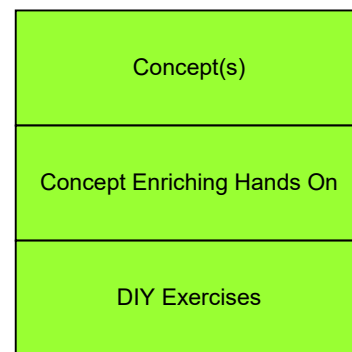
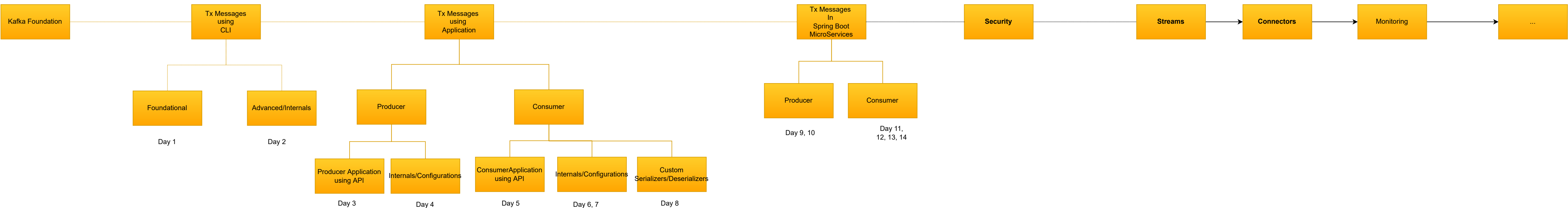
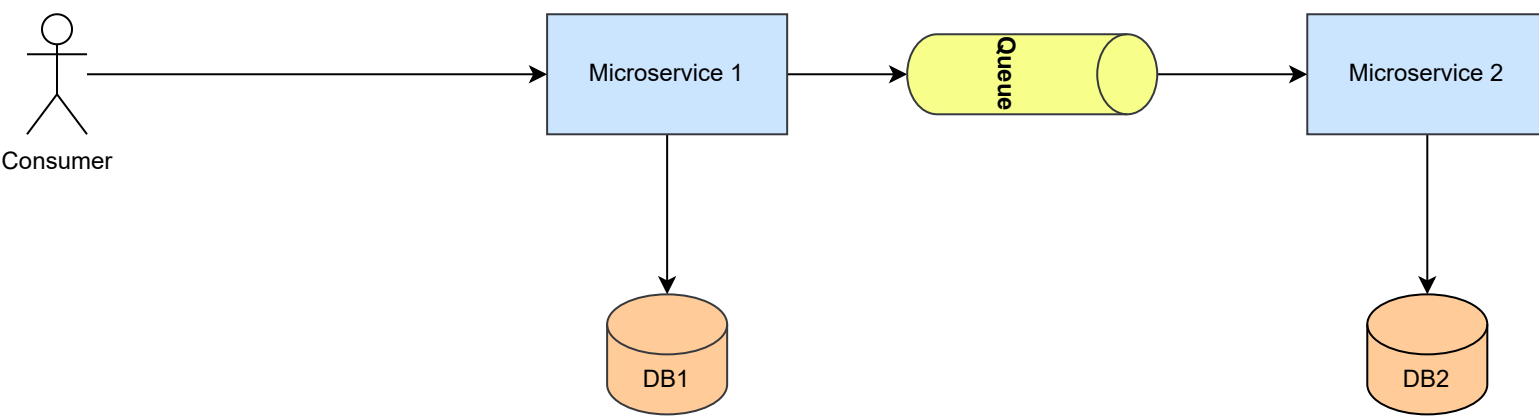
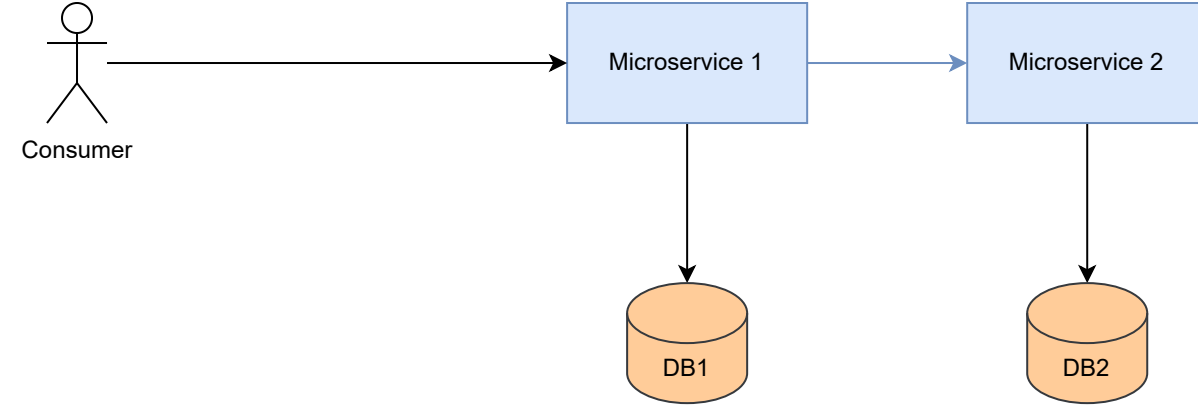


