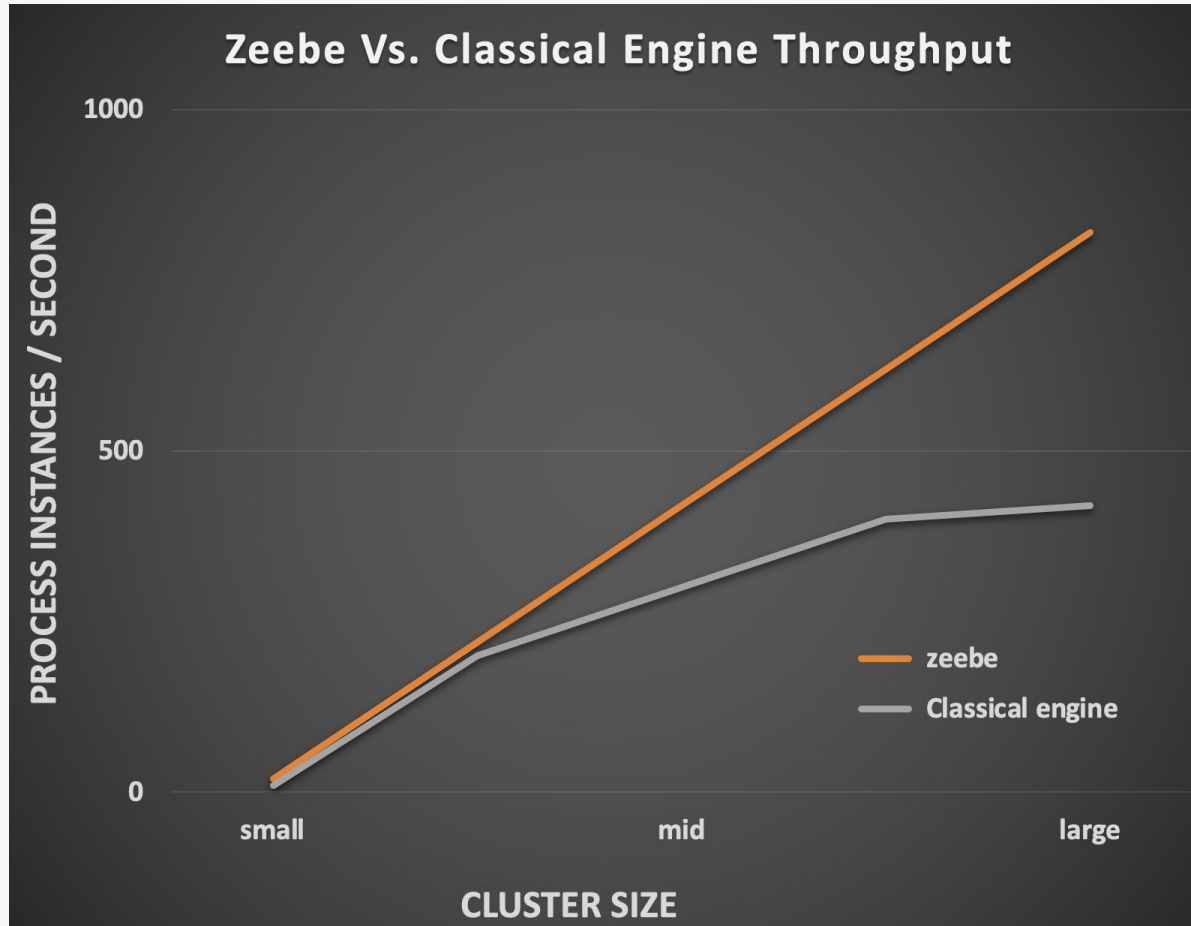
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Camunda High-Level Architecture



Performance compared to traditional designs



- Designed to accommodate high throughput use cases out-of-the-box
- No relational database bottleneck
- Linear performance scaling



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**Orchestrate across
every endpoint.**



**Bring IT and the
business together.**

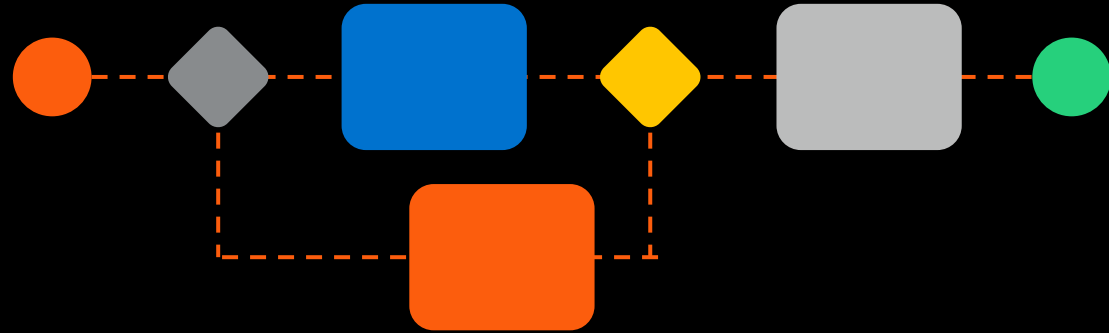


**Get unparalleled speed,
scale and resilience.**



About CAMUNDA

Orchestrate. Automate. Transform.



