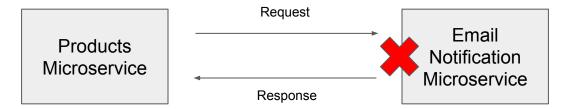
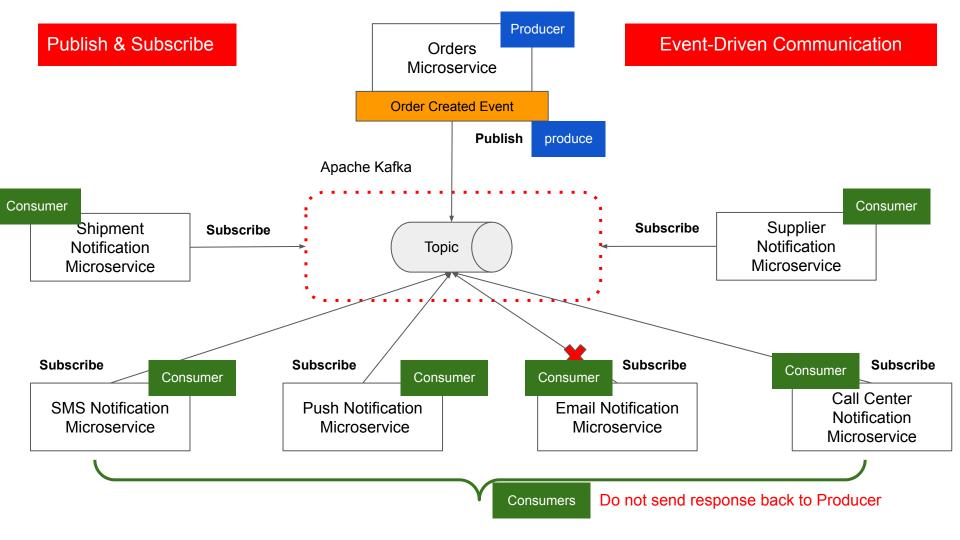
Event-Driven Microservices