Teaching Principle

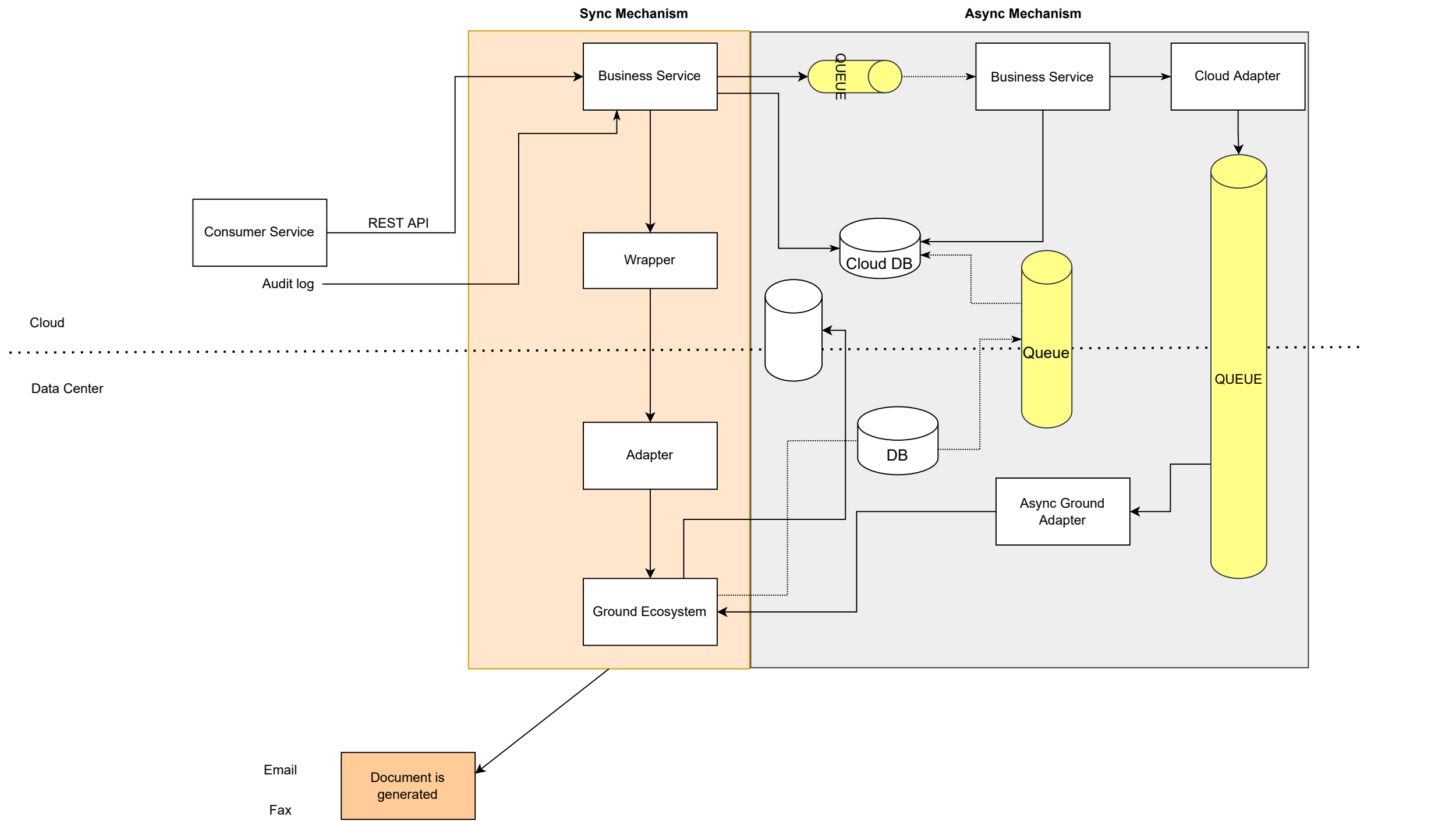


Learning Map

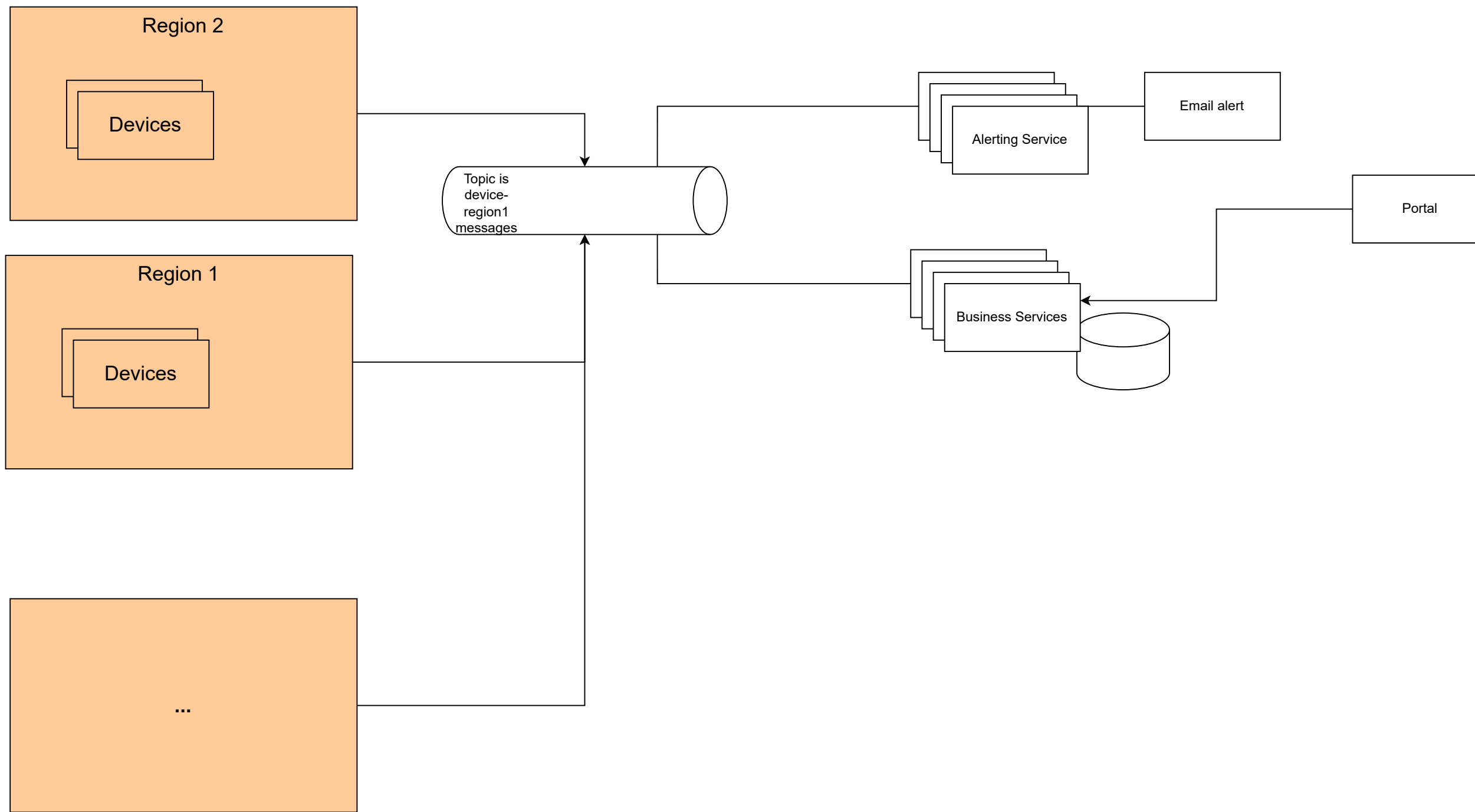




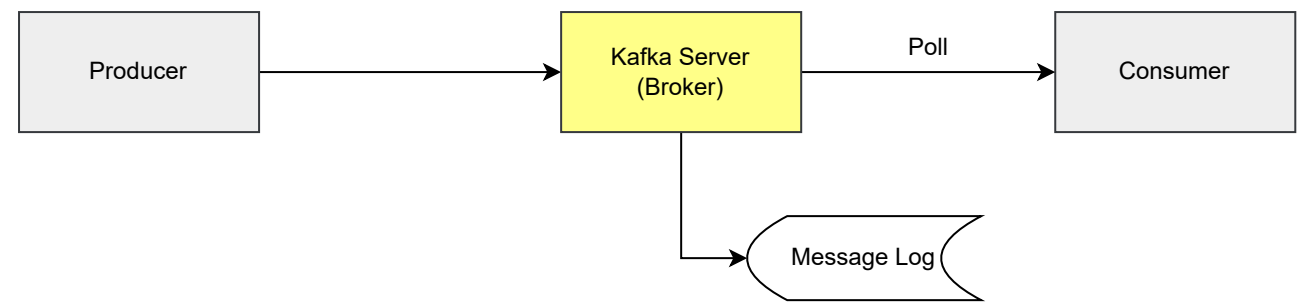
Use case 1



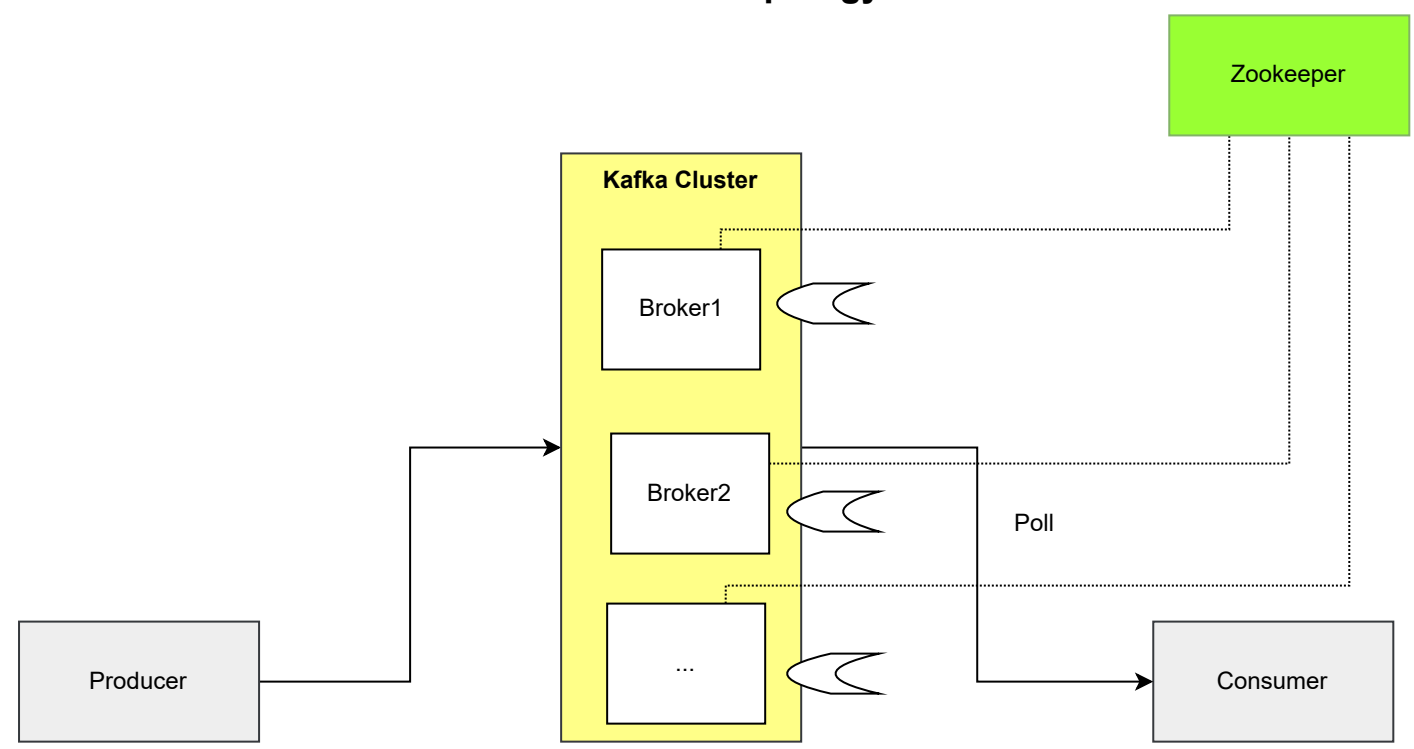
Use case 2



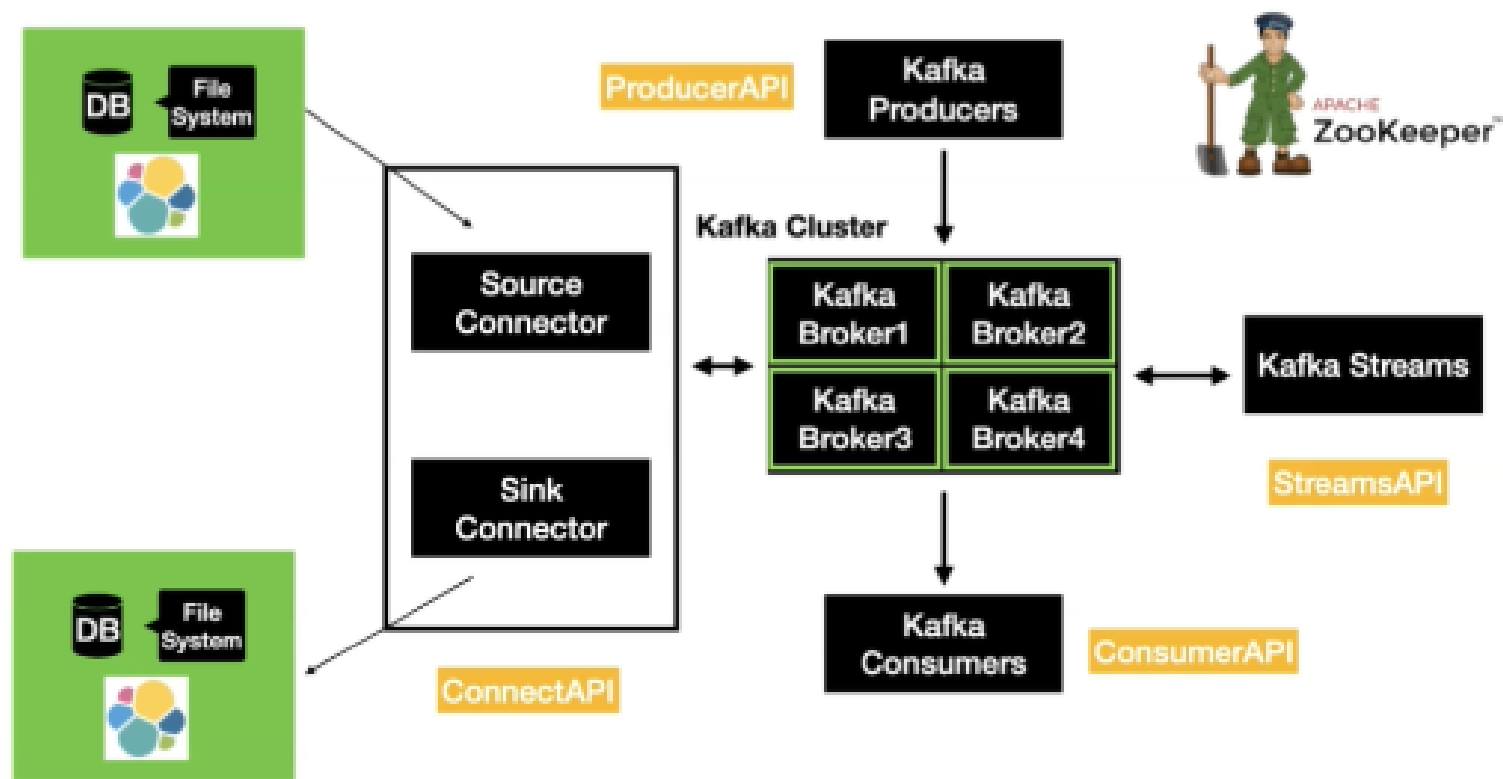
Basic Topology



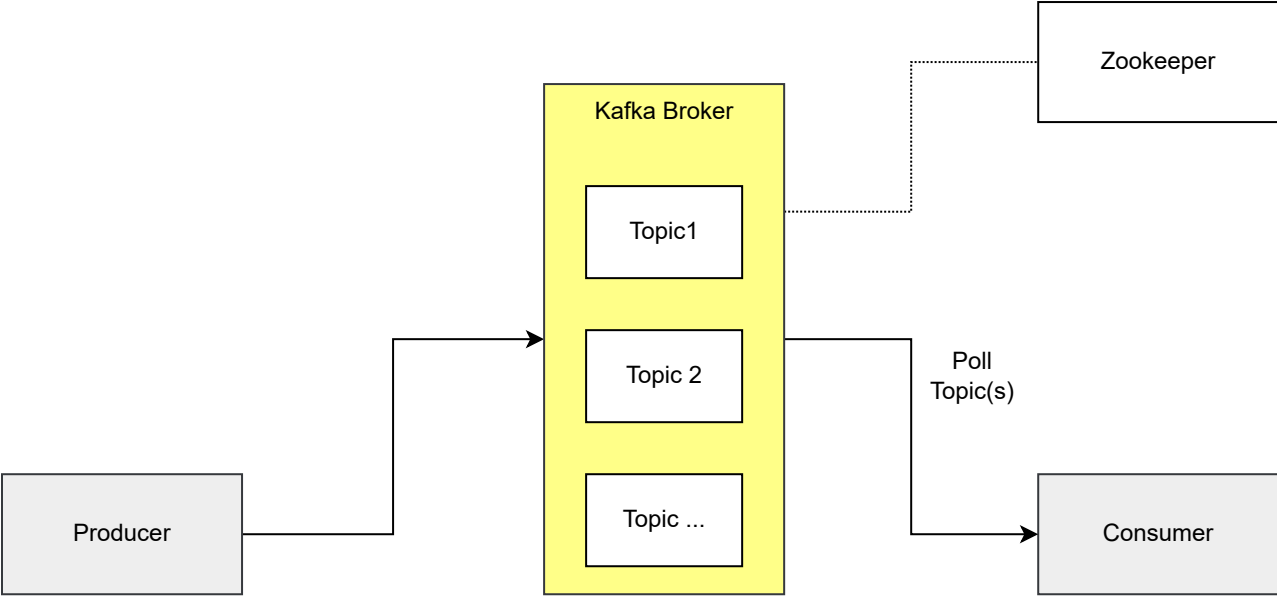
Distributed Topology



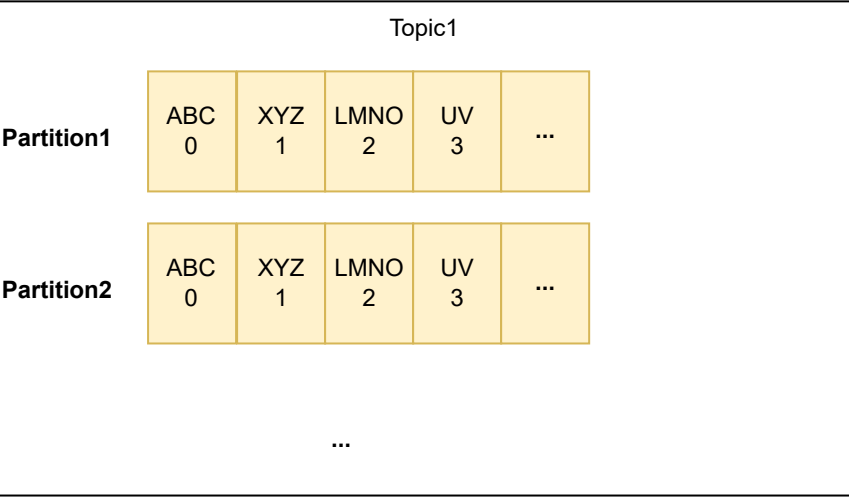
Kafka Landscape



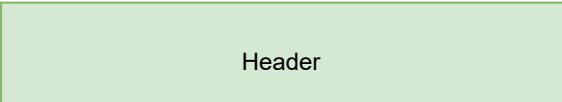
Broker Anatomy