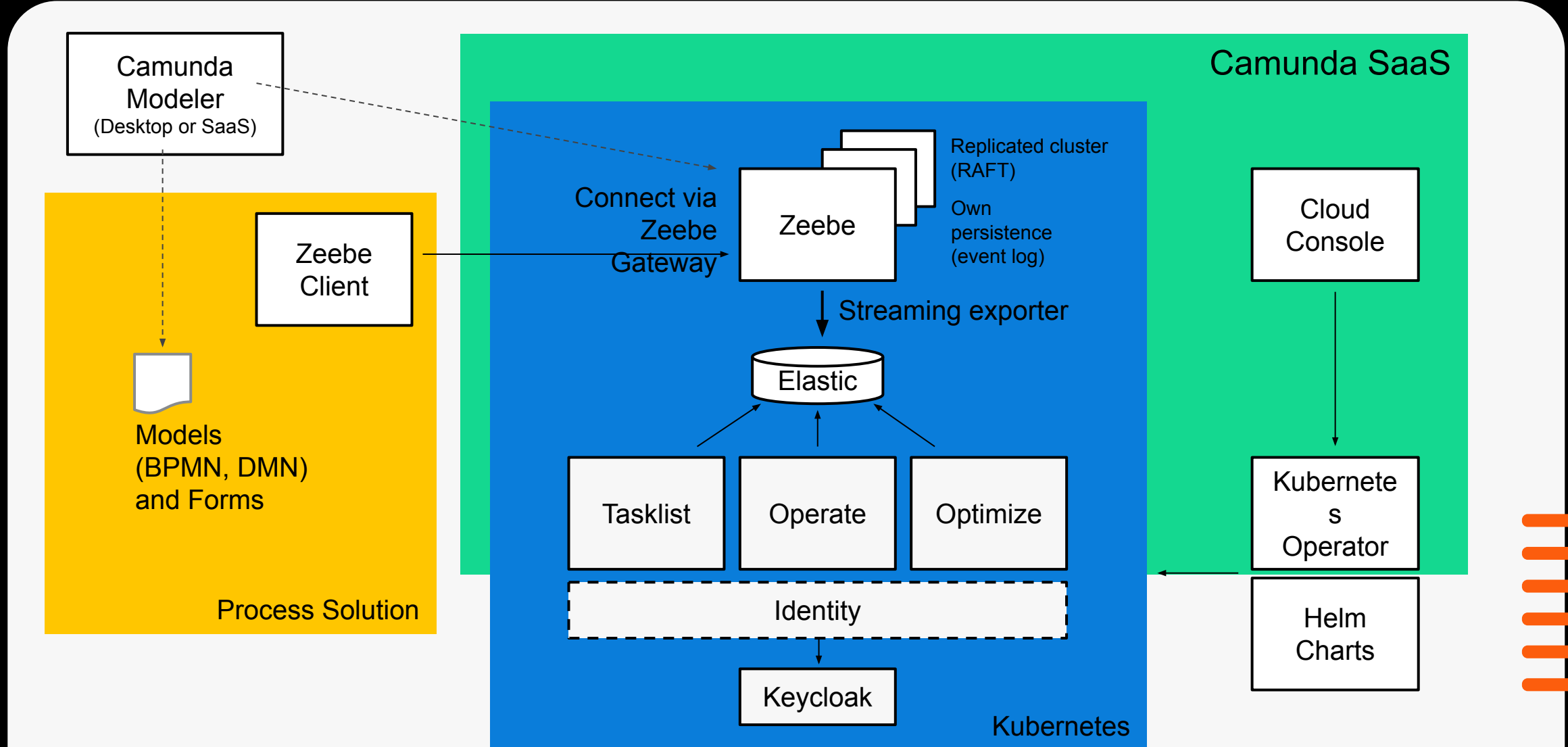
Questions?

CAMUNDA

Appendix



Camunda 8 Components & Architecture



Secure Platform



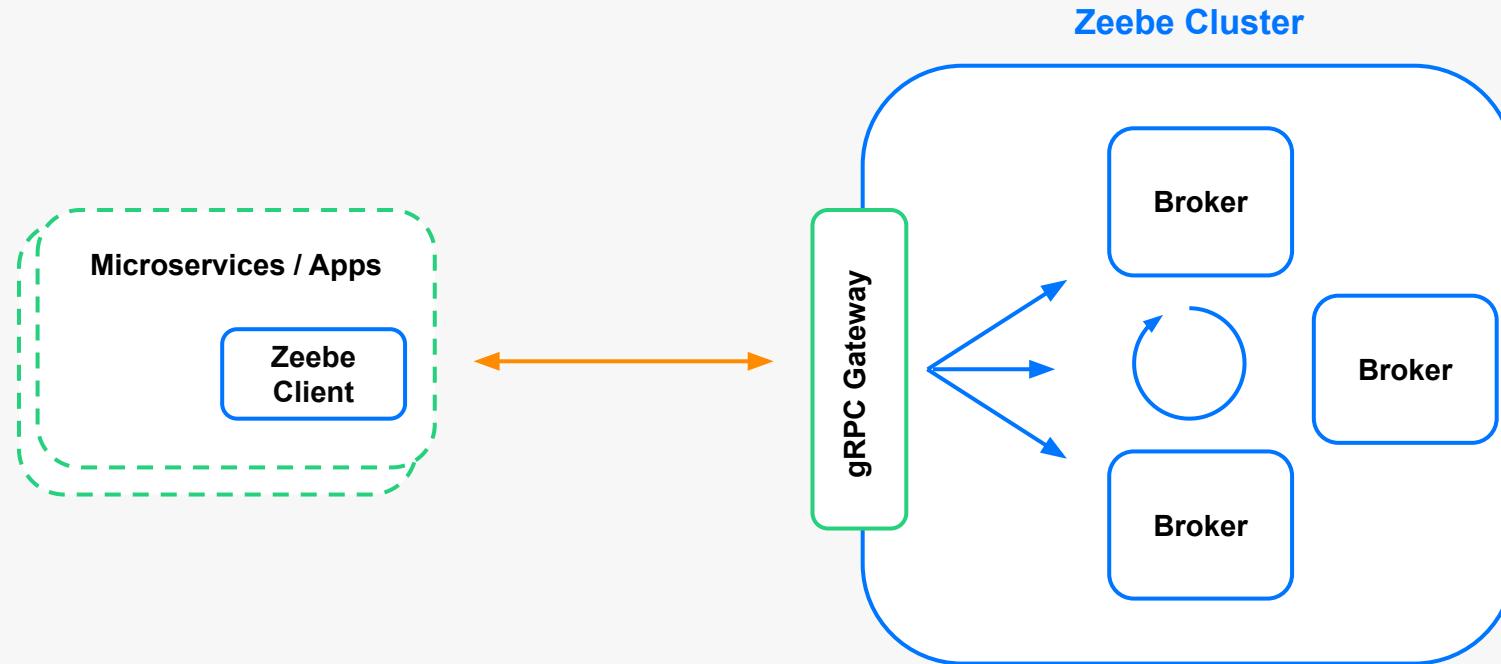
- Cloud Instance Isolation
- Physical and Logical Access Controls
- Data Encrypted In-flight & At-Rest
- Multi-region Geographic Redundancy,
High Availability
- ISO 27001 Certified
- GDPR Compliant
- Regular Penetration Tests
- Formal BCDR plans
- Planned SOC 2 Type 2 Certification

