Kafka Producer

Asynchronous Communication Style

Sending Message Asynchronously

Mobile App

HTTP Request

HTTP Response

Wait

Spring Boot Microservice

Auth Microservice

Kafka Producer

Continues

Send Asynchronously

Send Acknowledgement

Users DB

Kafka Broker

Partitions

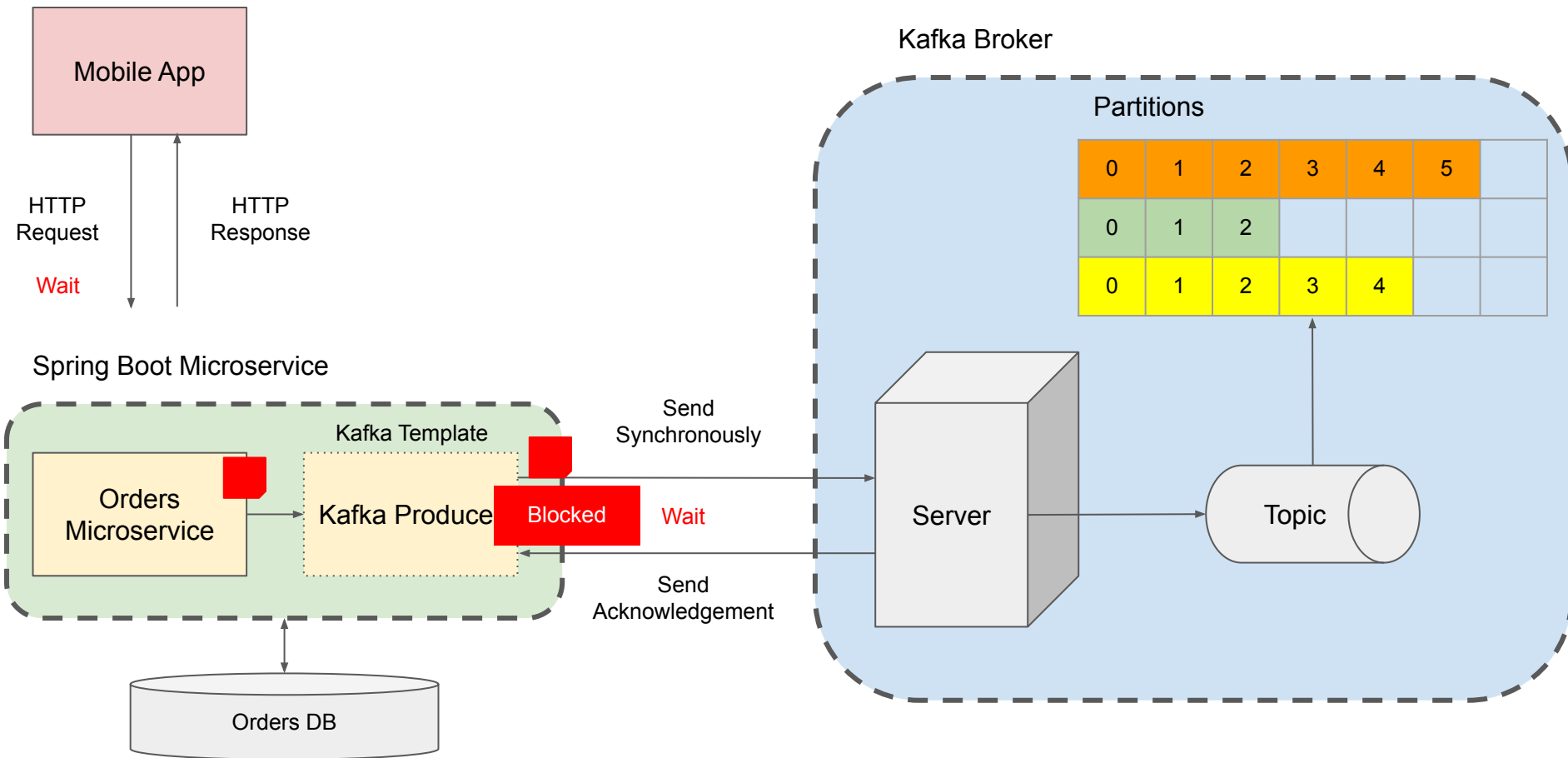| 0	1	2	3	4	5	