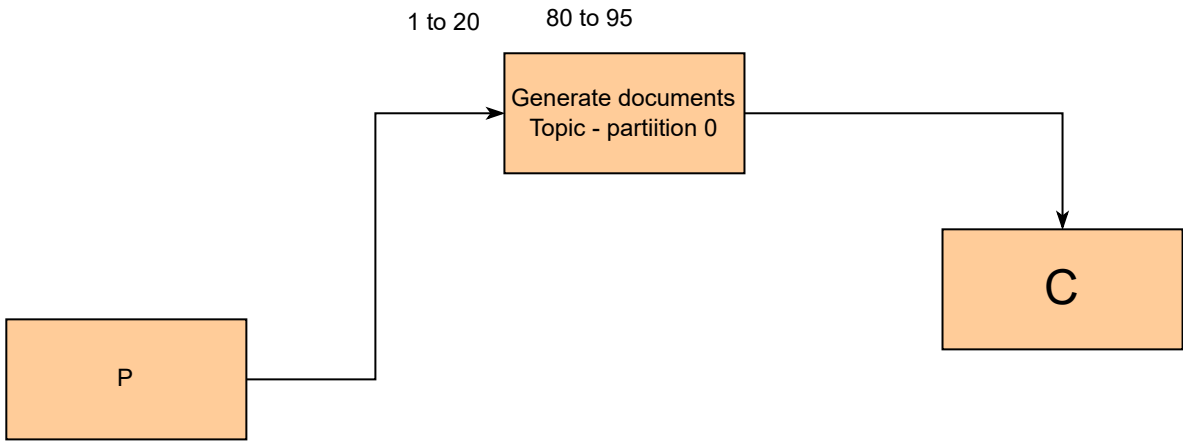
Topic Anatomy



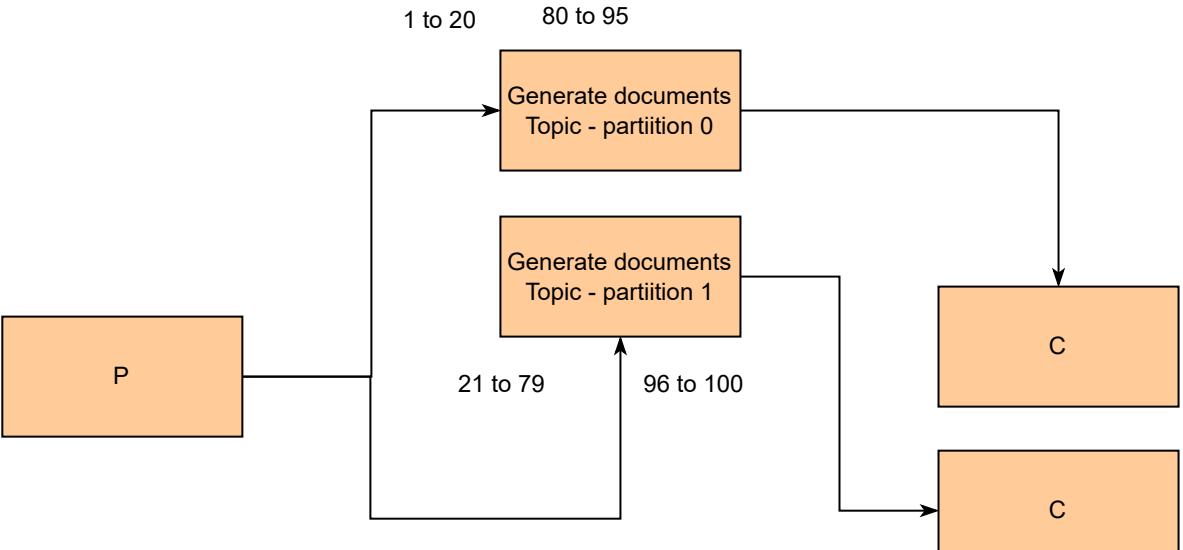
Message Anatomy



Topic-Same

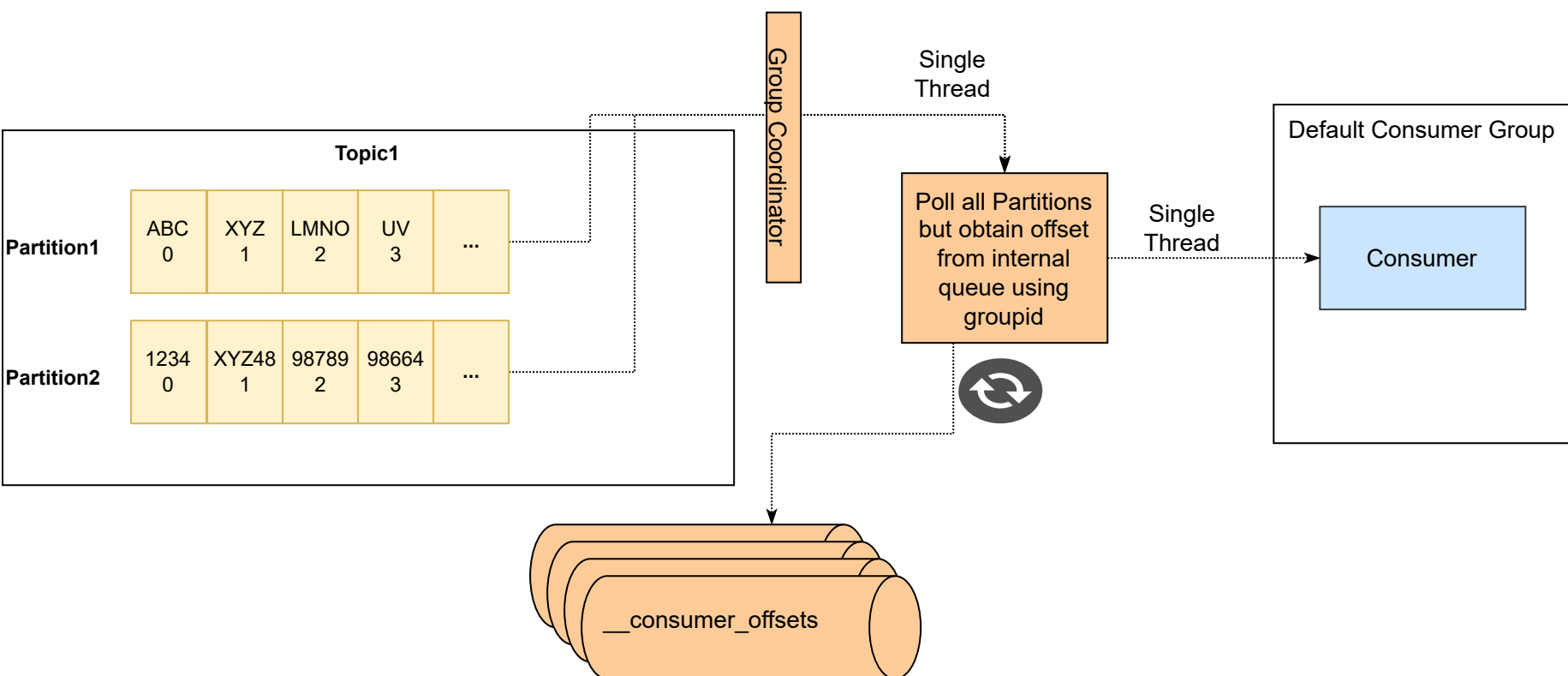


Topic-Same

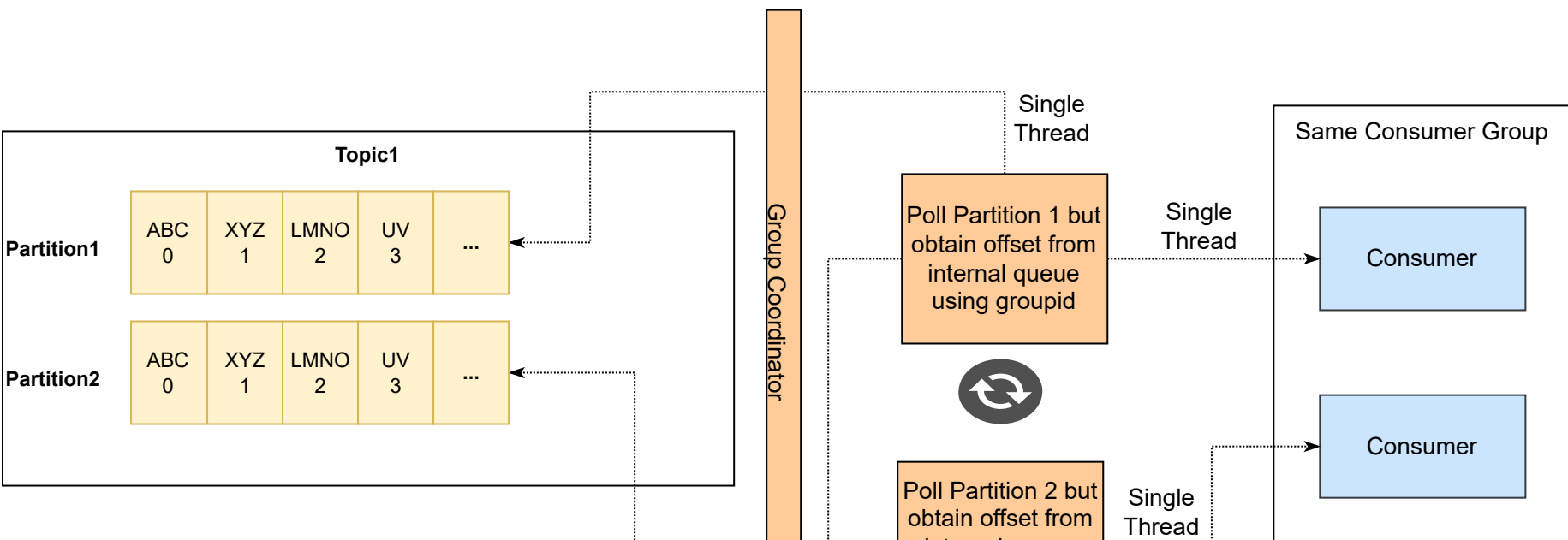


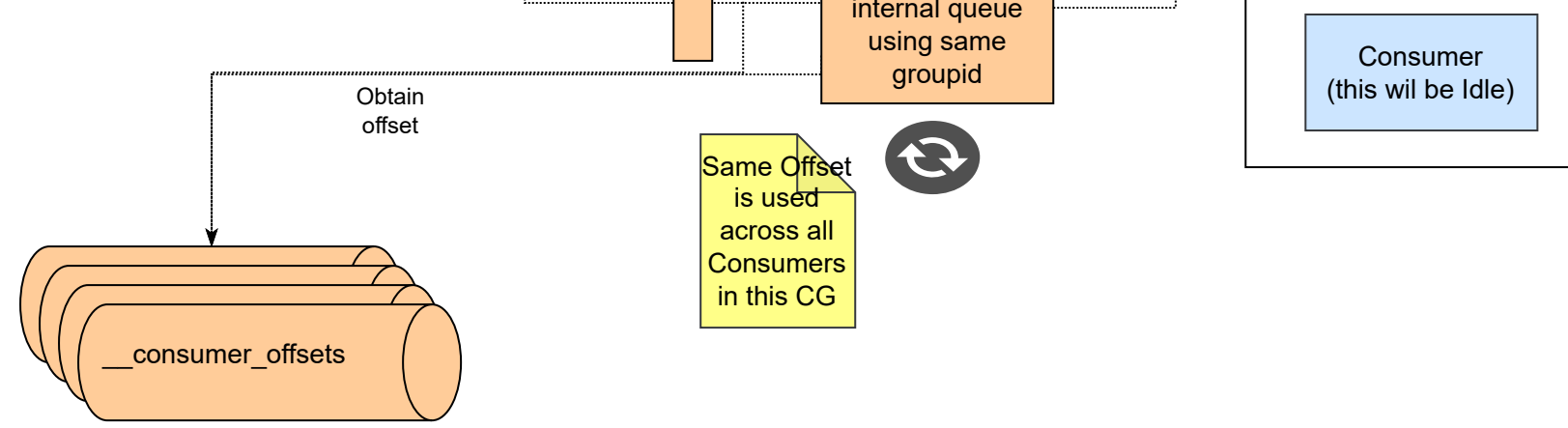
Key(optional)
Value
Timestamp

Default Consumer Group

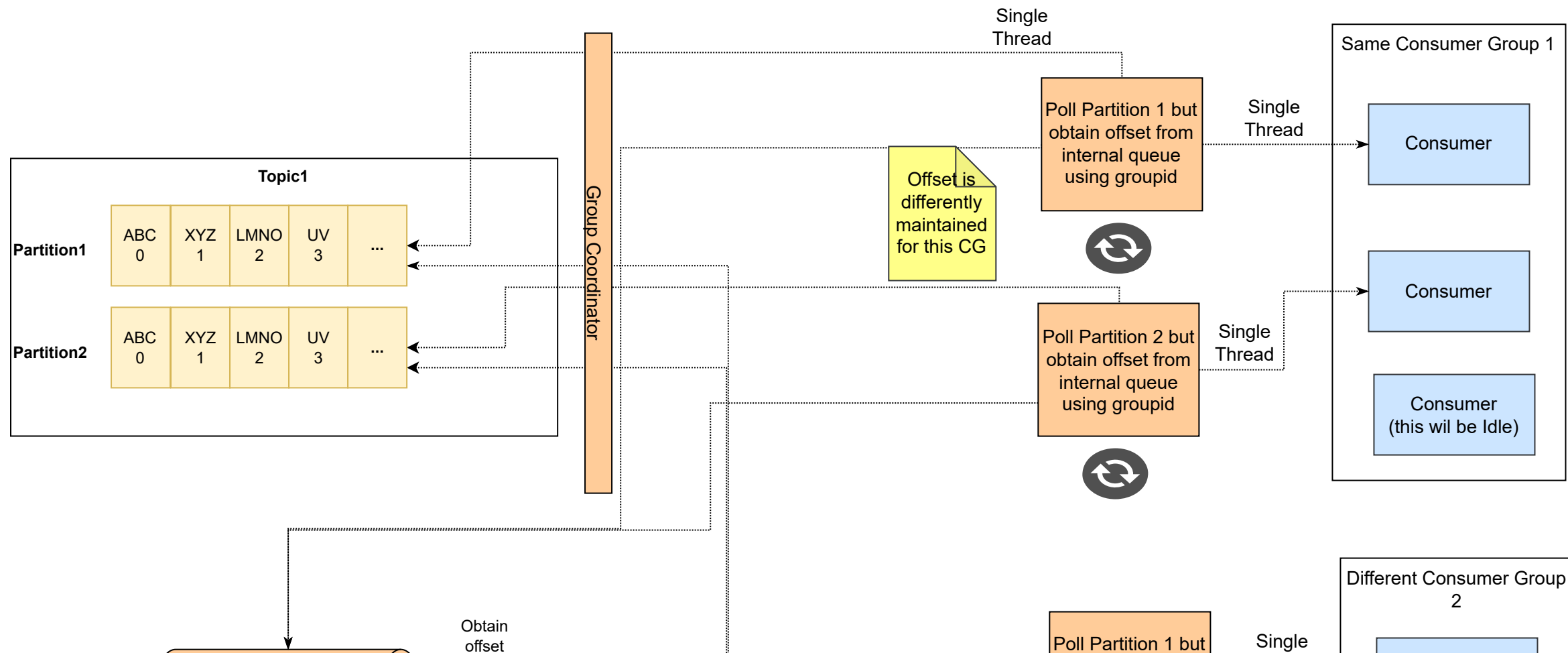


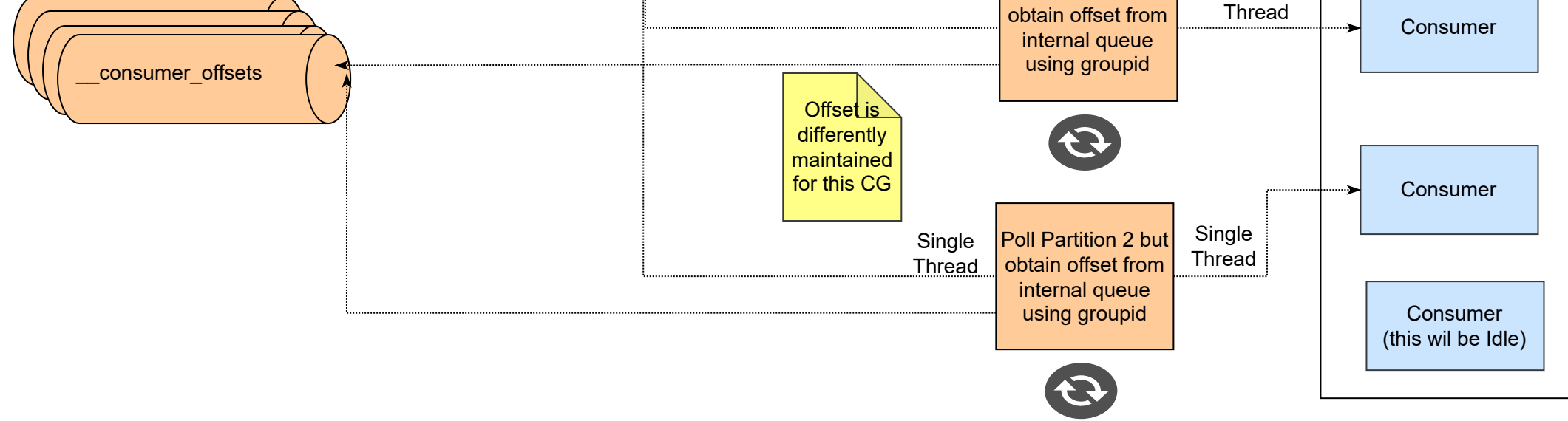
Using same Consumer Group to Read Messages at Scale