Data Persistence & System Resilience



- Failover and data replication protocols (Raft) ensure resilience without sacrificing performance
- 99.5% uptime guaranteed for SaaS model
- Can be deployed across multiple data centers

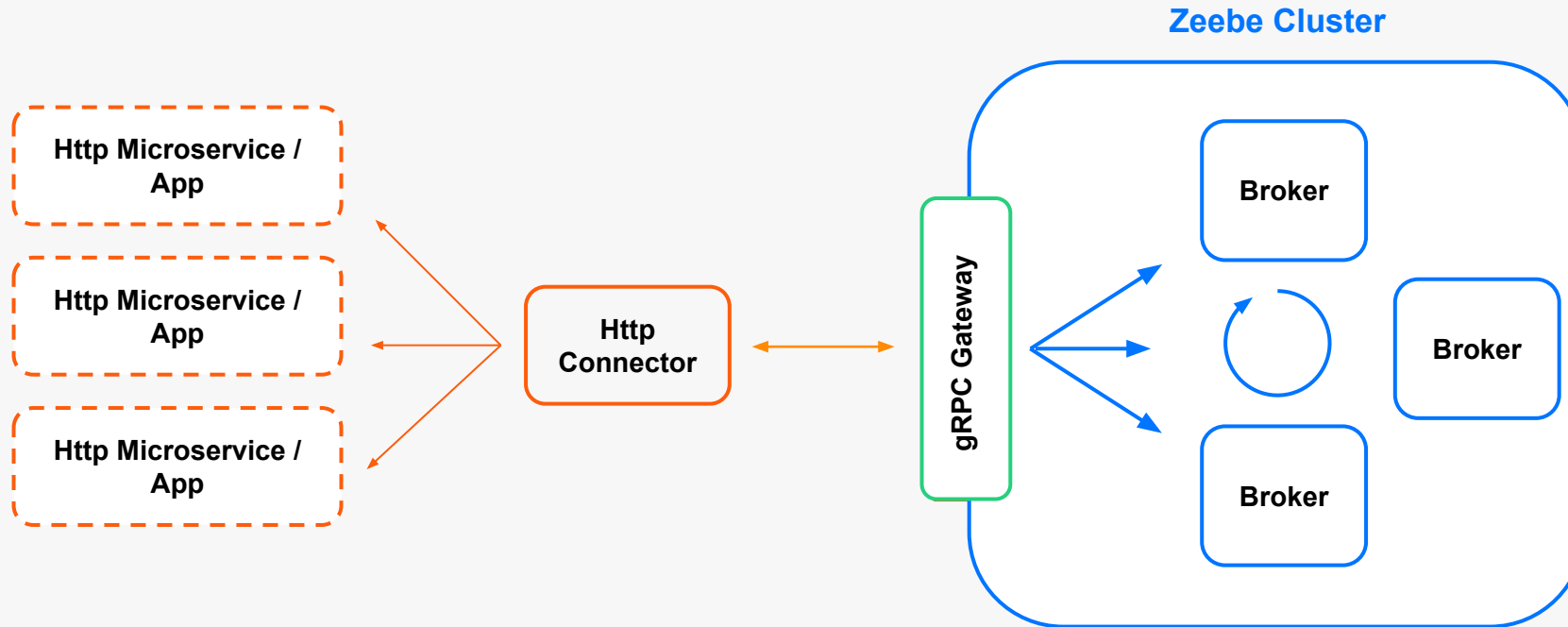
Camunda Platform 8 Is Built For Microservices



Option 1: Embed Zeebe Client directly into Microservice

List of [available clients](#)

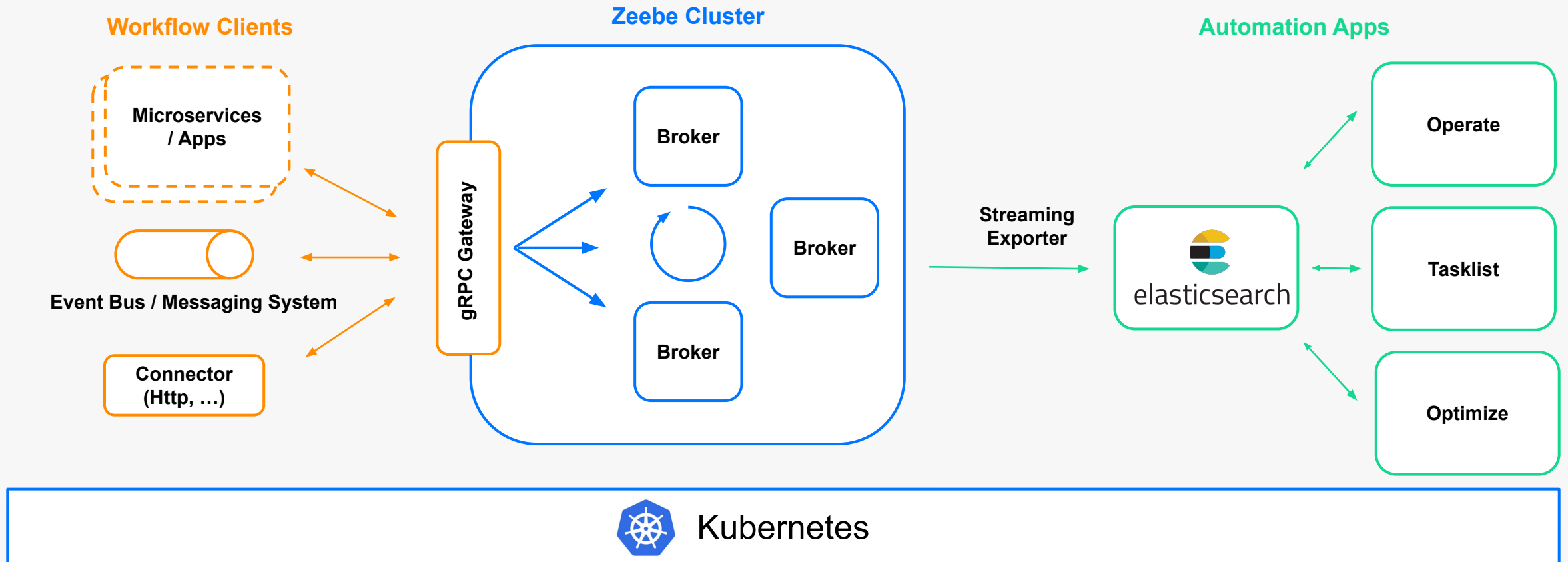
Camunda Platform 8 Is Built For Microservices



