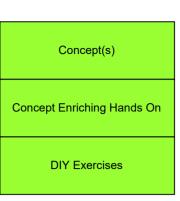
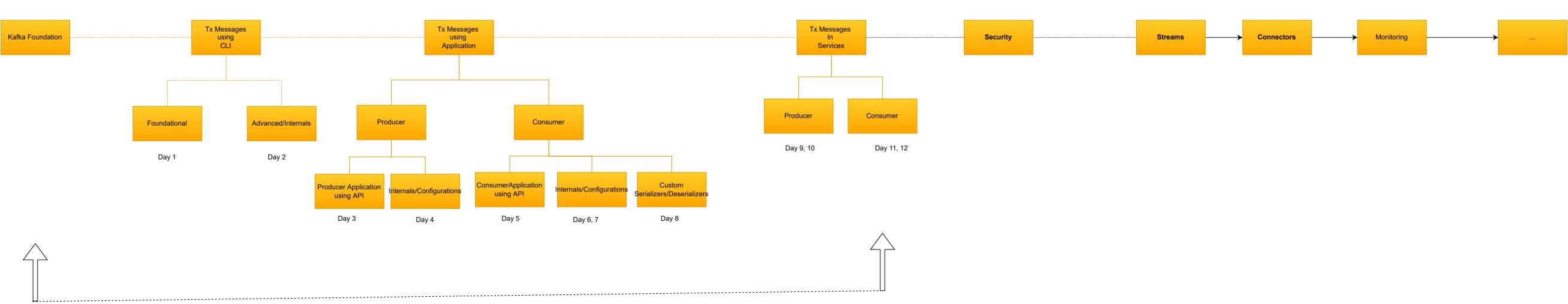
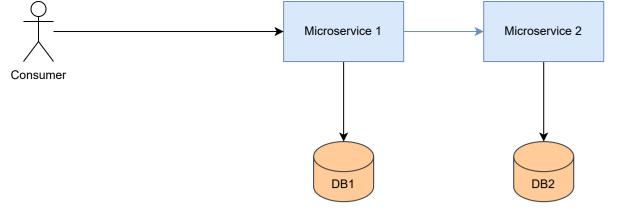
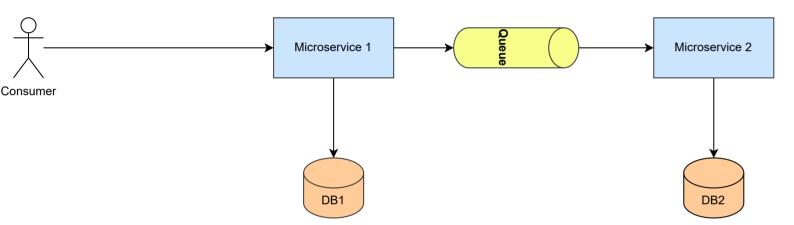
Teaching Principle

