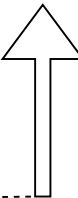
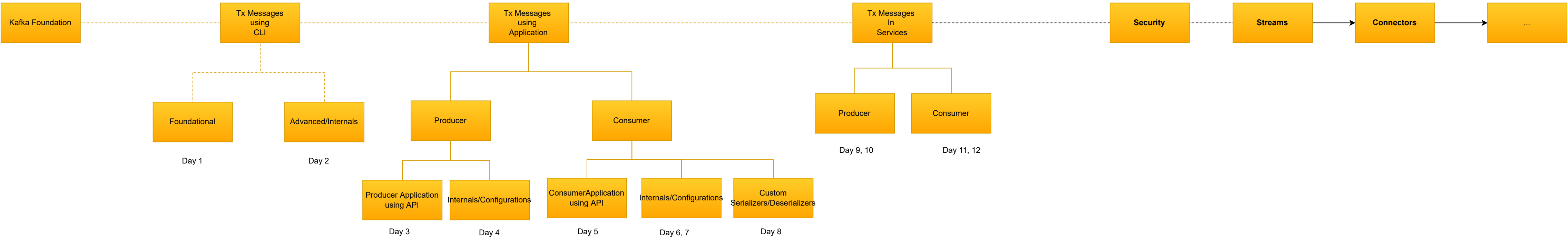
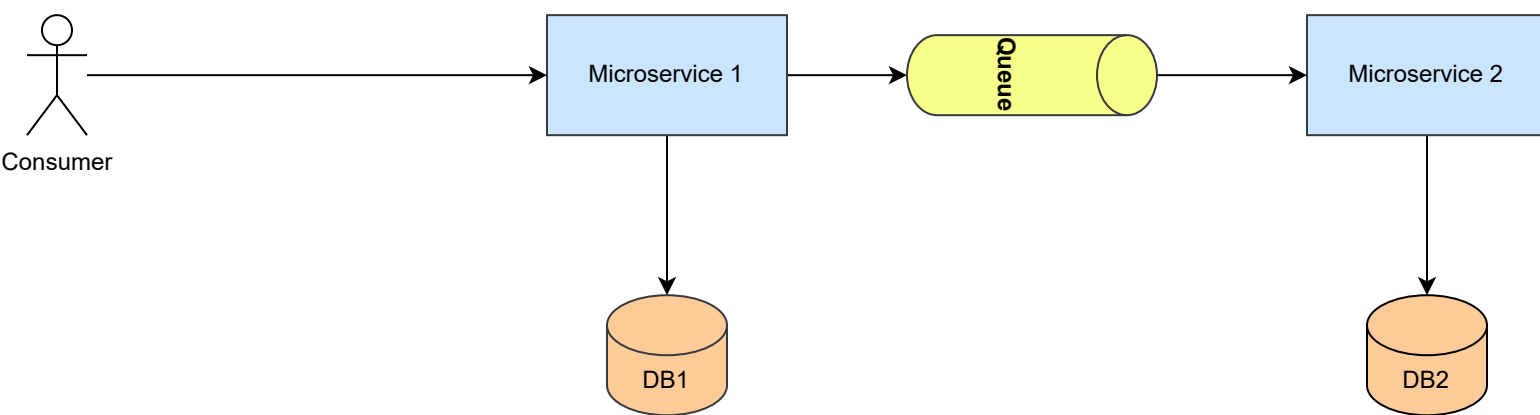
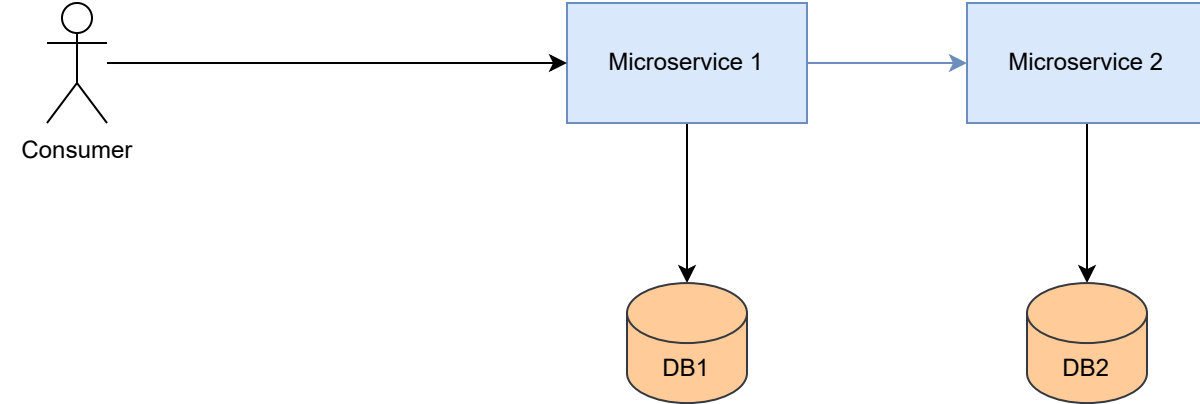


Teaching Principle

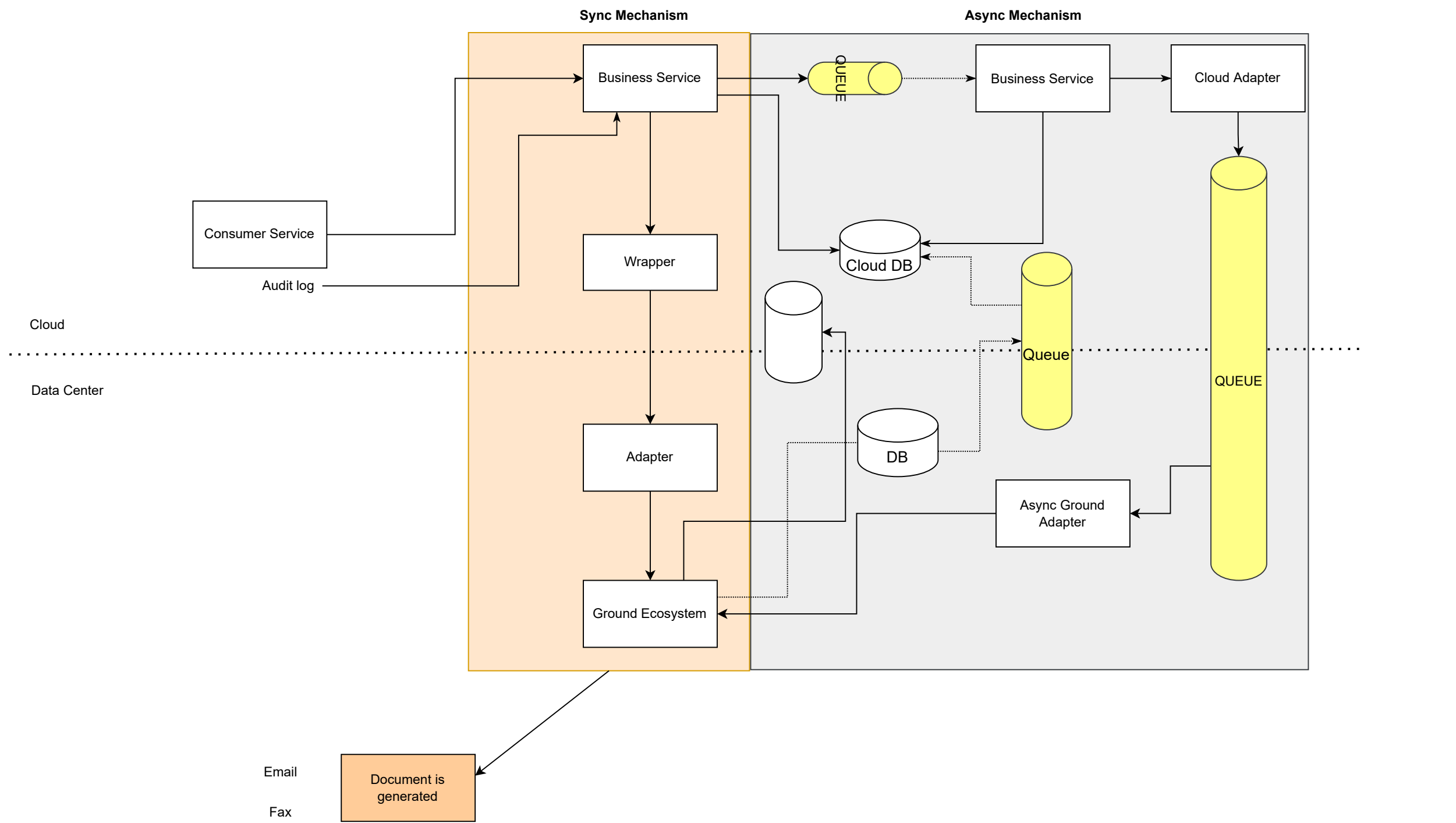
Concept(s)
Concept Enriching Hands On
DIY Exercises