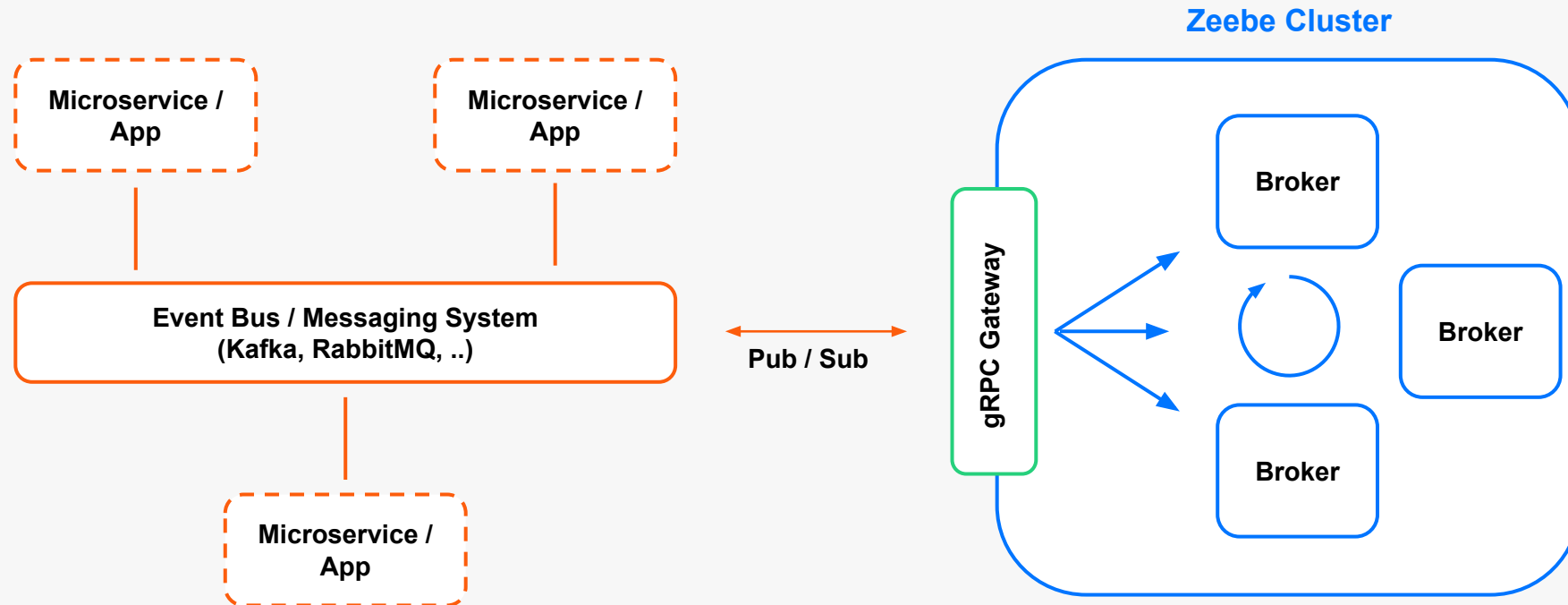
Option 2: Use Generic Connector (HTTP, AWS Lambda, ...)

Example on [Github](#)

