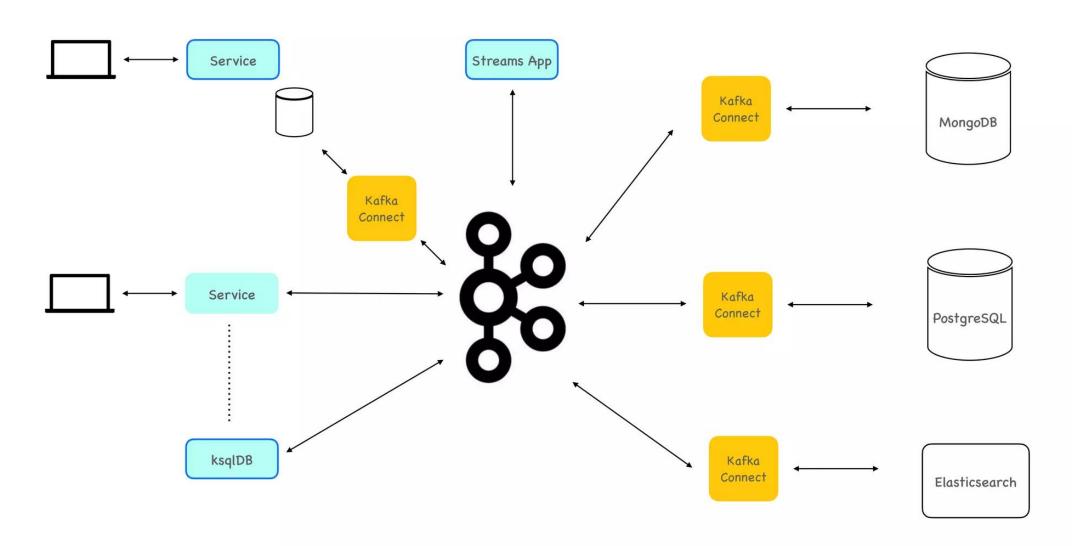
Wonderful World of Apache Kafka

Event Streaming Platform



Event

Notification

Order Placed

Temperature Read

State

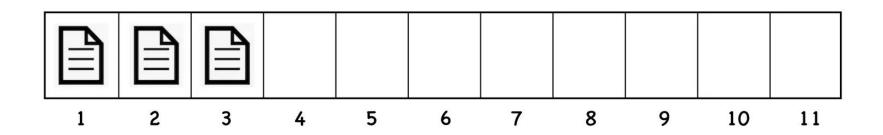
{item:123, price: 29.95,

qty: 2}

{temp:29, unit: F,

time: 1606949836369}

Topic (log)



```
"key": "a1",