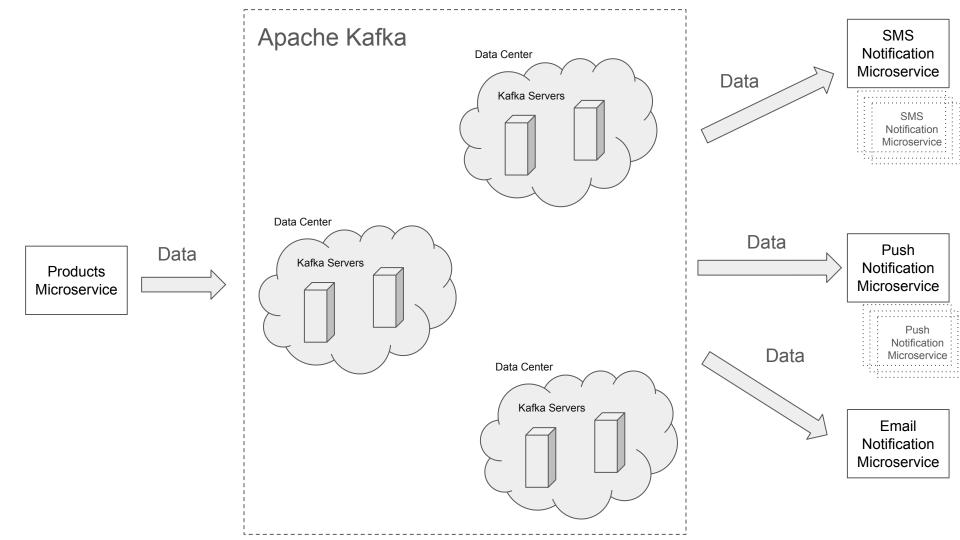


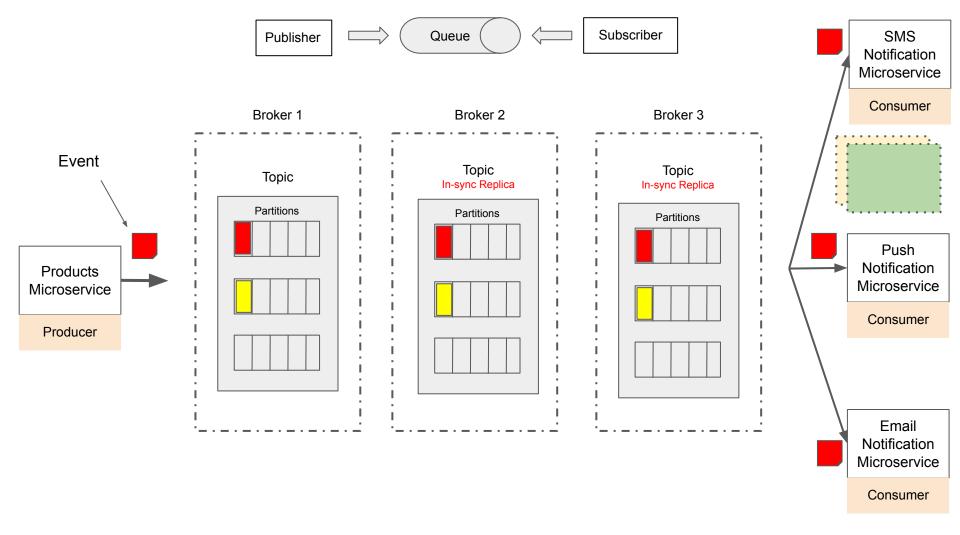
Push Notification Microservice



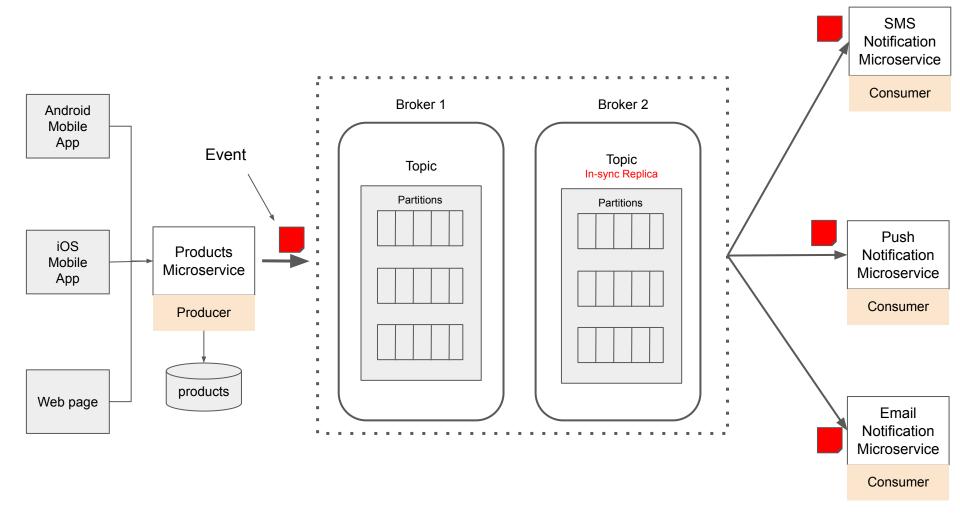
Apache Kafka

Apache Kafka is a distributed event streaming platform that is used to collect, process, store, and integrate data at scale.





Messages and Events



What is an Event?

In Apache Kafka, an event is an indication that **something has happened**.

- UserLoggedInEvent
- ProductCreatedEvent,
- OrderCreatedEvent.