Architecture: Camunda Platform 8 Cluster



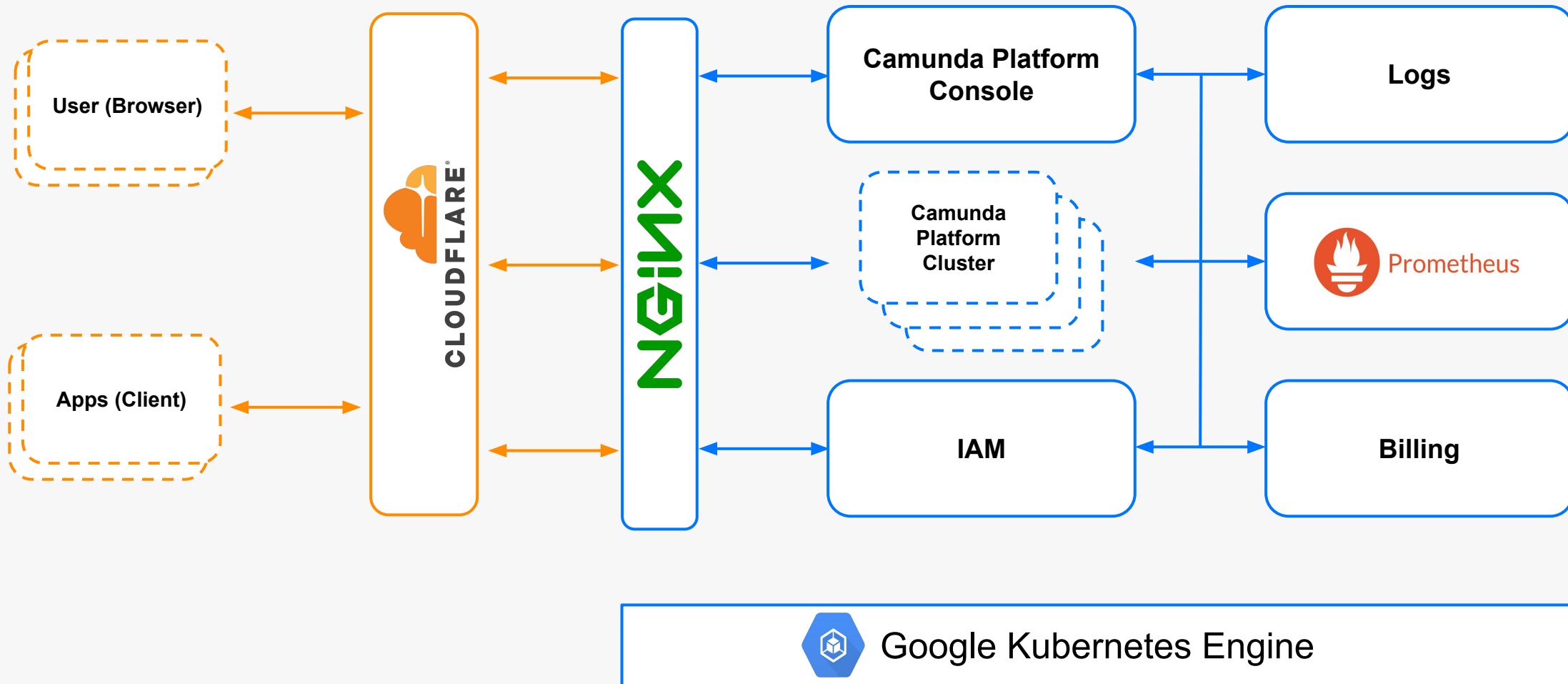
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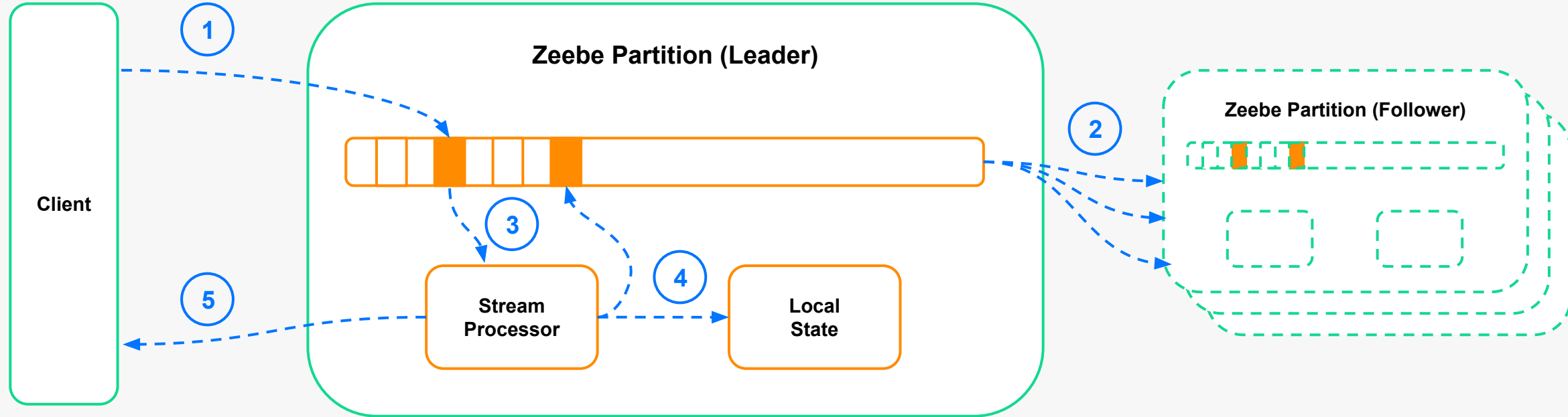
Option 3: Zeebe as State Machine in Event Driven Microservices Architecture

Read more in this [Blogpost](#)

Technical Deep Dive: SaaS Architecture



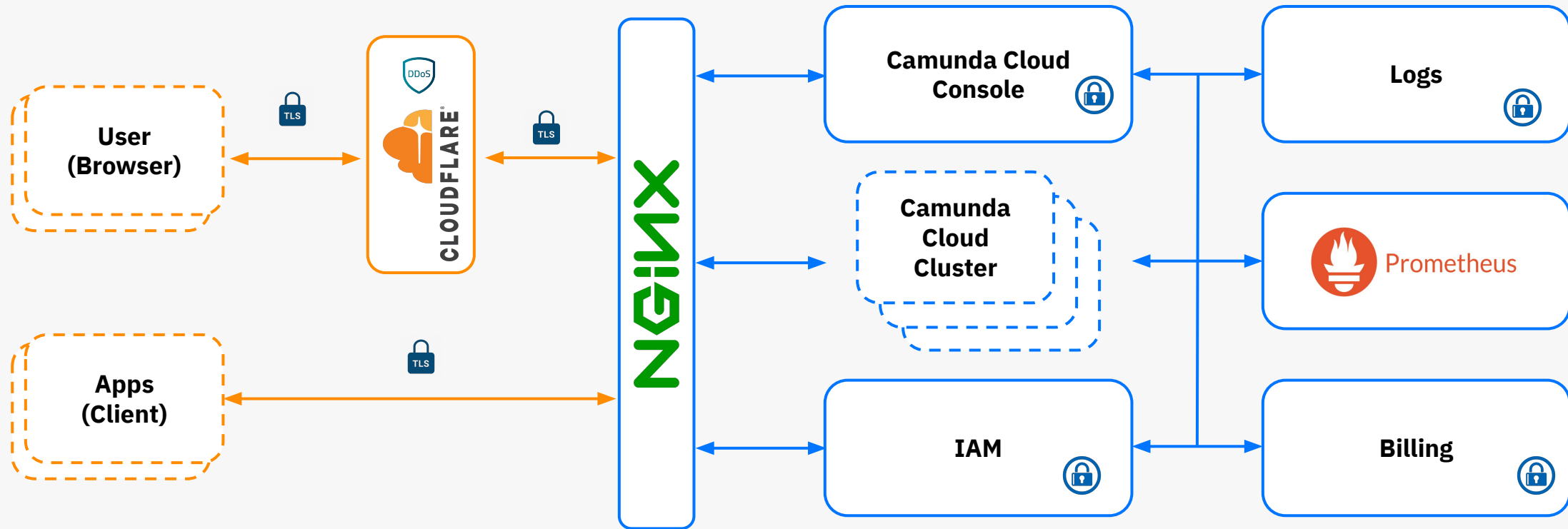
Technical Deep Dive: Scaling Zeebe






- 1** Send & Append Command
- 2** Replicate & Commit Command
- 3** Validate & Process Command
- 4** Apply to State & Write Event
- 5** Send Response