Learning Map

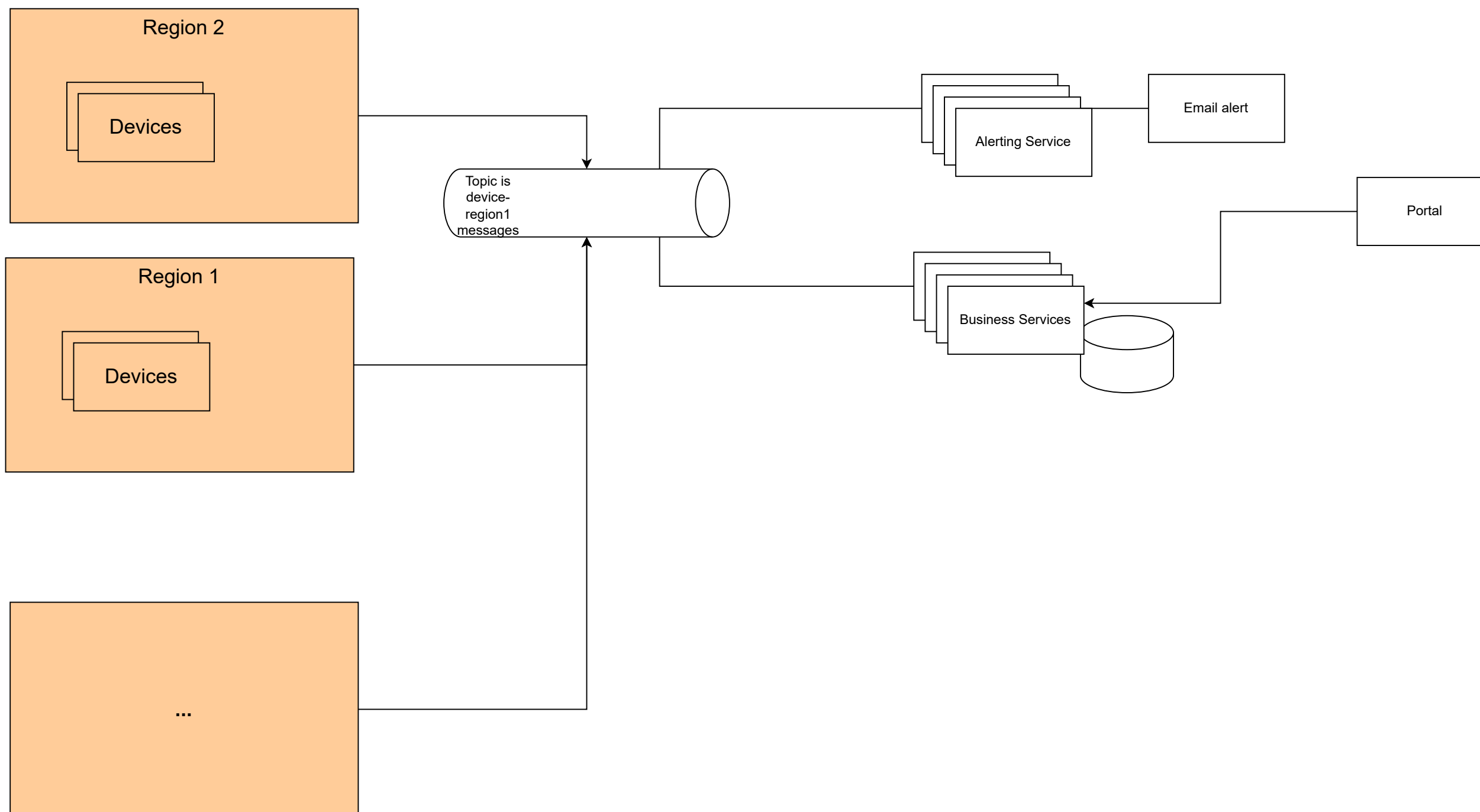




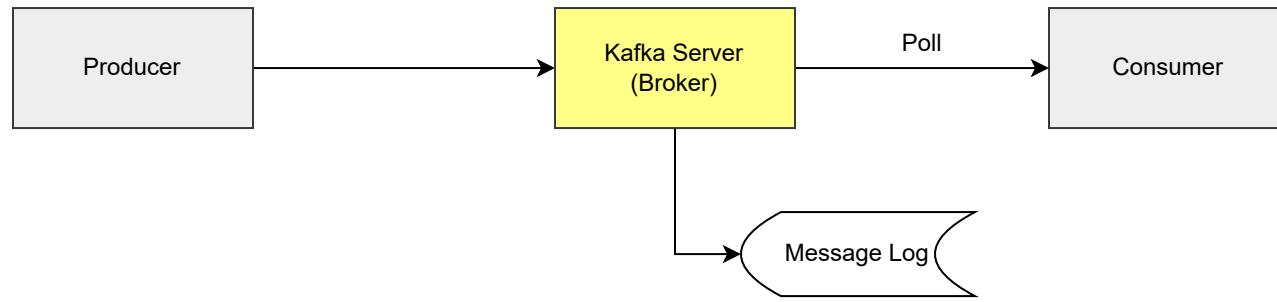
Use case 1



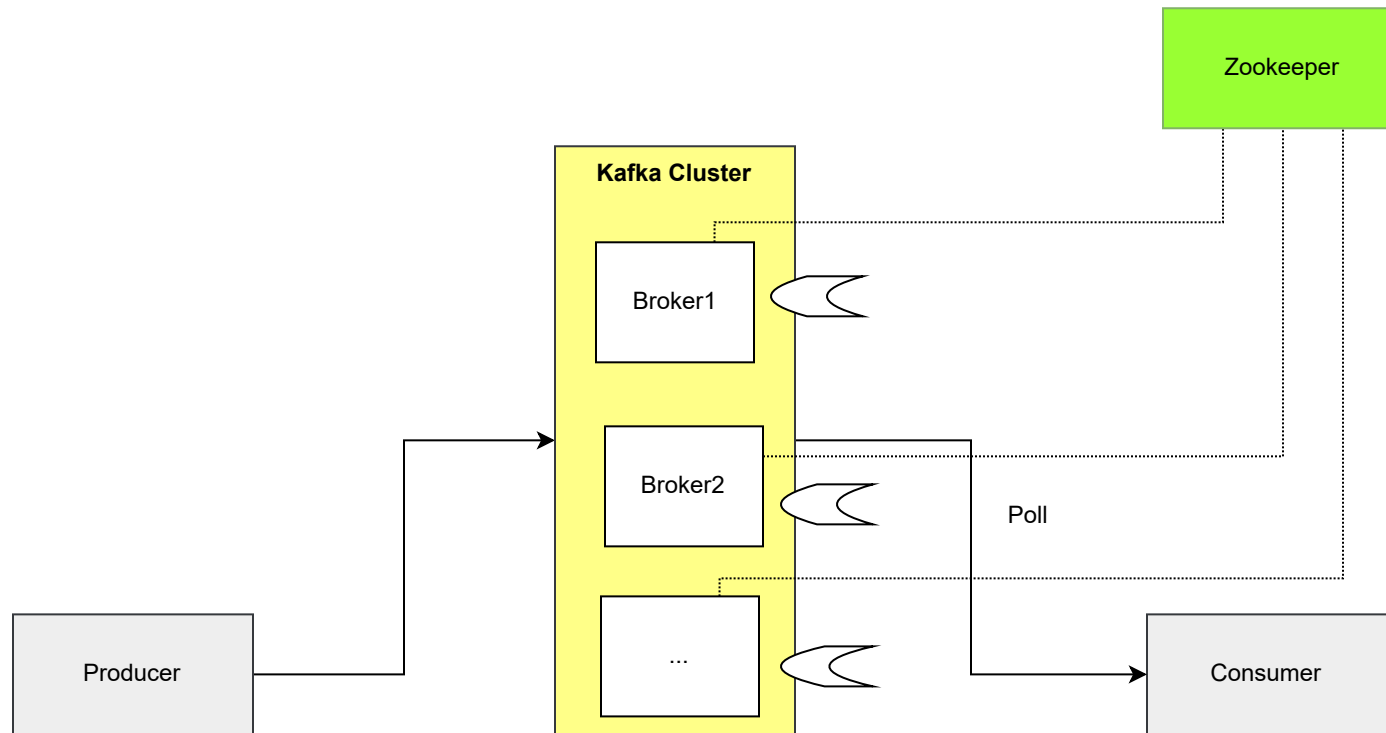
Use case 2



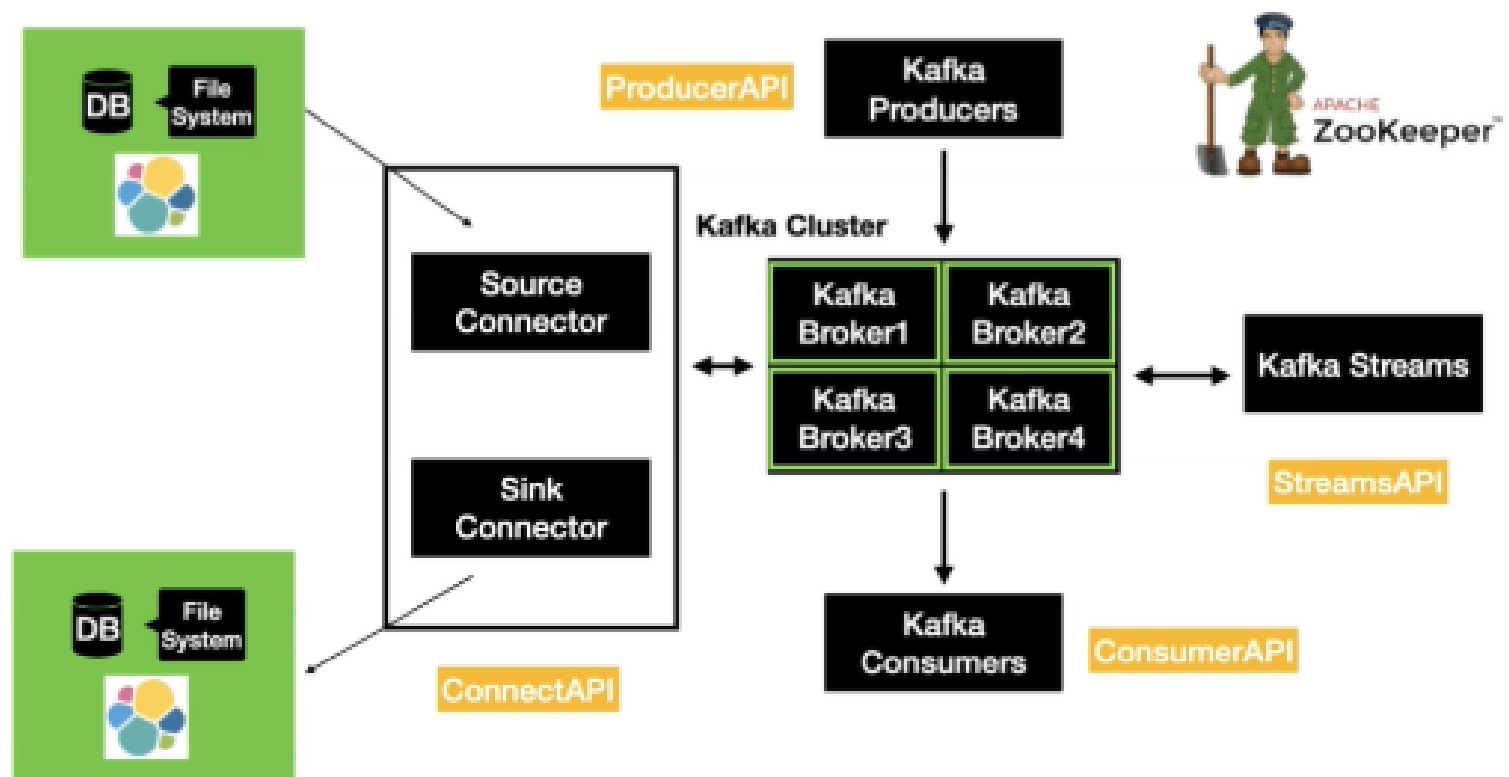
Basic Topology



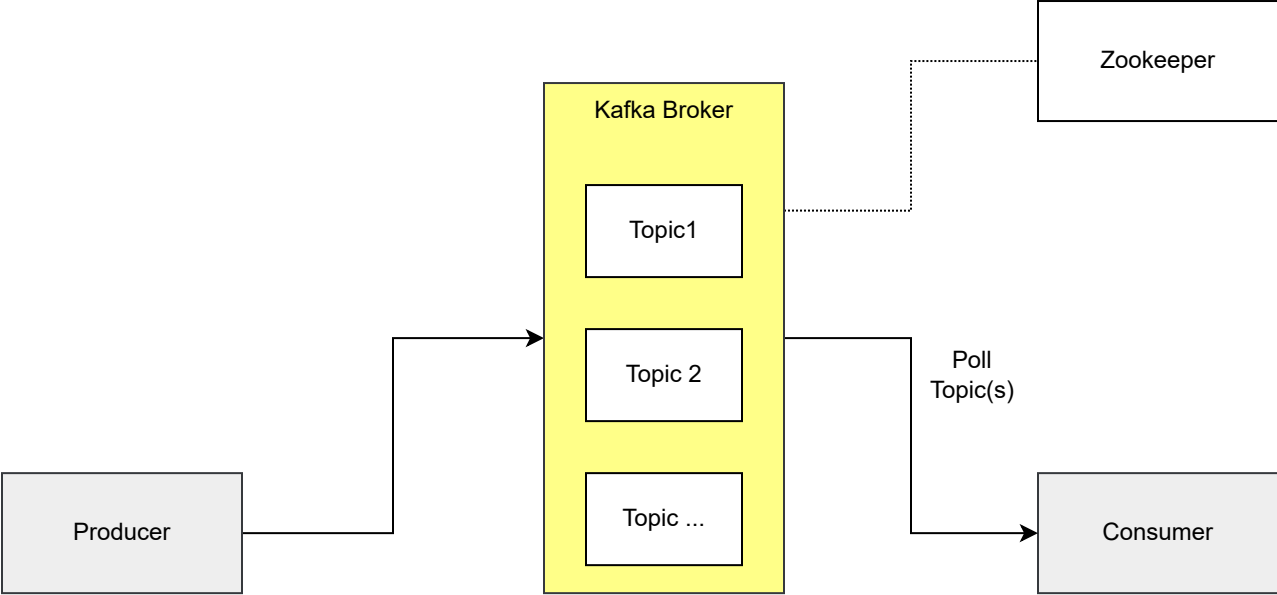
Distributed Topology