0	1	2				
0	1	2	3	4		

Server

Topic
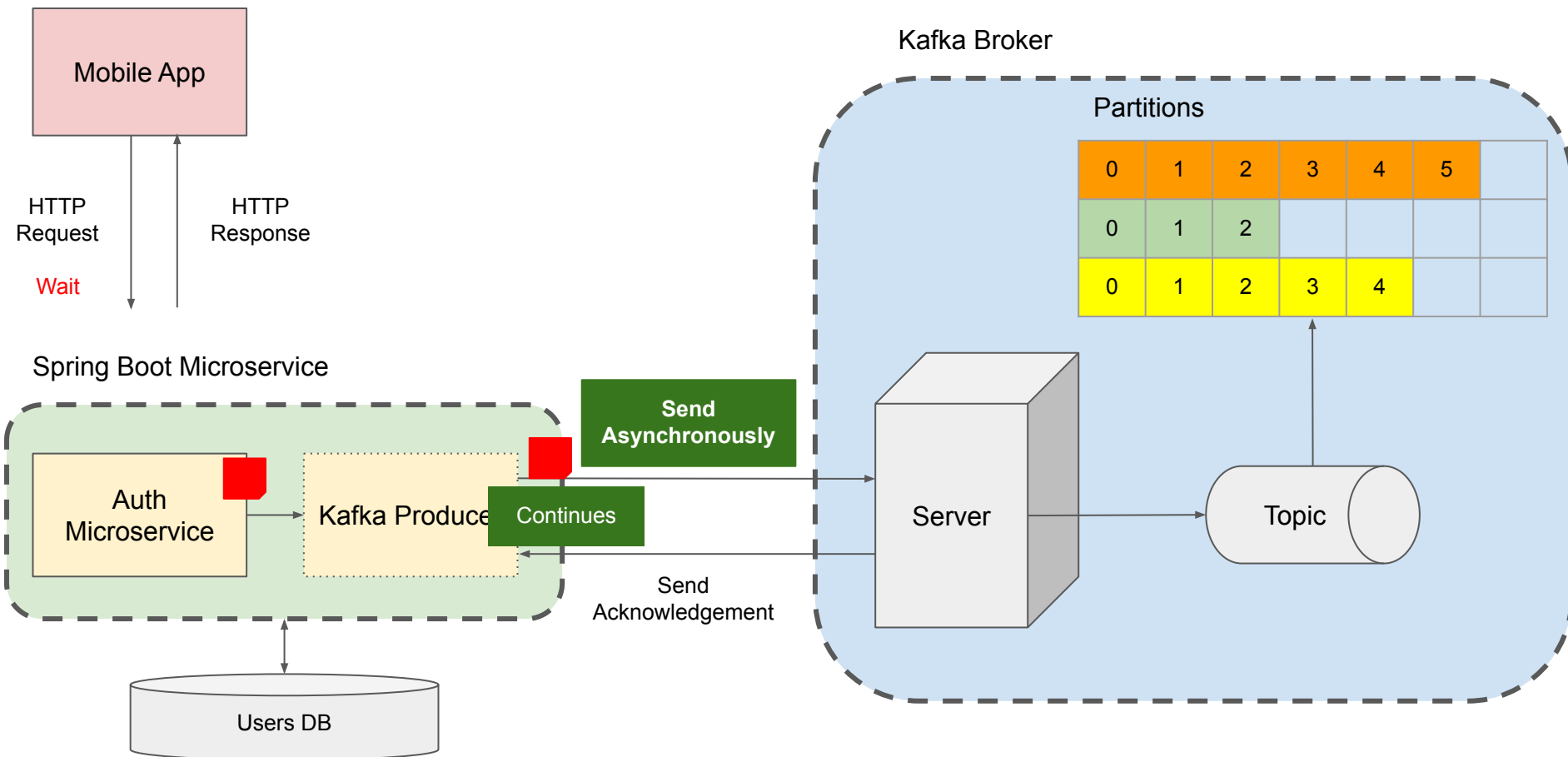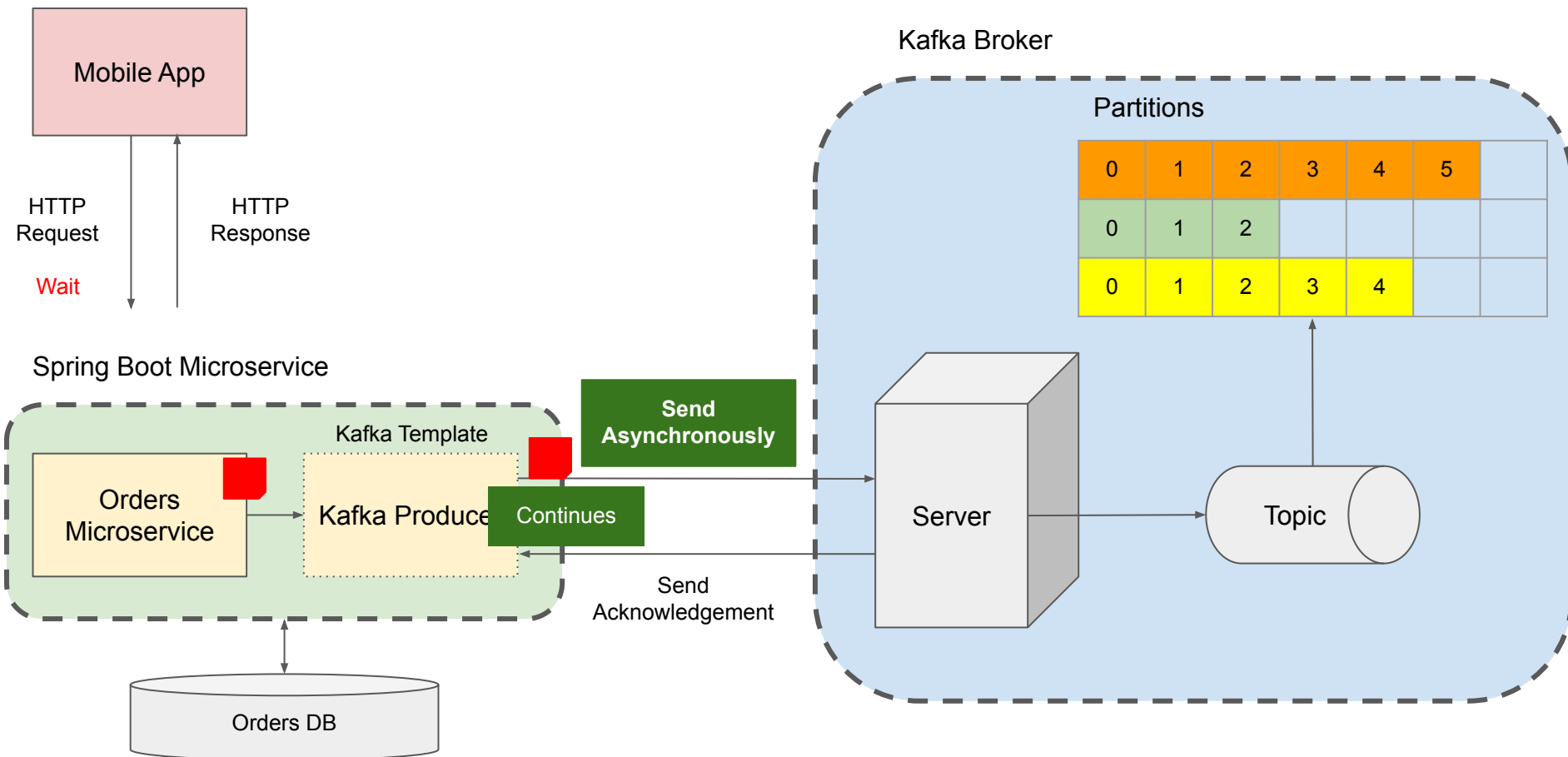
Kafka Producer