SaaS Architecture

All images based on
GCP hardened images

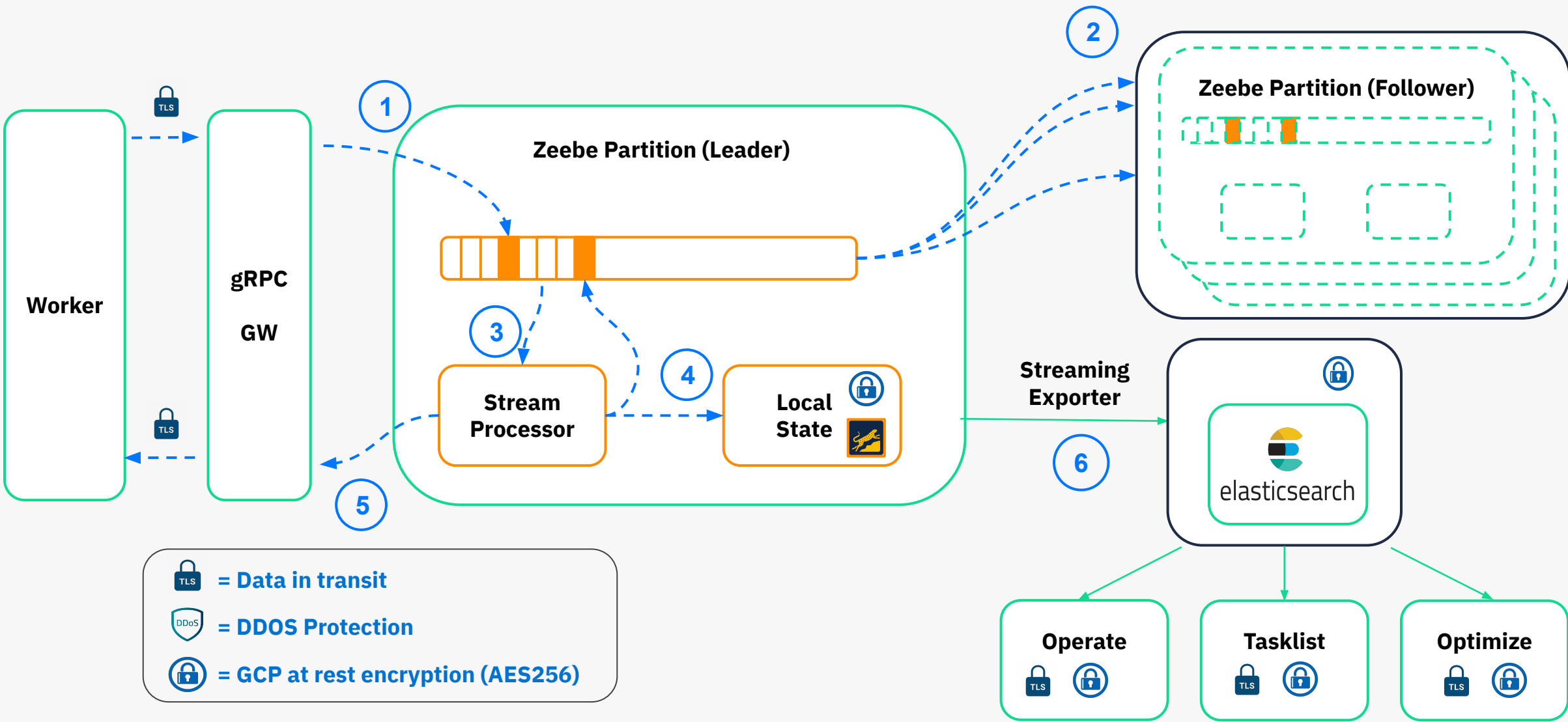


-  = Data in transit
-  = DDOS Protection
-  = GCP at rest encryption (AES256)



Google Kubernetes Engine

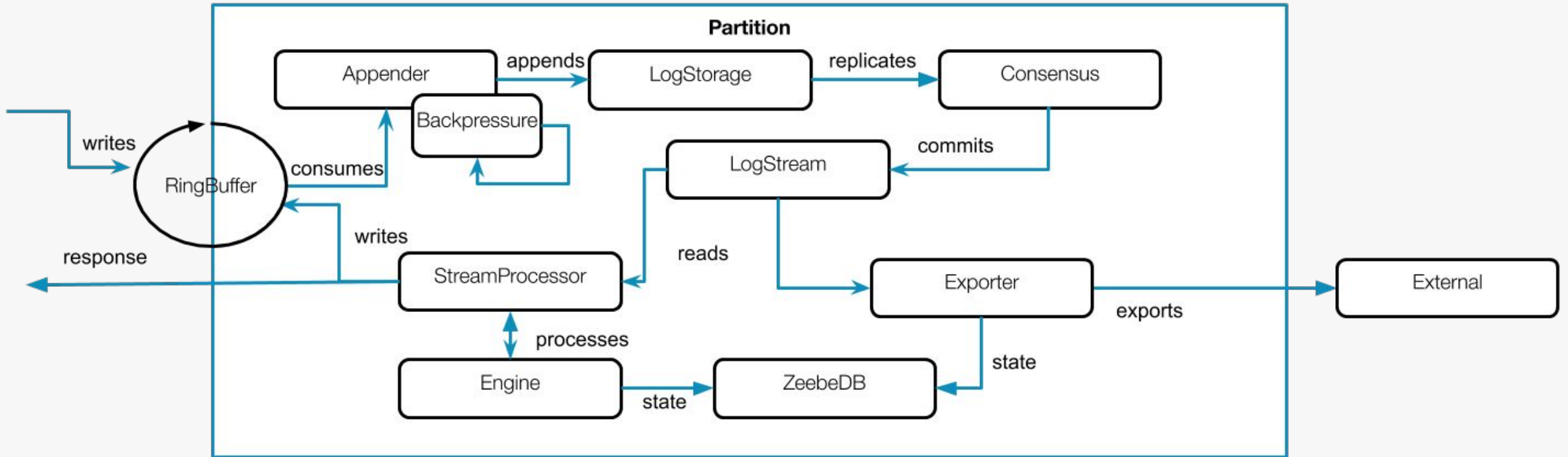
C8 SaaS Data Flow



- 1** Send & Append Command
- 2** Replicate & Commit Command
- 3** Validate & Process Command
- 4** Apply to State & Write Event
- 5** Send Response
- 6** Stream Export