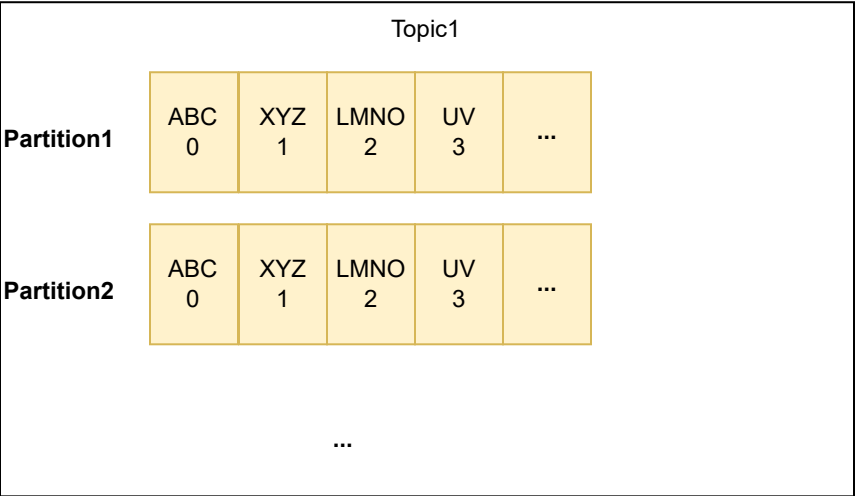
Kafka Landscape



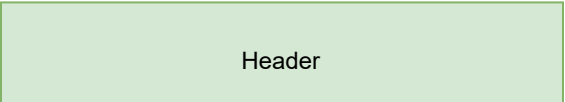
Broker Anatomy



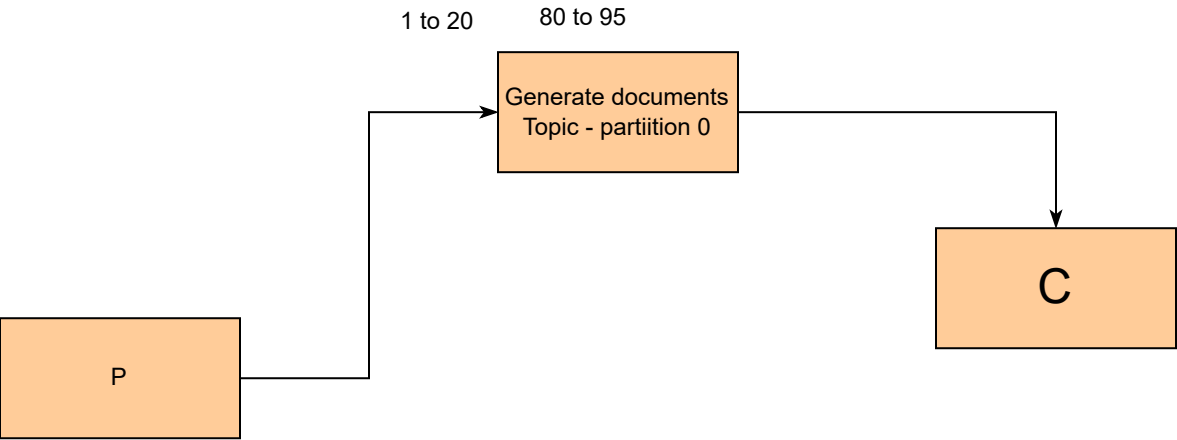
Topic Anatomy



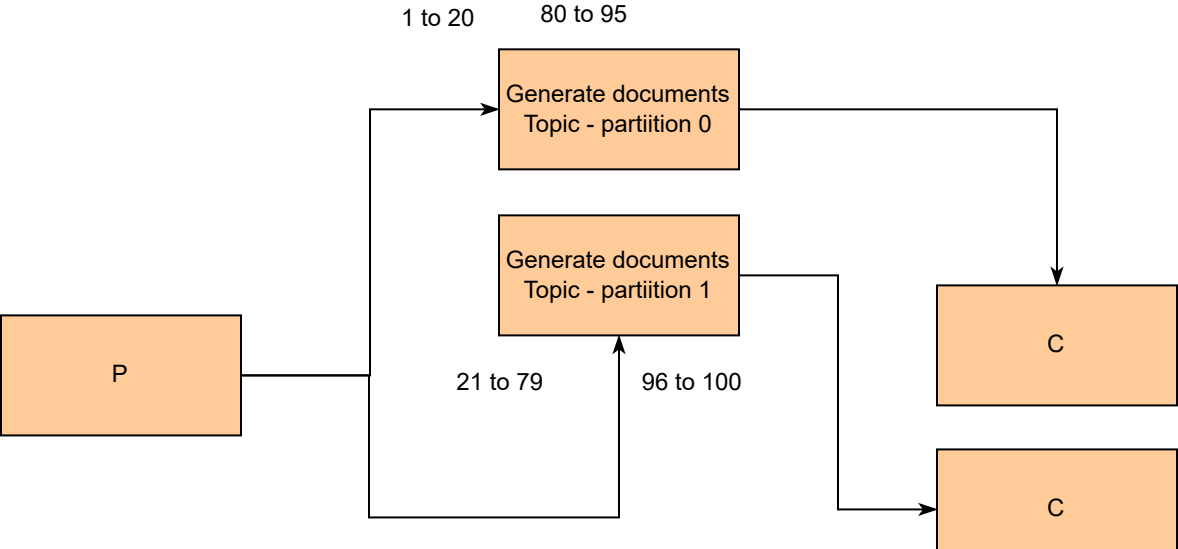
Message Anatomy



Topic-Same



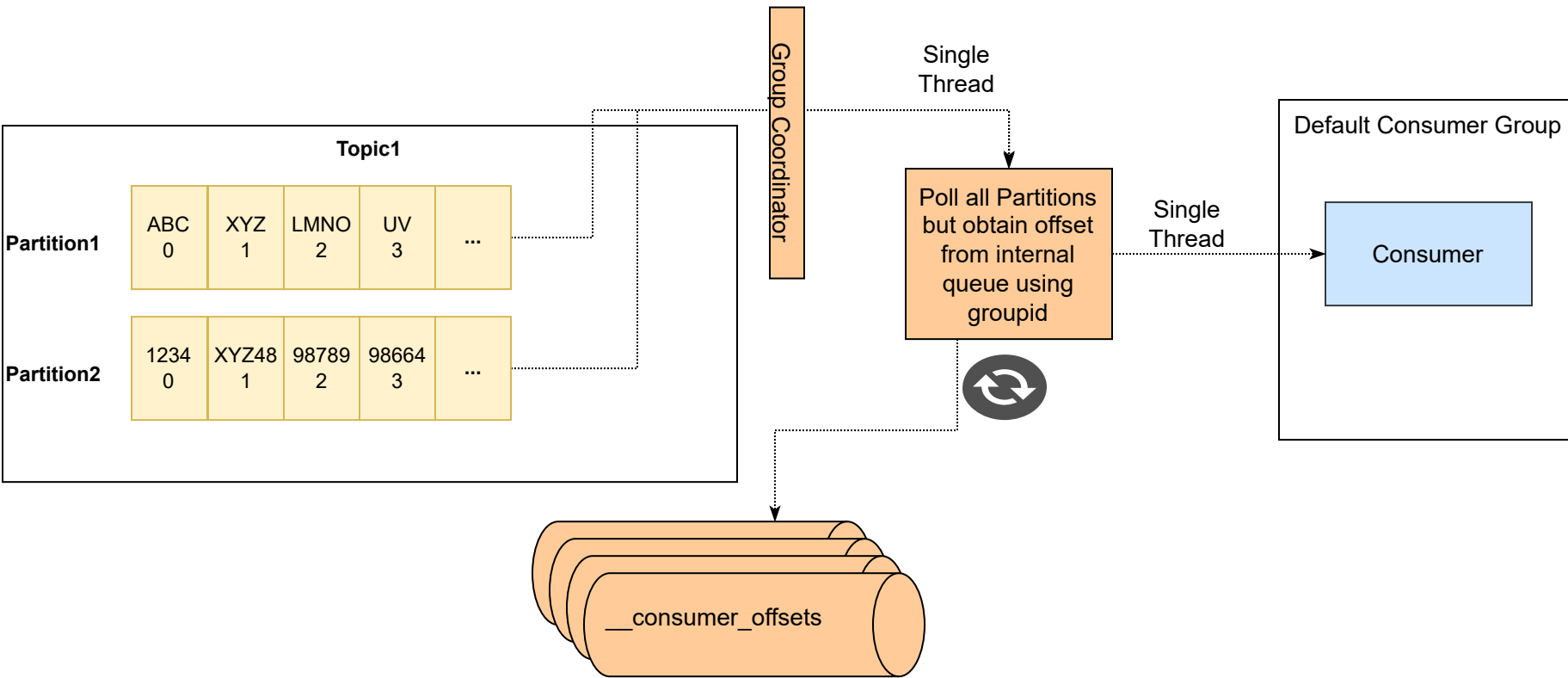