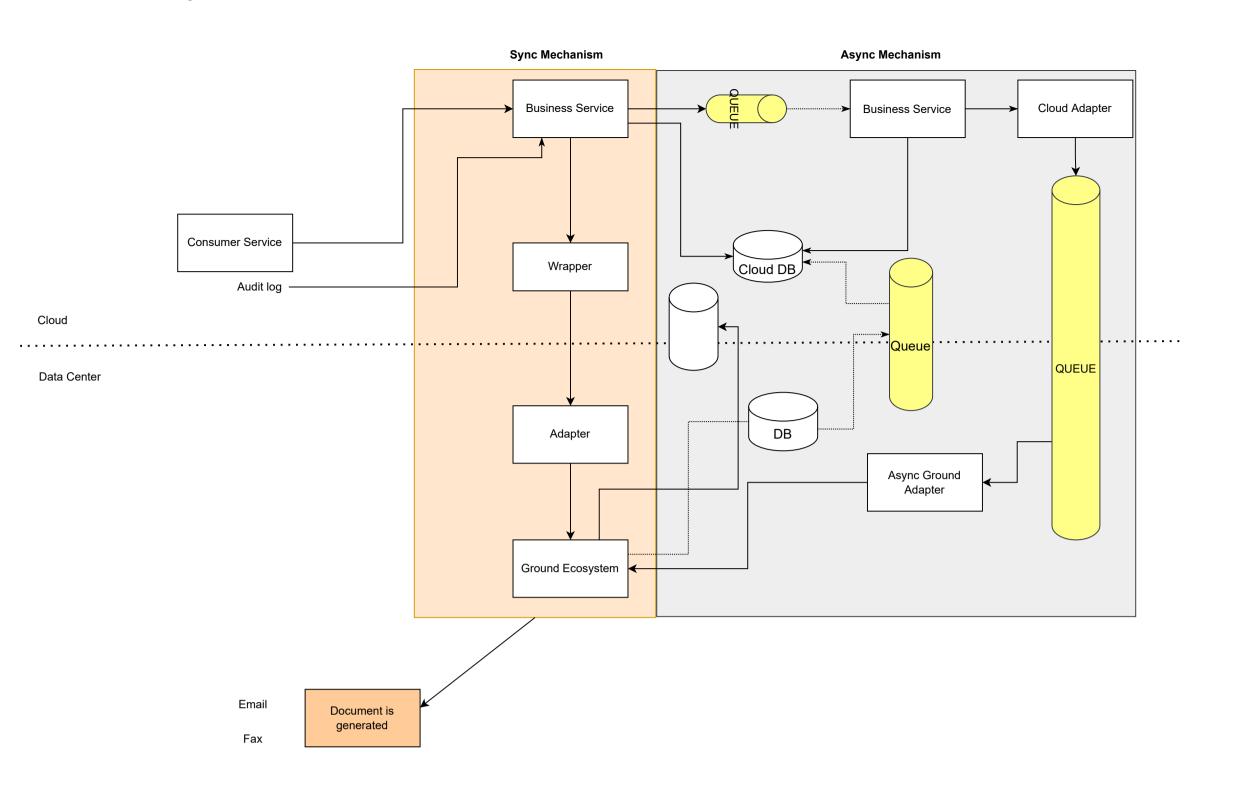


Learning Map

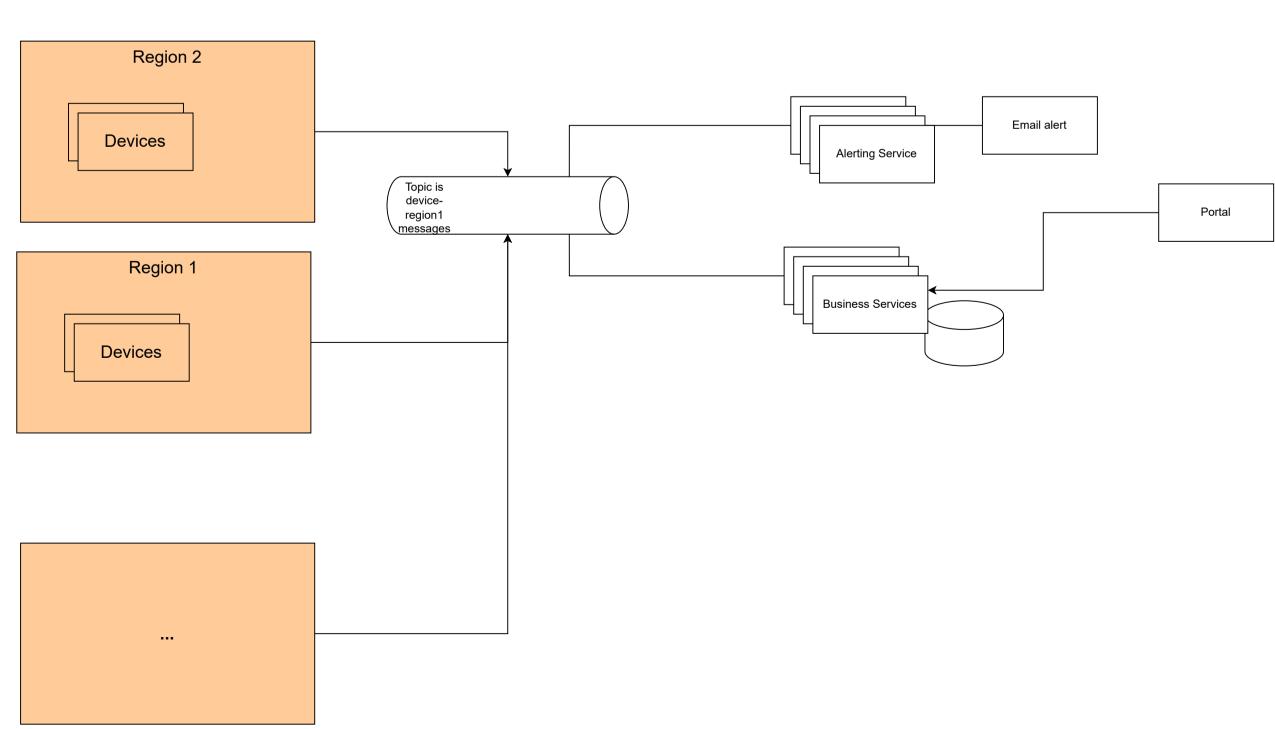




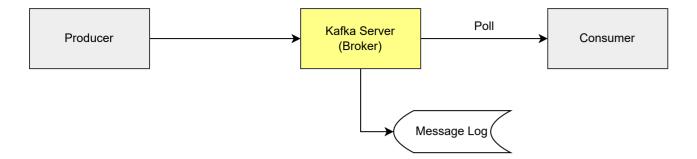




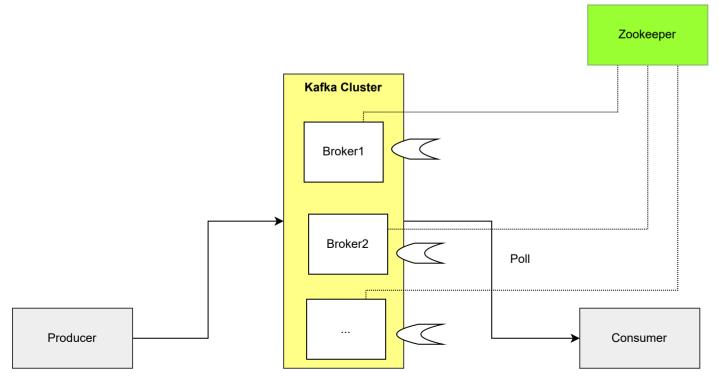
Use case 2



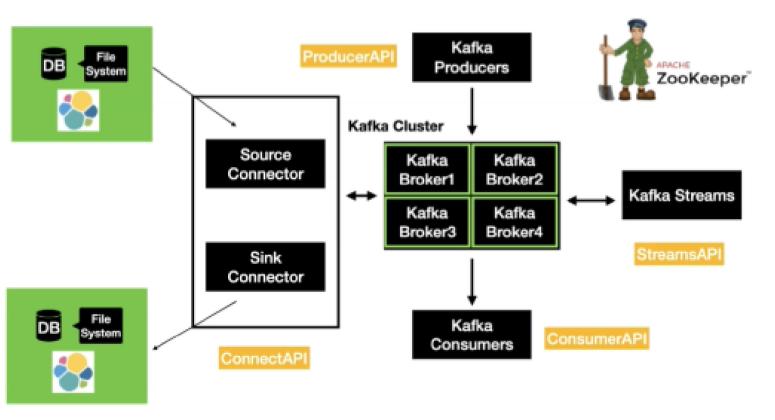
Basic Topology



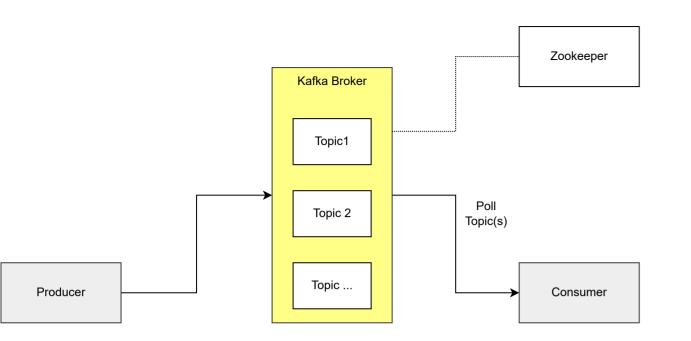
Distributed Topology



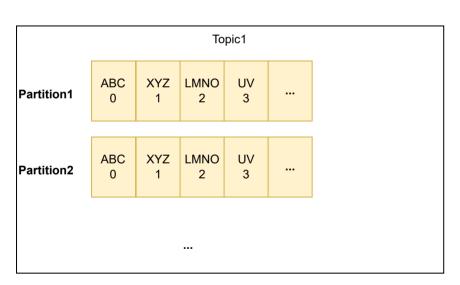
Kafka Landscape



Broker Anatomy



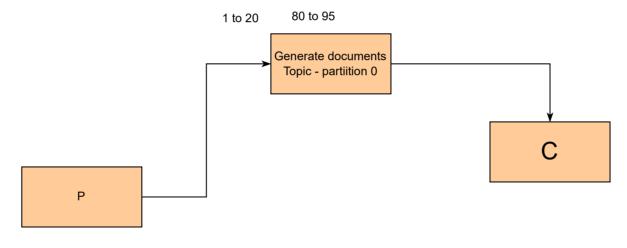
Topic Anatomy



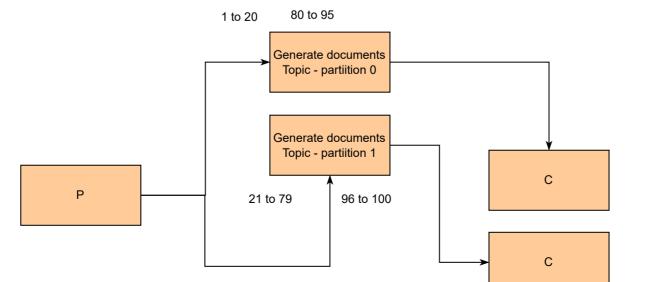
Message Anatomy

Header

Topic-Same



Topic-Same

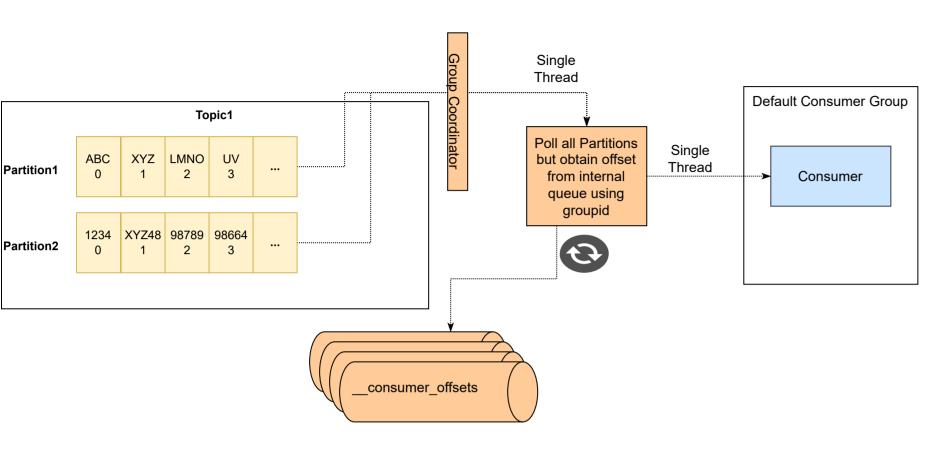


Key(optional)