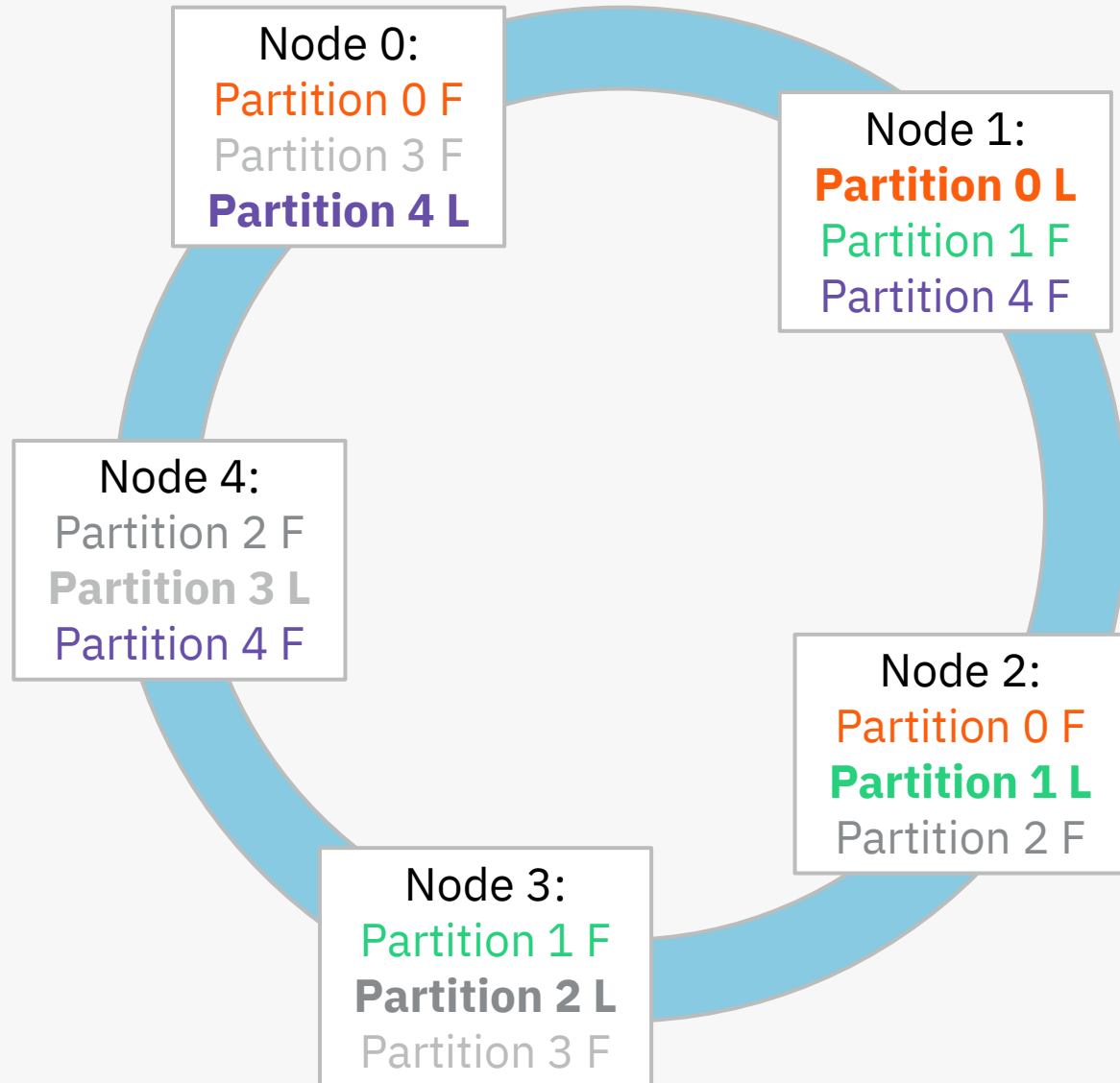
Lifecycle of a Command

Zeebe - Partition Components*



*This reflects only command lifecycle

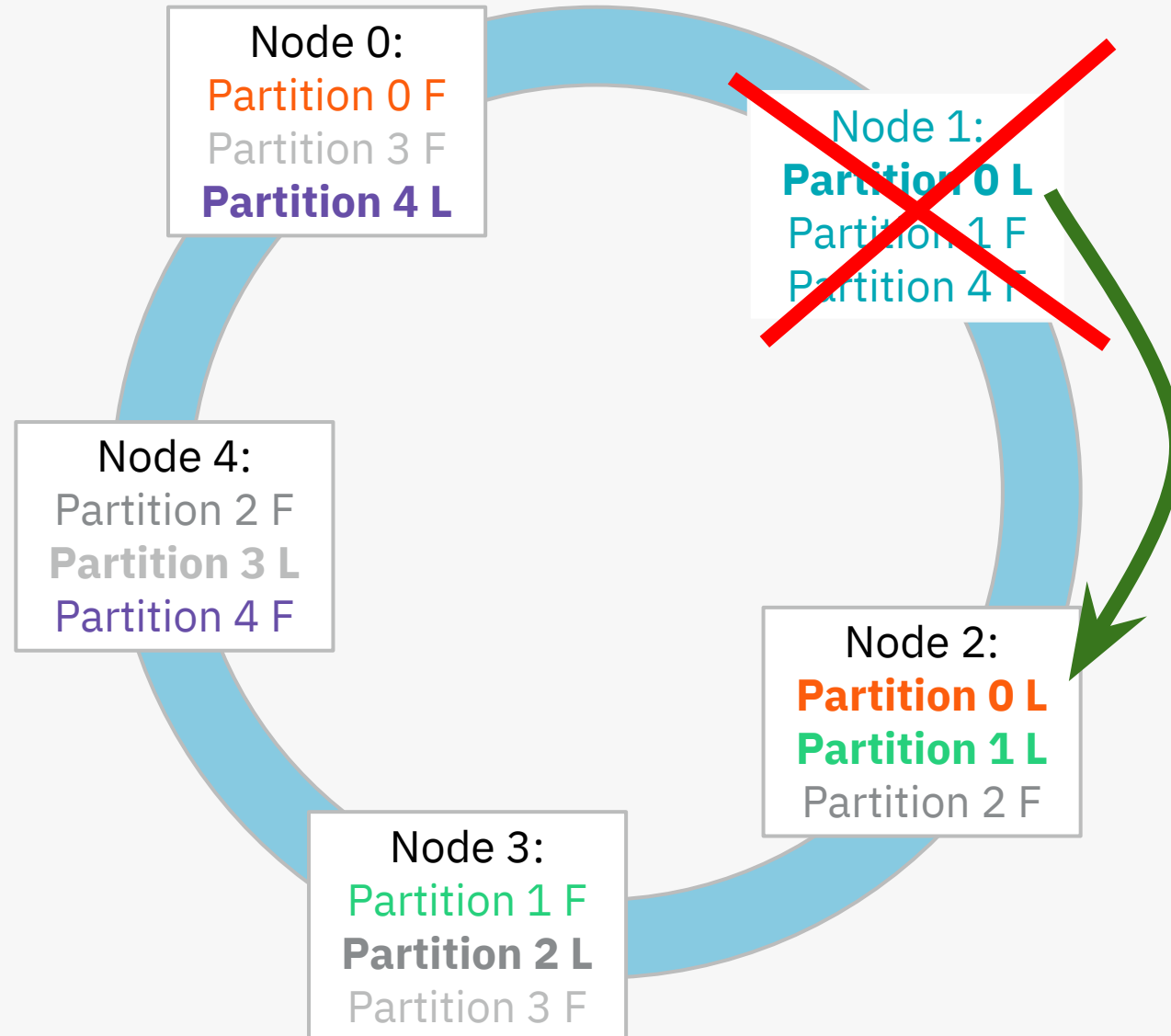
Partitions (Shards) and Replication using Raft



Example:

- 5 cluster nodes (= Brokers)
- 5 partitions