Topic-Same



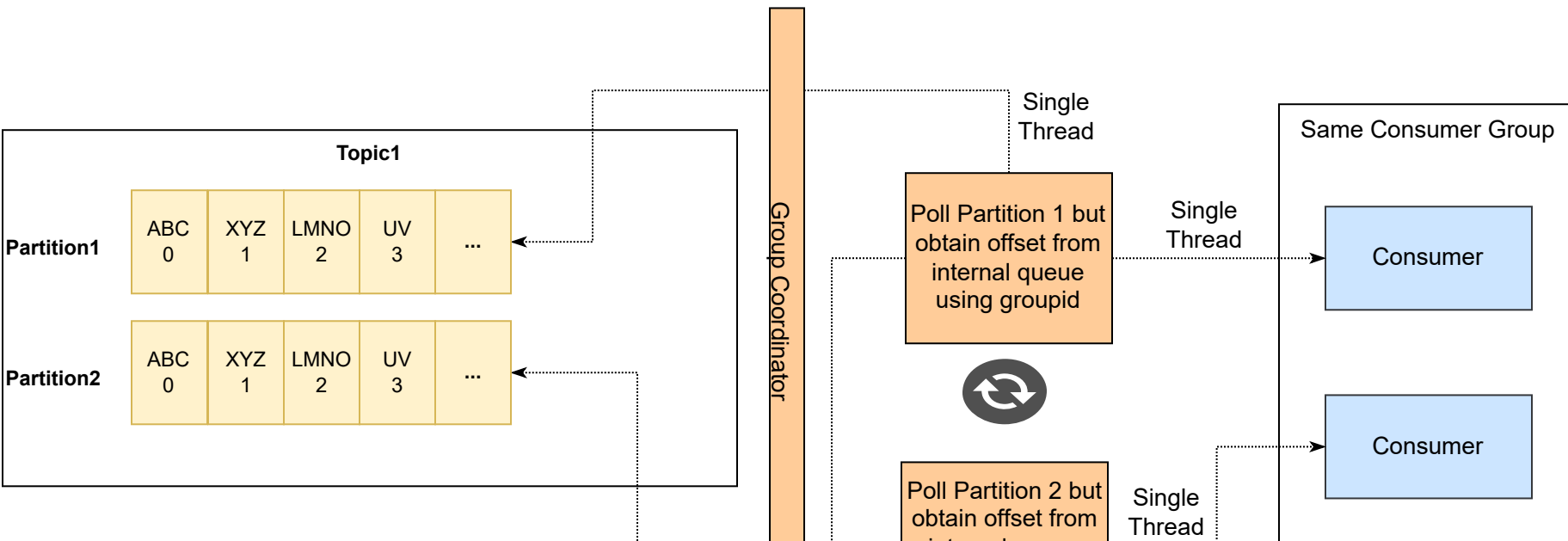
Key(optional)
Value
Timestamp

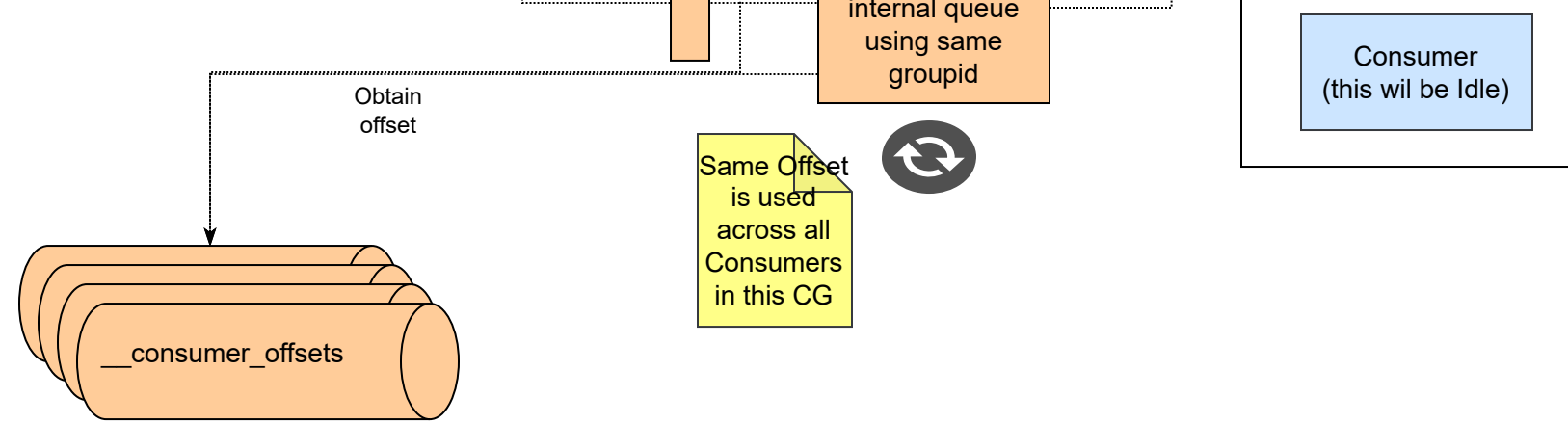


Default Consumer Group

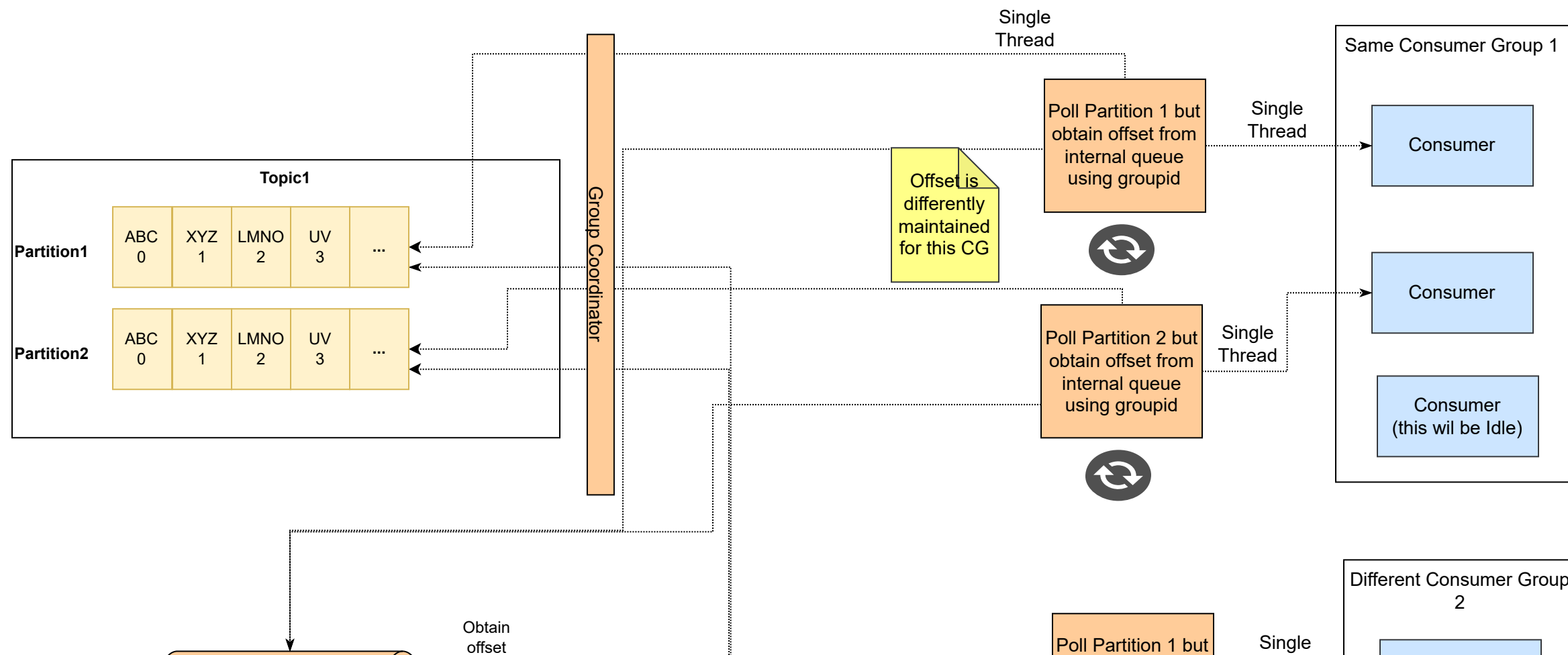


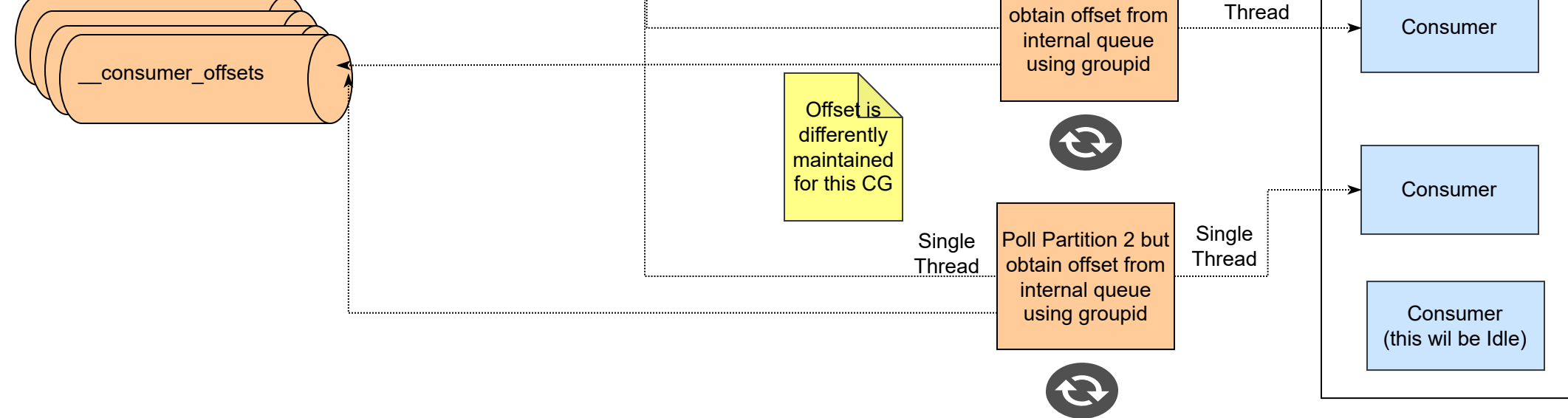
Using same Consumer Group to Read Messages at Scale