"value": {

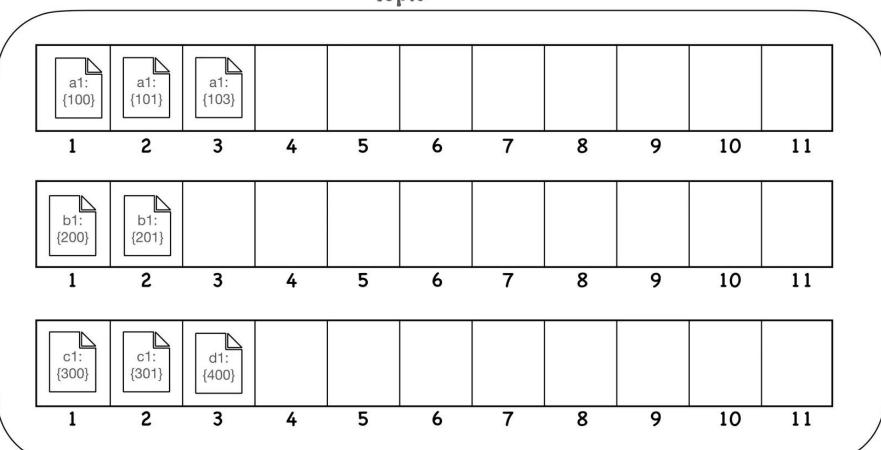
    "eventType": "add-to-cart",

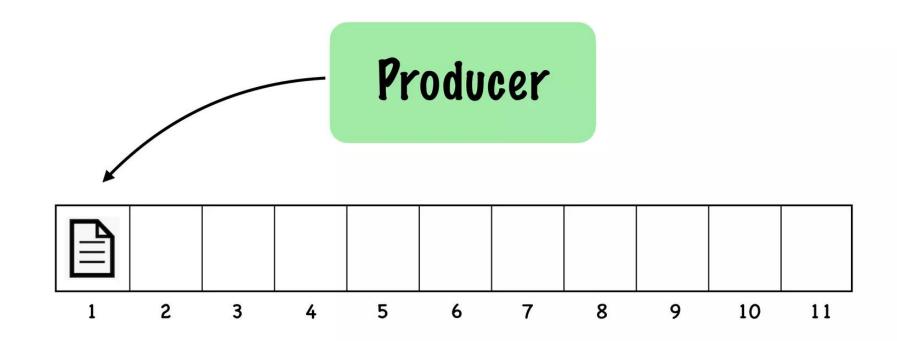
    "title": "Kafka Streams in Action",

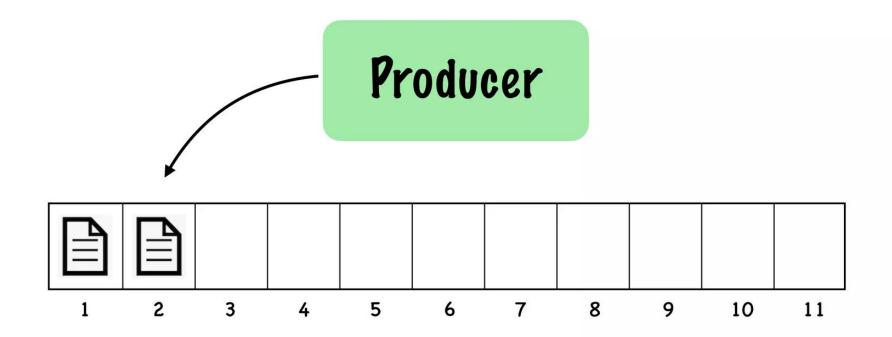
    "author": "Bill Bejeck",

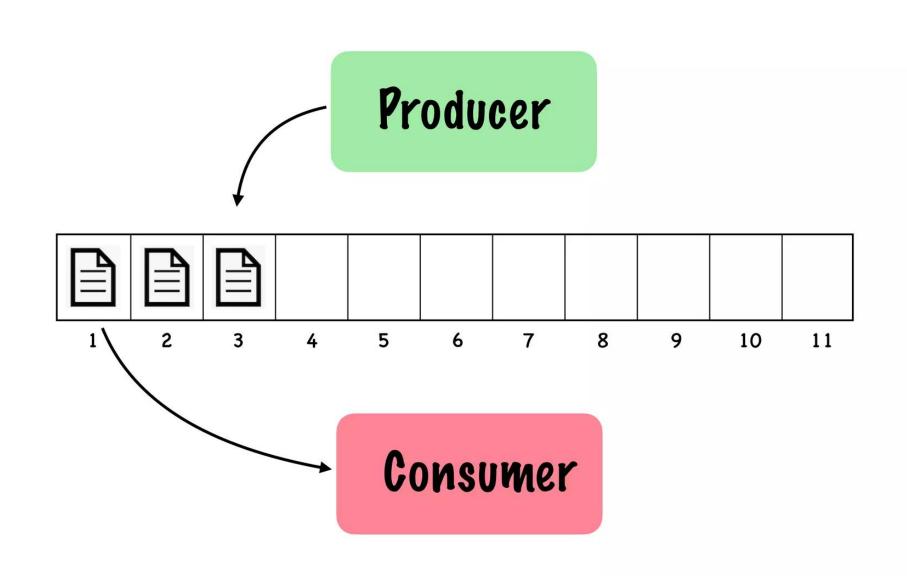
    "price": 44.99
}
```