- replication factor 3
- **L = Leader**
- F = Follower

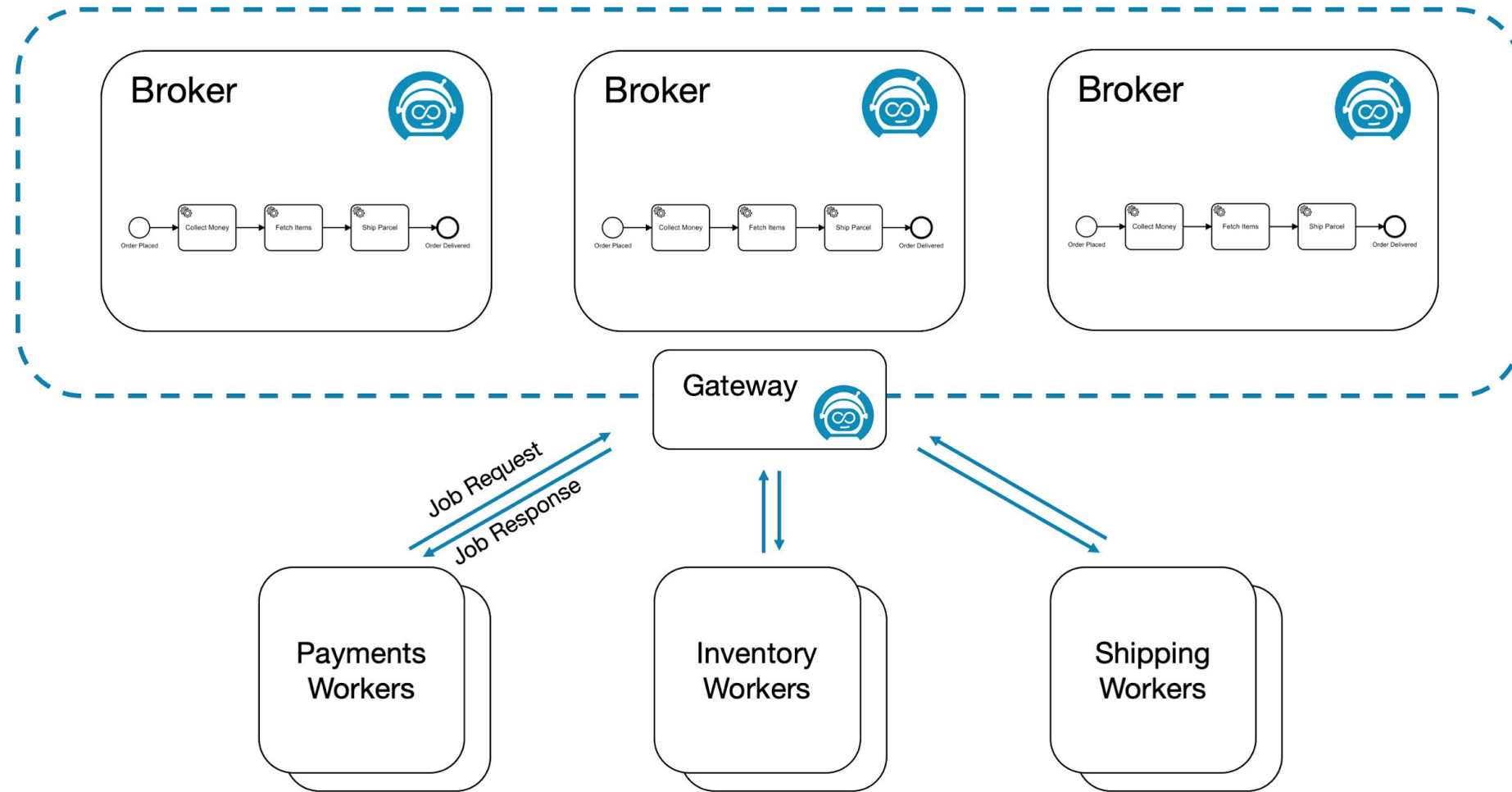
Fail-over though electing a new Leader



Example:

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External Services: Requesting Work, Completing Work



External Tasks