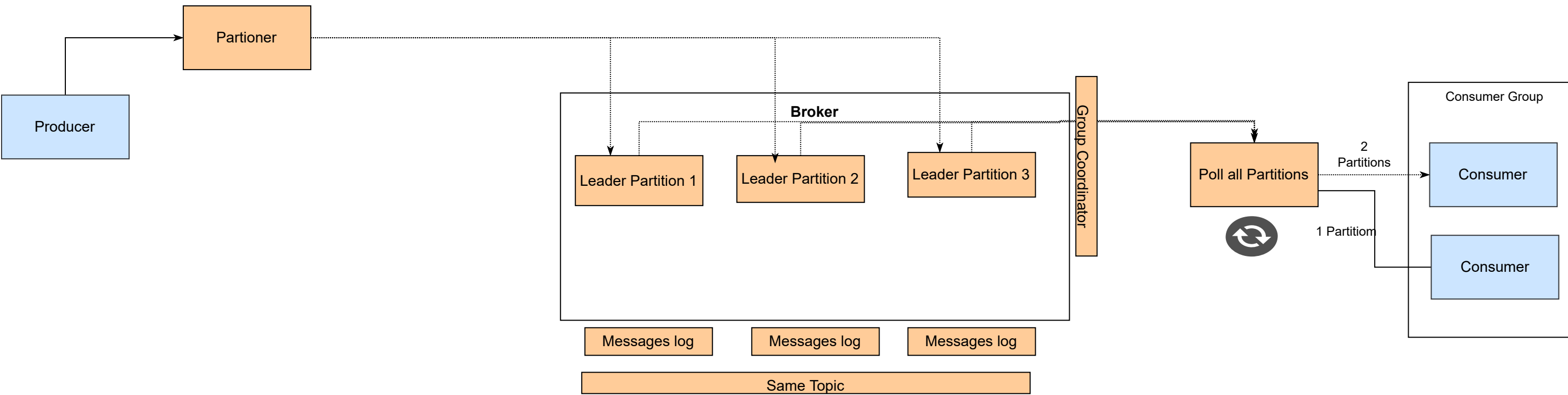


Using Different Consumer Group to Read Messages From Same Topic at Scale

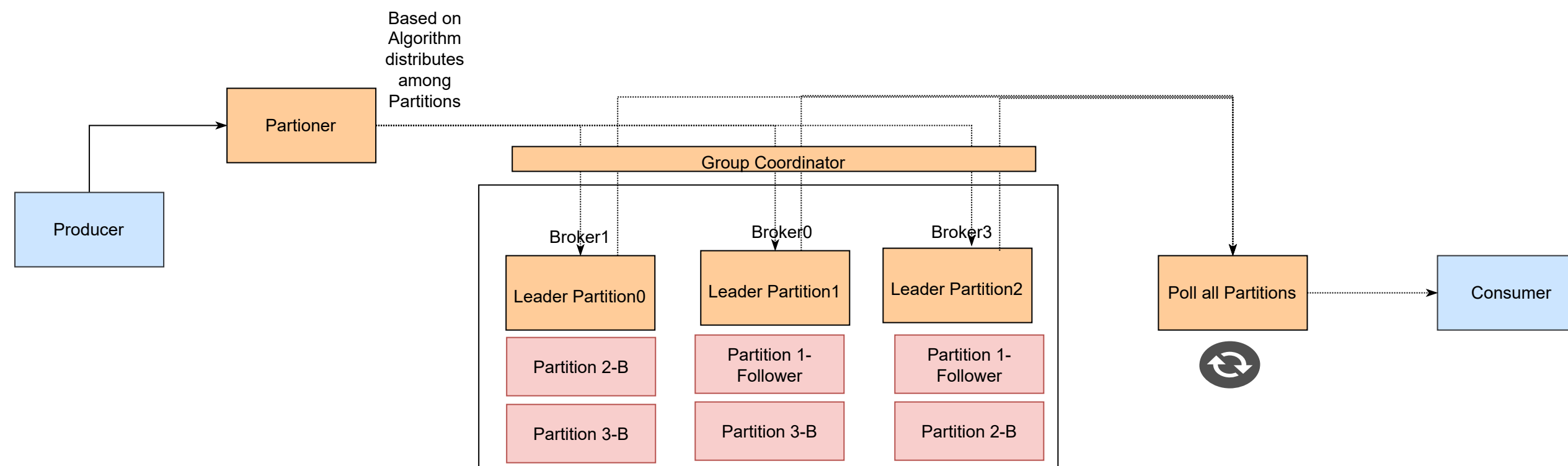




Standalone Topology



Distributed Topology

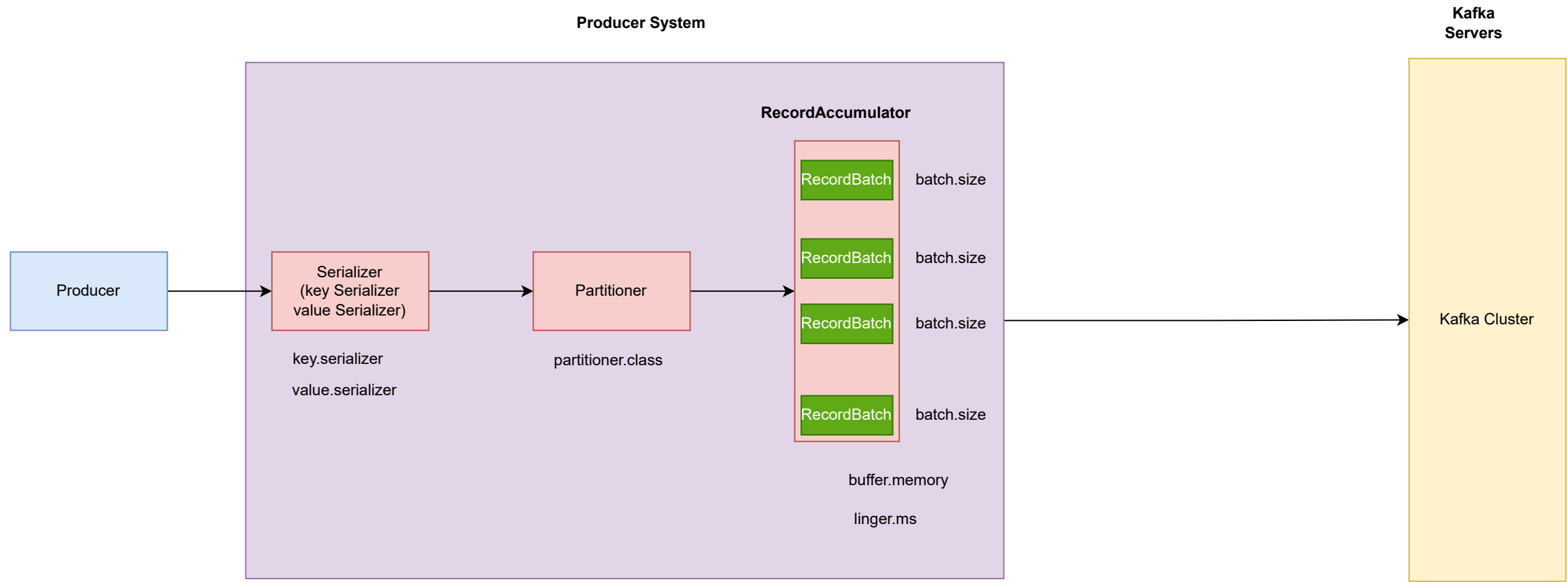


Messages log

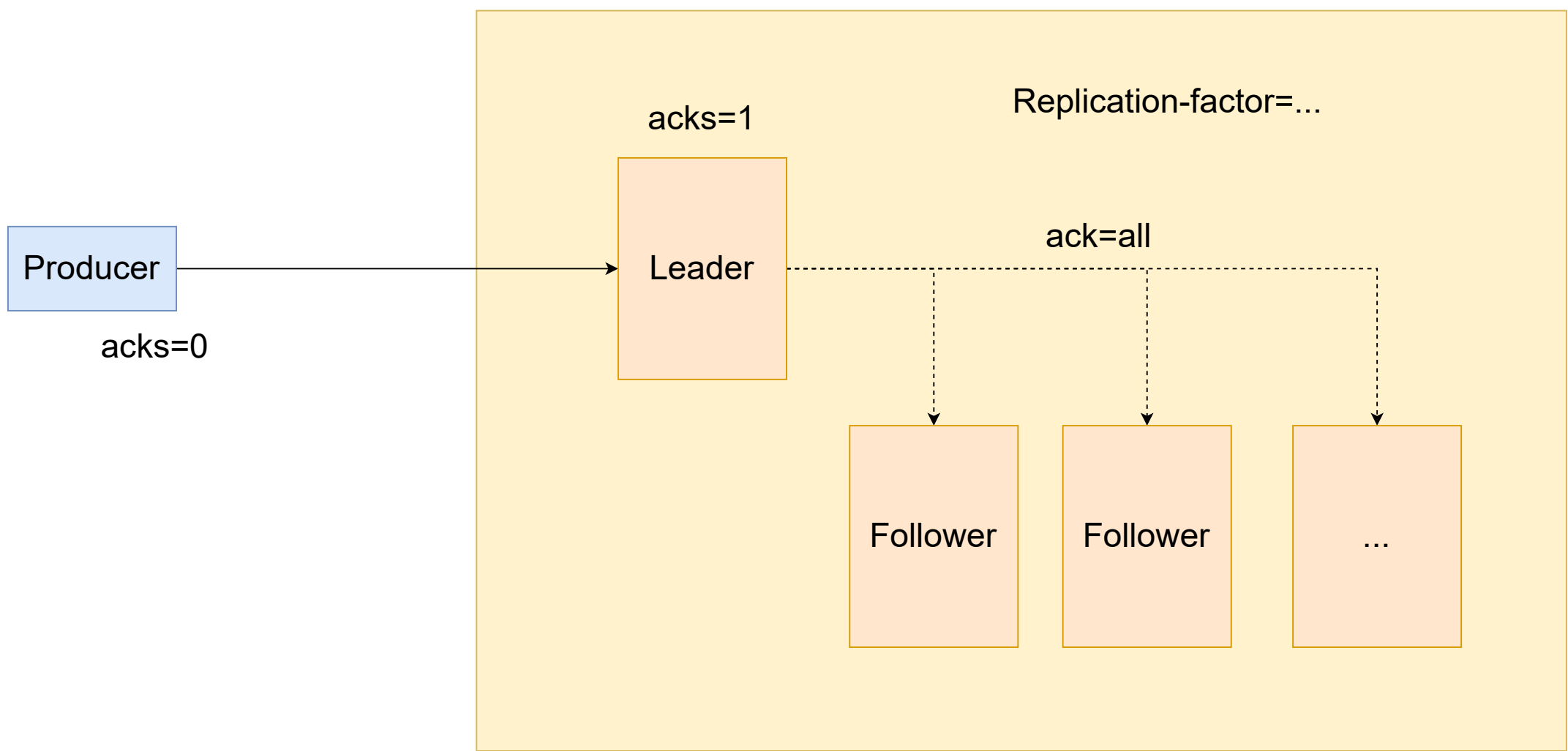
Messages log

Messages log

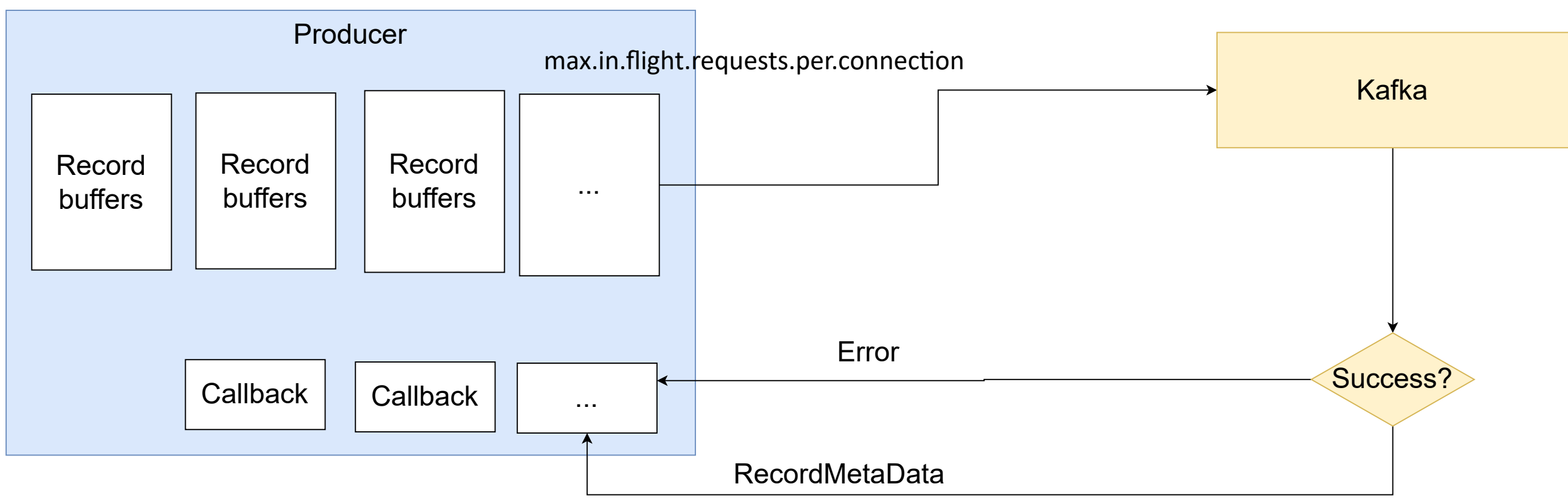
Same Topic



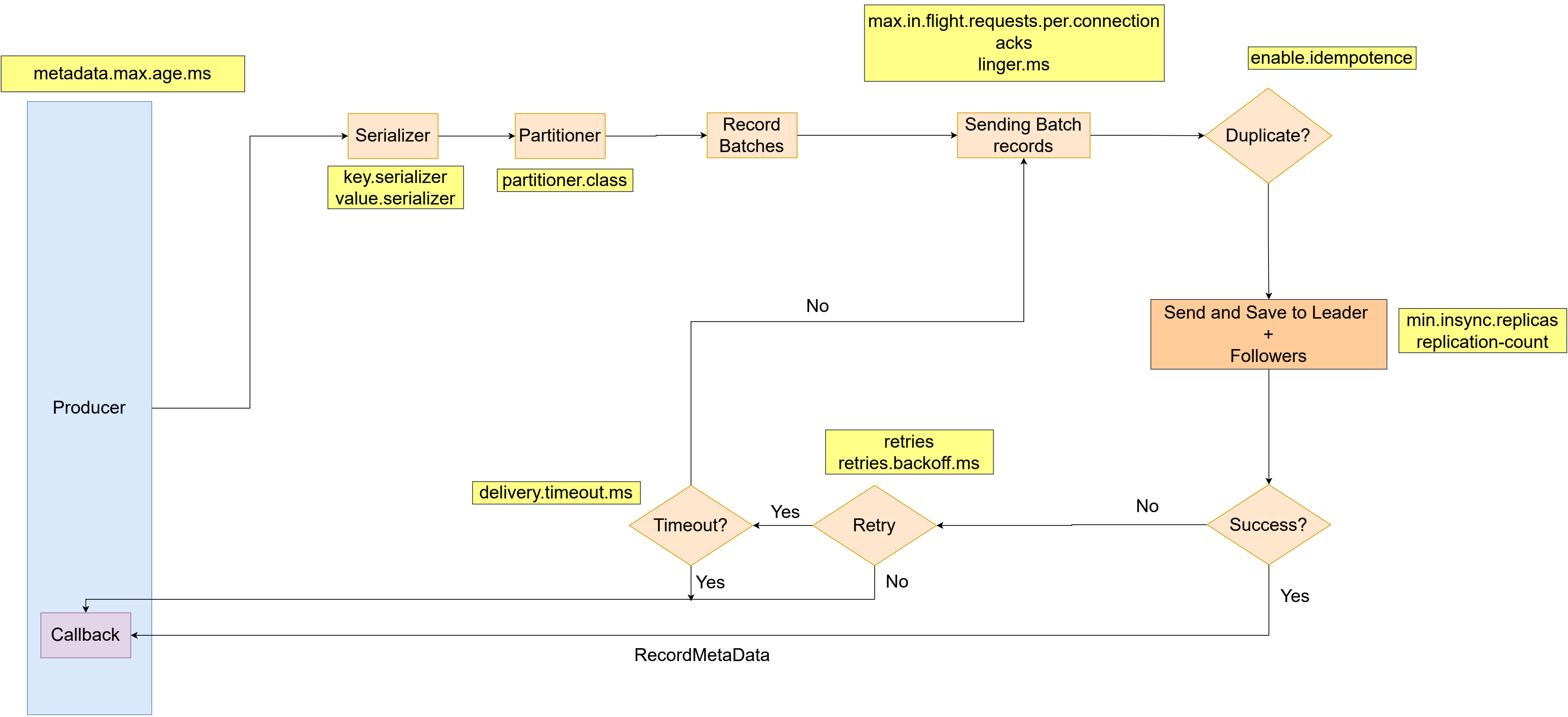
ack configuration



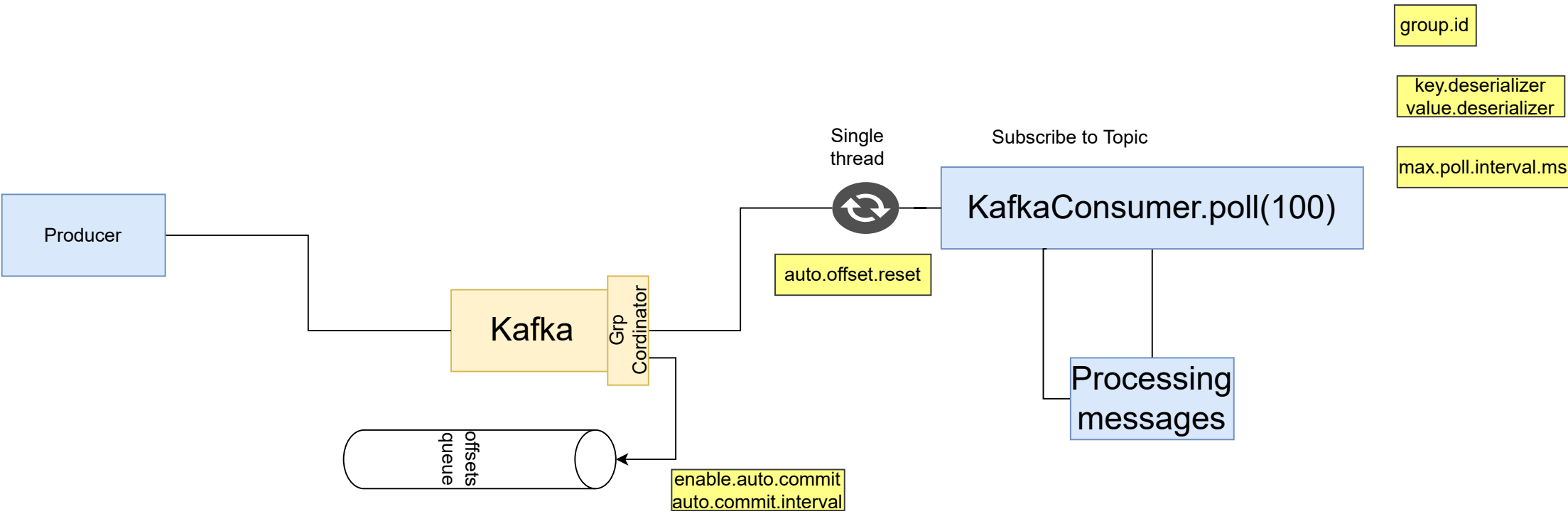
max.in.flight.requests.per.connection Configuration