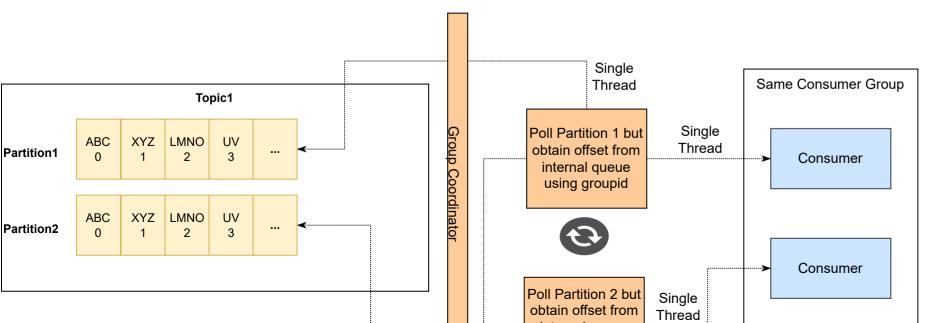
Value

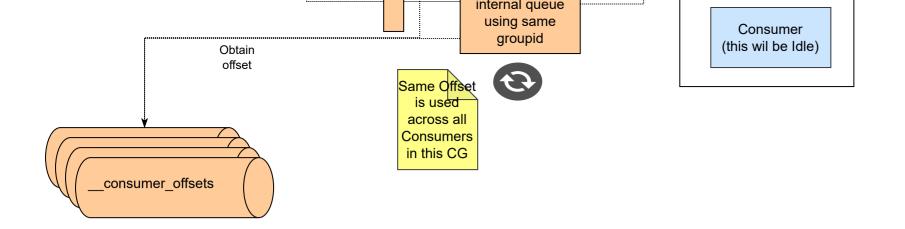
Timestamp

Default Consumer Group

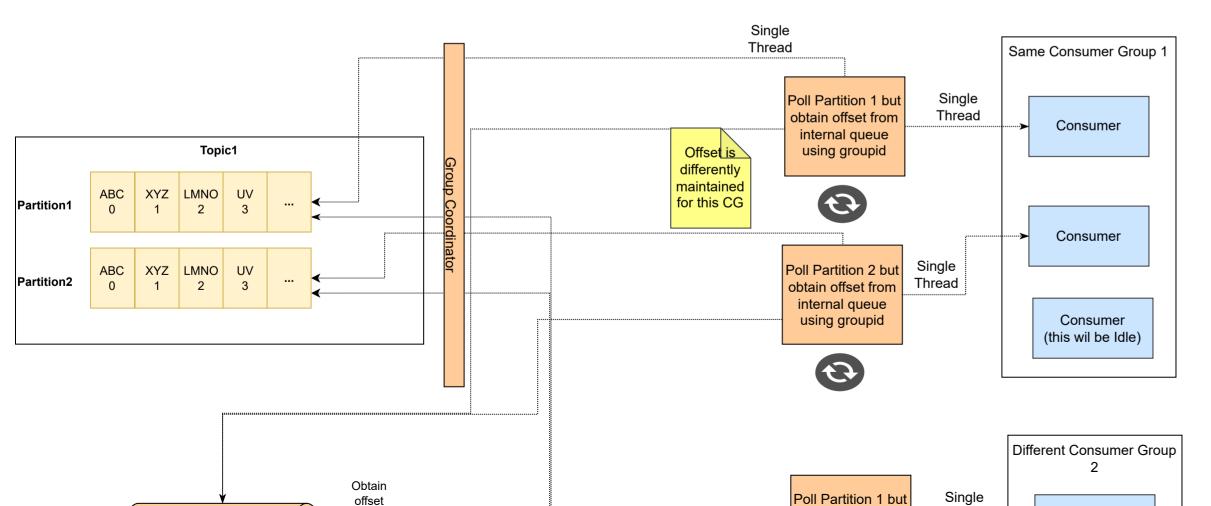


Using same Consumer Group to Read Messages at Scale

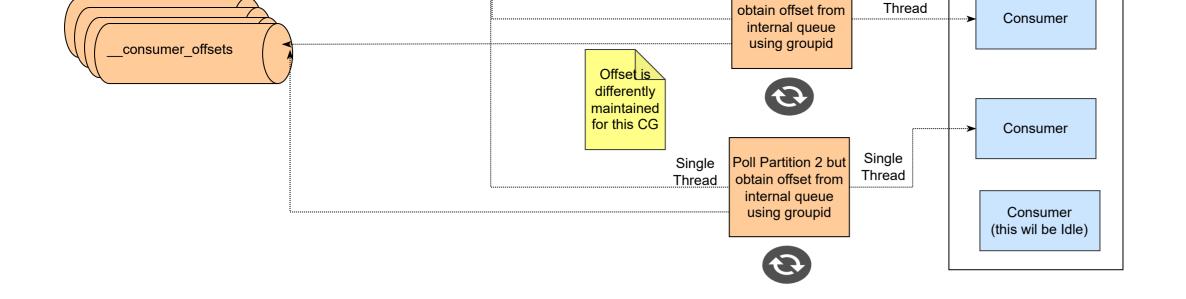




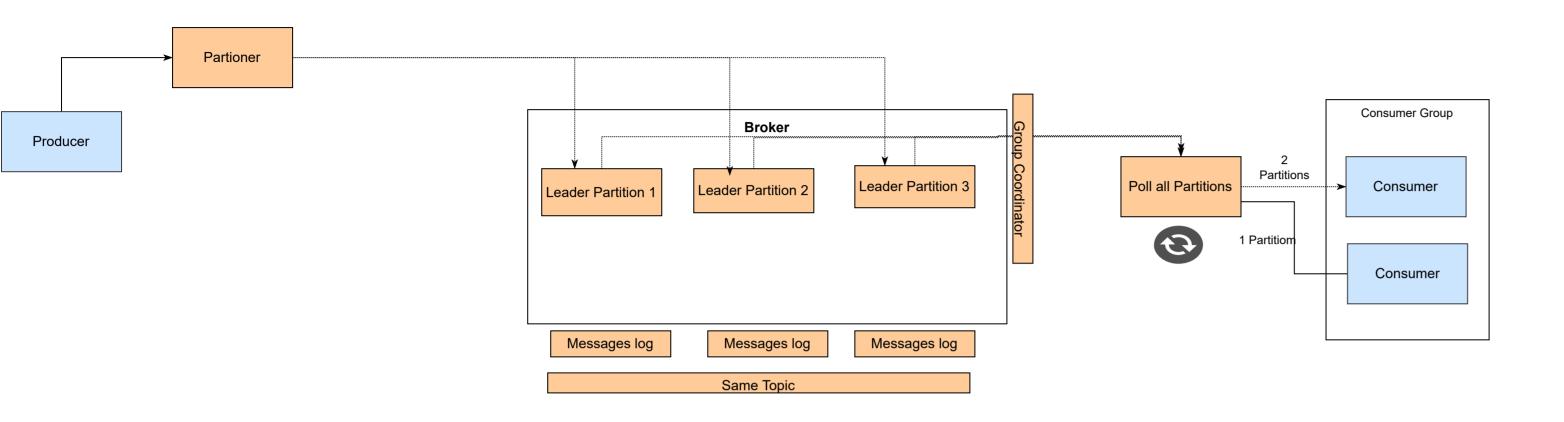
Using Different Consumer Group to Read Messages From Same Topic at Scale