Synchronous Communication Style

Communication Style

- Synchronous,
- Asynchronous

Sending Message Synchronously

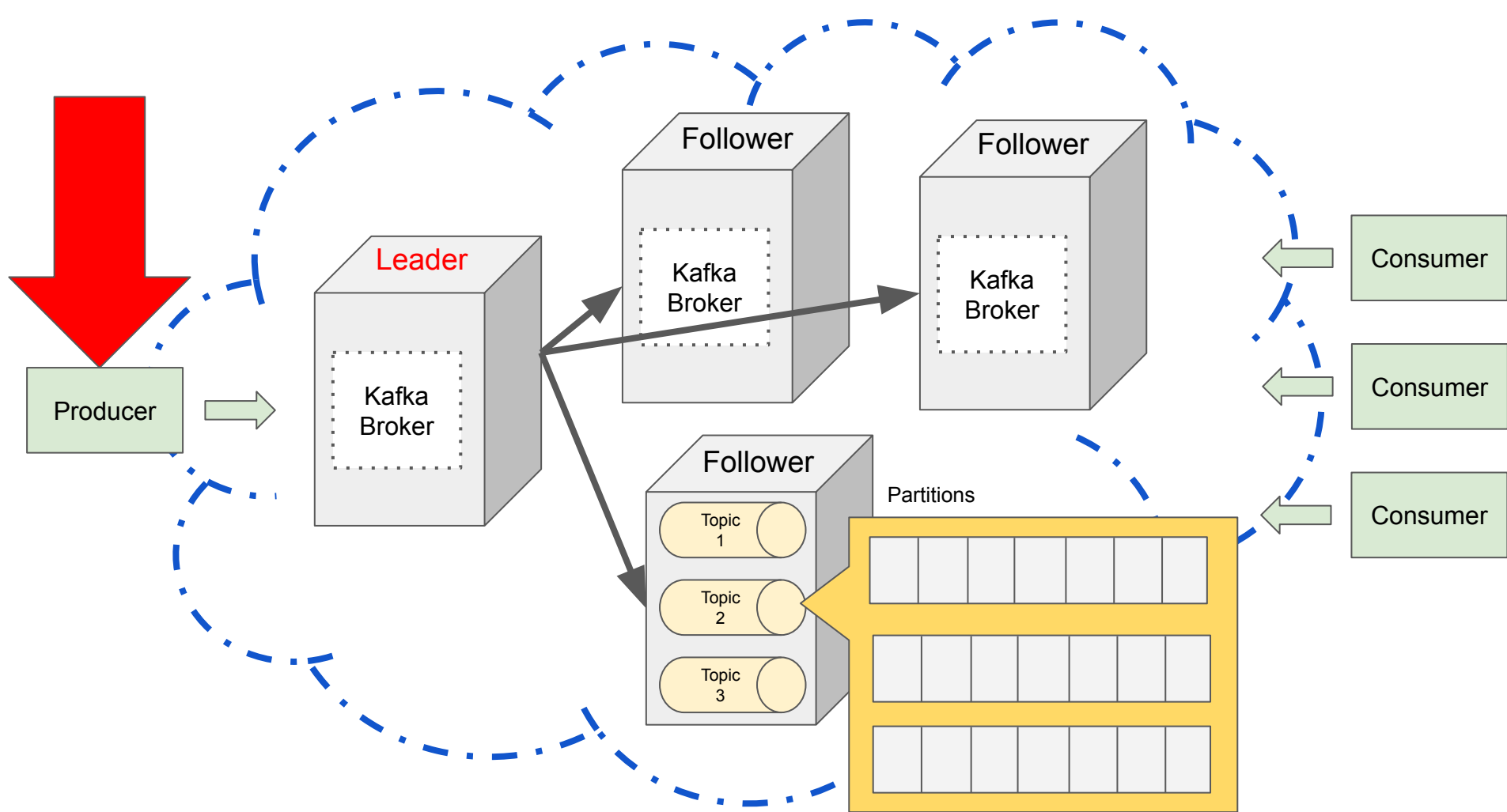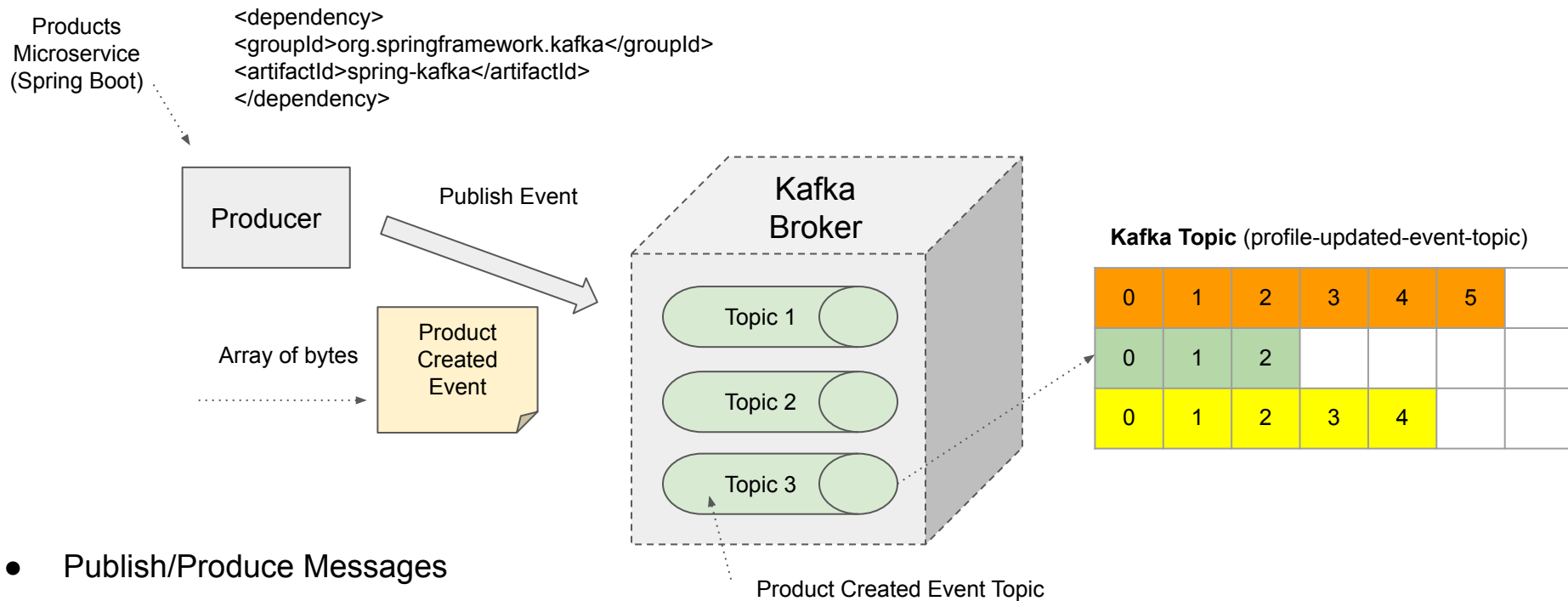# Sending Message Asynchronously

Kafka Producer

Introduction

Producer

Leader

Kafka
Broker

Follower

Kafka
Broker

Follower

Kafka
Broker

Follower

Topic
1

Topic
2

Topic
3

Partitions

Consumer

Consumer

Consumer

Products Microservice (Spring Boot)

```
<dependency>
<groupId>org.springframework.kafka</groupId>
<artifactId>spring-kafka</artifactId>
</dependency>
```

Producer

Publish Event

Kafka Broker

Topic 1

Topic 2

Topic 3

Product Created Event

Array of bytes

Product Created Event Topic

Kafka Topic (profile-updated-event-topic)

0	1	2	3	4	5	
0	1	2				
0	1	2	3	4		

- Publish/Produce Messages

- Serialize to binary format

- Specify topic name

- Specify topic partition