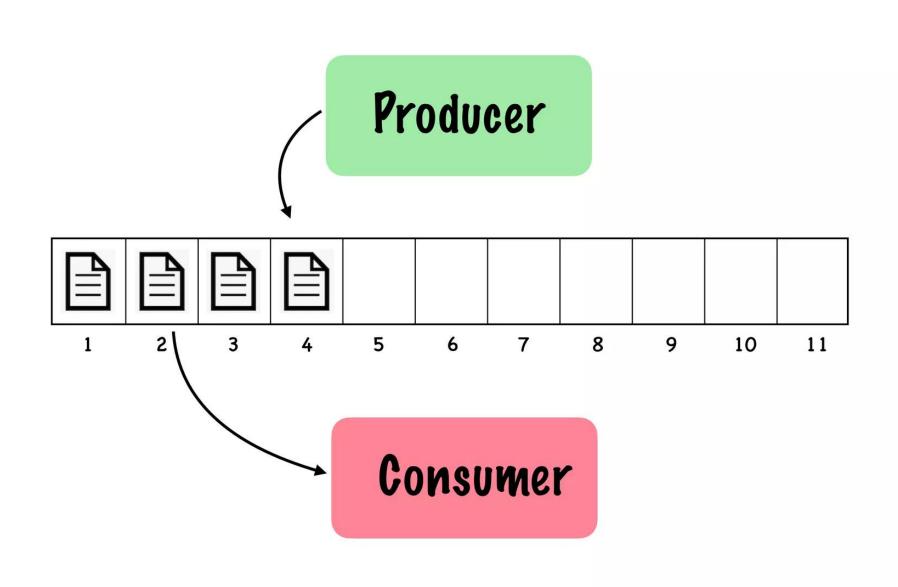
Topic

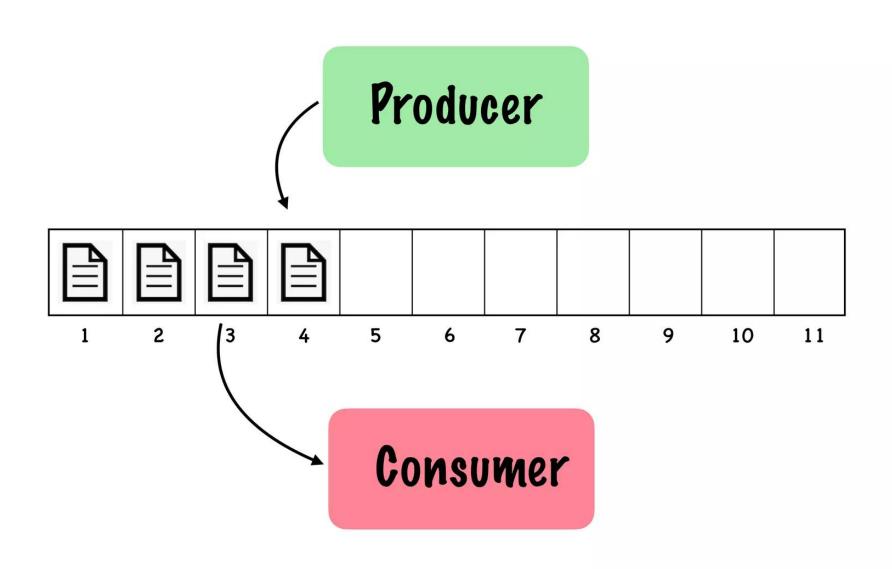


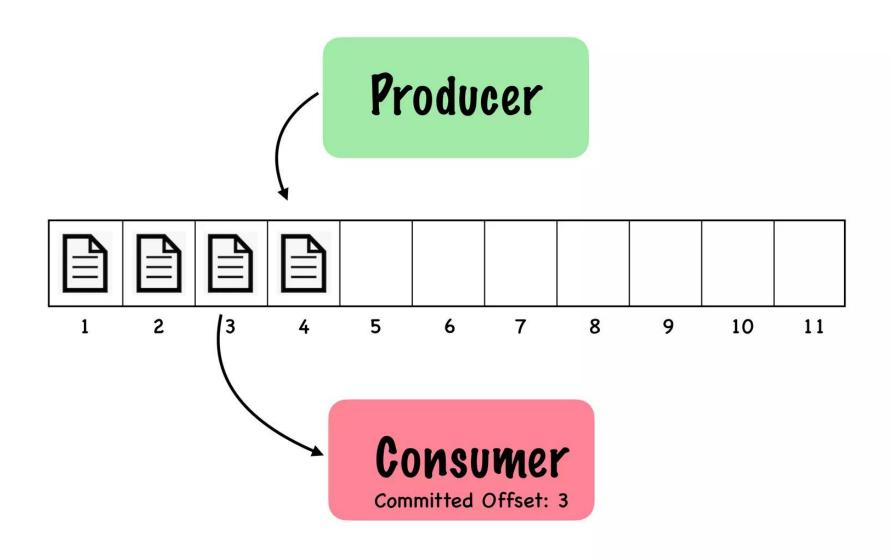


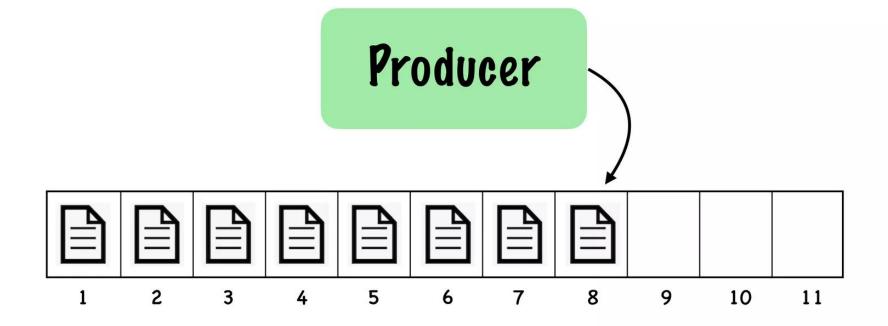




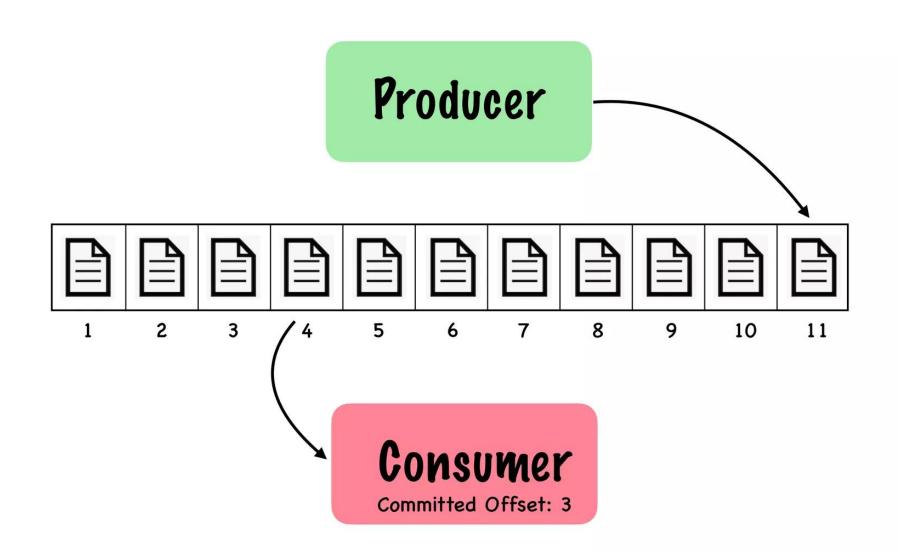












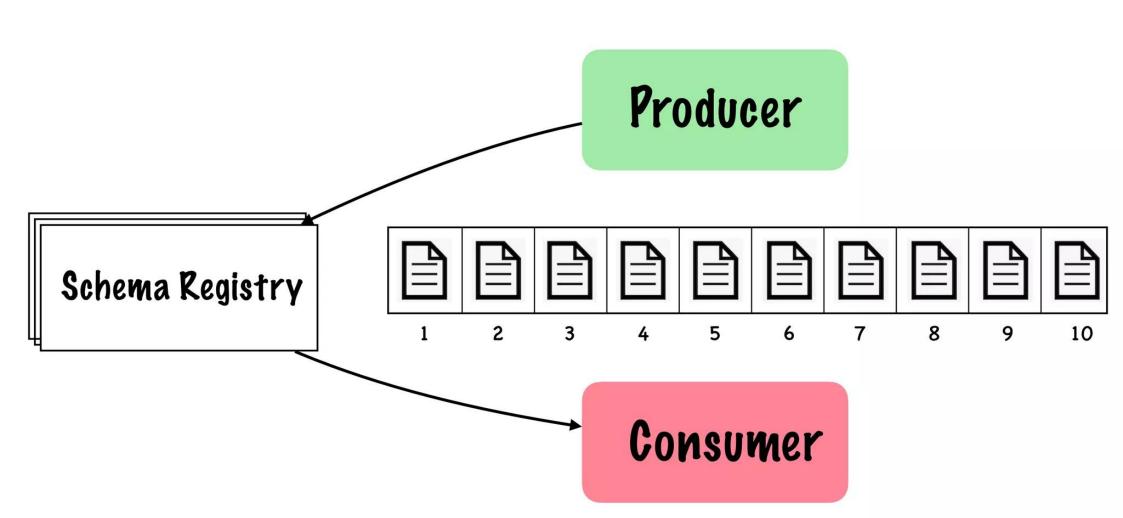
Sample Kafka Producer

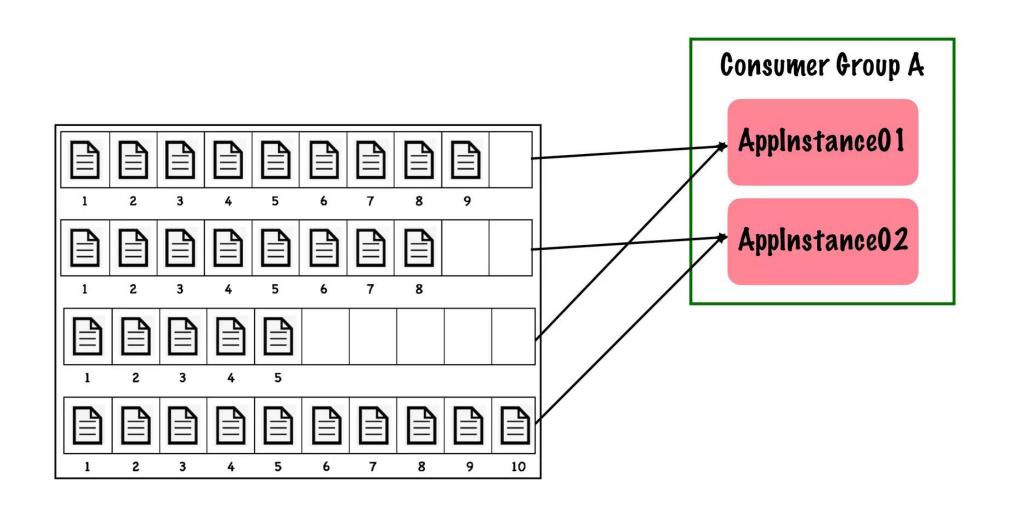
```
Producer<String, String> producer = new KafkaProducer<String, String>(props);
String key = "acme";
String value = "some info about acme, probably in JSON";
ProducerRecord record = new ProducerRecord<String, String>(topic, key, value);
producer.send(record, new Callback() {
    @Override
    public void onCompletion(RecordMetadata m, Exception e) {
        if (e != null) {
            e.printStackTrace();
        } else {
            System.out.printf("Produced record to topic %s partition [%d]",
                m.topic(), m.partition());
});
```