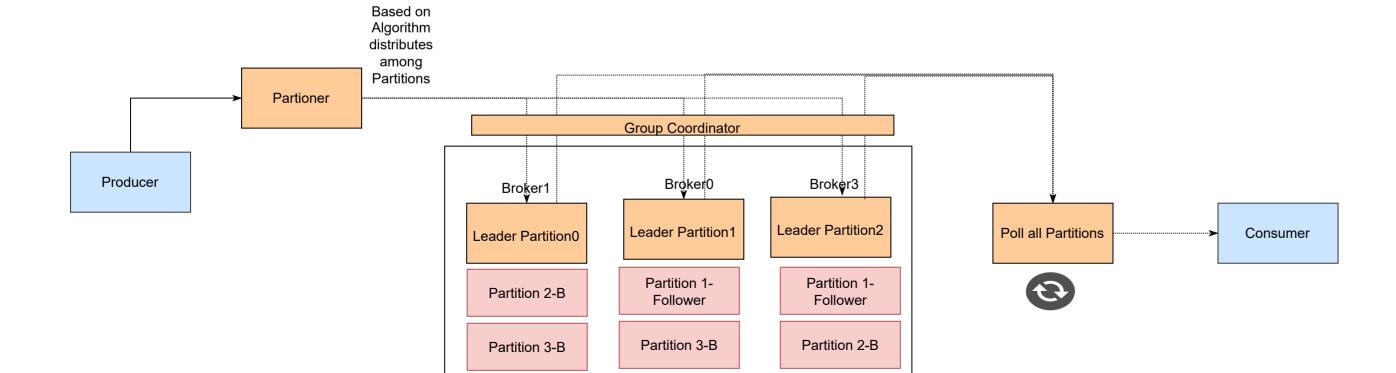




Standalone Topology

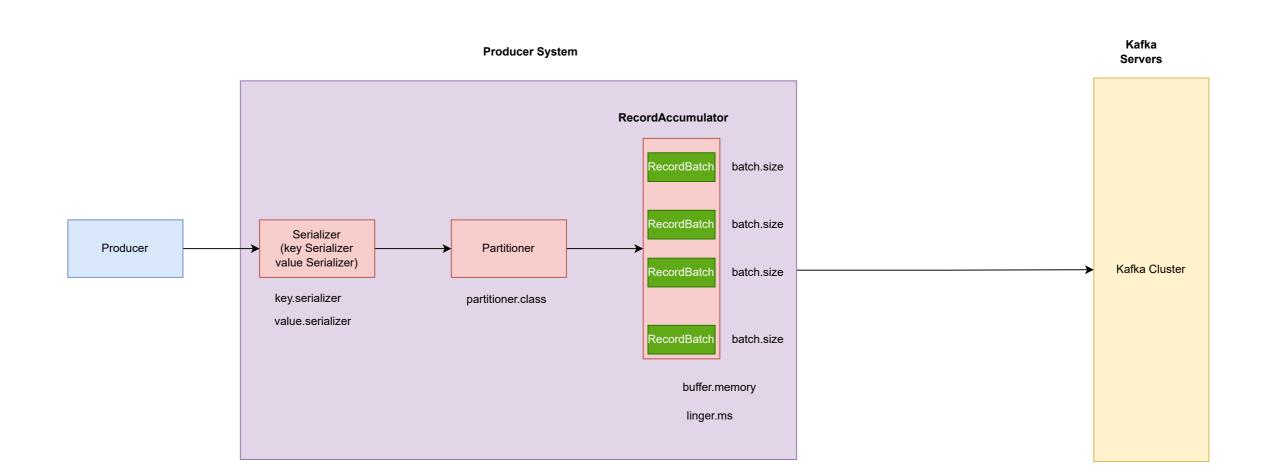


Distributed Topology

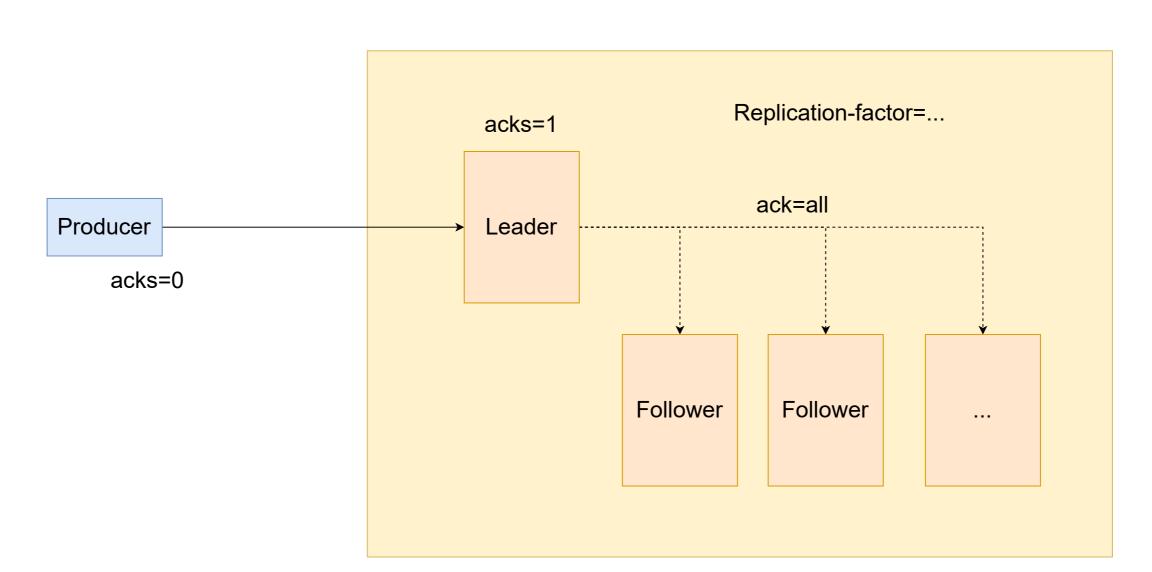


Messages log Messages log

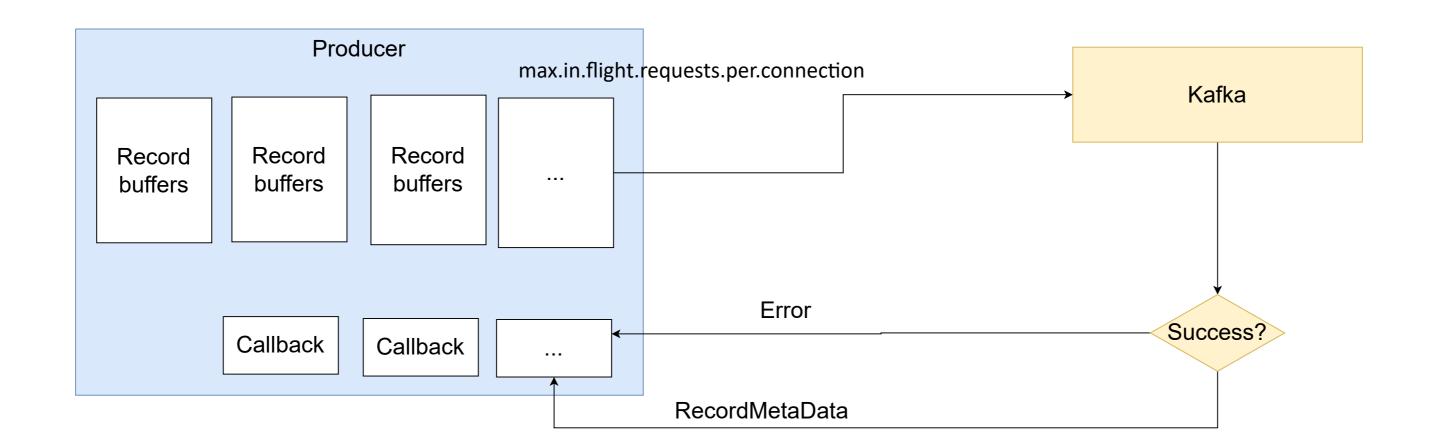
Same Topic



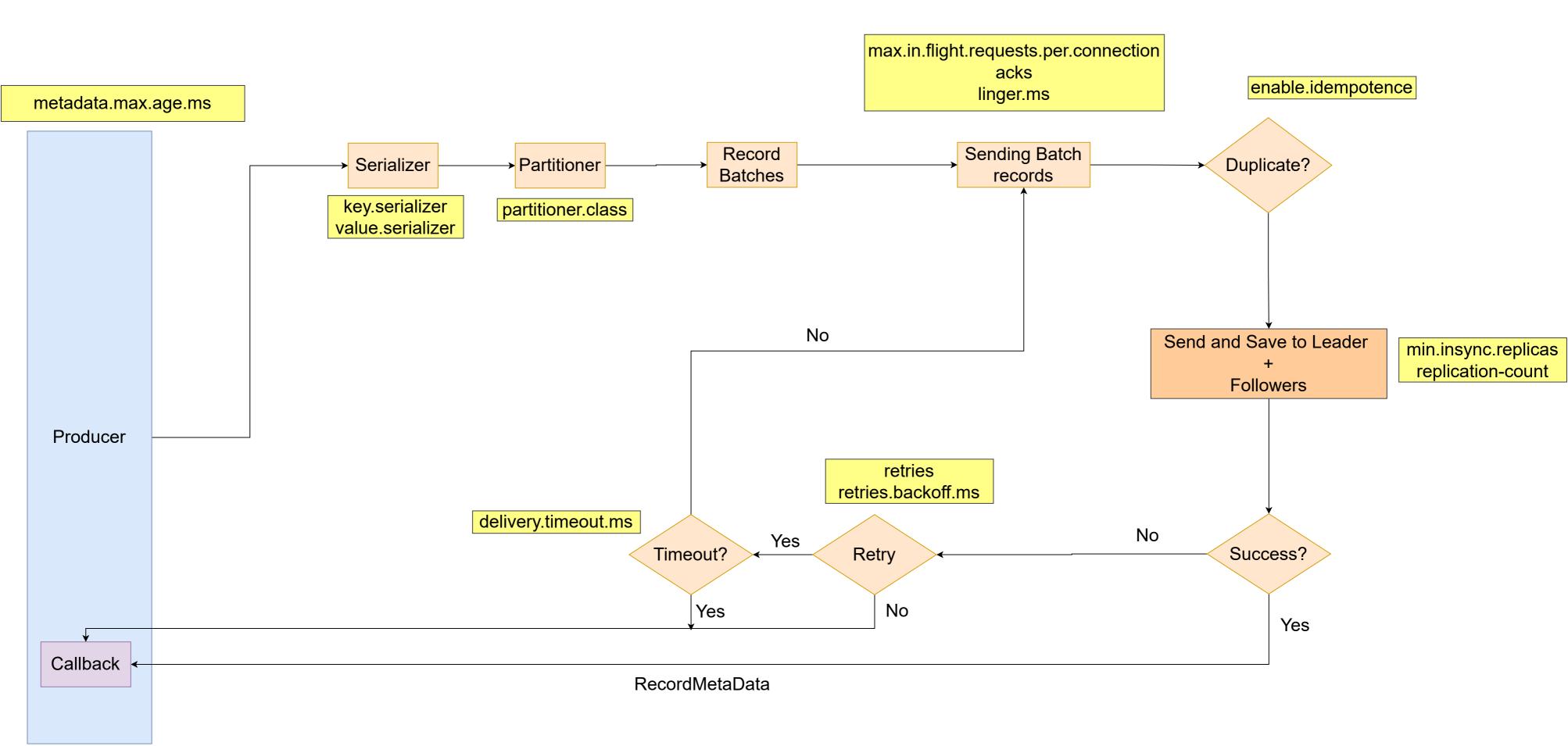
ack configuration

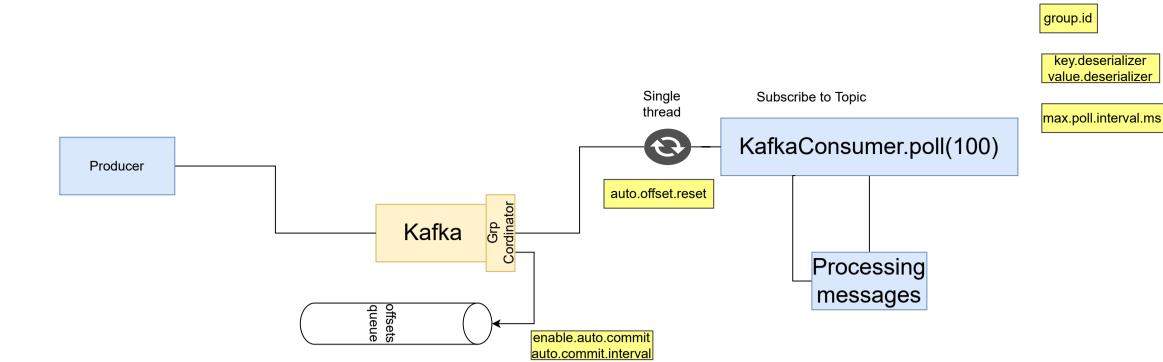


max.in.flight.requests.per.connection Configuration

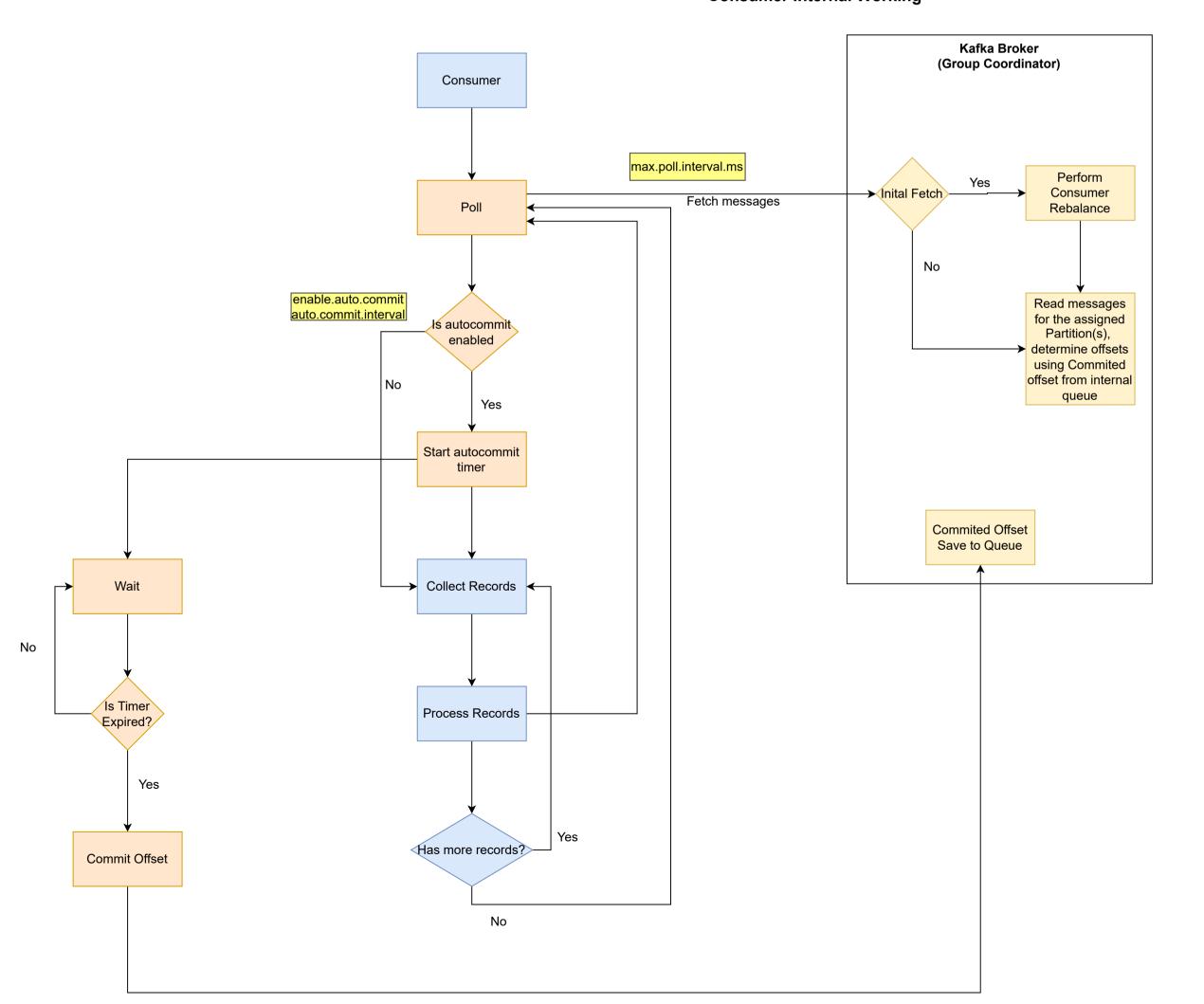


Consolidated Flow

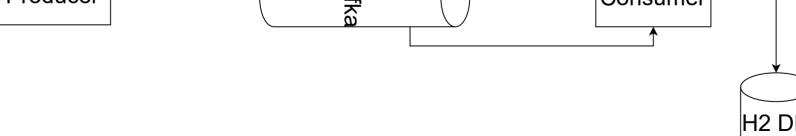