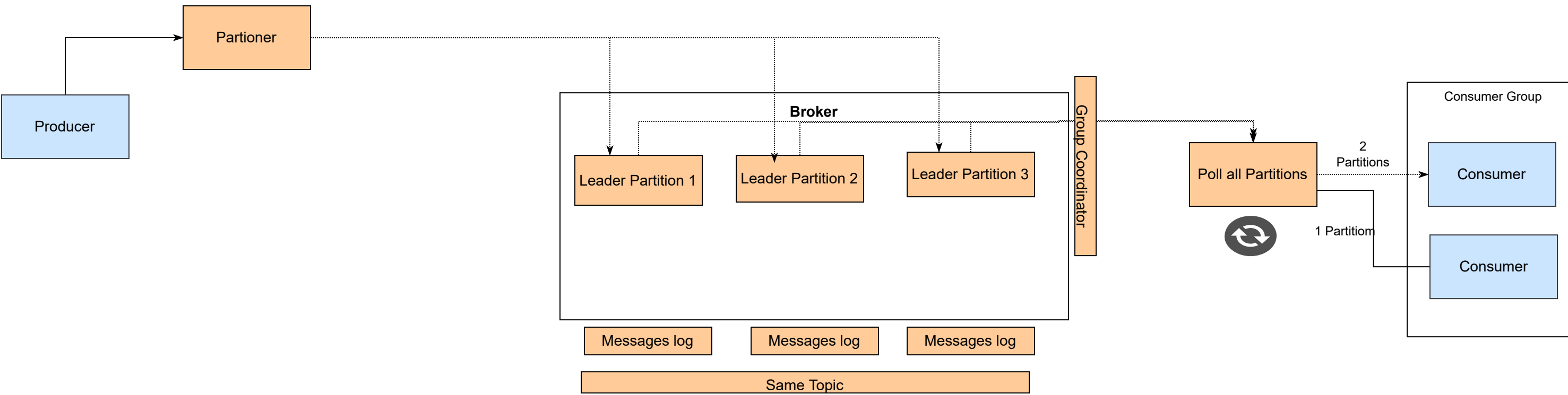


Using Different Consumer Group to Read Messages From Same Topic at Scale

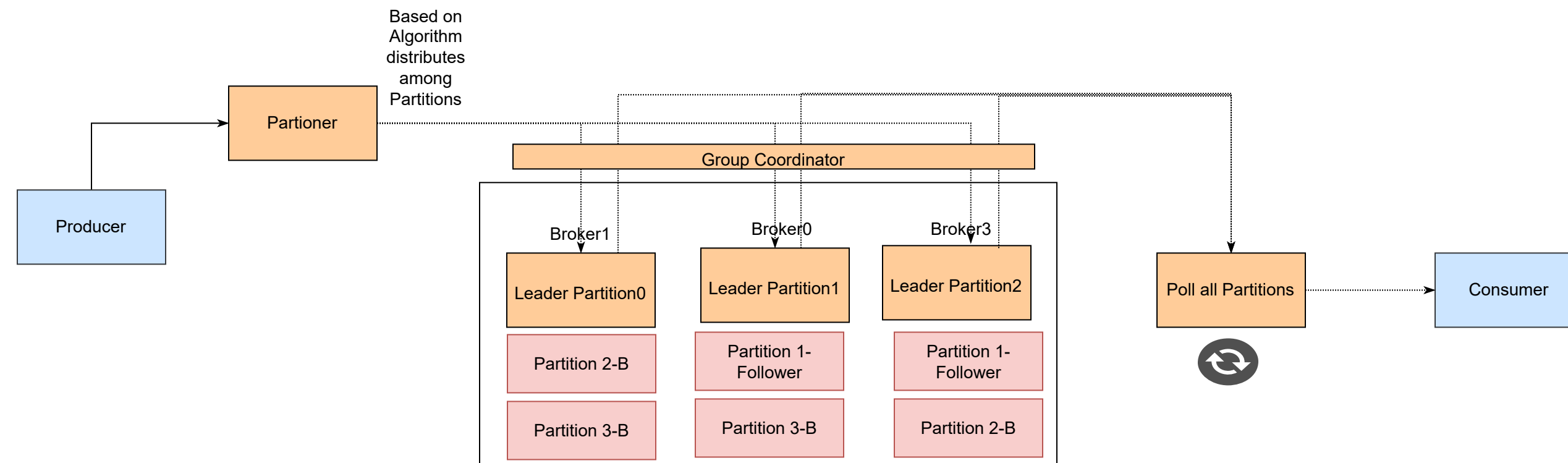




Standalone Topology



Distributed Topology

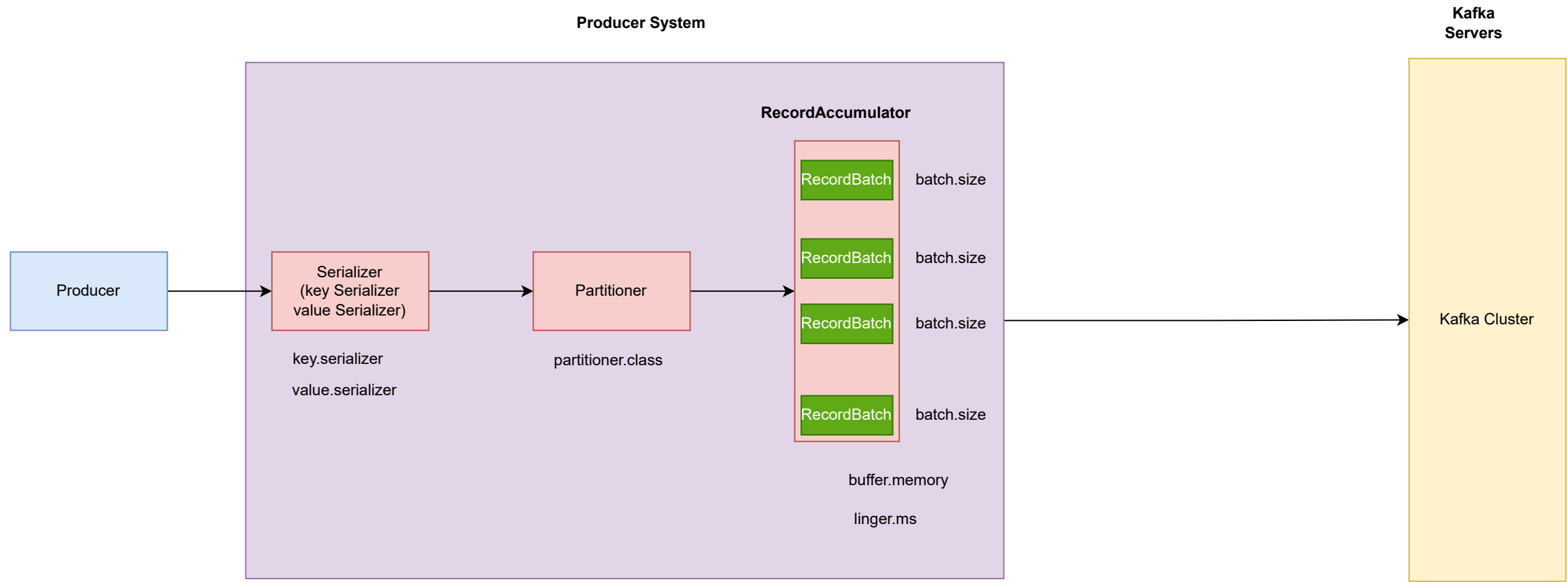


Messages log

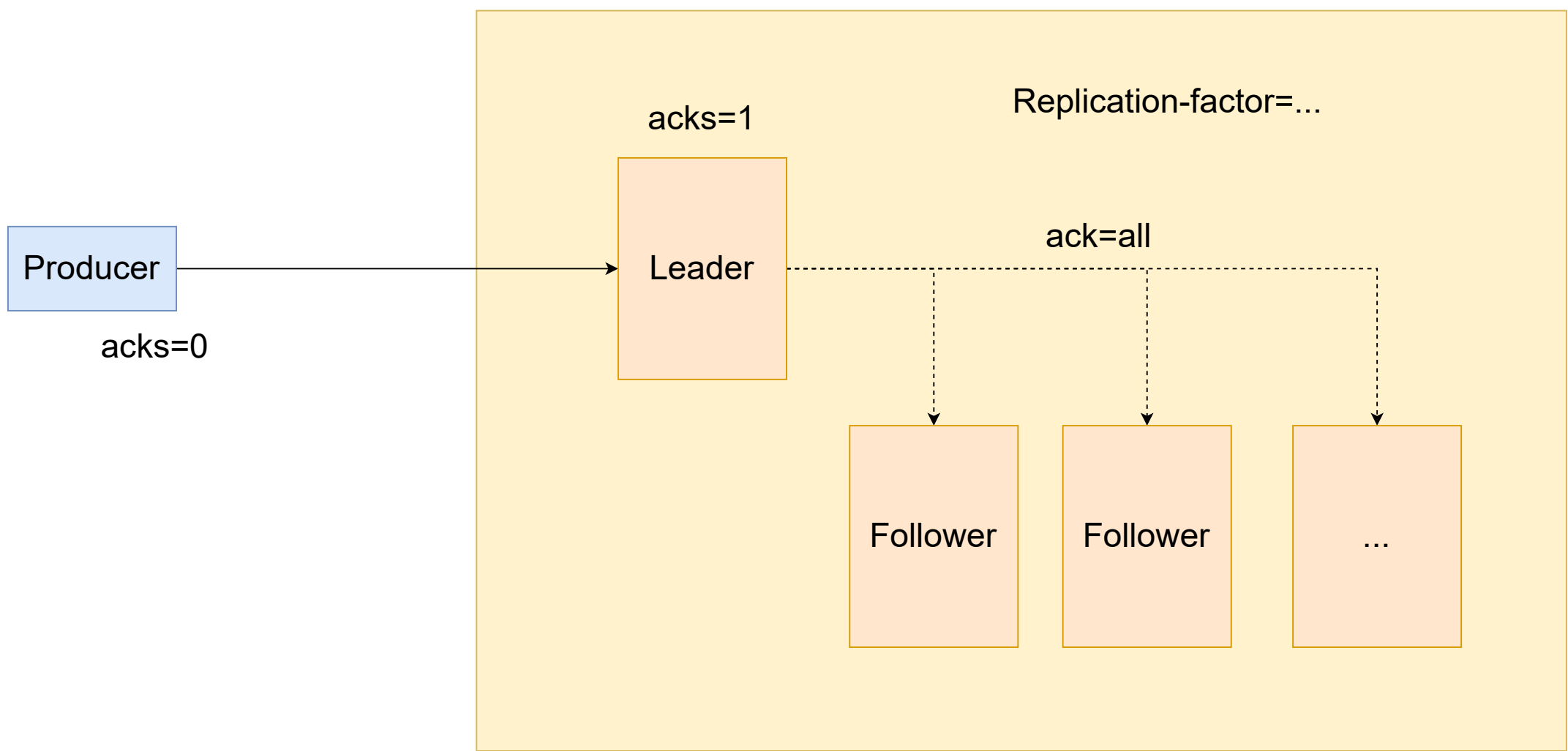
Messages log

Messages log

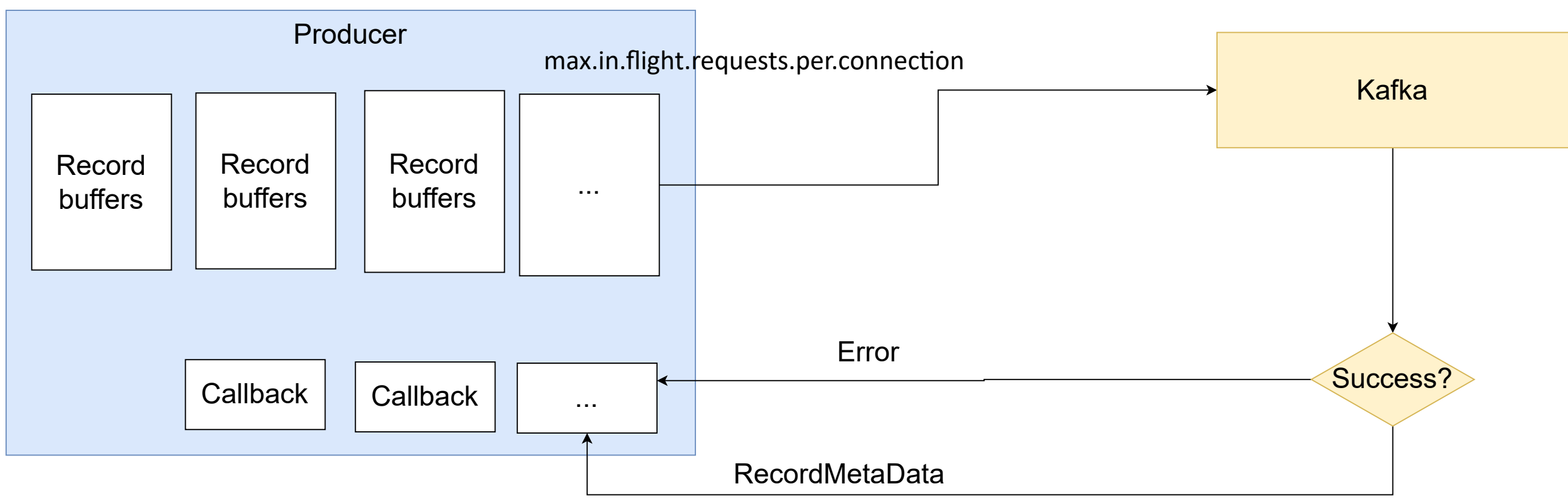
Same Topic



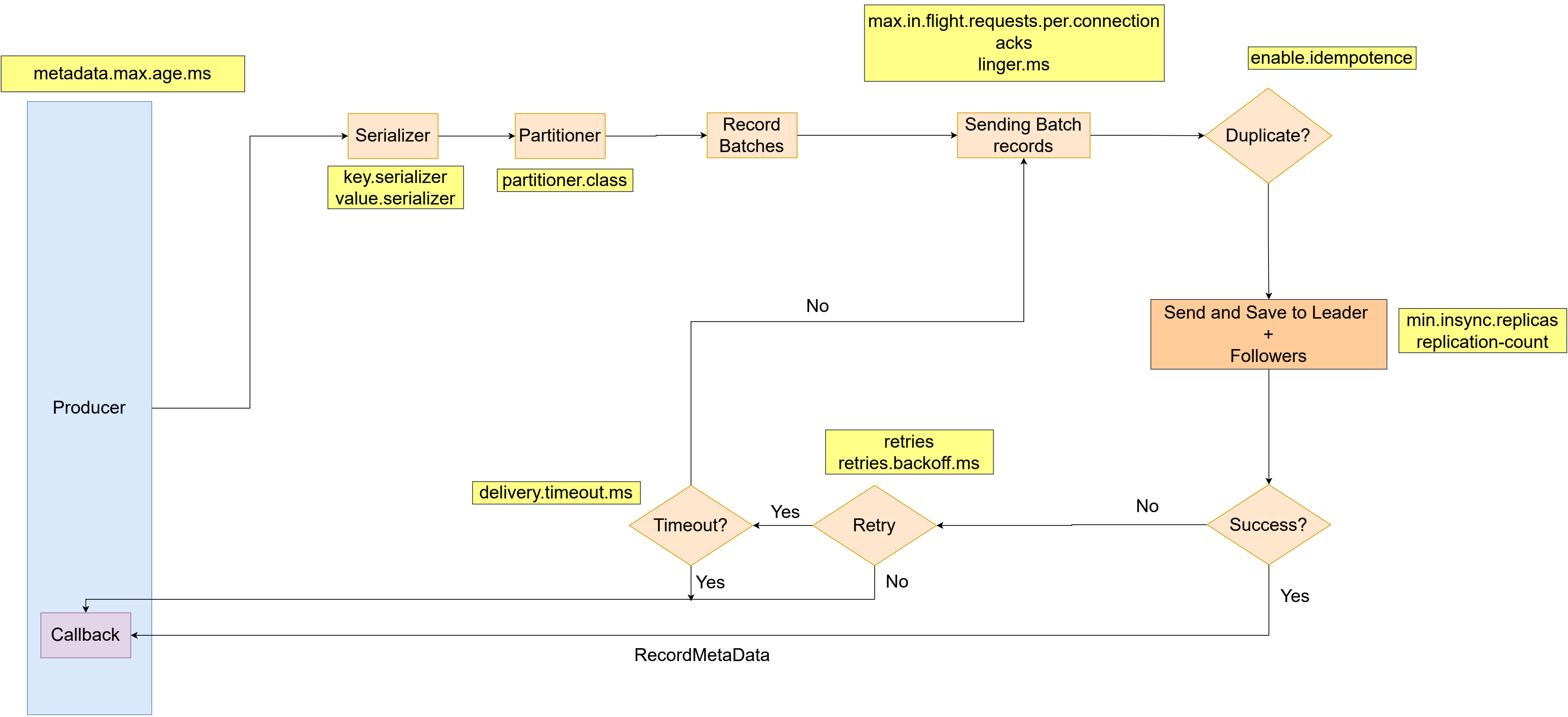
ack configuration



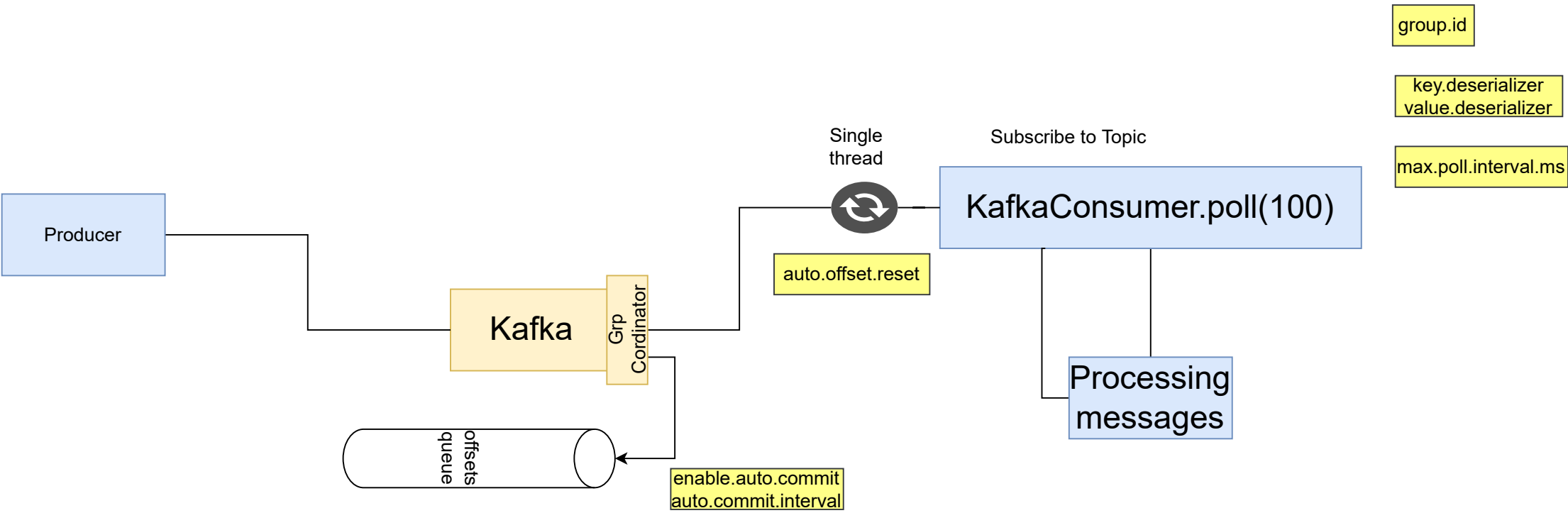
max.in.flight.requests.per.connection Configuration