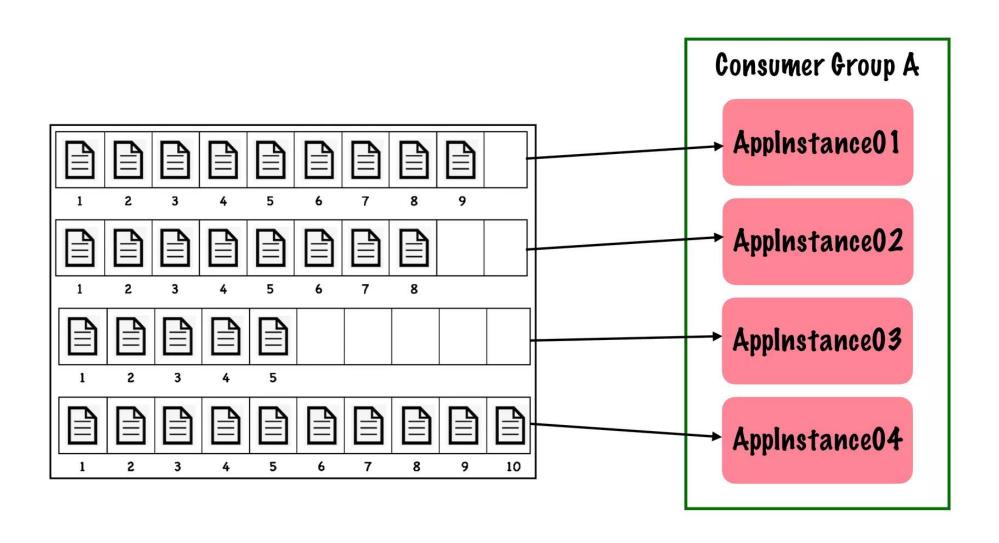
Sample Kafka Consumer

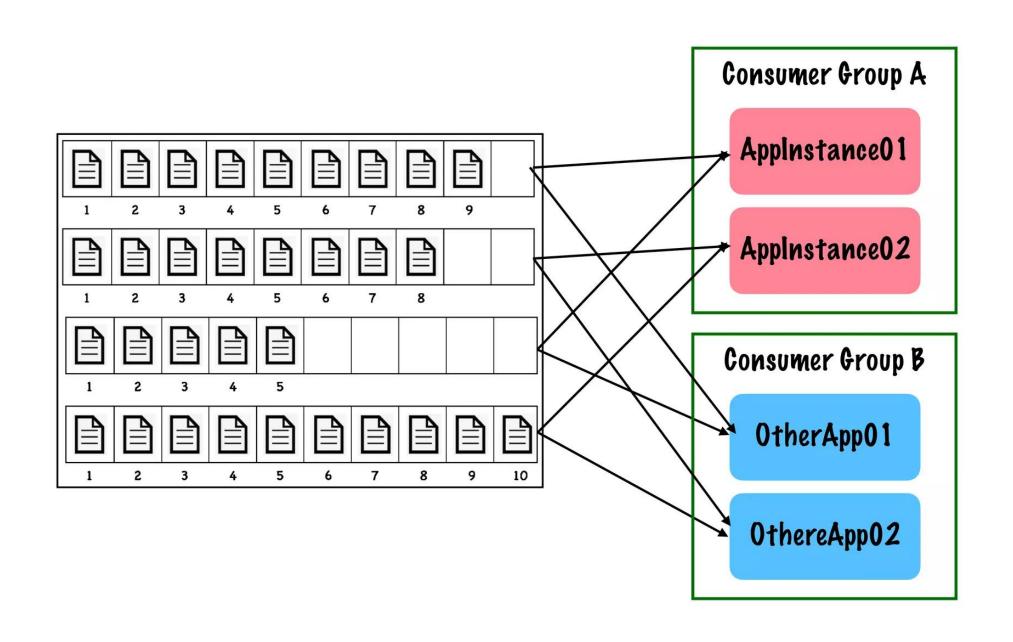
```
Consumer<String, String> consumer = new KafkaConsumer<String, String>(props);
consumer.subscribe(Arrays.asList(topic));

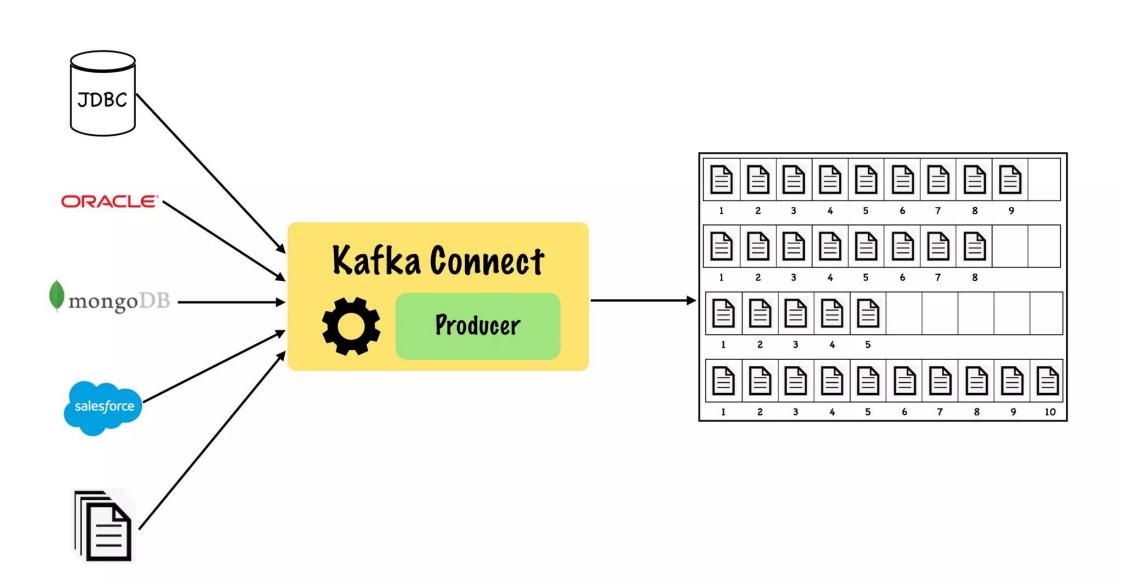
try {
   while (true) {
      ConsumerRecords<String, String> records = consumer.poll(100);
      for (ConsumerRecord<String, String> record : records) {
       String key = record.key();
       String value = record.value();
       System.out.printf("Consumed record - key: %s and value: %s", key, value);
      }
   }
   finally {
      consumer.close();
}
```