Consumer Internal Working



Persistency of read messages Producer Consumer



P0 m1 m2 m3 m4 m5 m6 m7 P1 P2 P3

Р

m6 m7

m1 m2 m3 m4 m5

Current offset

С

m5

Commited offset

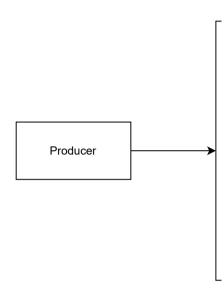
Config Kafkaconsı

Subscrik

Polling Revocati

ا Assignme

Partitions —



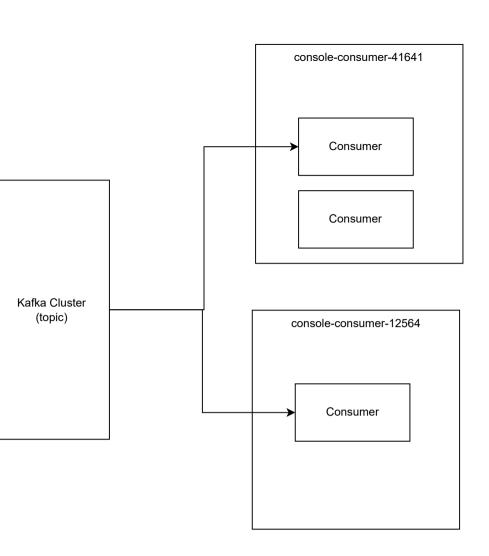
Р

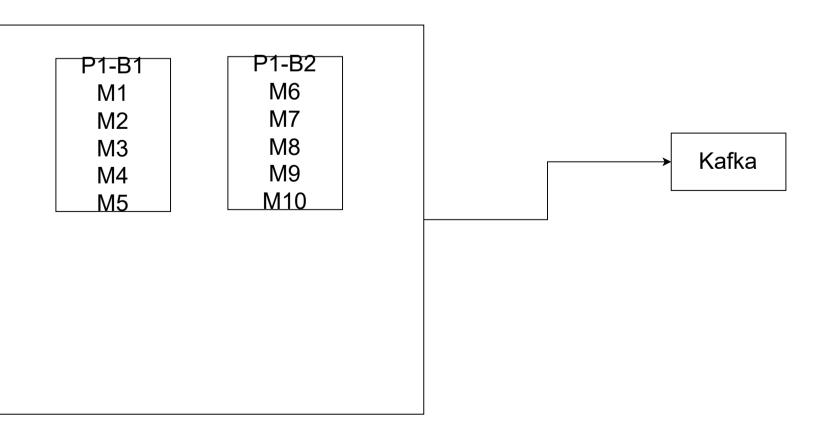
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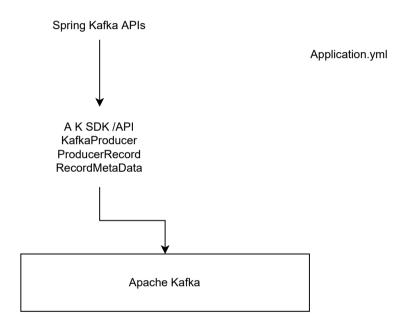