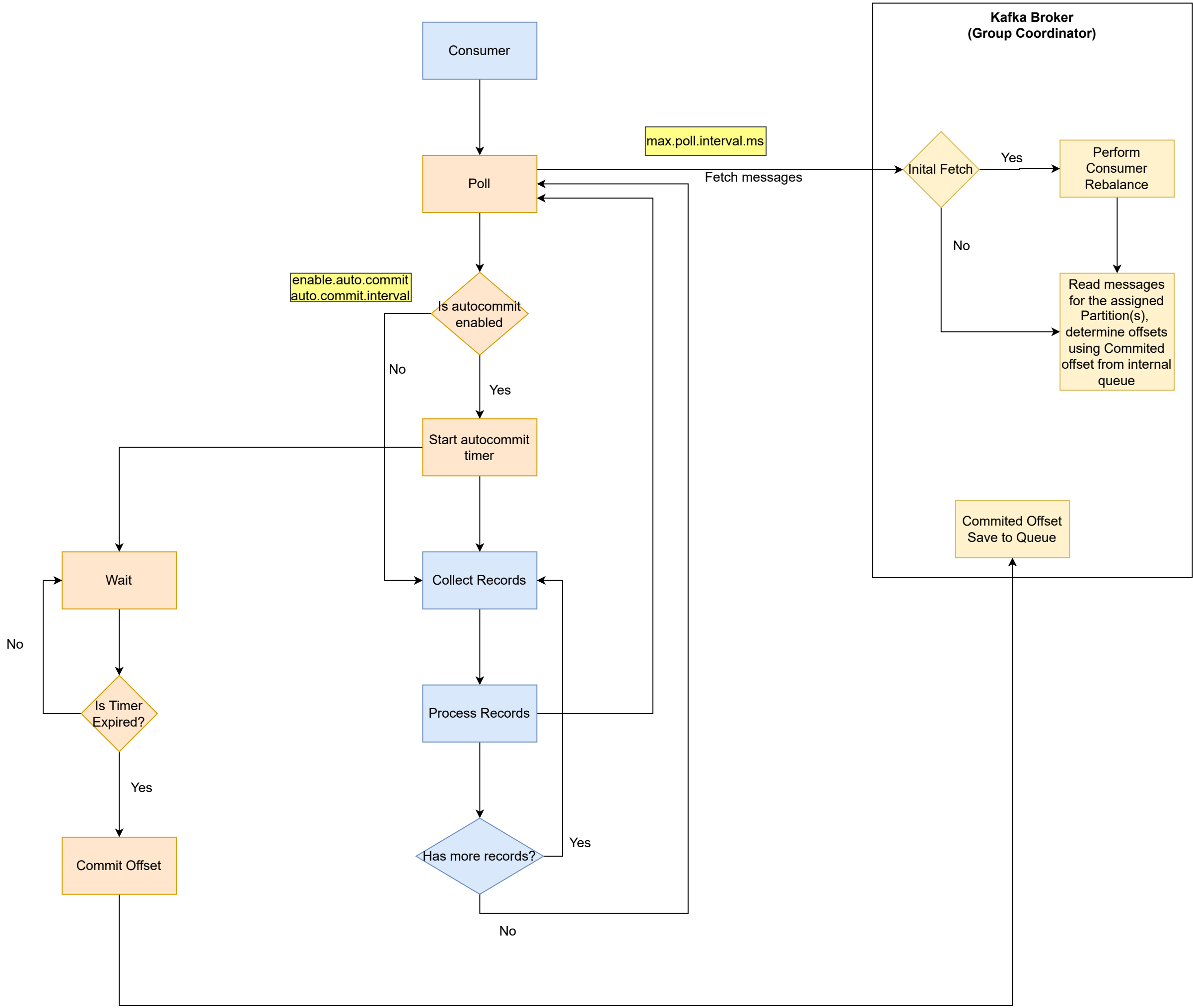
Consolidated Flow



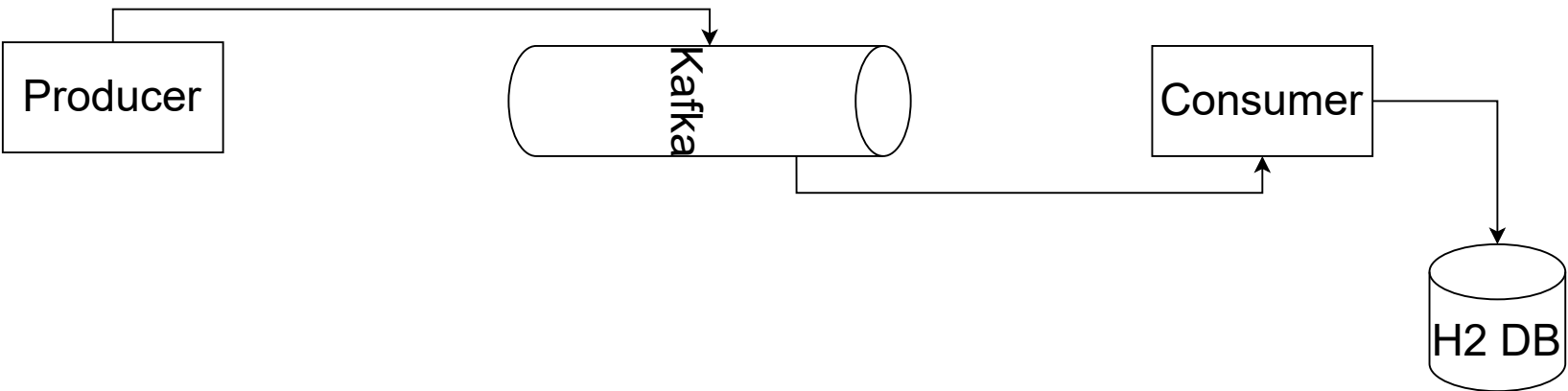
Consumer Pooling

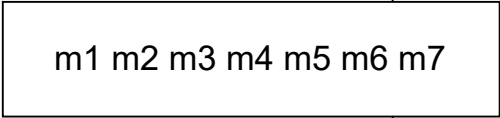
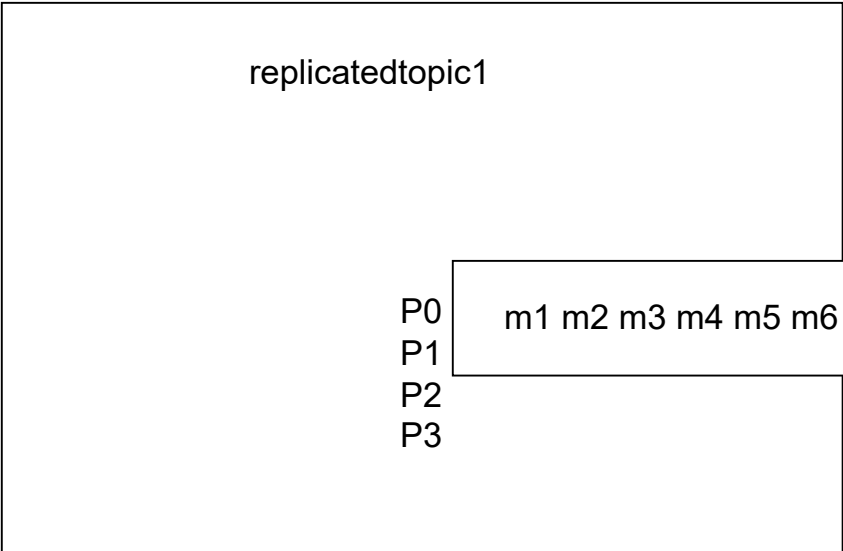
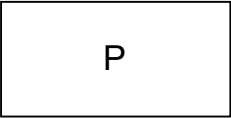


Consumer Internal Working



Persistency of read messages





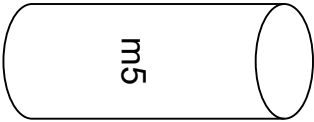
P0
P1
P2
P3

m6 m7

m1 m2 m3 m4 m5

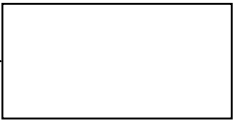
Current offset

C

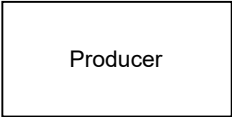


Committed offset

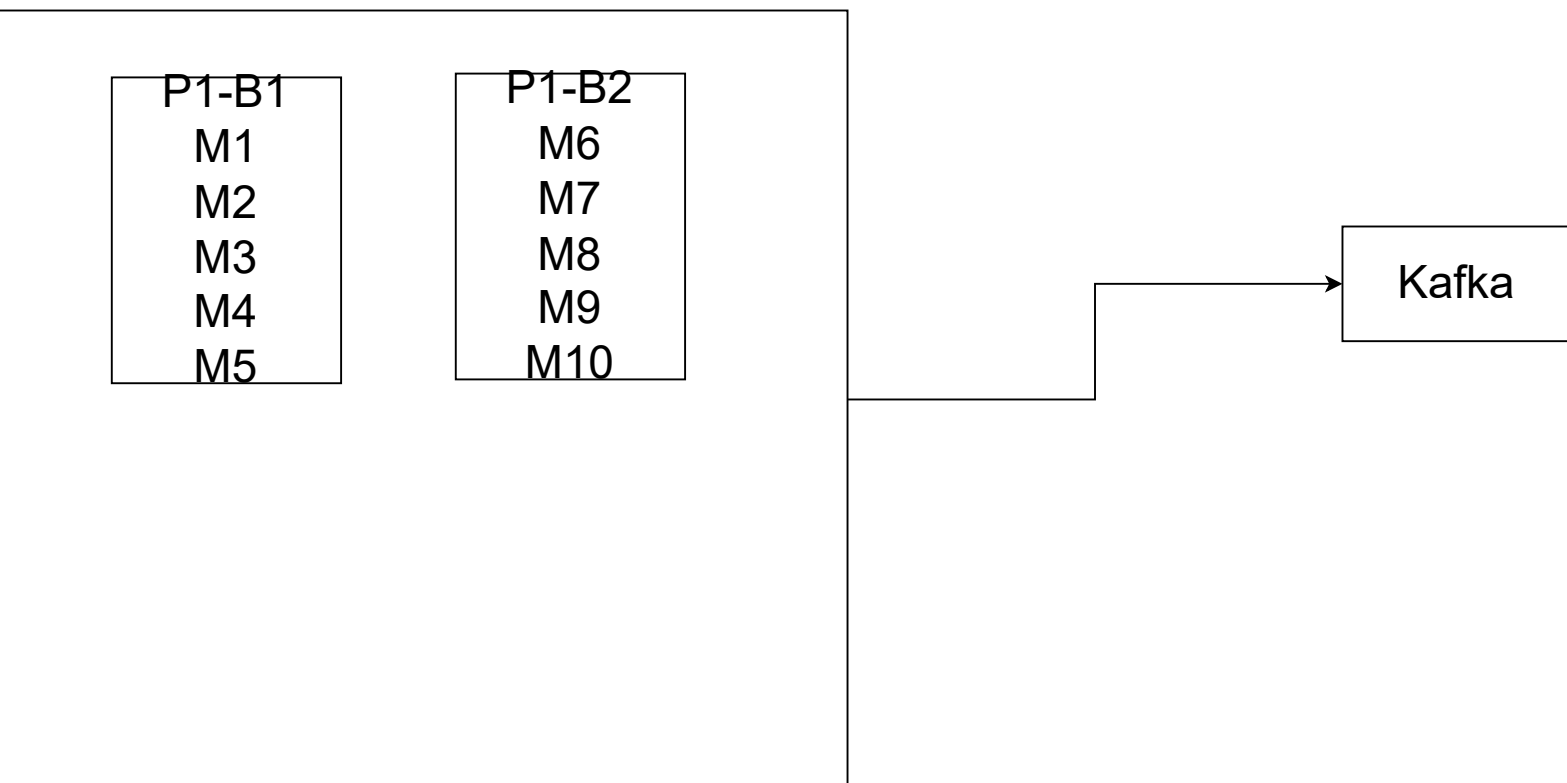
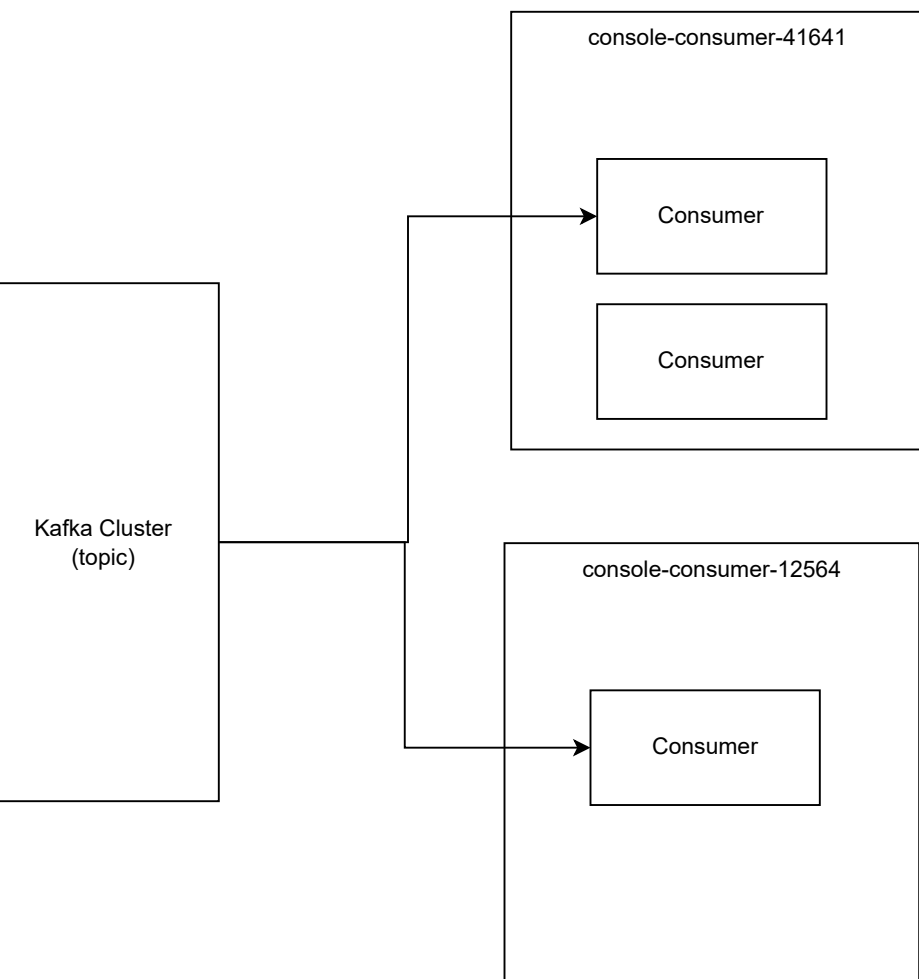
Partitions

