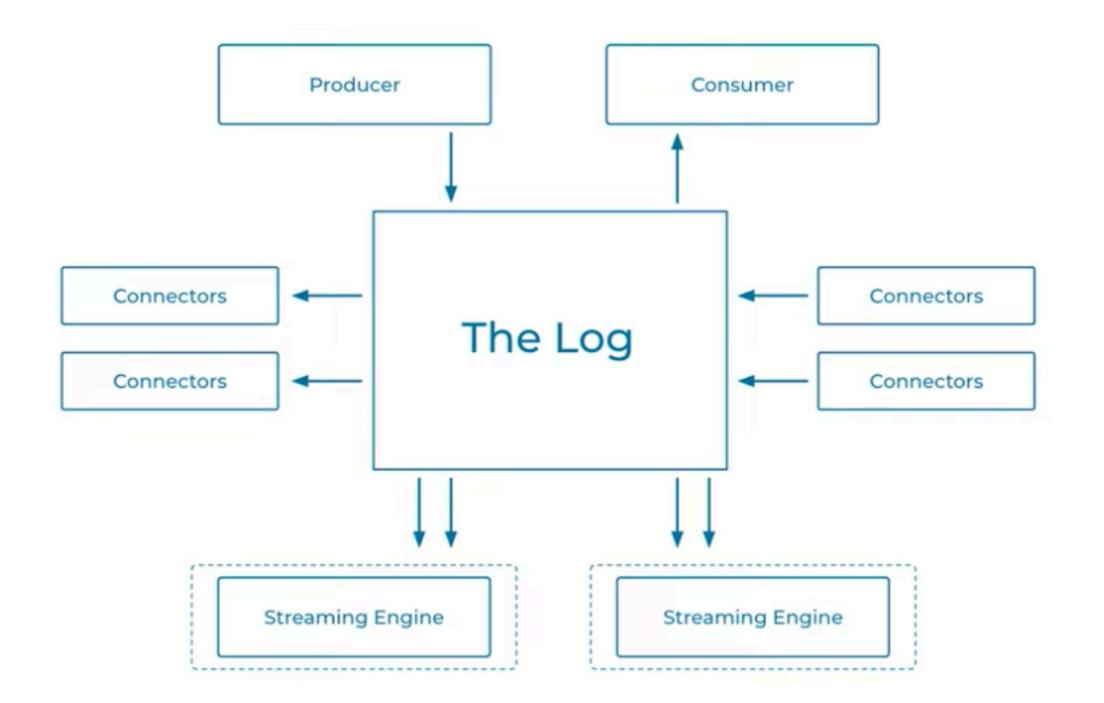
Apache Kafka







How to process events in Kafka?



```
"reading_ts": "2020-02-14T12:19:27Z",
"sensor_id": "aa-101",
"production_line": "w01",
"widget_type": "acme94",
"temp_celcius": 23,
"widget_weight_g": 100
```











Processing events with producer and consumer clients



```
public static void main(String[] args) {
 try(Consumer<String, Widget> consumer = new KafkaConsumer<>(consumerProperties());
    Producer<String, Widget> producer = new KafkaProducer<>(producerProperties())) {
        consumer.subscribe(Collections.singletonList("widgets"));
        while (true) {
            ConsumerRecords<String, Widget> records = consumer.poll(Duration.ofSeconds(5));
                for (ConsumerRecord<String, Wigdet> record : records) {
                    Widget widget = record.value();
                    if (widget.getColour().equals("red") {
                        ProducerRecord<String, Widget> producerRecord = new ProducerRecord<>(
                            "widgets-red", record.key(), widget);
                        producer.send(producerRecord, (metadata, exception)-> {.....} );
```

Copyright 2021, Confluent, Inc. All rights reserved. This document may not be reproduced in any manner without the express written permission of Confluent, Inc.

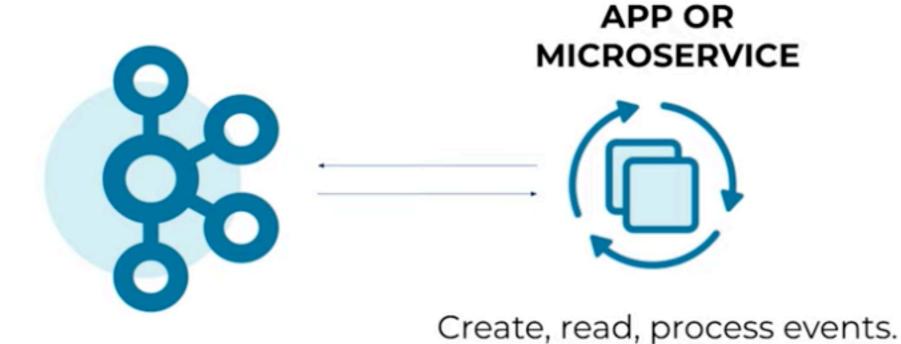
. . .

Processing events with Kafka Streams



Kafka Streams is a Java library





Use the library to write standard Java/JVM applications that process data in Kafka. Kafka Streams makes your applications elastic, distributed, scalable, and fault-tolerant.