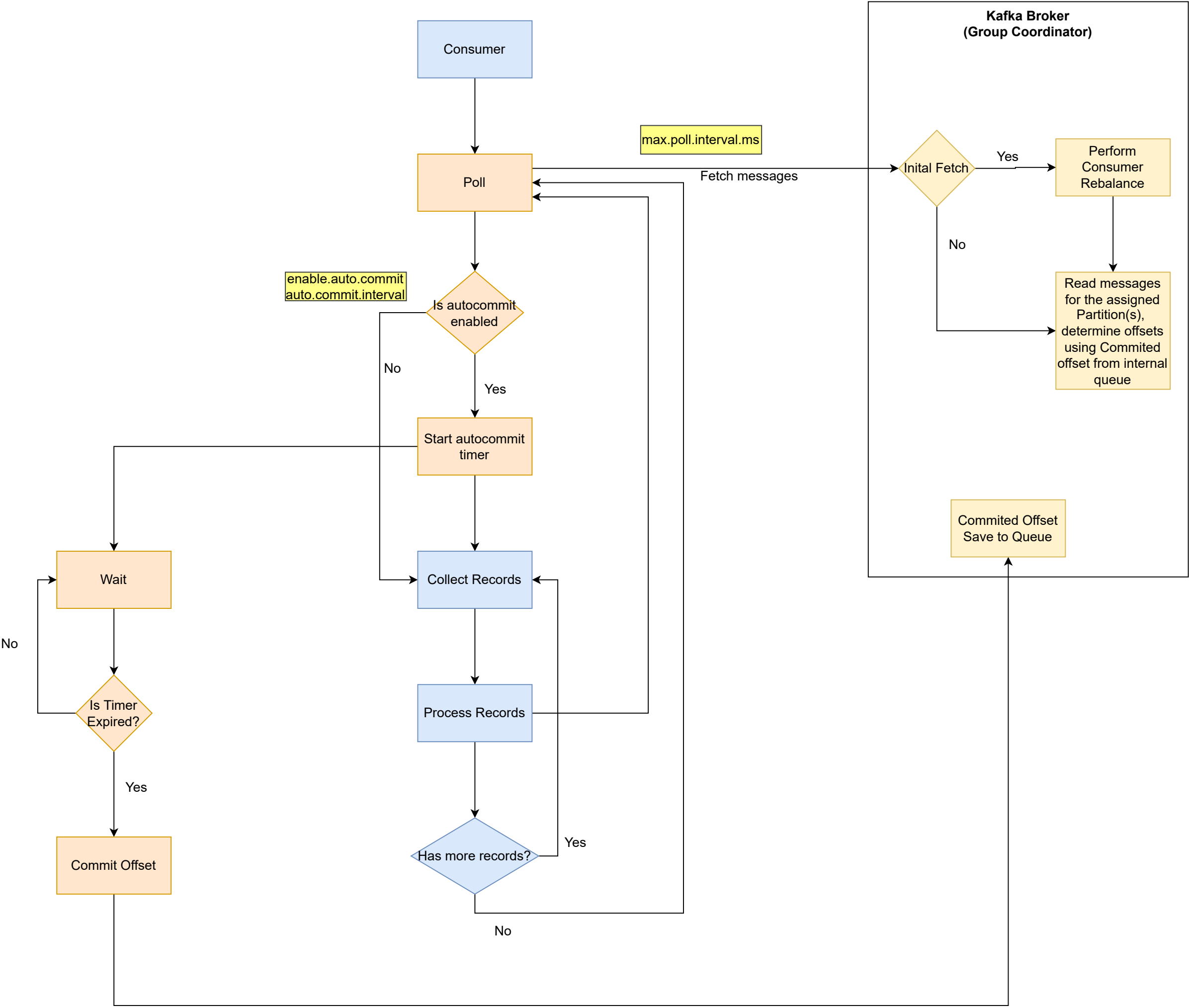
Consolidated Flow



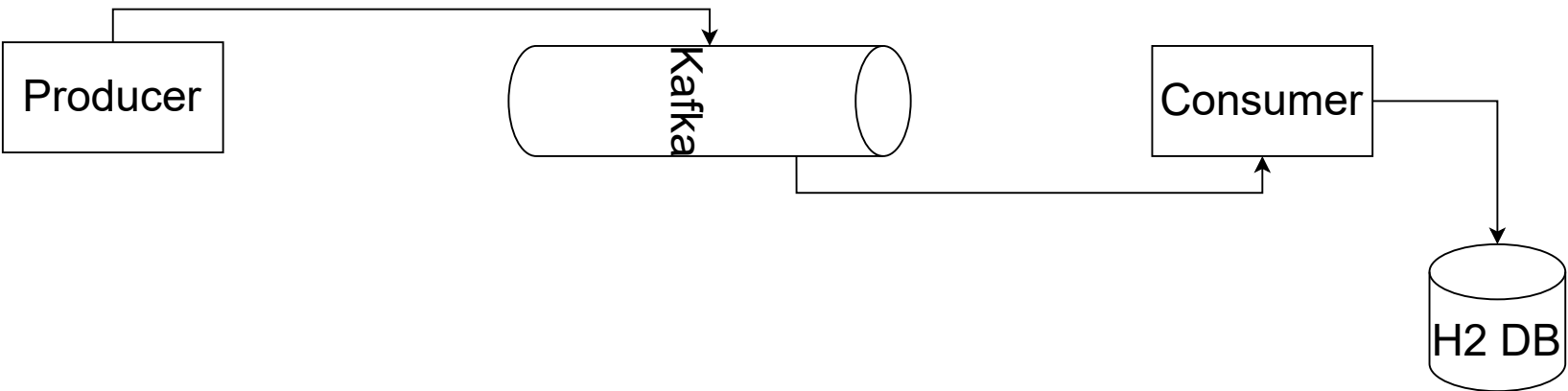
Consumer Pooling

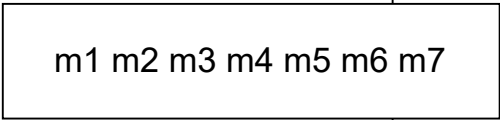
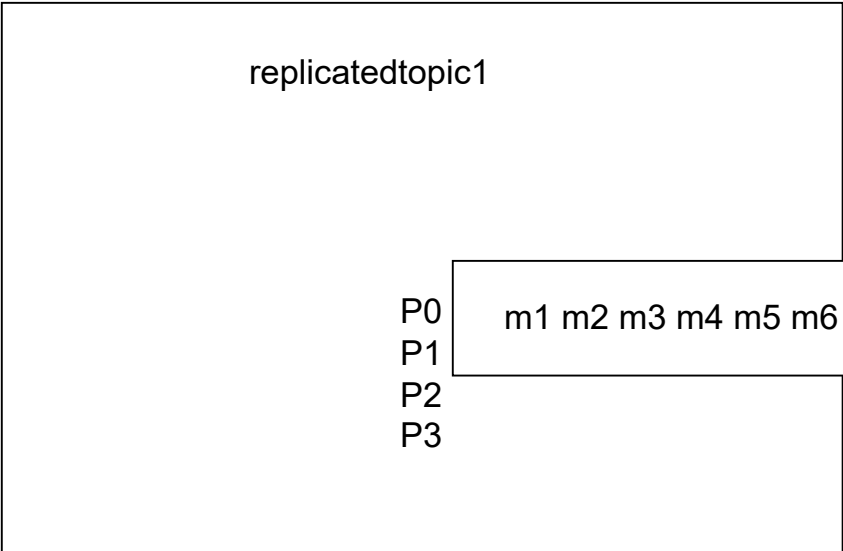
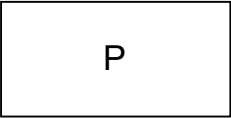