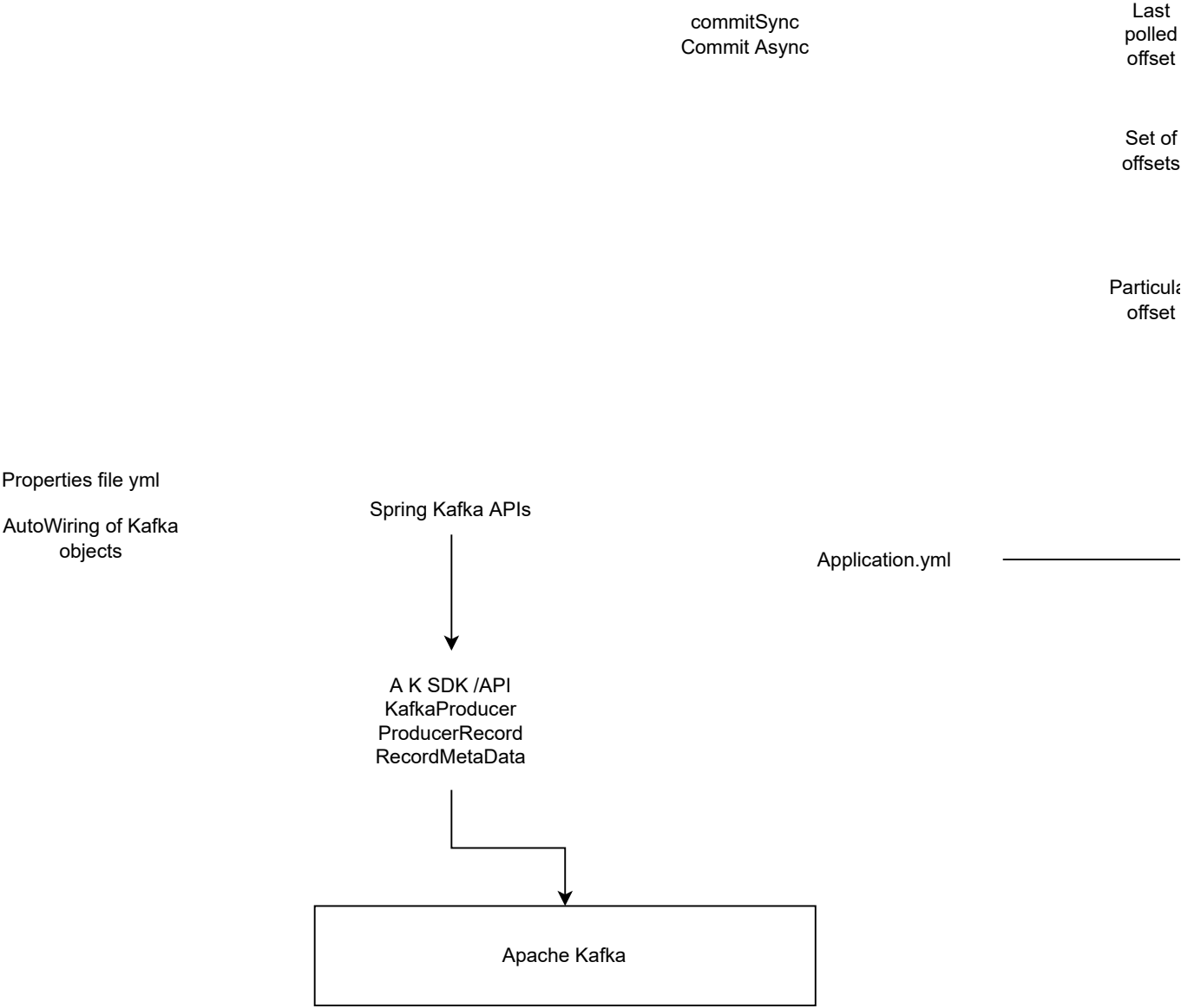


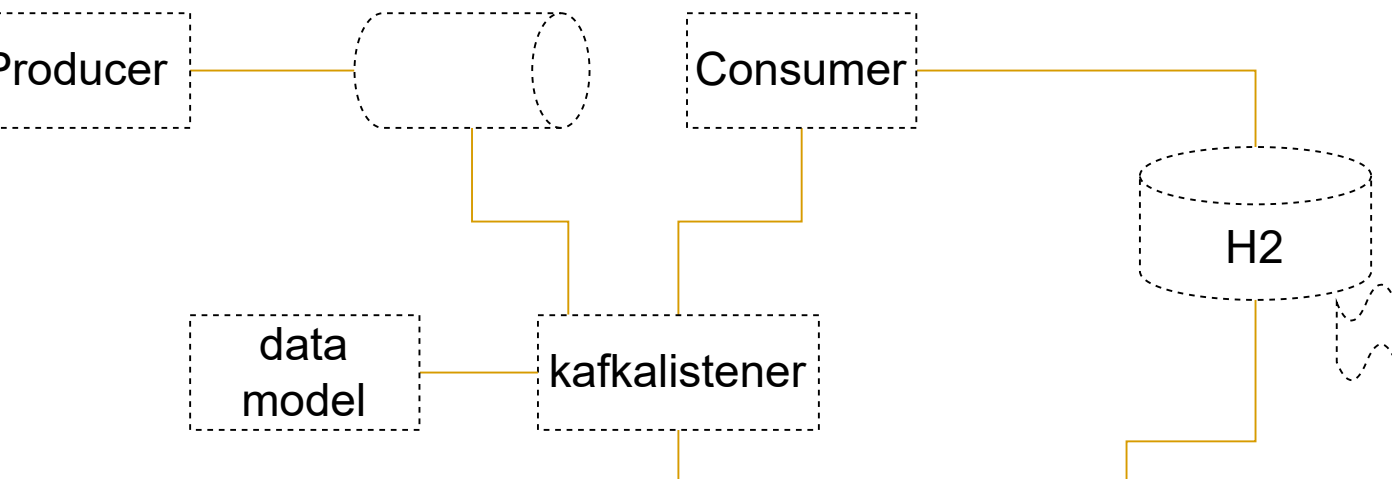
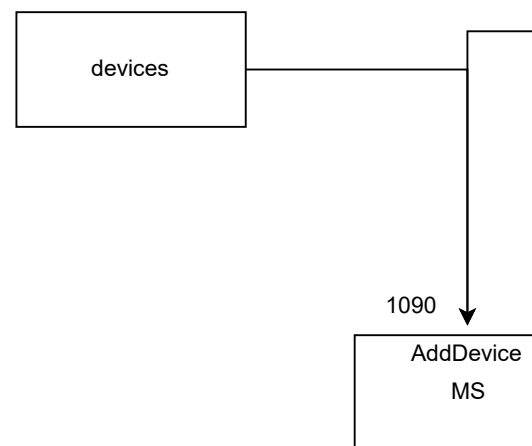
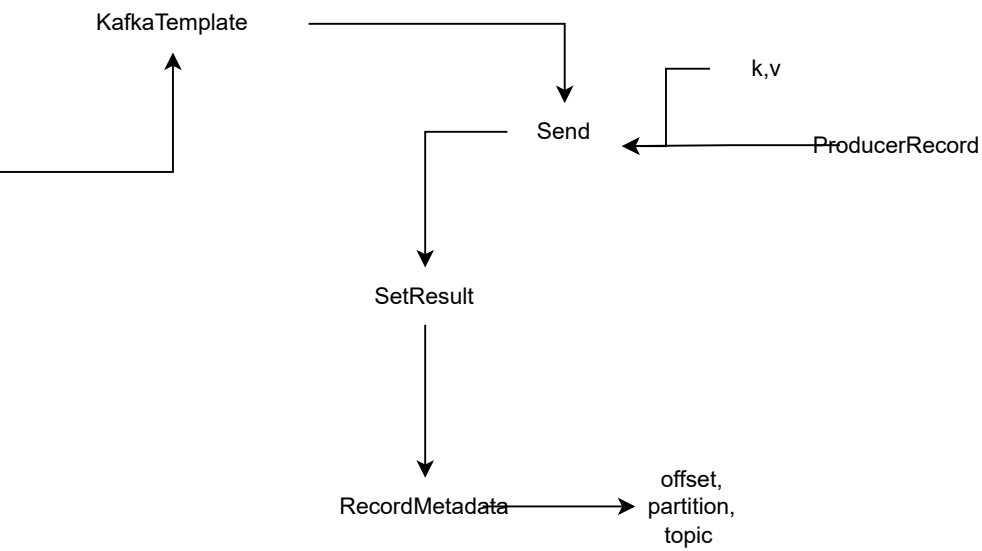
Config Kafkaconsu
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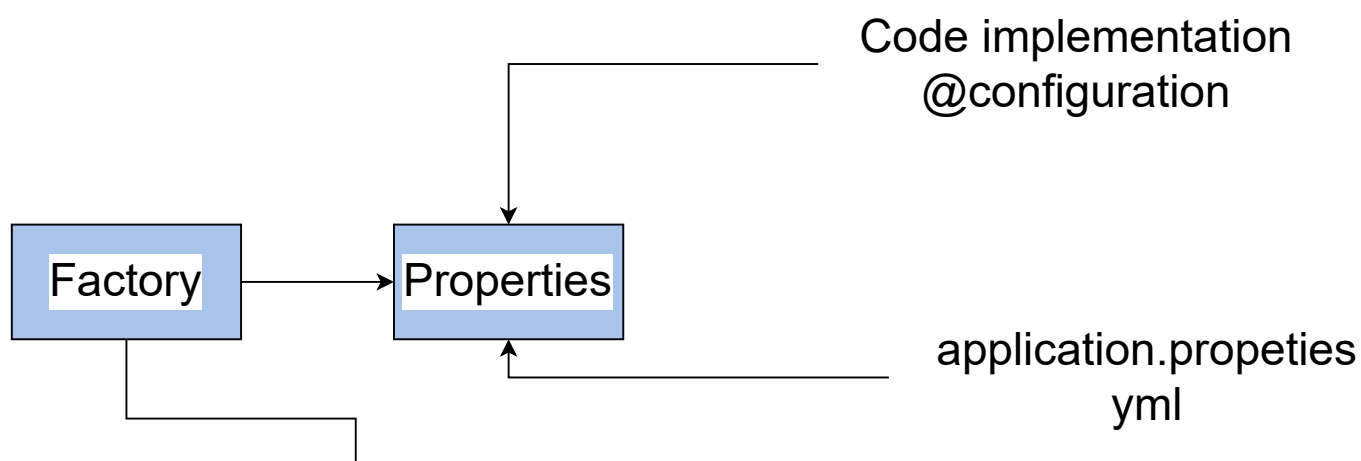
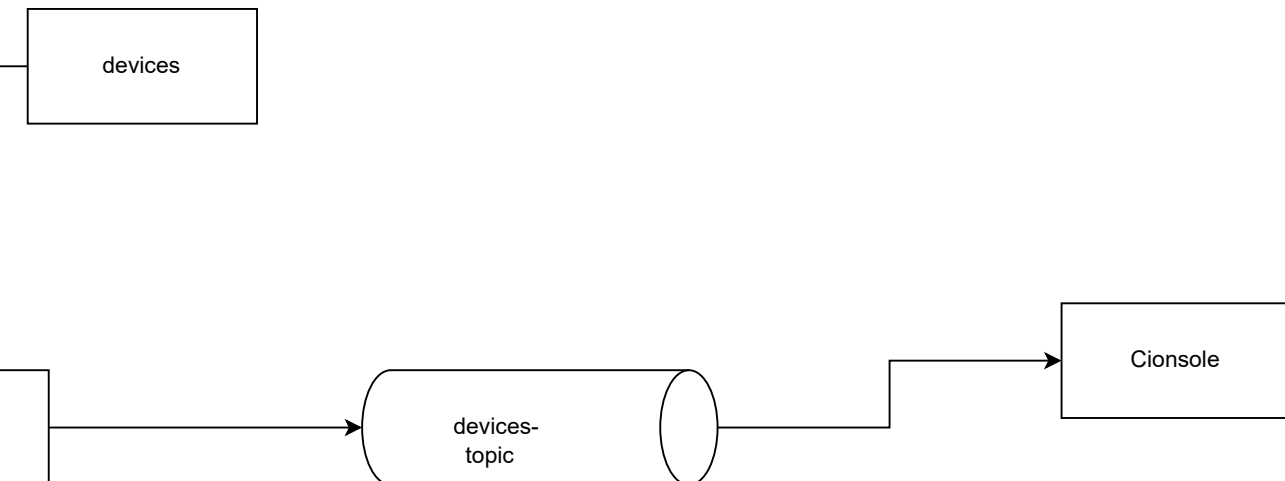