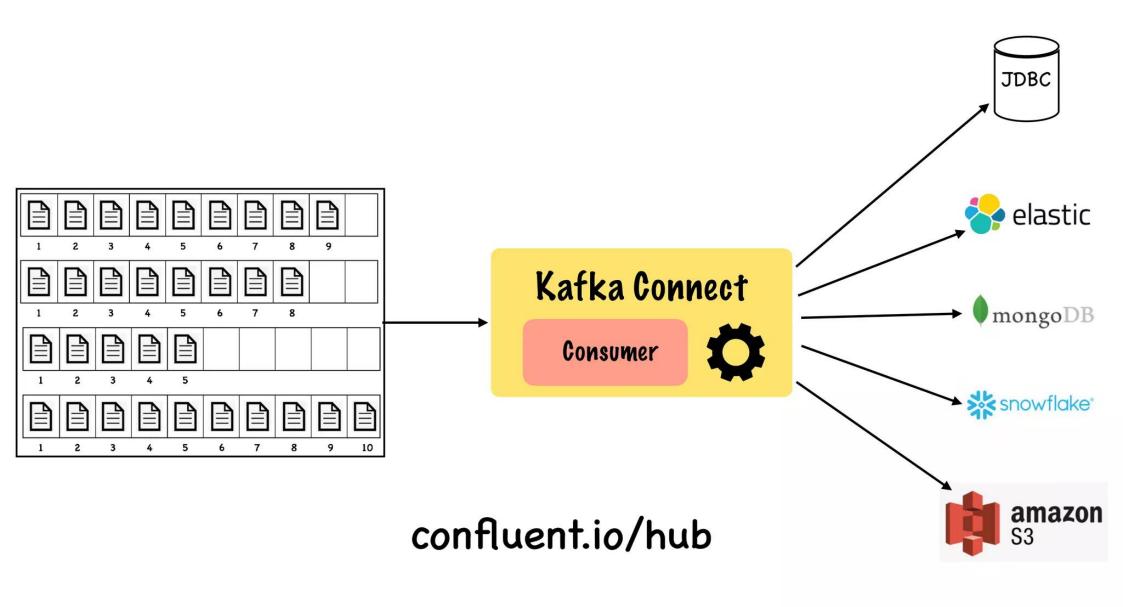


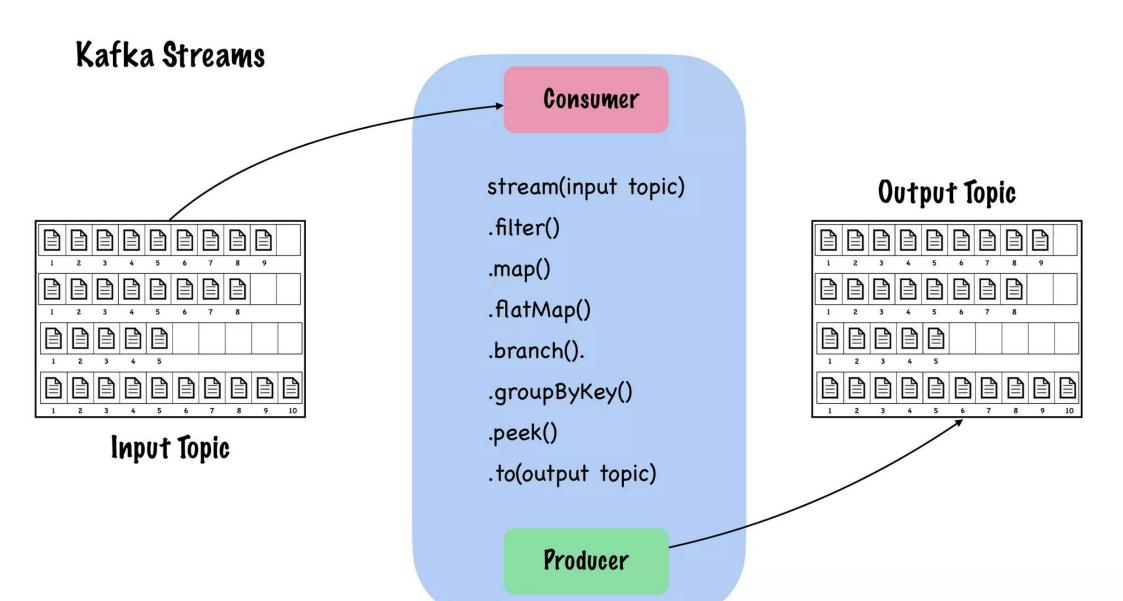




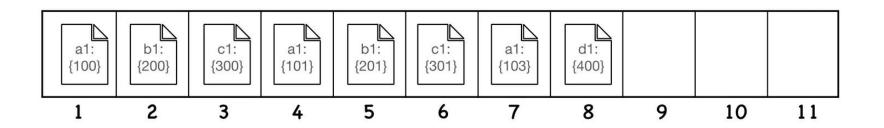








Stream



Table

a1	{103}
b1	{201}
c1	{301}
d1	{400}



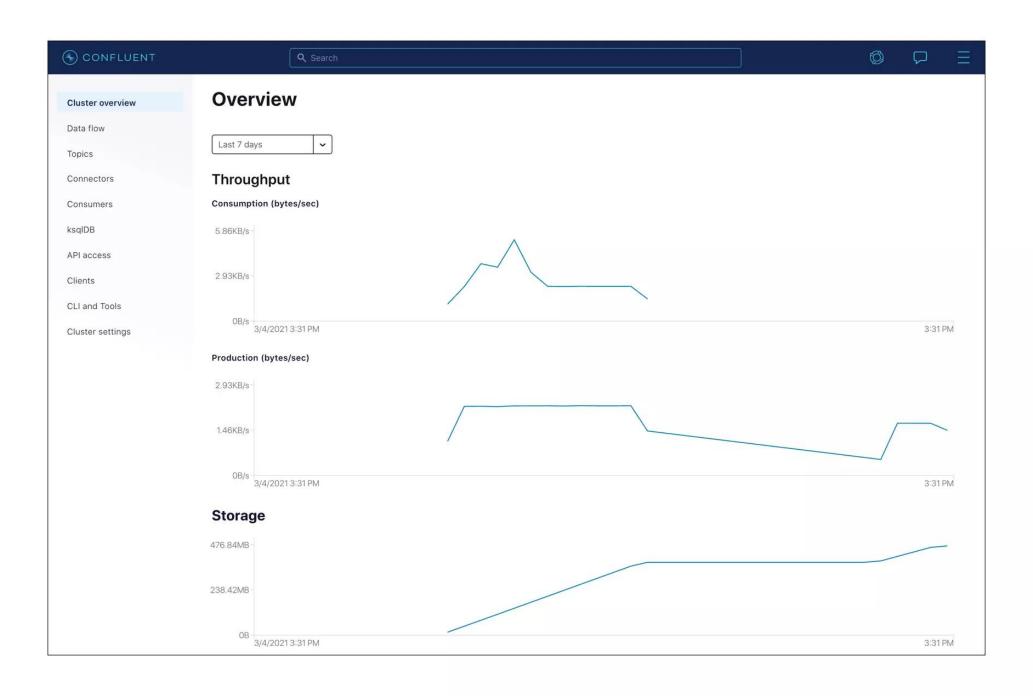
```