Set of offsets

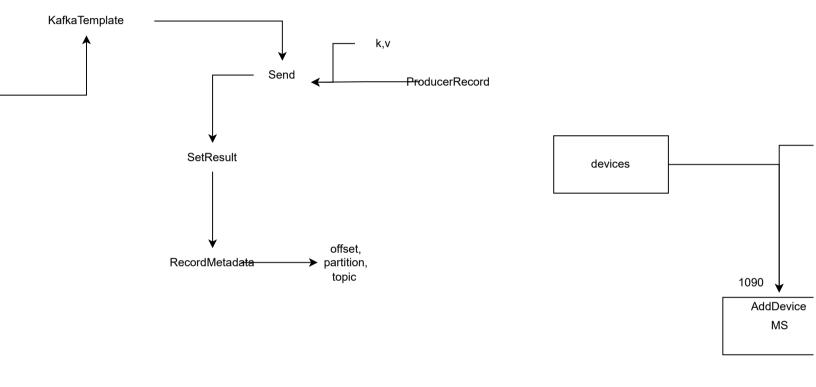
Particula offset

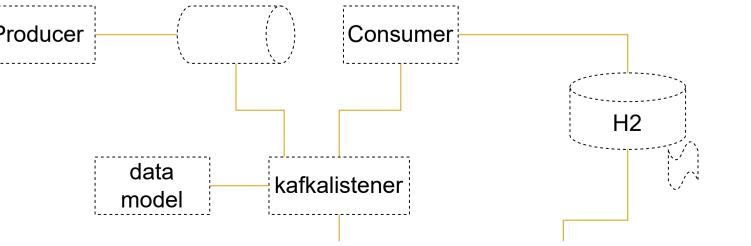
Properties file yml

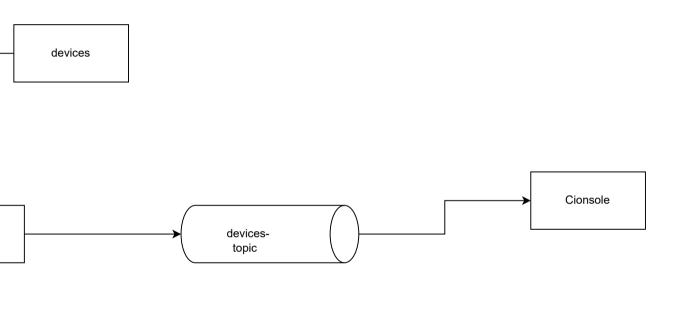
AutoWiring of Kafka objects

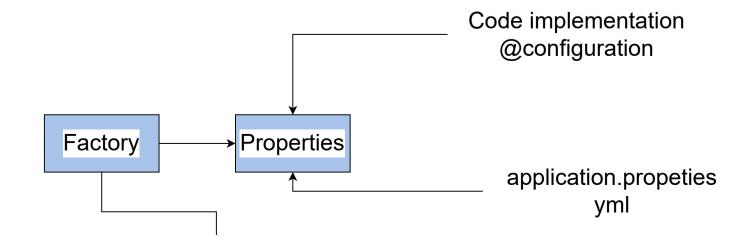


ar









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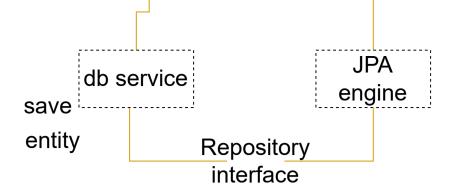
message