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message

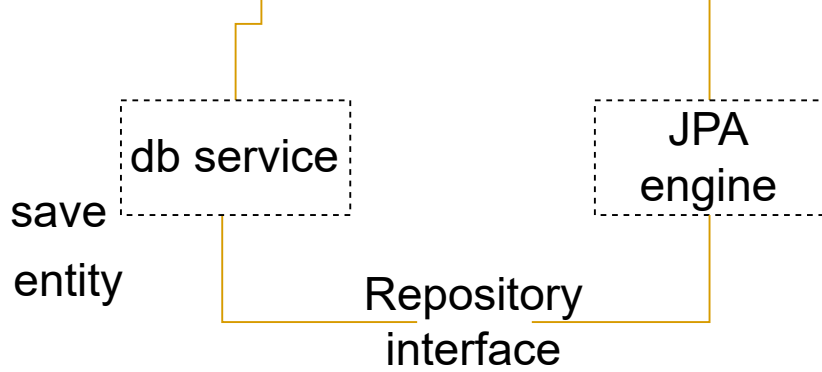
Queue

Partion

Partion

Partion

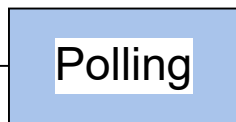




message message

message

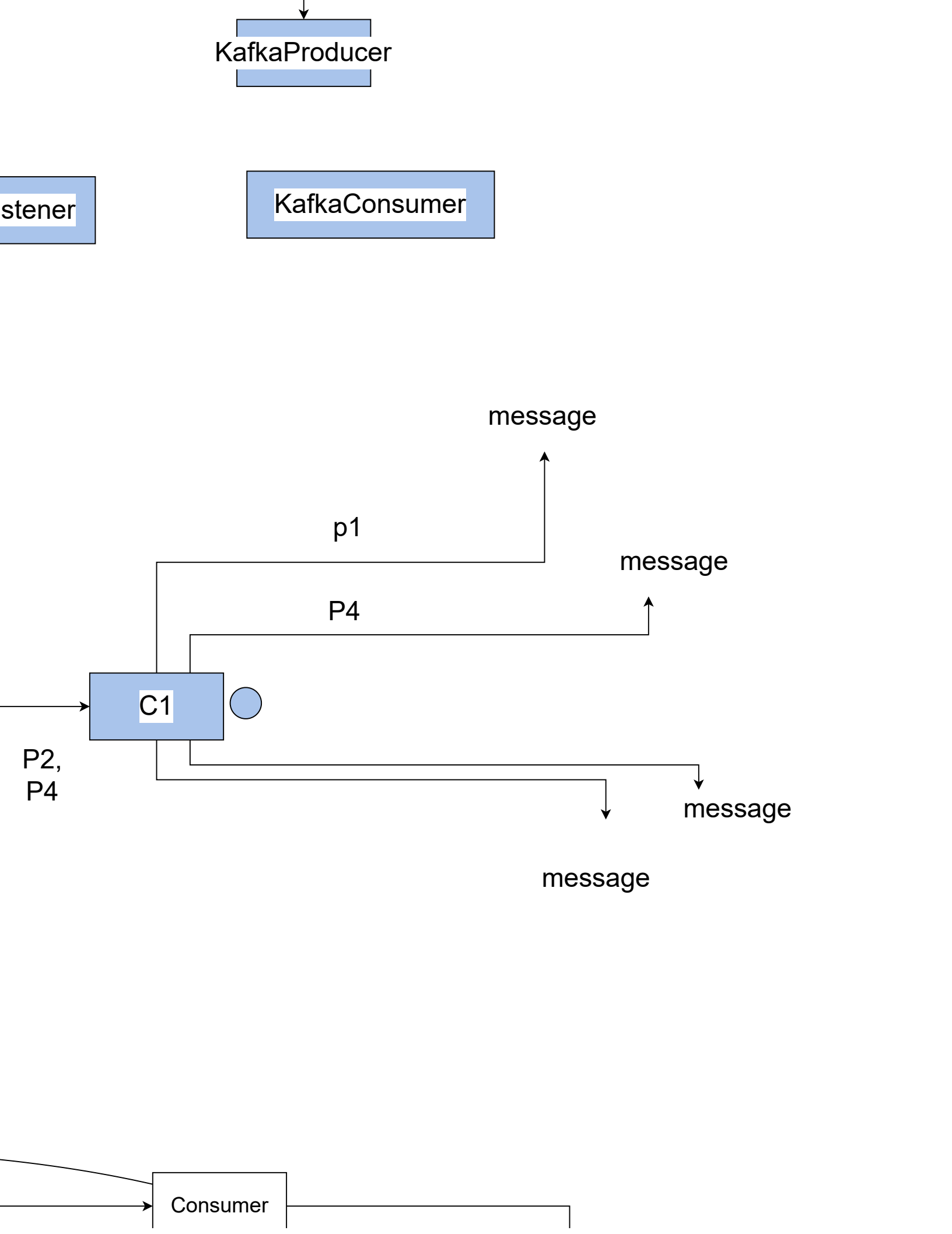
message message



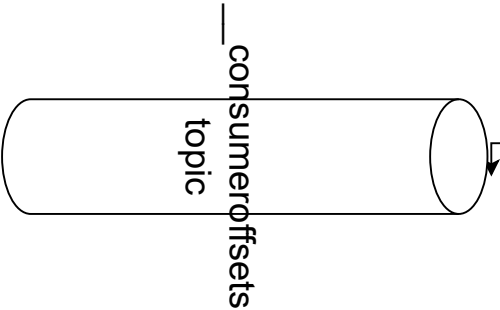
thread 1

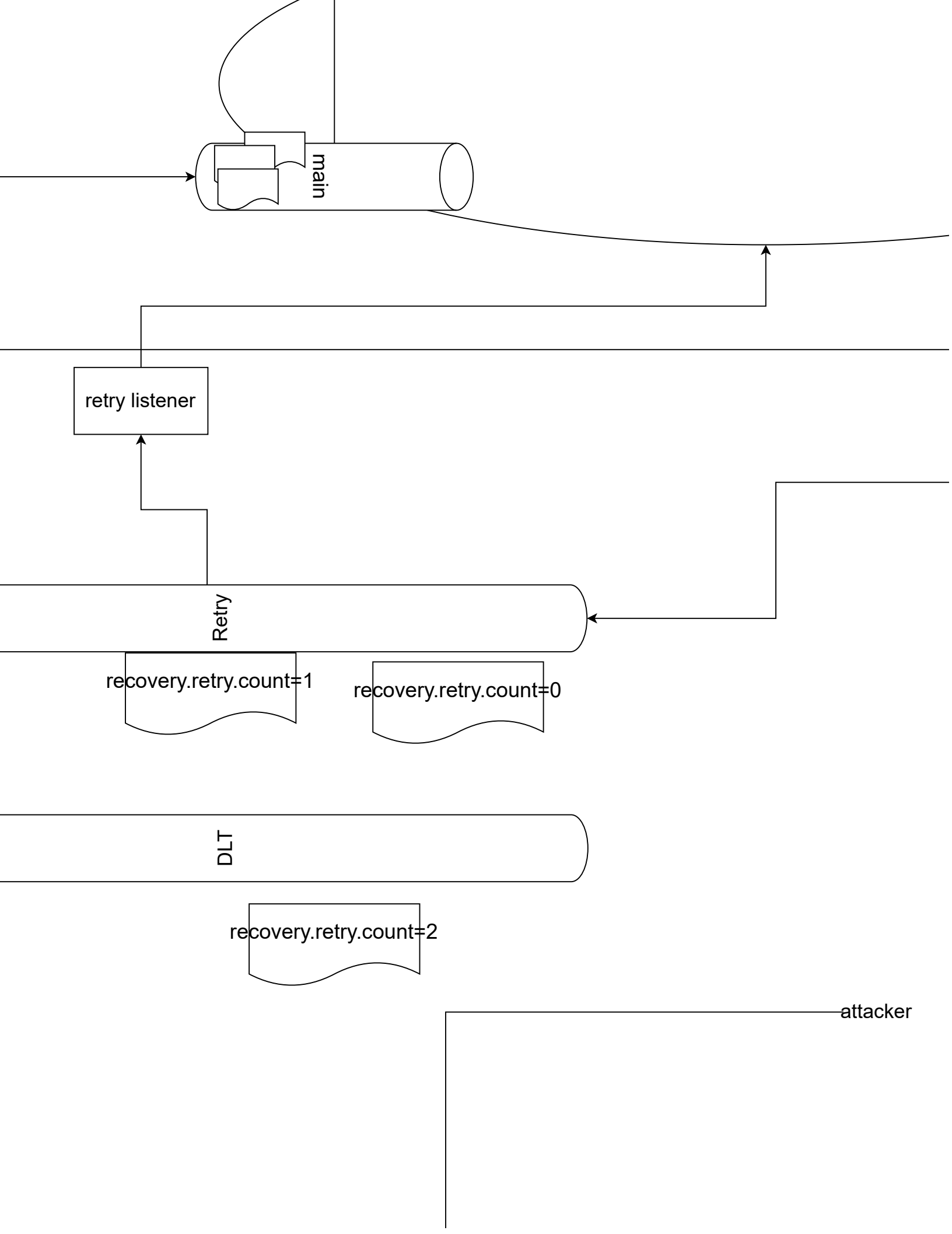
p1,
p2,
p3,
p4

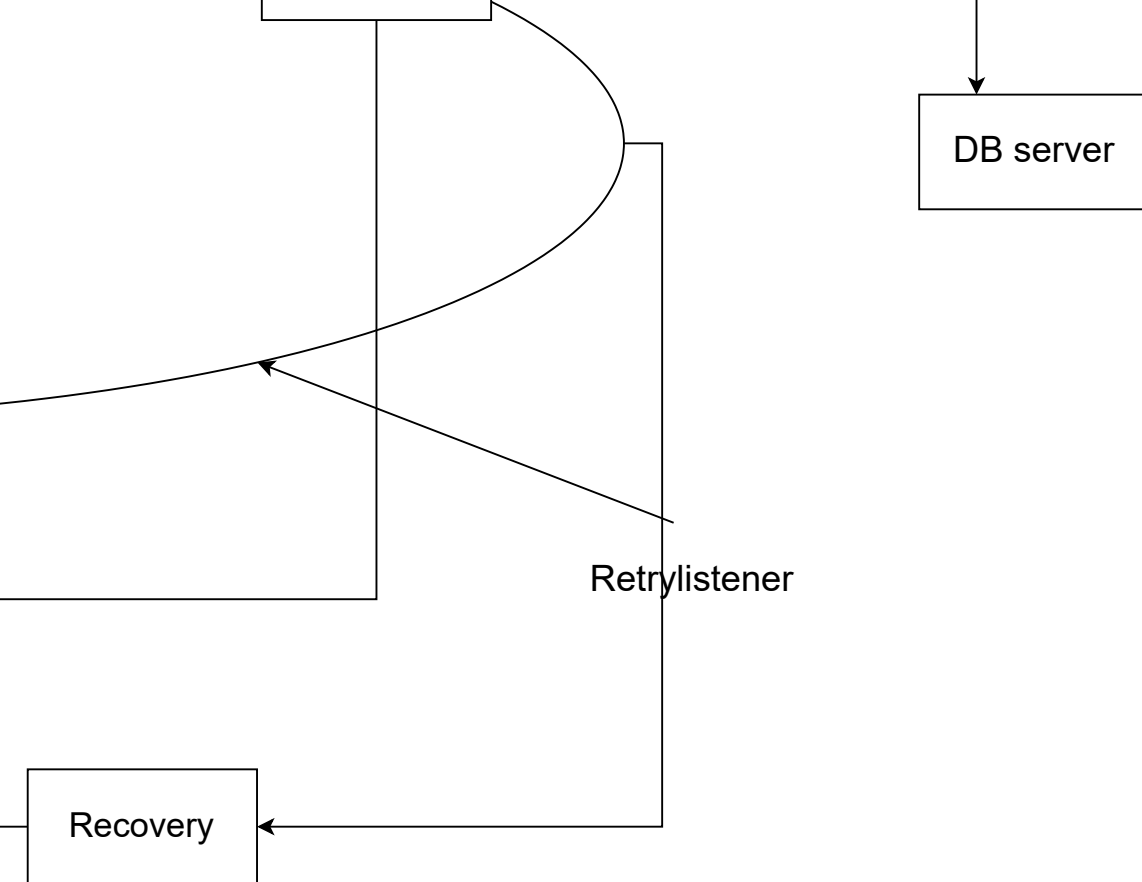
Spring Kafka controller retry



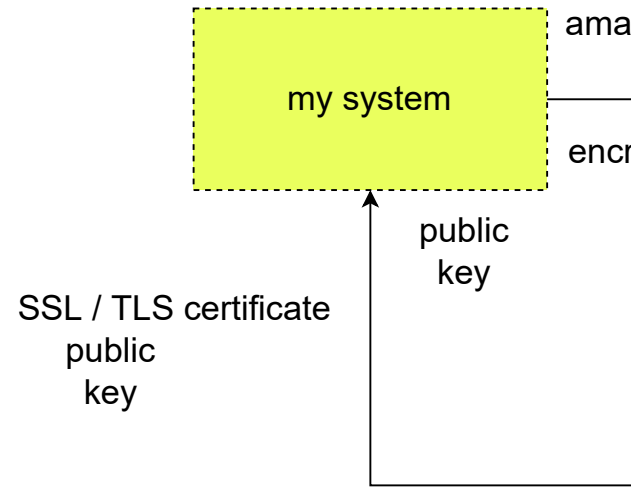
Producer

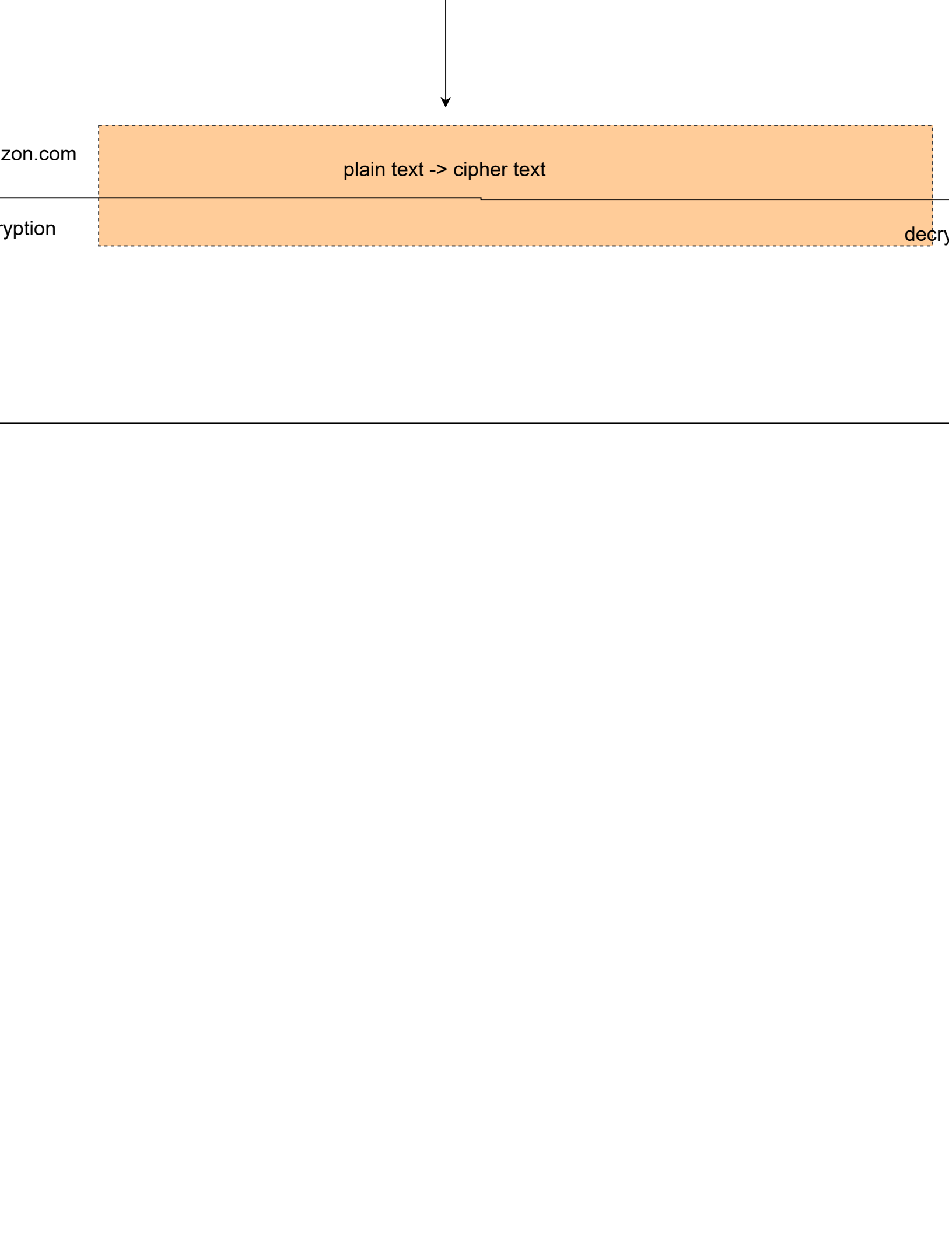


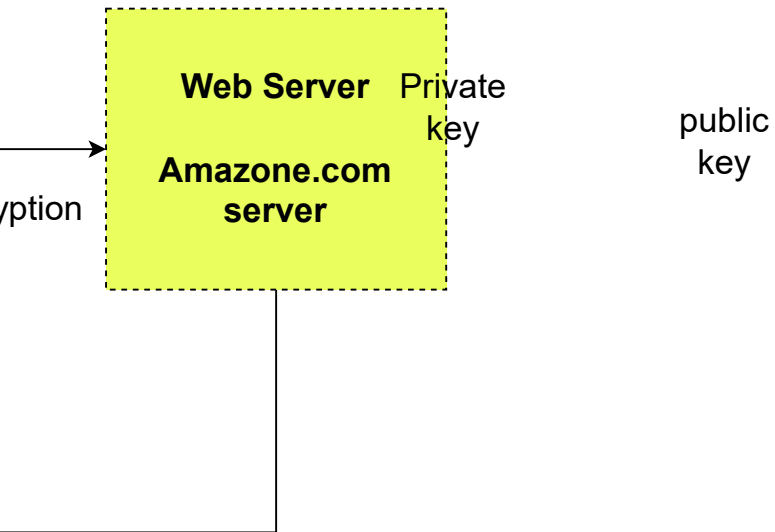




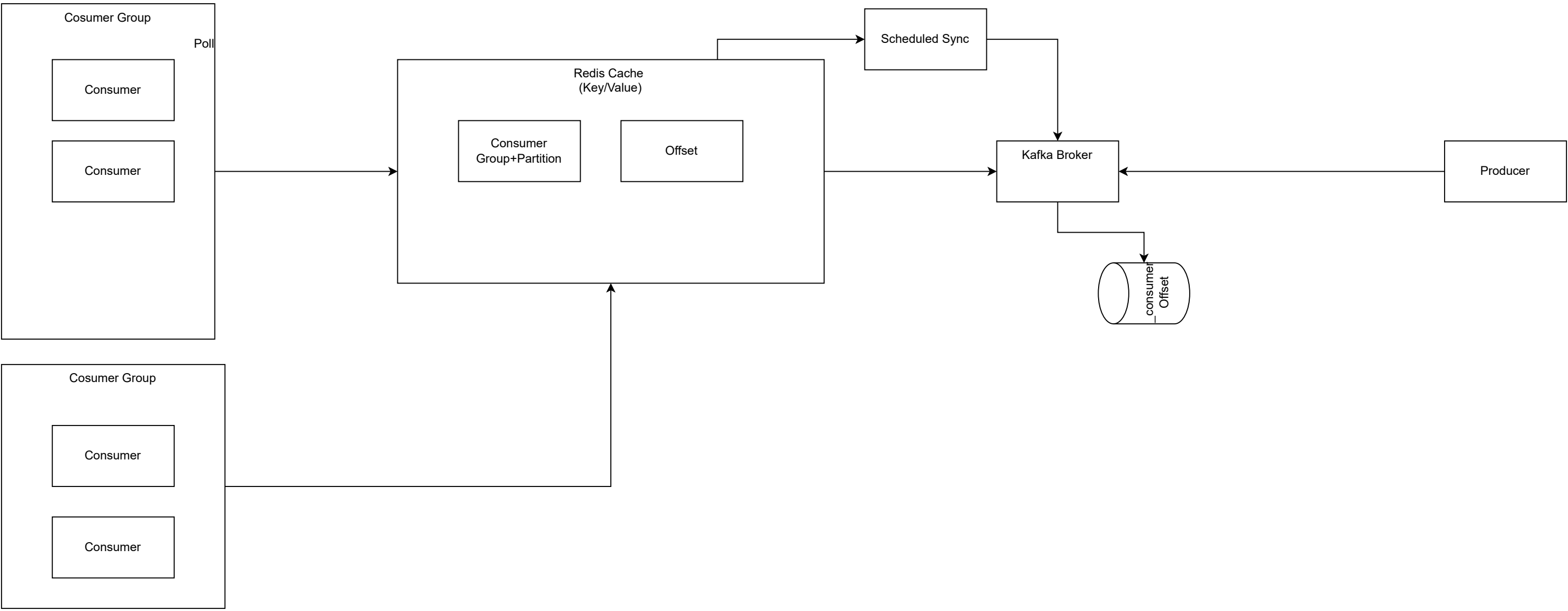