ksql> CREATE STREAM books (
        title VARCHAR, author VARCHAR, year_published
INT
) WITH (
        KAFKA_TOPIC='booklist', VALUE_FORMAT='AVRO'
);
```

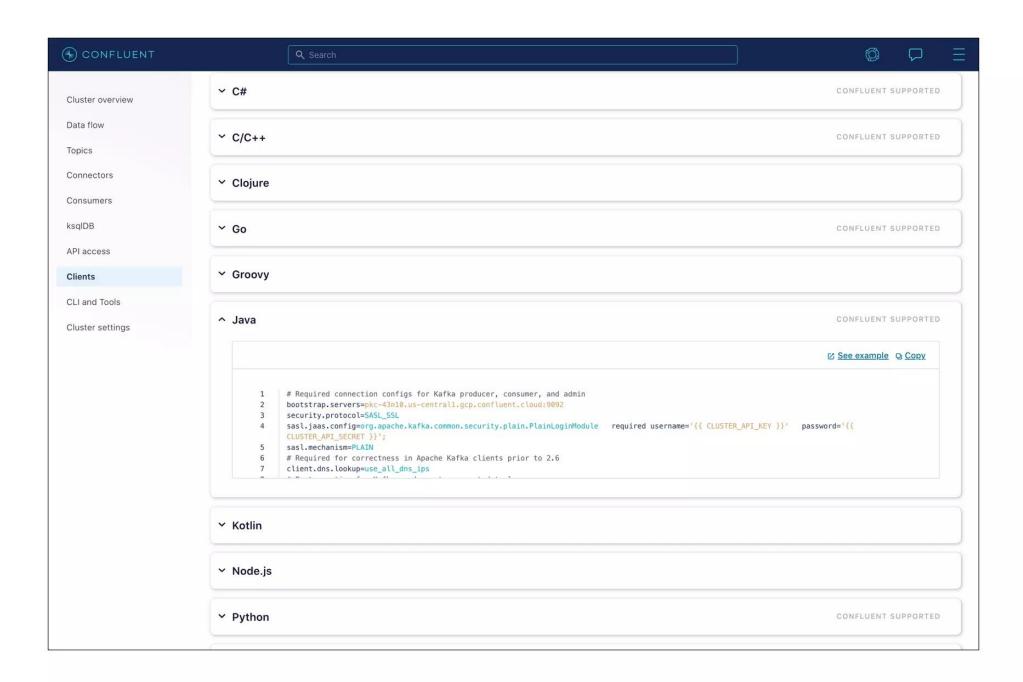
ksql> SELECT * FROM books WHERE title LIKE '%kafka%' EMIT CHANGES;