Consumer Internal Working



Persistency of read messages





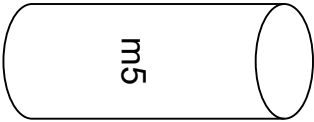
P0
P1
P2
P3

m6 m7

m1 m2 m3 m4 m5

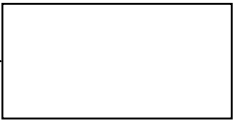
Current offset

C

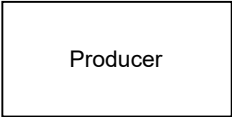


Committed offset

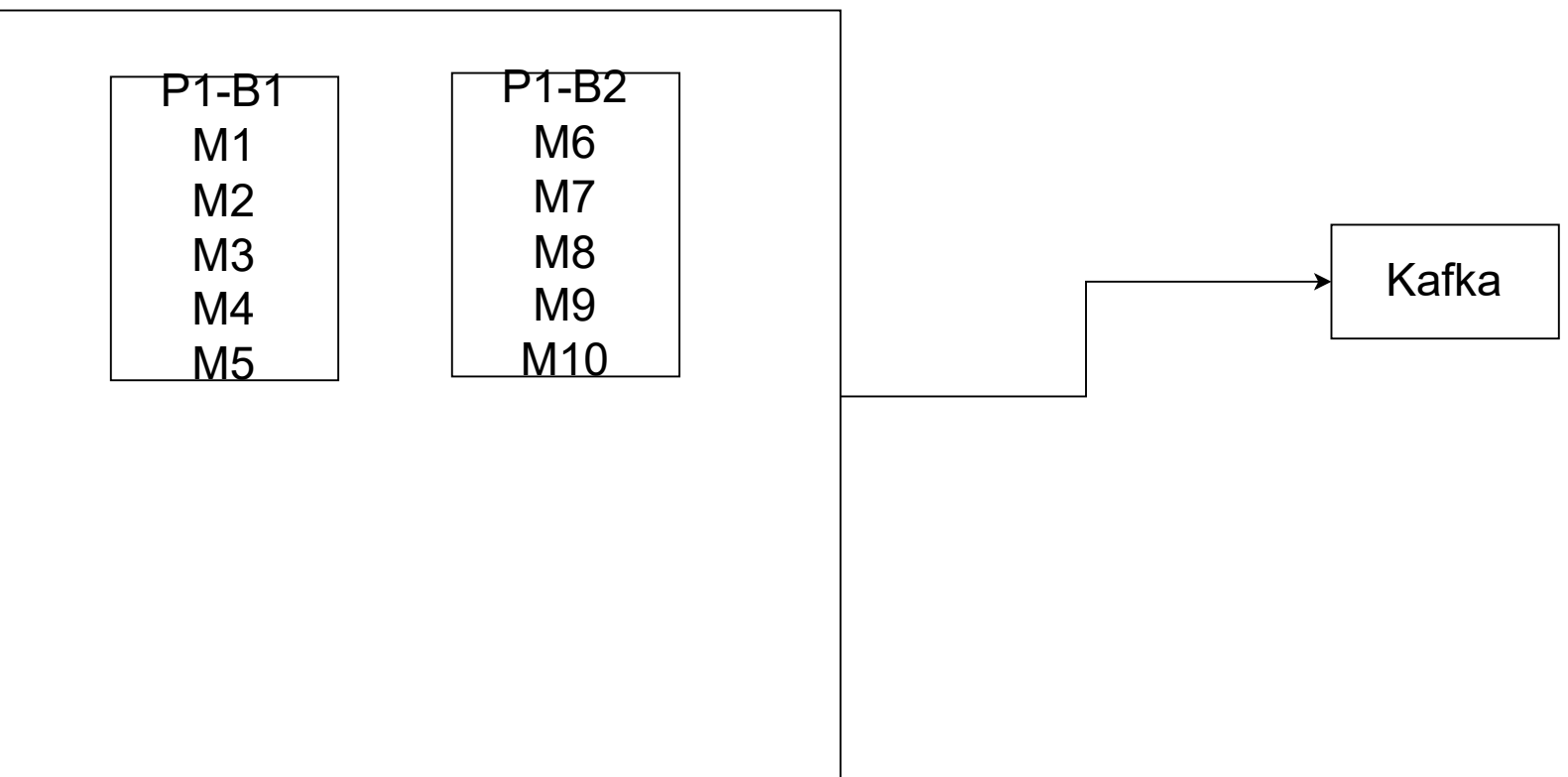
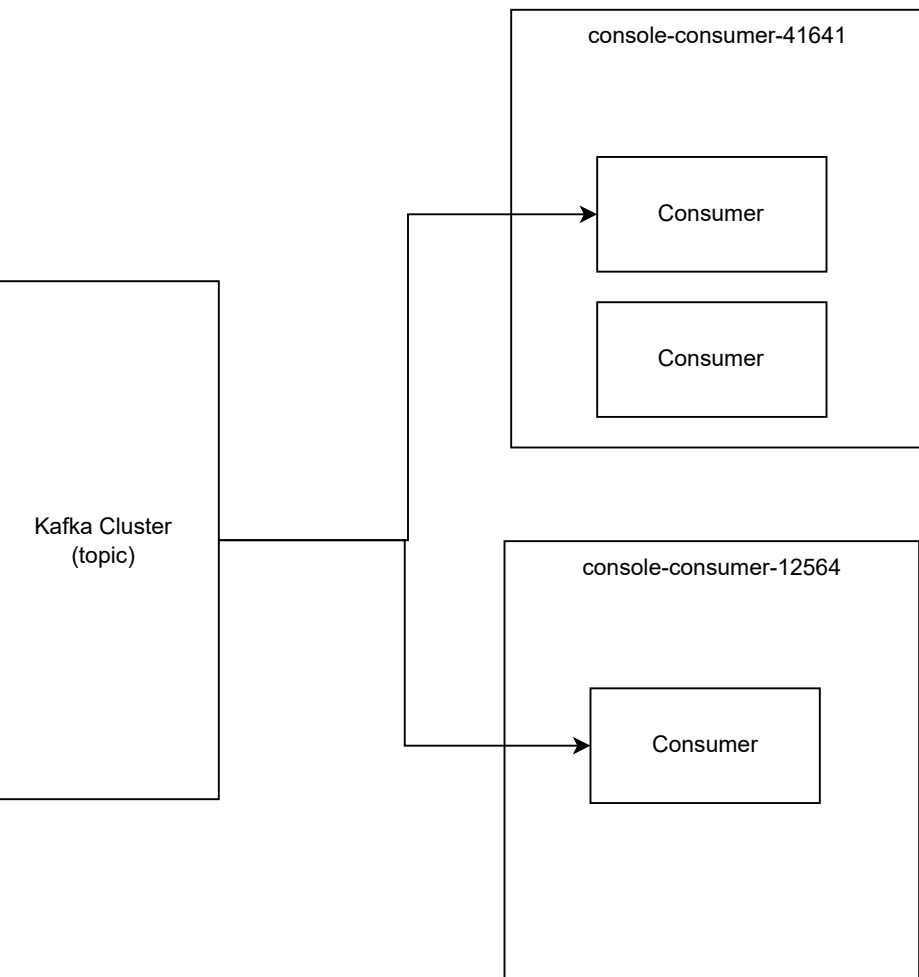
Partitions

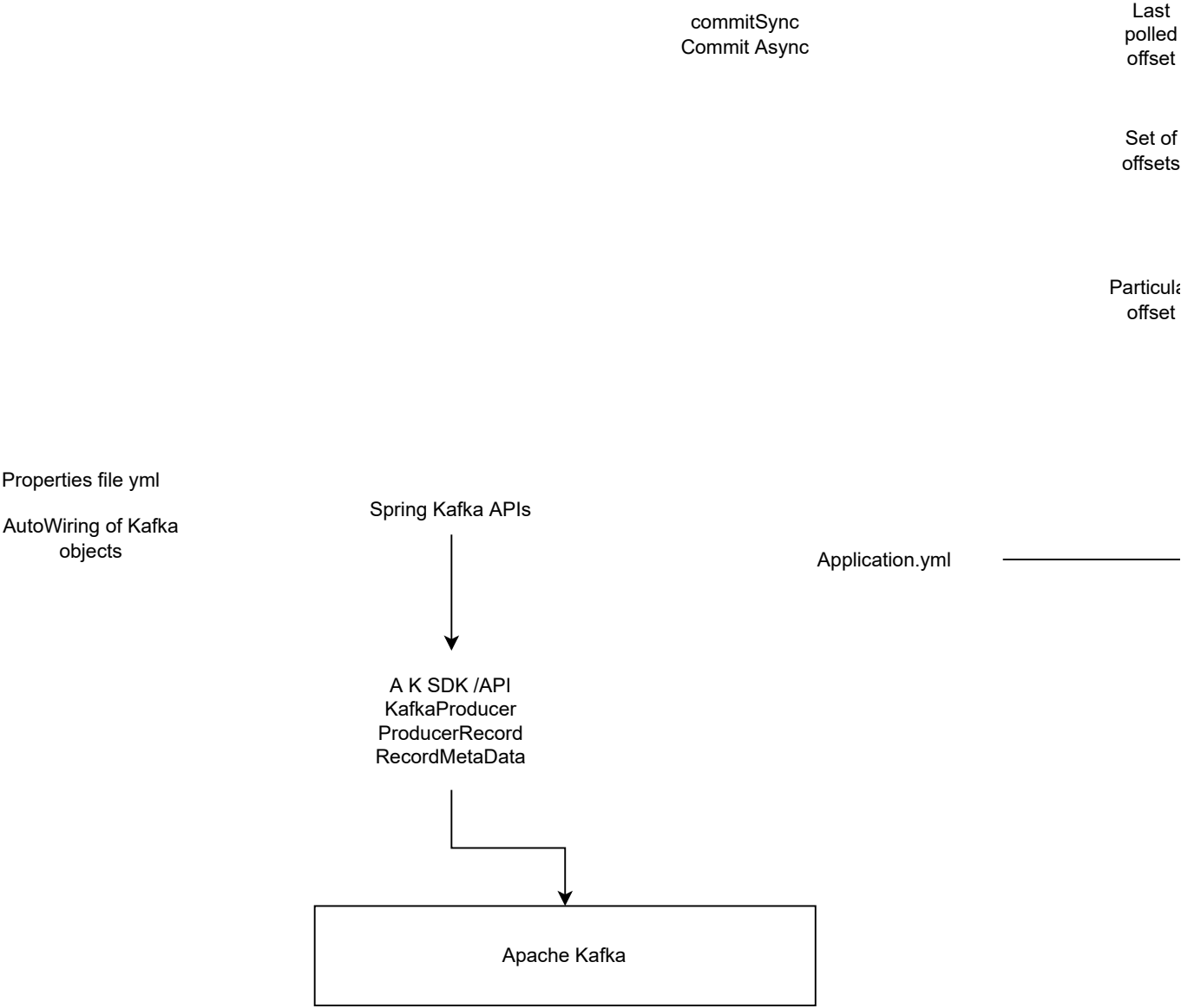


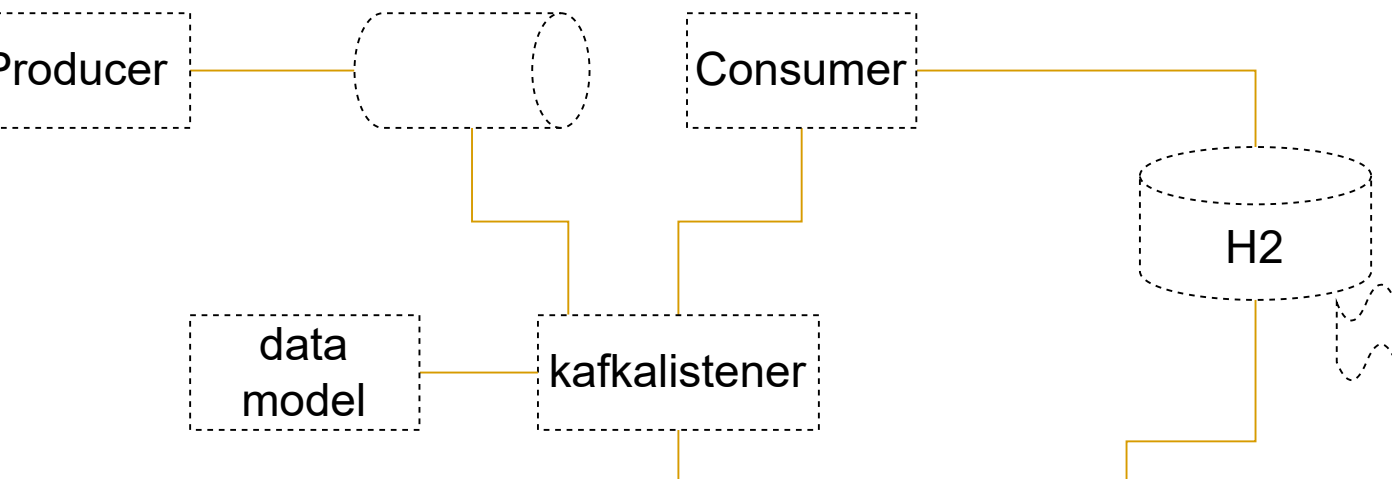
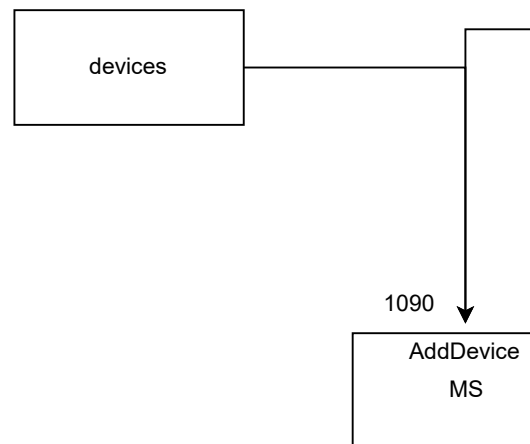
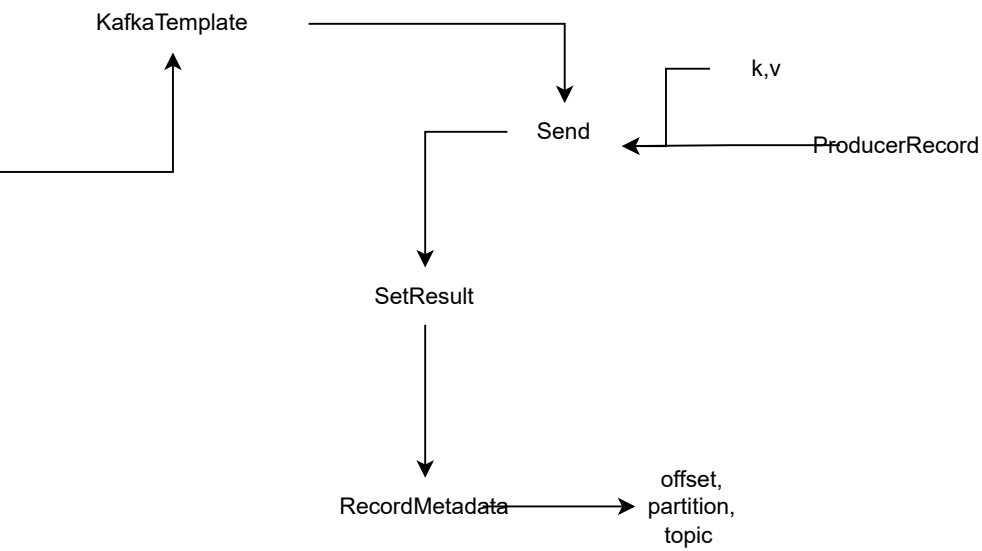
Config Kafkaconsu
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Revocati
Assignme