Trust store



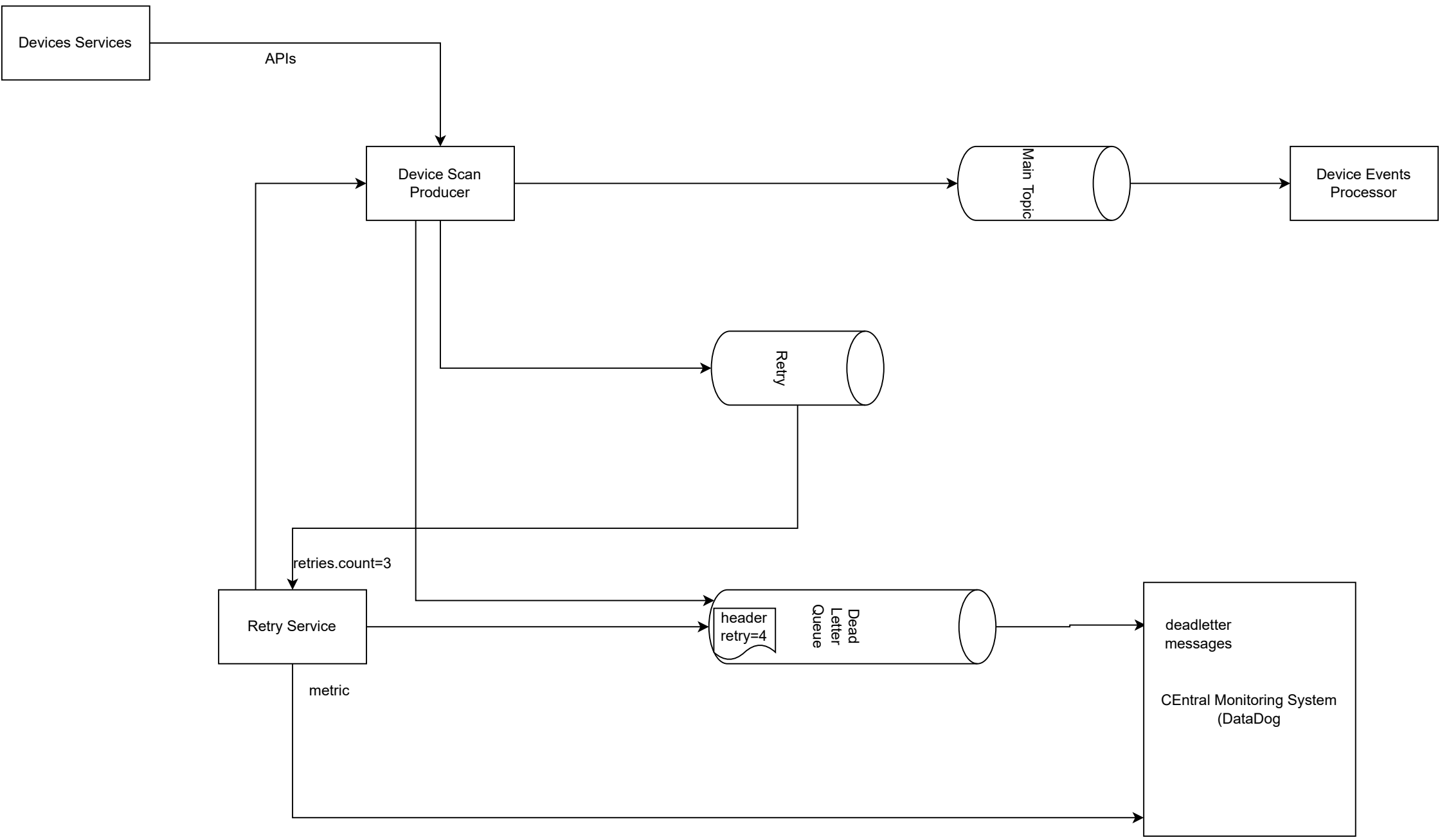




DIY Exercise - day 7

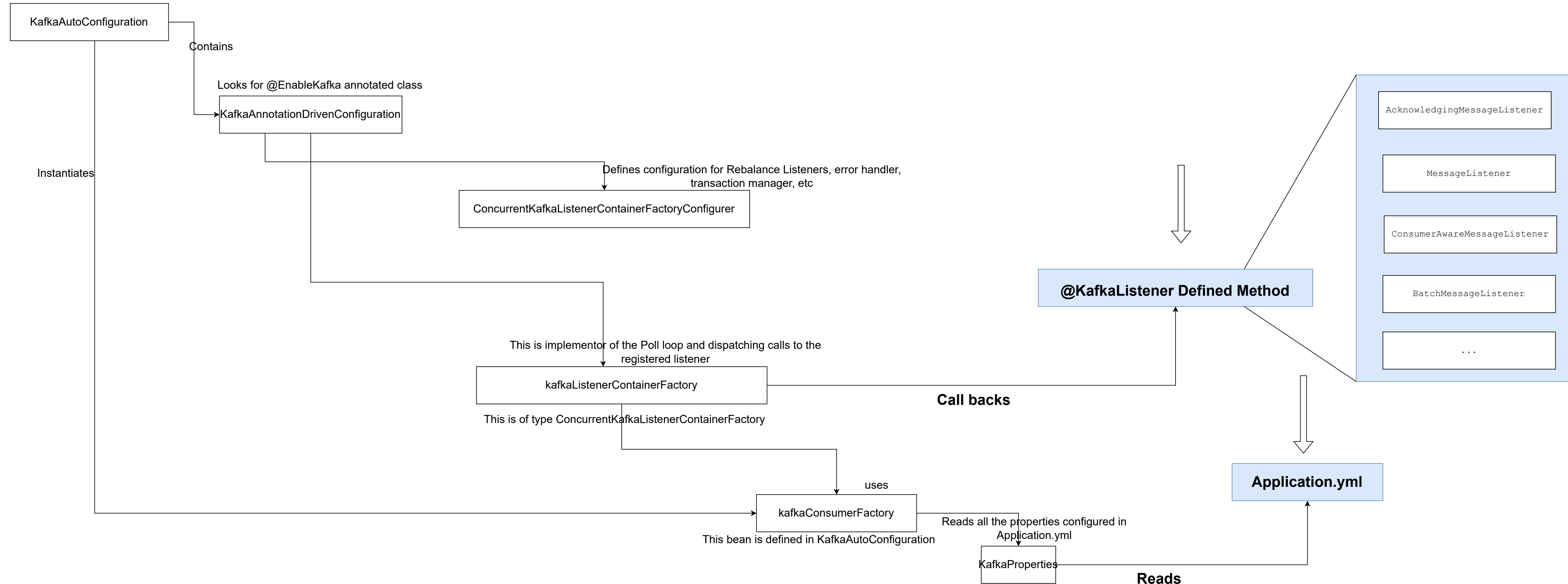


Producer Retry Mechanism

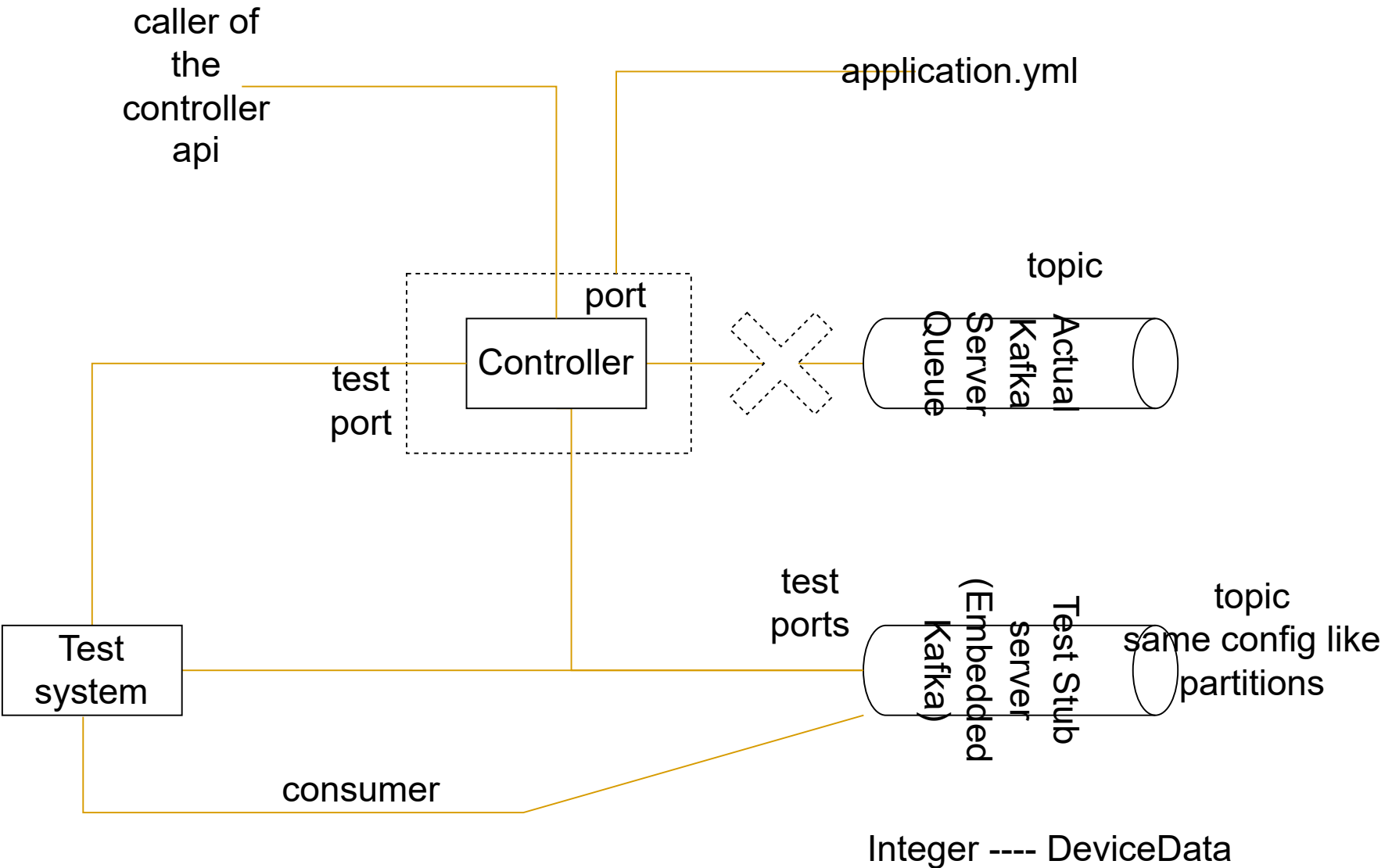


Spring Kafka Consumer Internals

Instantiate needed beans and initiates Other objects

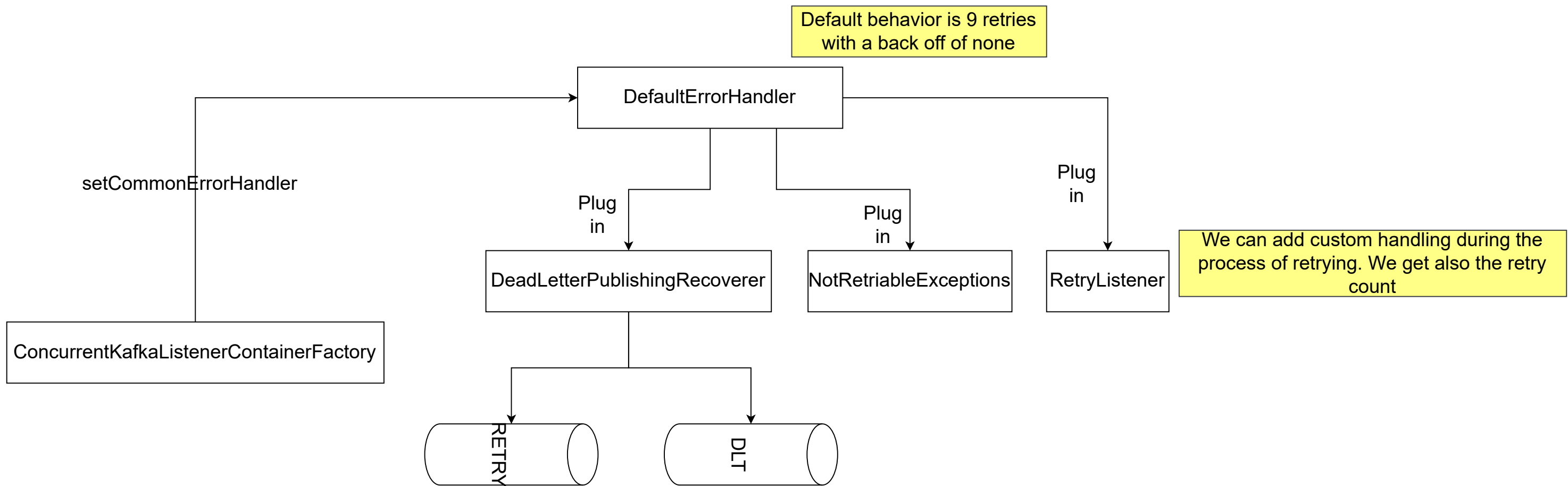


Producer Test

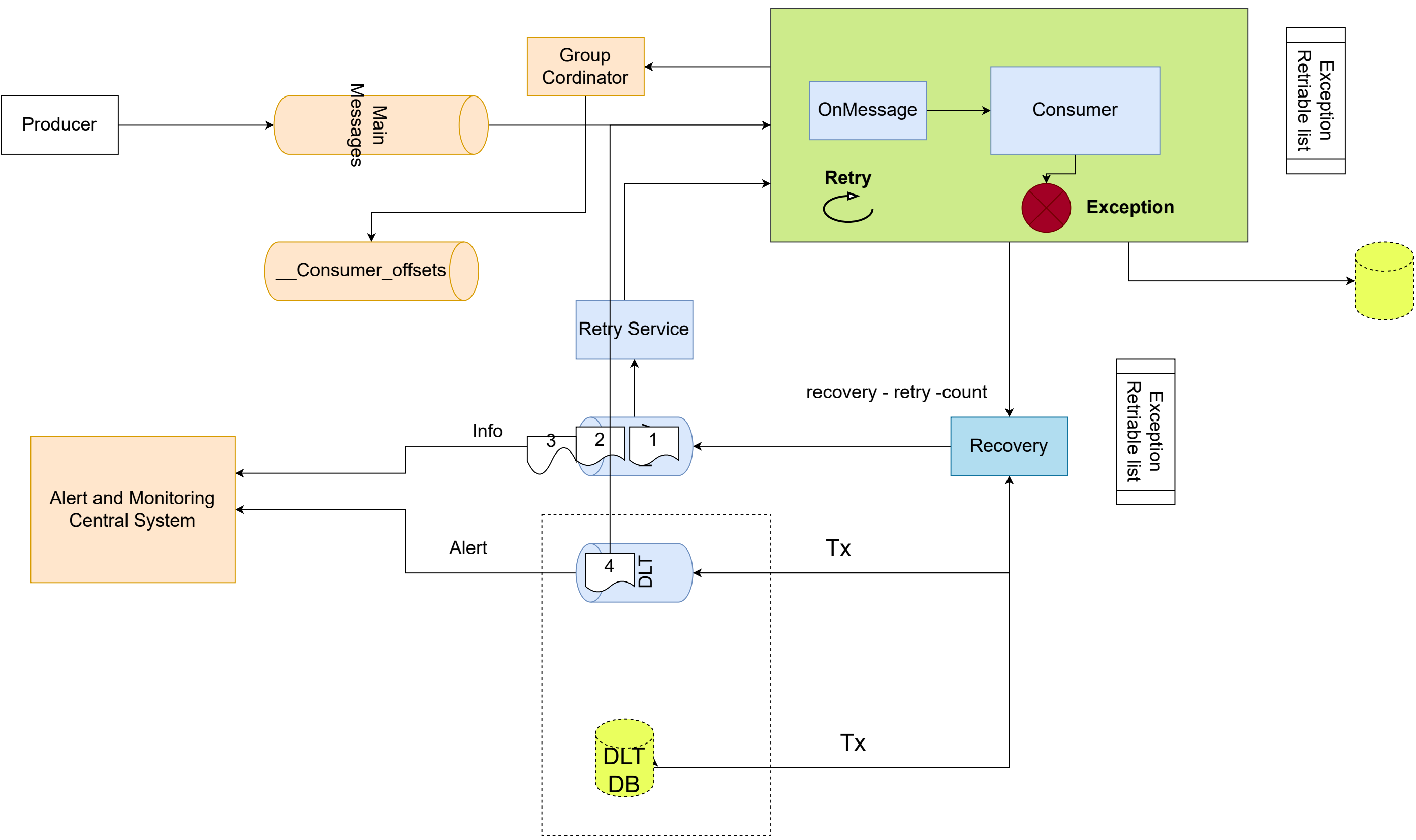


Consumer Error Handling & Recovery Mechanism

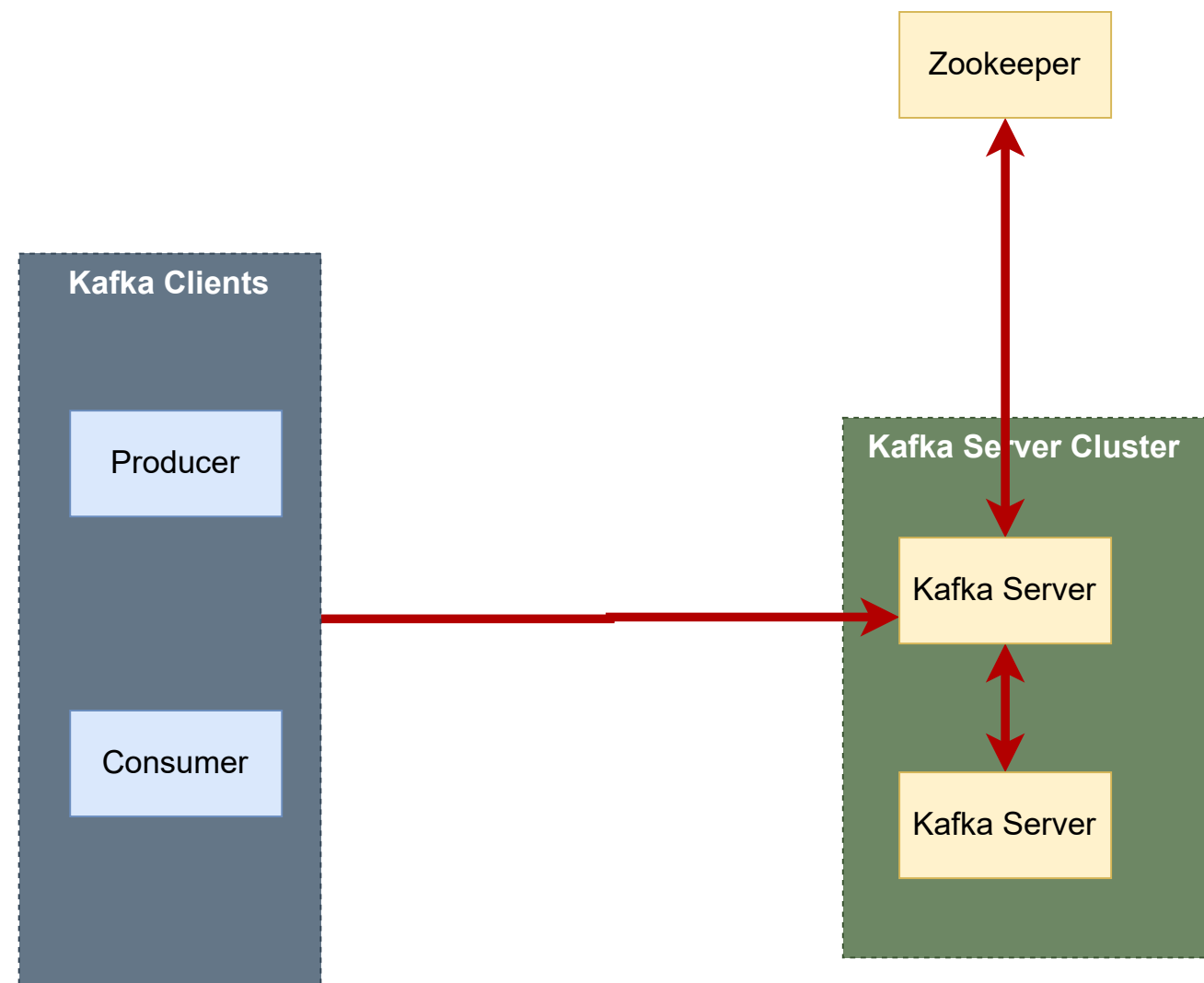
Spring Kafka Consumer Classes



Recovery



Communications in Kafka Infra To Be Secured



Securing Kafka Client and Server using SSL

