Se Kafka A distributed streaming platform

Streaming Platform?

pub/sub similar to message queues L

Store streams of records in a fault-tolerant & durable way

Process streams of records as they occur

Typical Use Cases?

Messaging

Website Activity Tracking

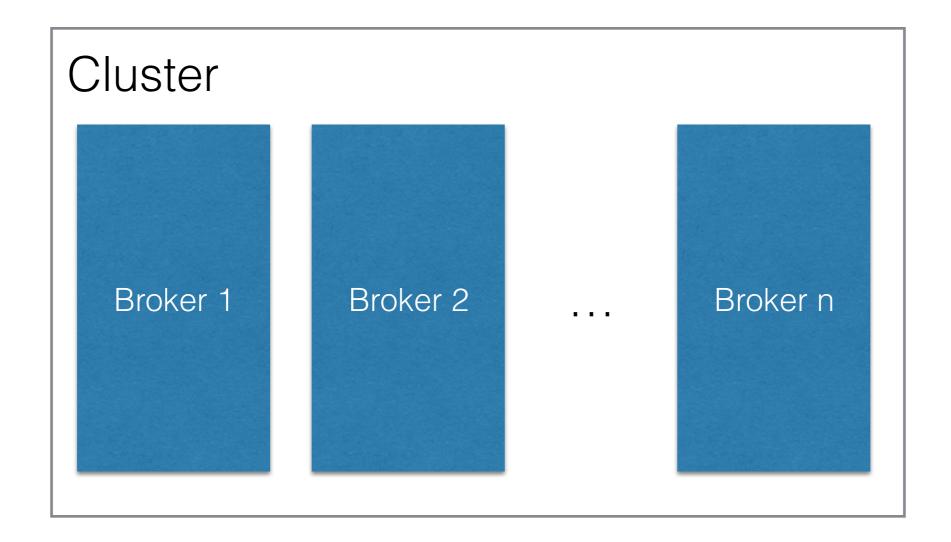
Log Aggregation

Stream Processing

Event Sourcing

Core Concepts

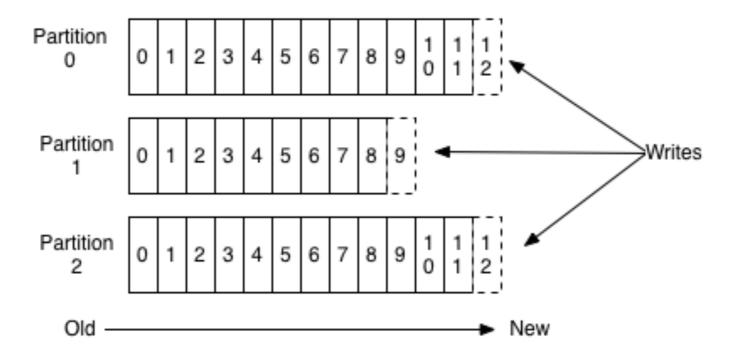
Cluster & Broker



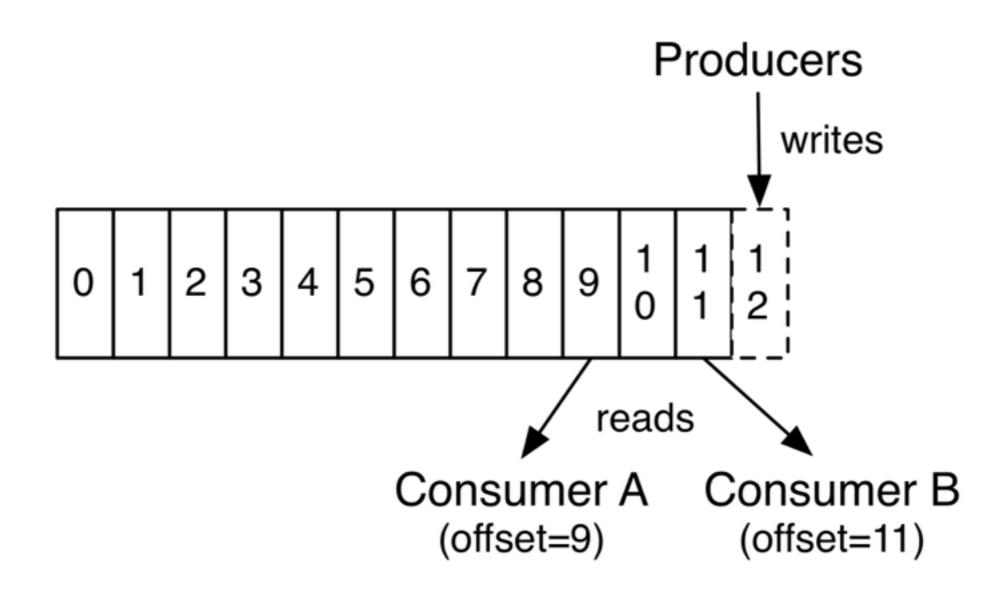


Topic

Anatomy of a Topic



Partition



Record key;value;timestamp

Retention

- By time (e.g. max 2 days)
- By size (log may not grow beyond X GB)
- Infinite (totally fine)