Queue

Partion

Partion

Partion



message ssage

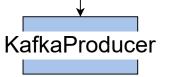
message

message message

thread 1

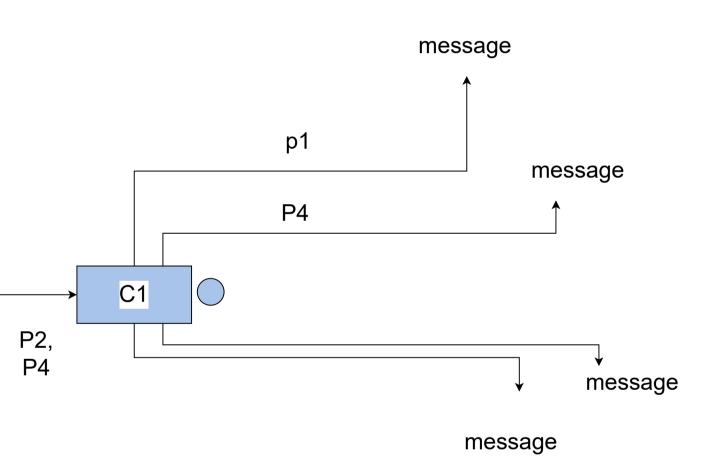
Polling

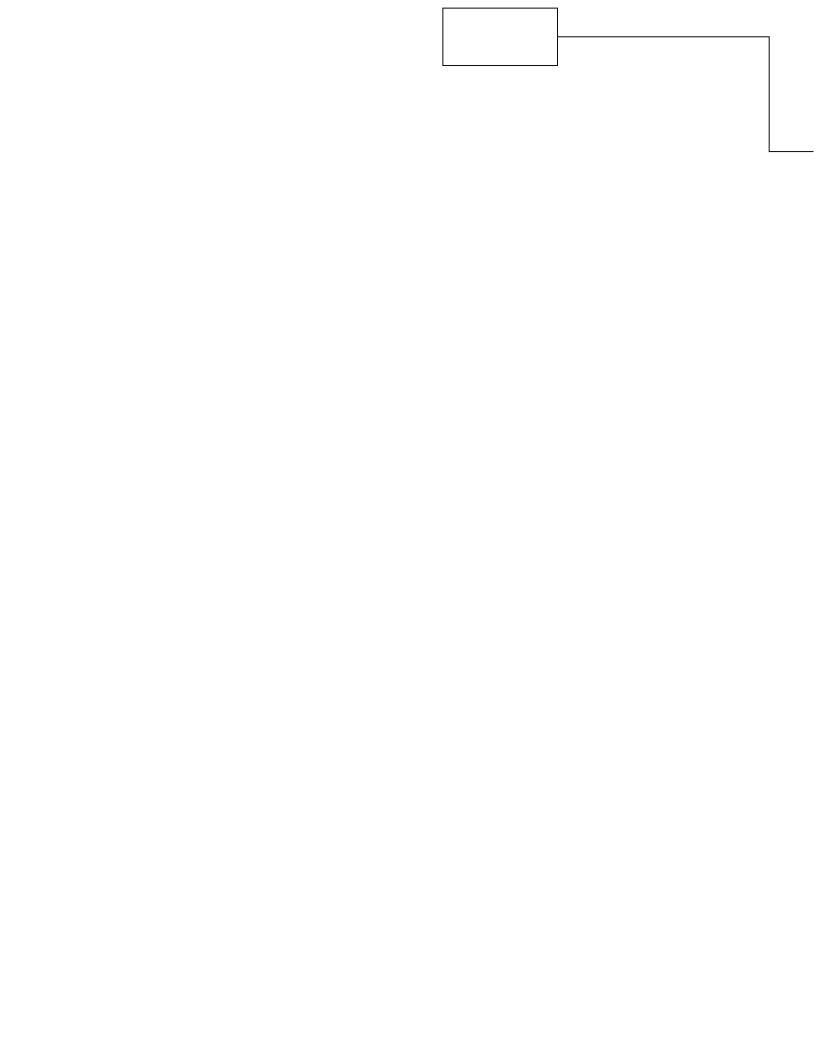
p1, p2, p3, p4

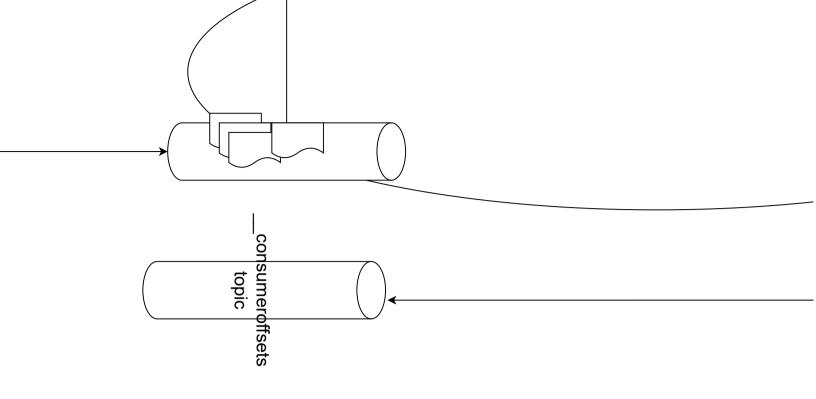


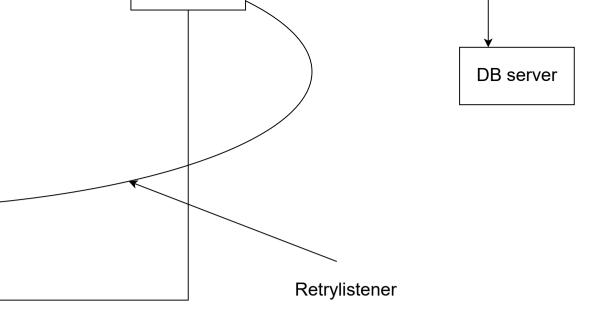
stener

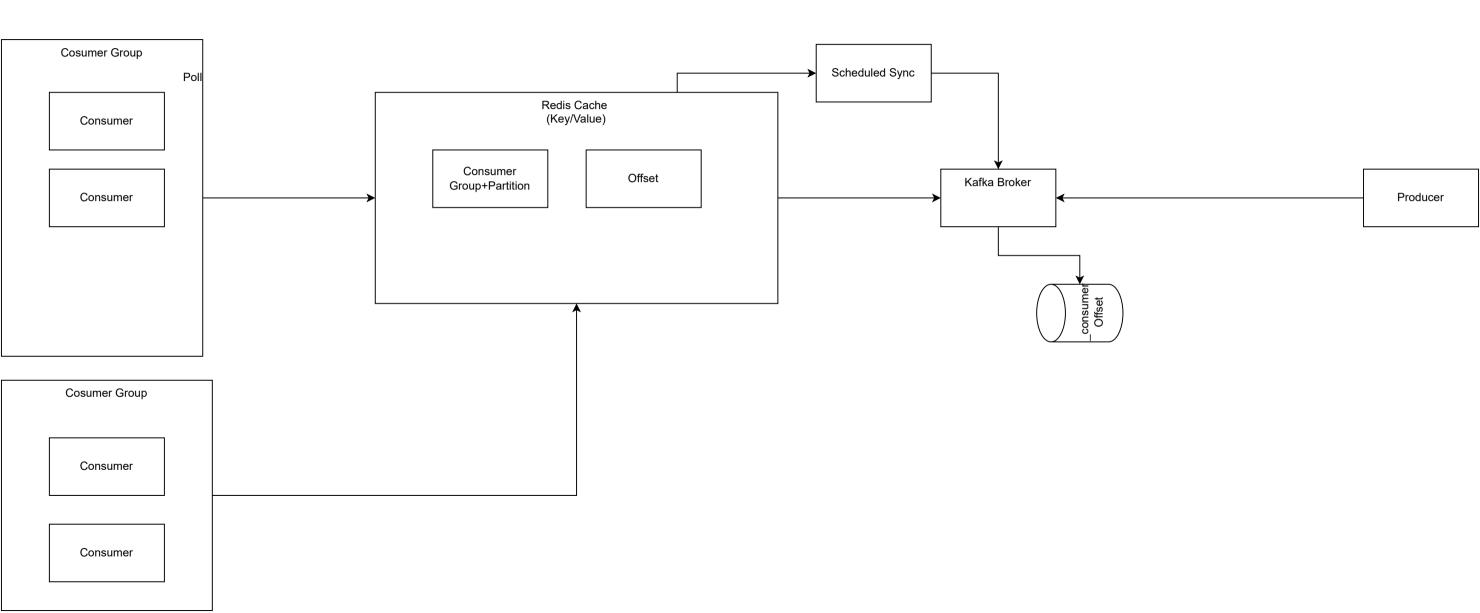
KafkaConsumer



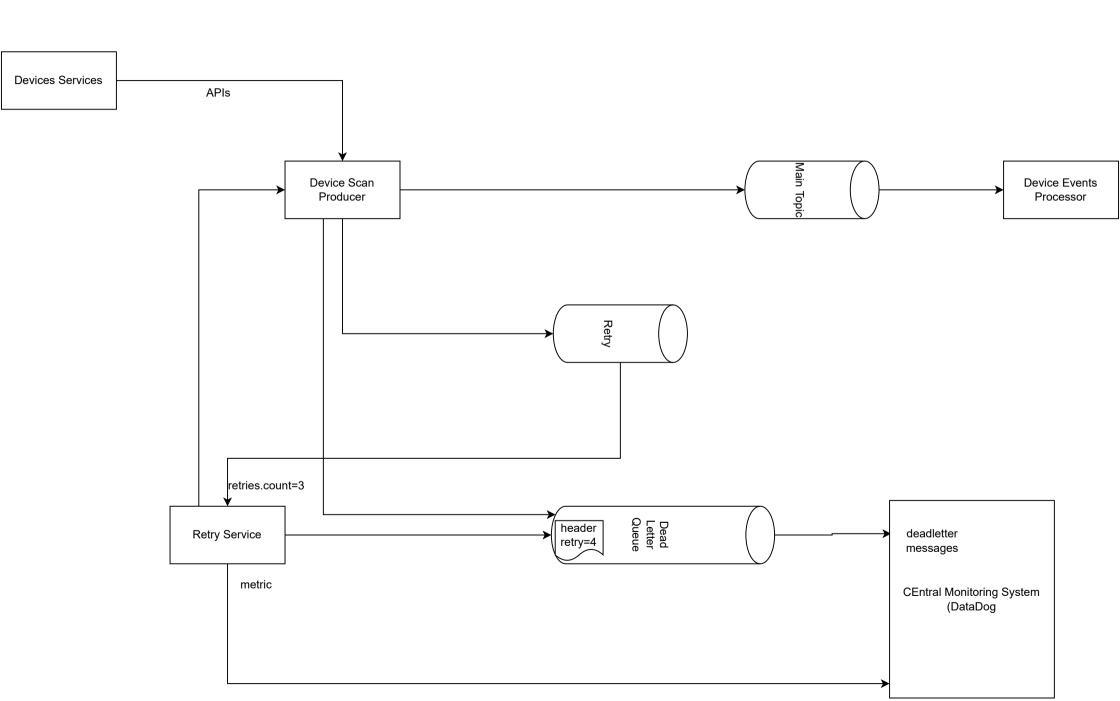