+	-+	++
TITLE	AUTHOR -+	YEAR
Kafka: The Definitive Guide	Shapira, Narkhede, Palino	2017
Kafka Streams in Action	Bill Bejeck	2018
Kafka in Action	Dylan	2020
Apache Kafka Cookbook	Raul Estrada	2017

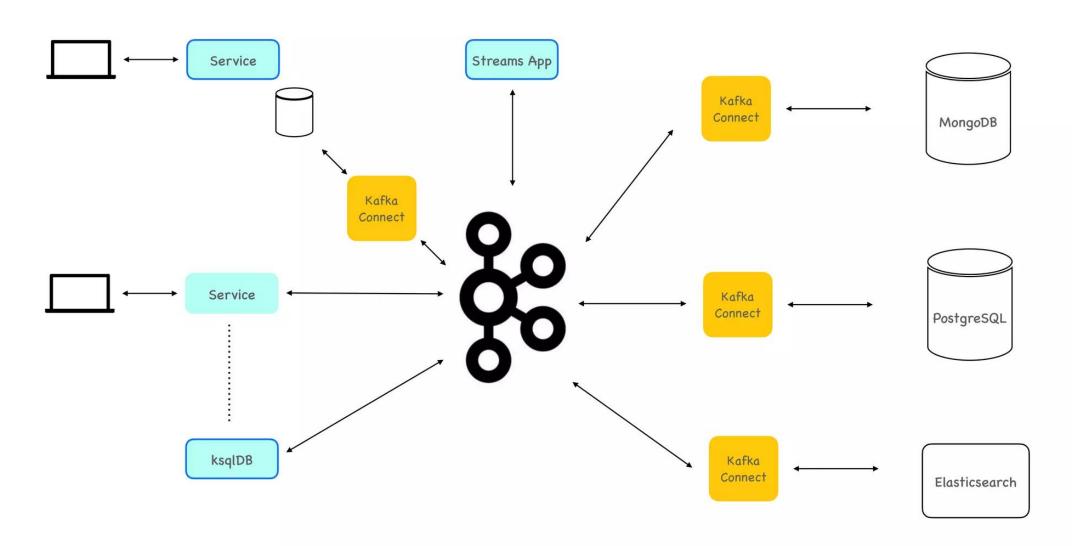


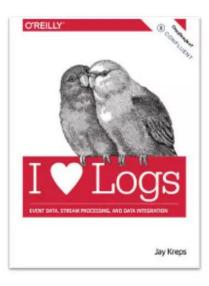
```
curl -X POST -H "Content-Type: application/vnd.kafka.json.v2+json" \
  -H "Accept: application/vnd.kafka.v2+json" \
  --data '{"records":[{"value":{"foo":"bar"}}]}' \
  "http://localhost:8082/topics/jsontest"
```

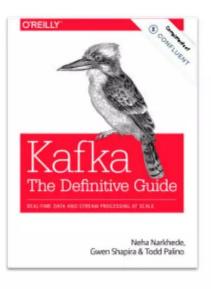


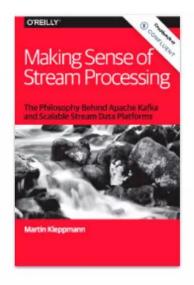


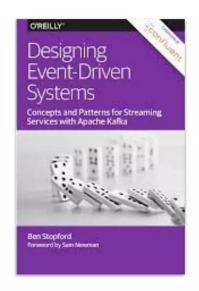
Event Streaming Platform

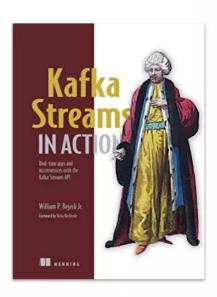


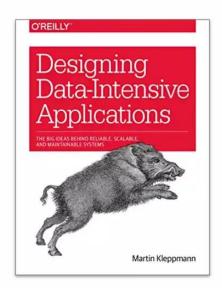




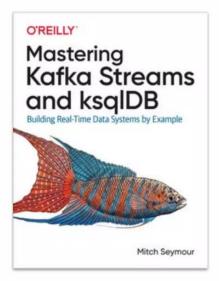












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