Log compaction

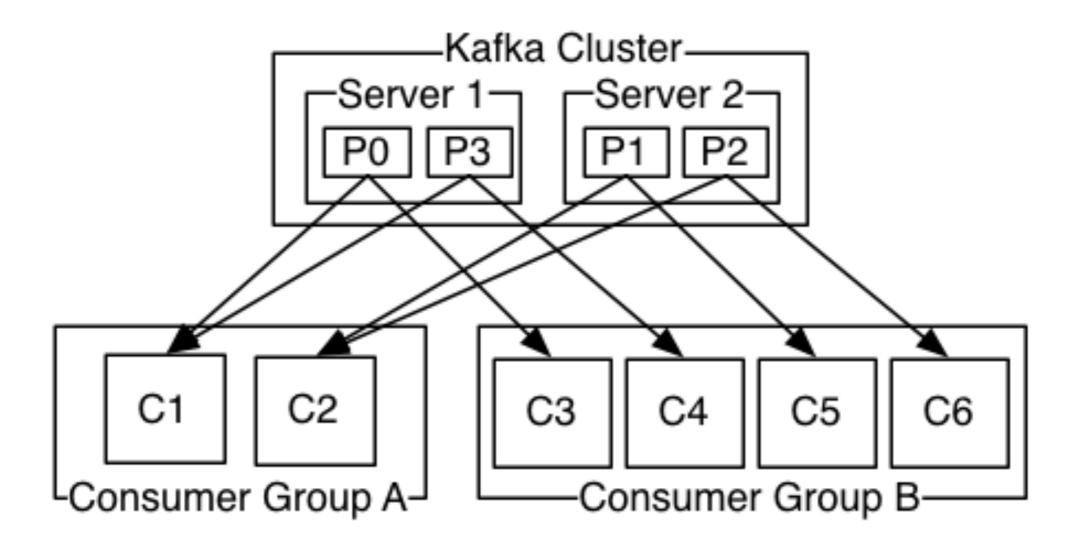
```
123 => bill@microsoft.com
123 => bill@gatesfoundation.org
123 => bill@gmail.com
```