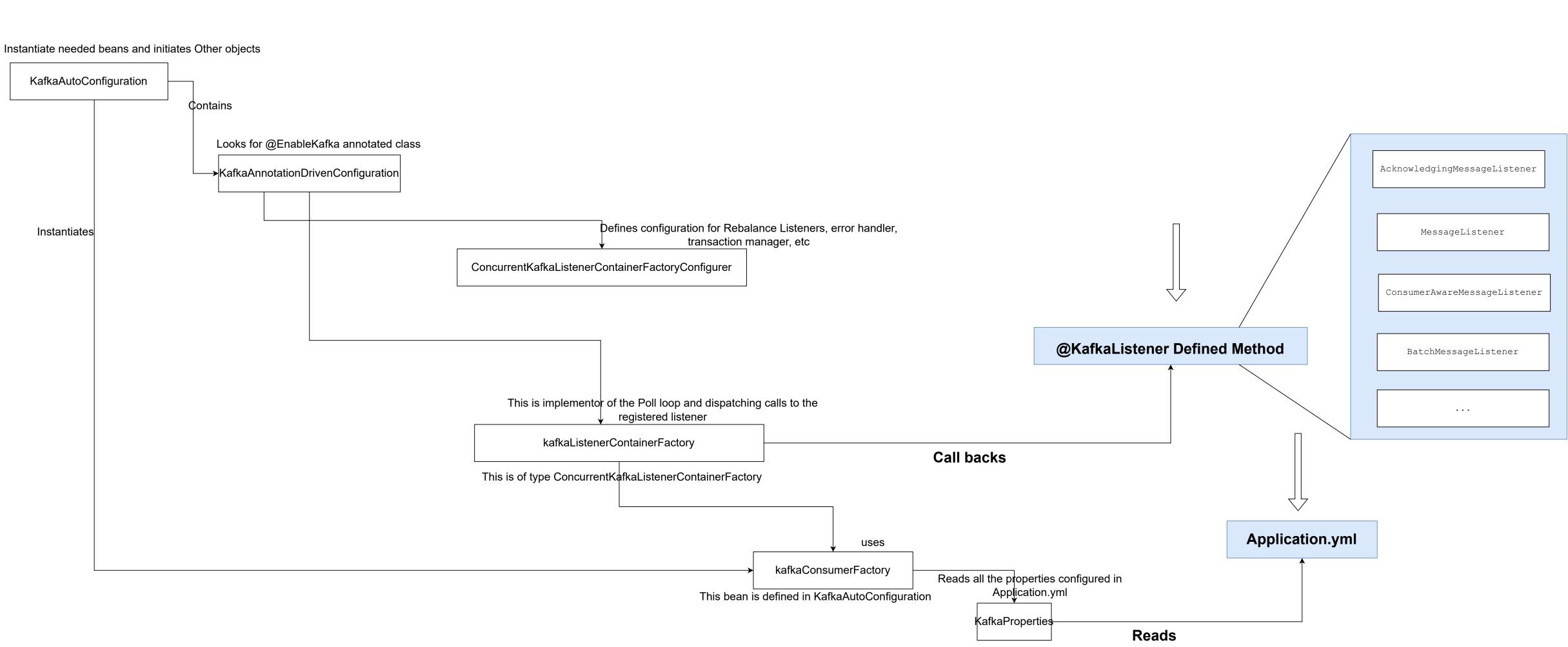




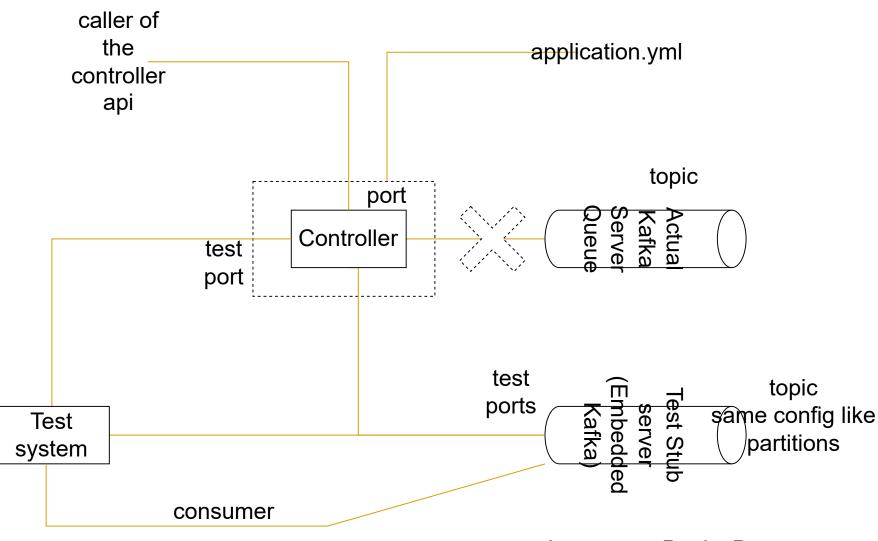
Producer Retry Mechanism



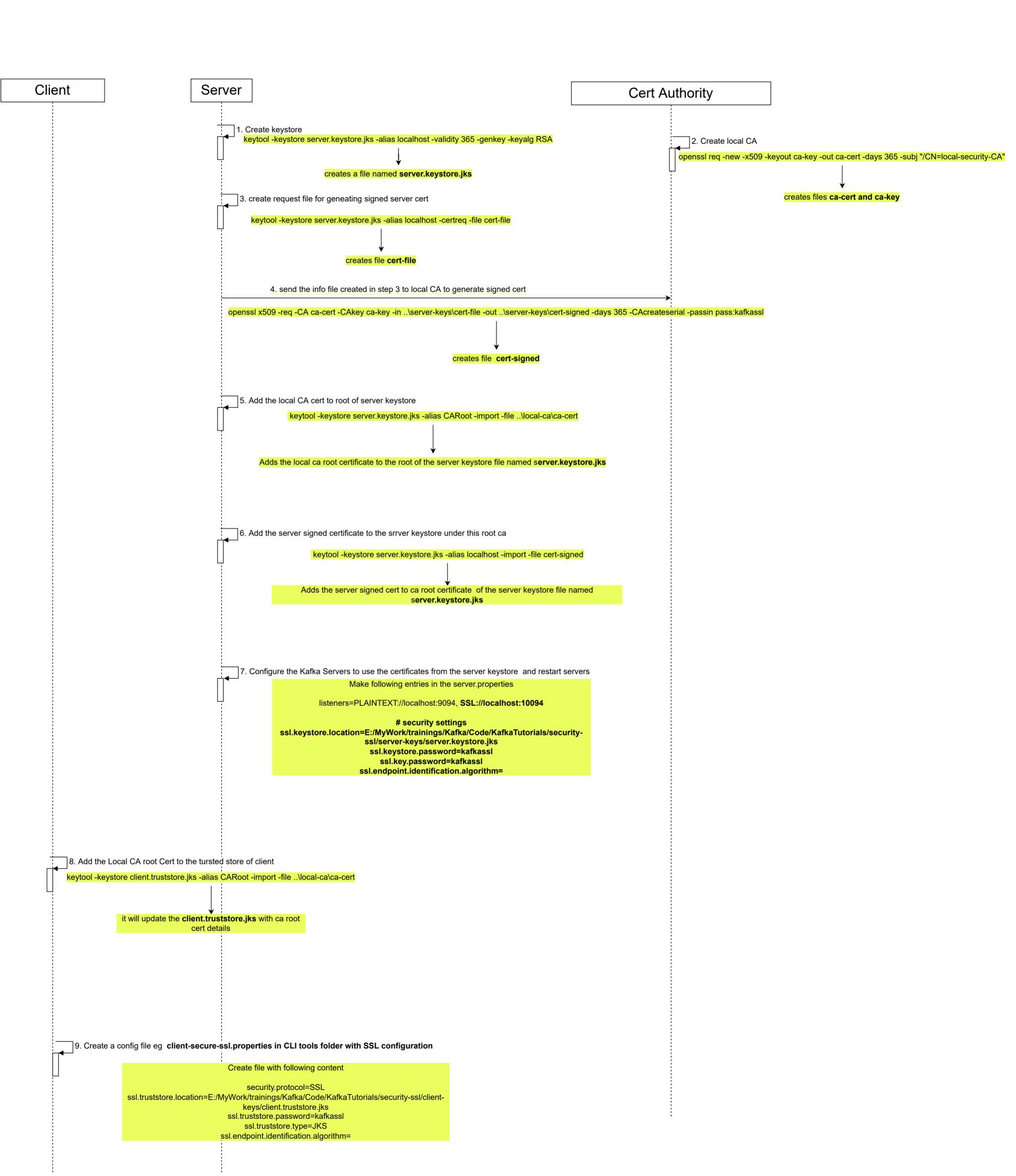
Spring Kafka Consumer Internals

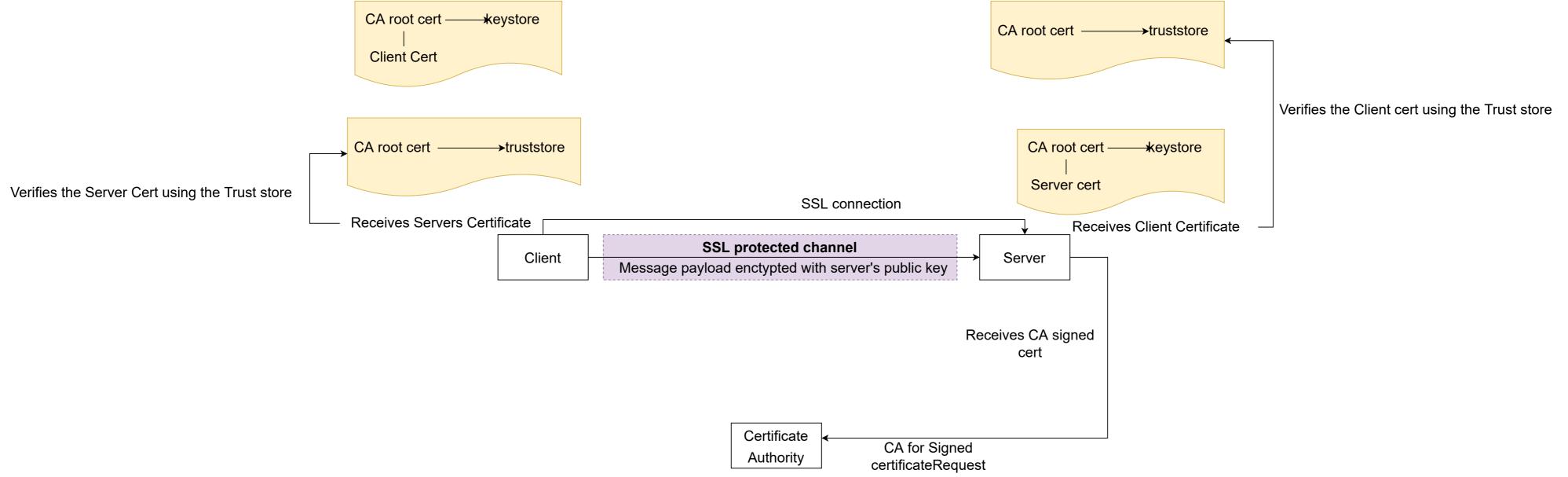


Producer Test



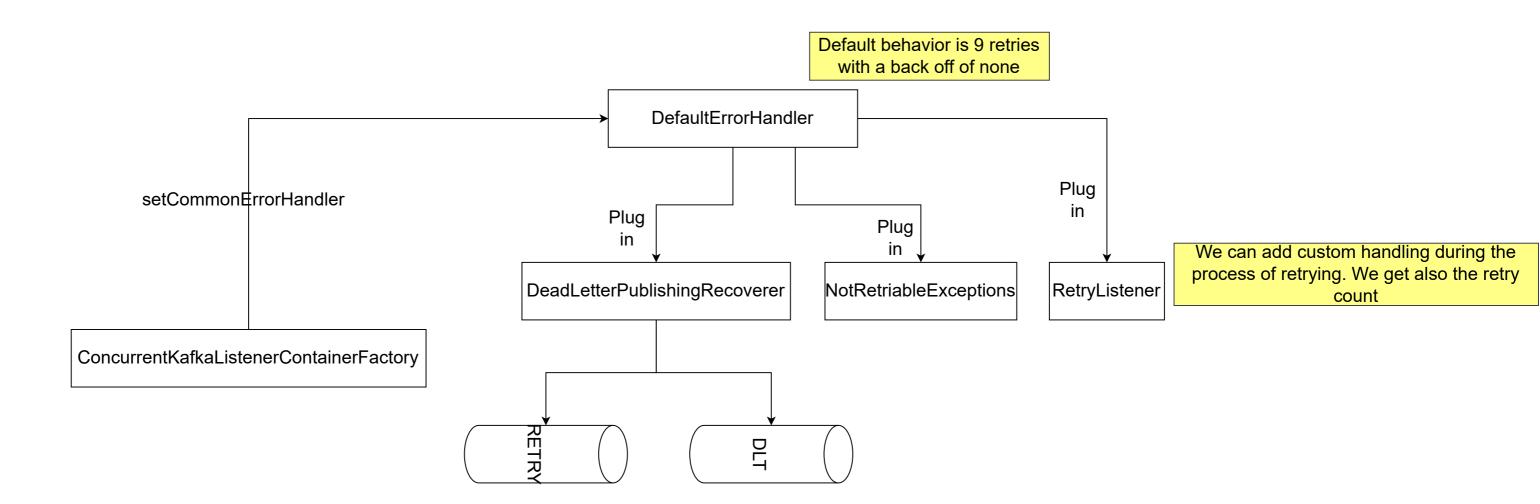
Integer ---- DeviceData





Consumer Error Handling & Recovery Mechanism

Spring Kafka Consumer Classes



Recovery