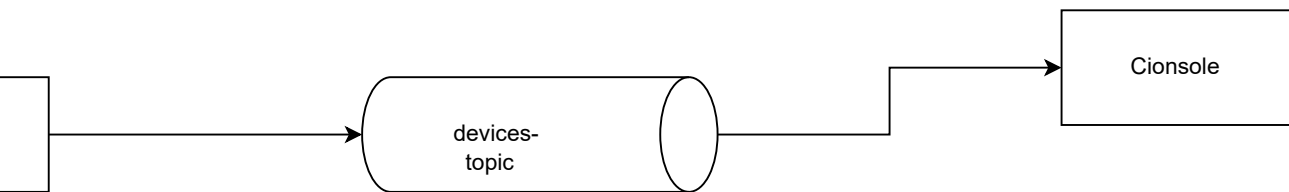


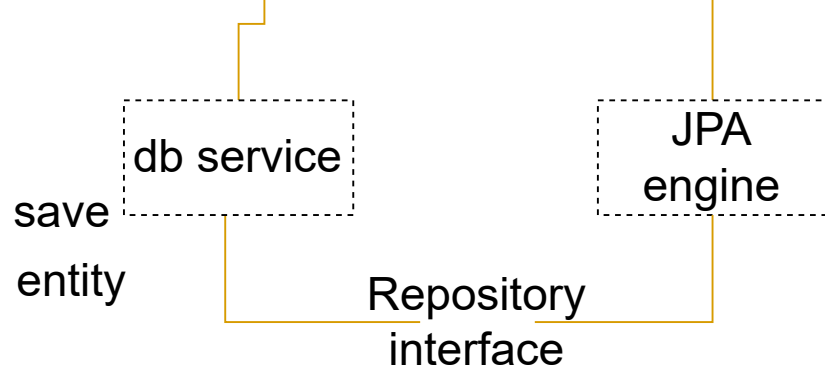
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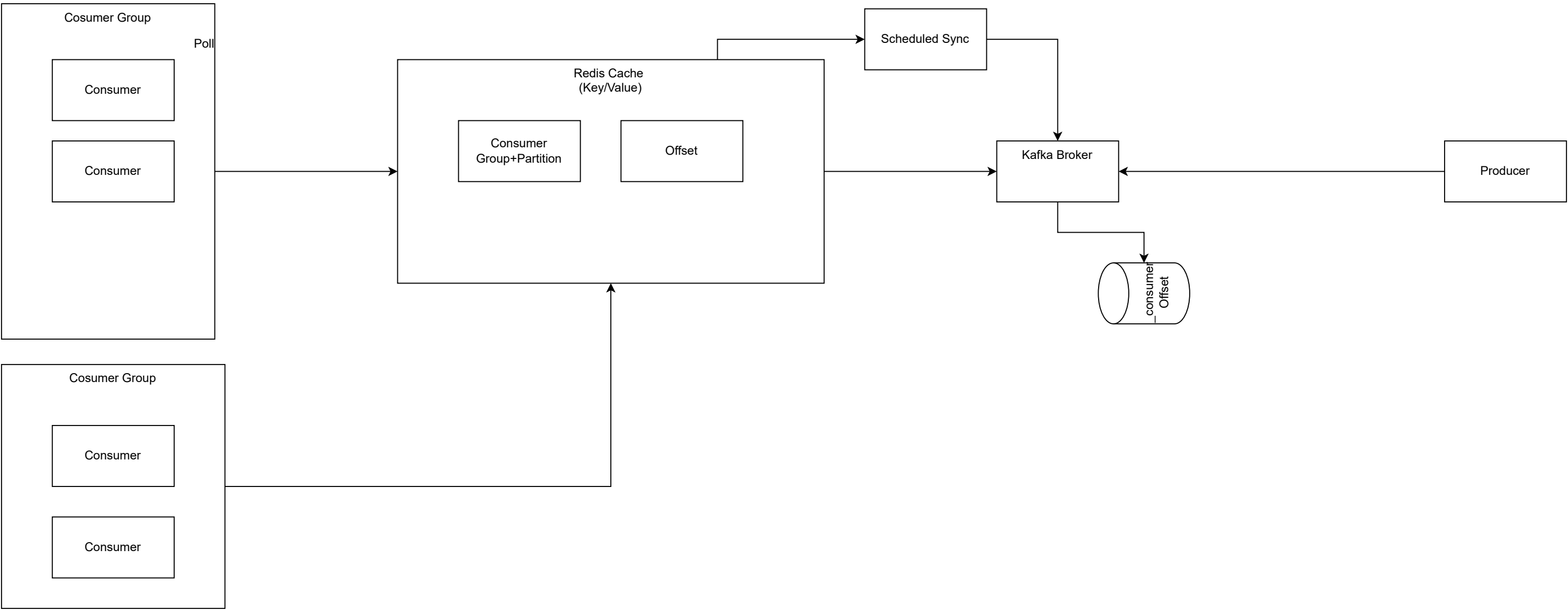




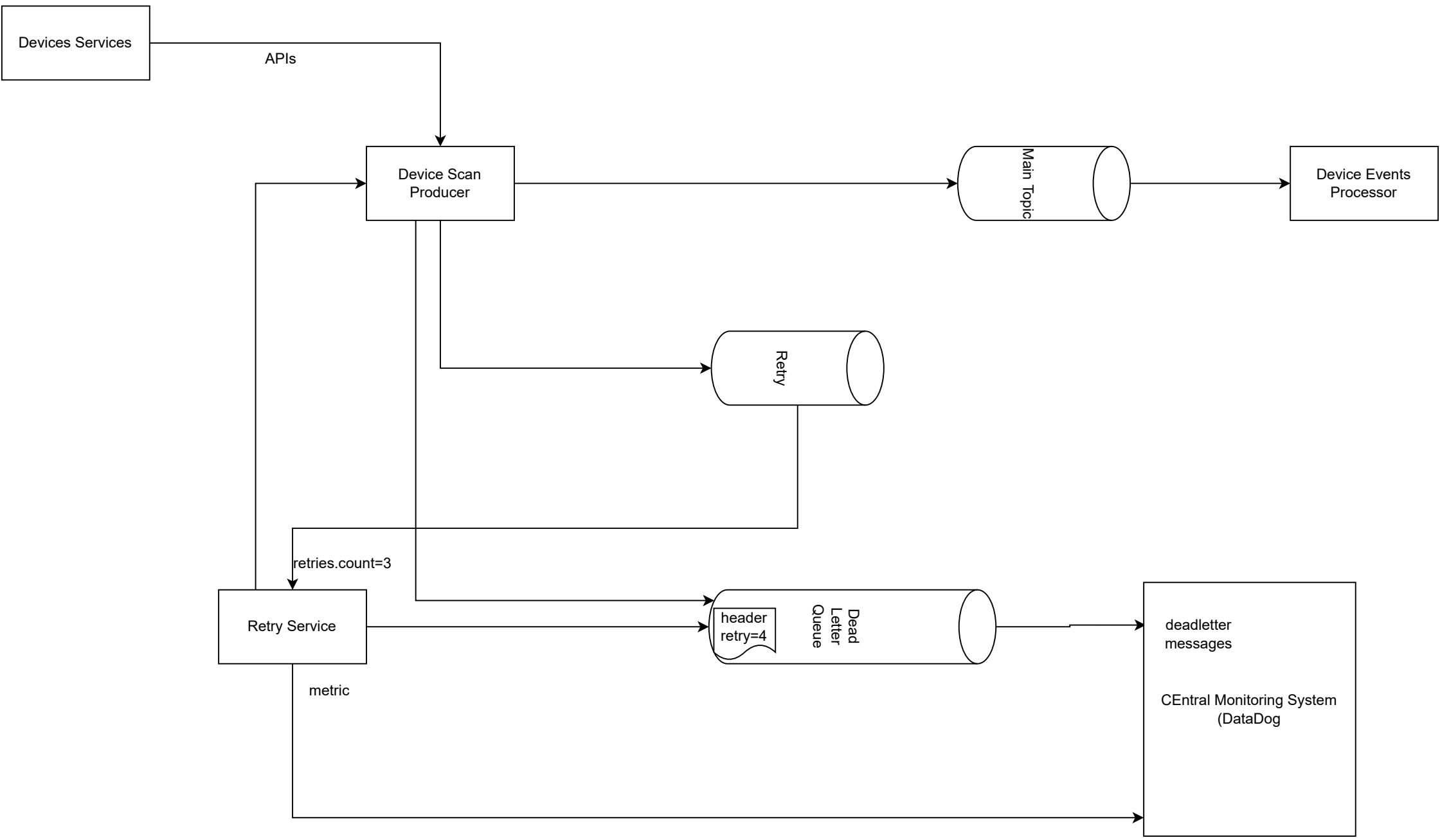




DIY Exercise - day 7

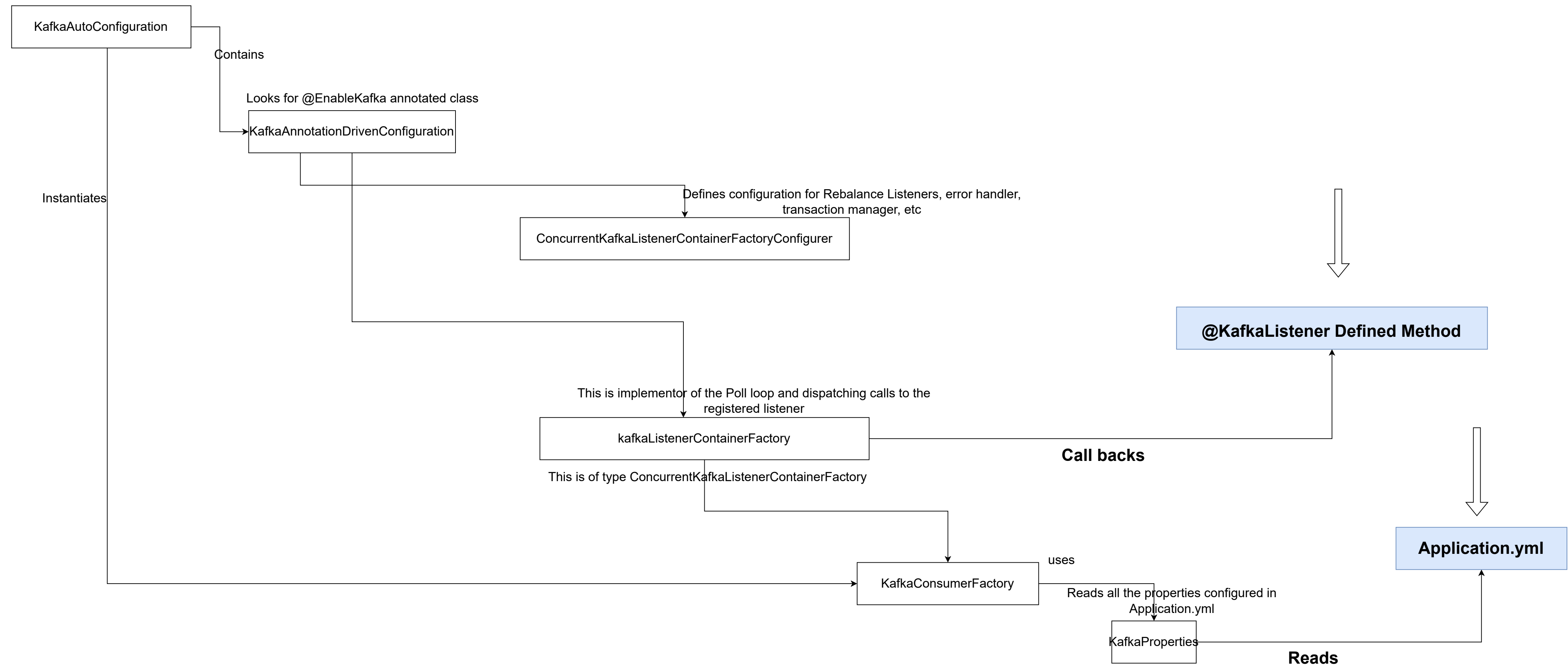


Producer Retry Mechanism



Spring Kafka Consumer Internals

Instantiate needed beans and initiates Other objects



Producer Test