Quotas

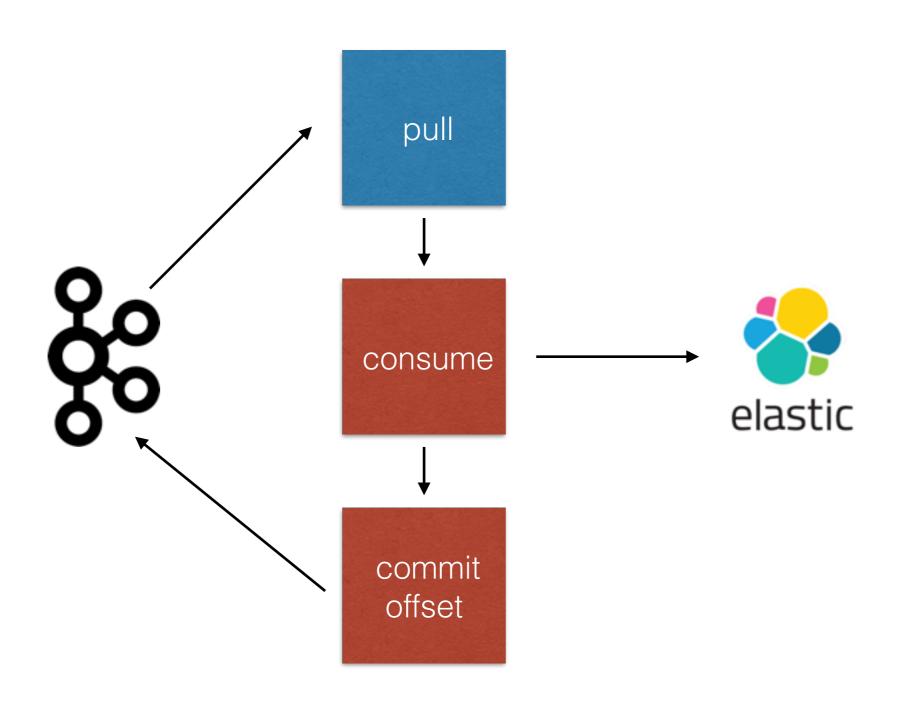
- Network bandwidth
- Request rate

Producer

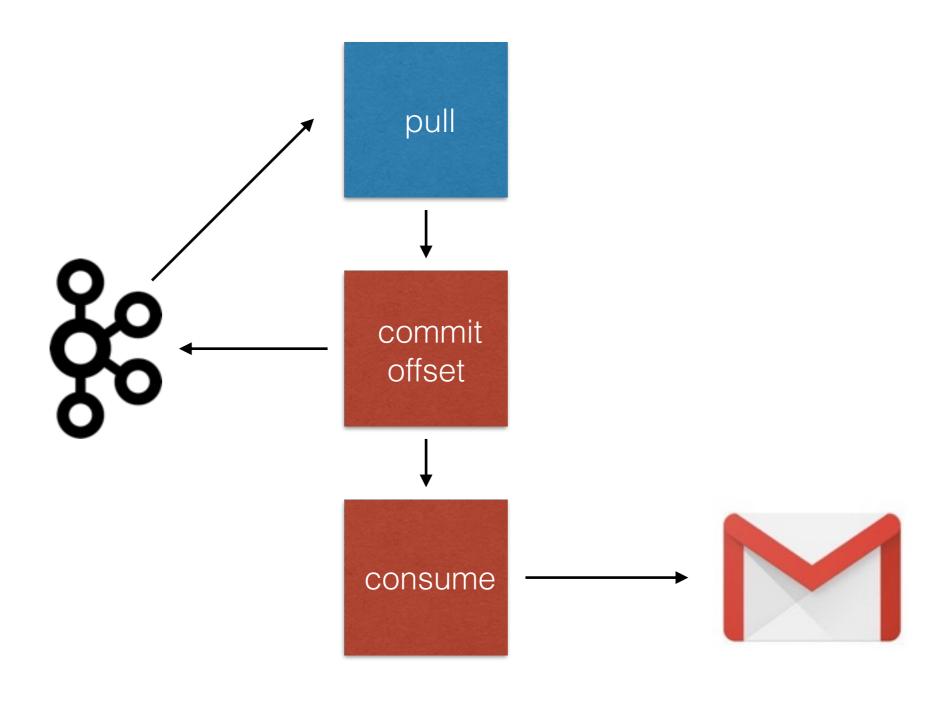
Consumer



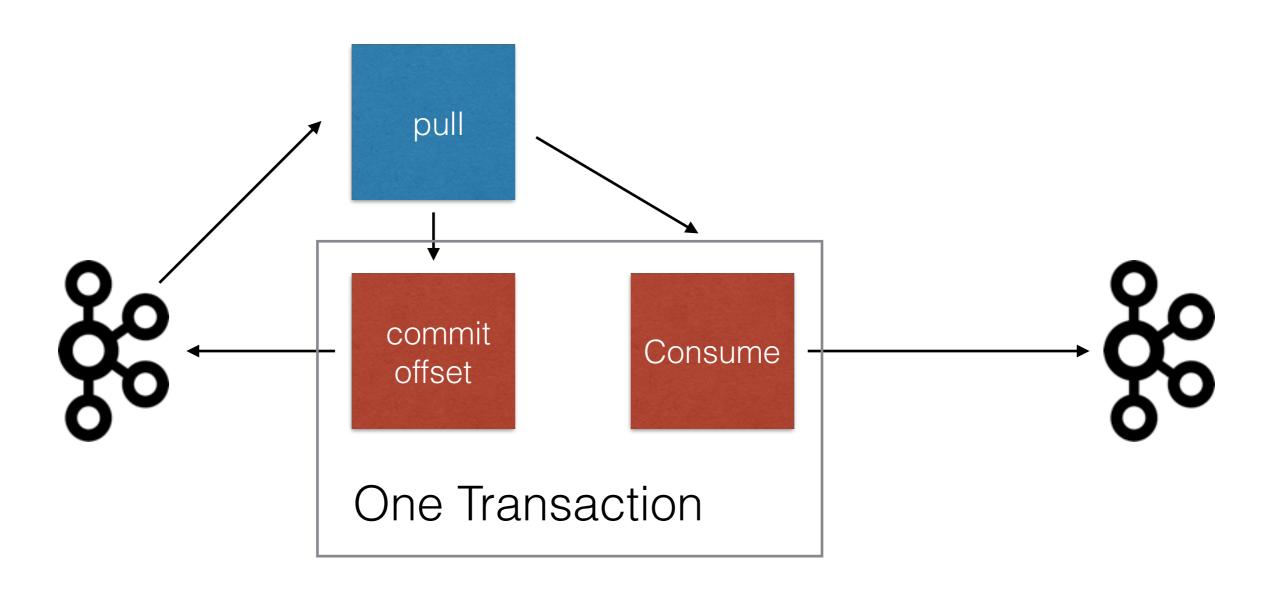
At least once



At most once



Exactly once



Let's code! https://github.com/ Sebruck/kafka-talk