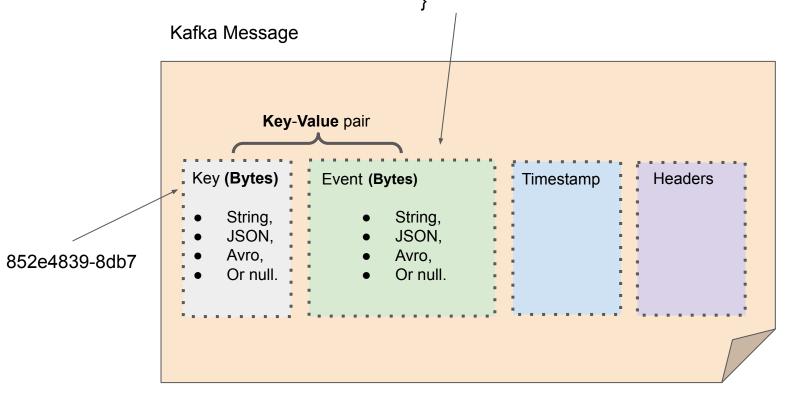
<Noun><PerformedAction>Event

ProductCreatedEvent

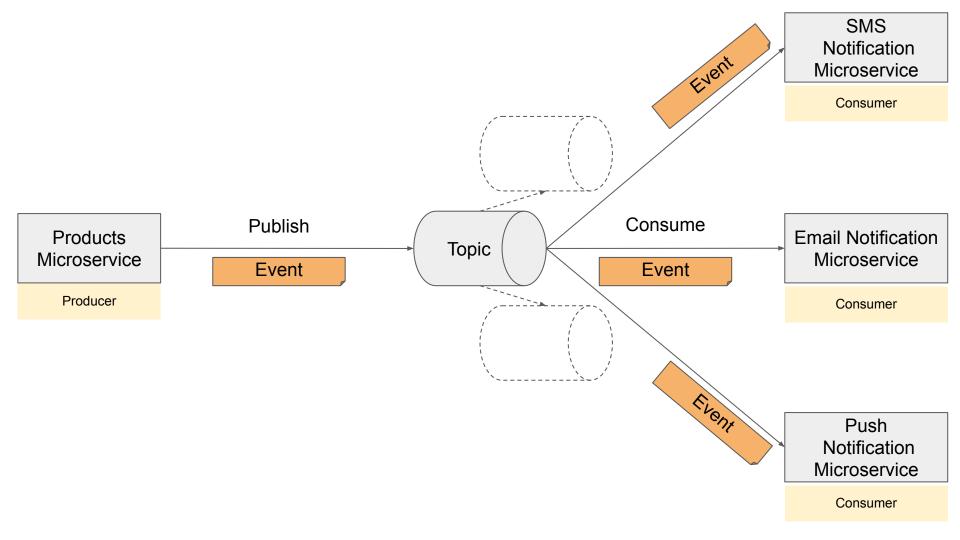
Product Deleted Event

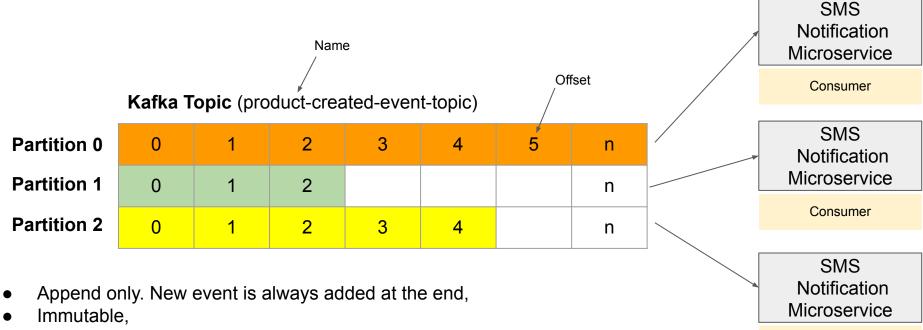
Message vs Event

{
"productId":"852e4839-8db7-4e85-809b-80064674ec2d",
"title":"iPhone 15","price":1129,
"quantity":19



Kafka Topic

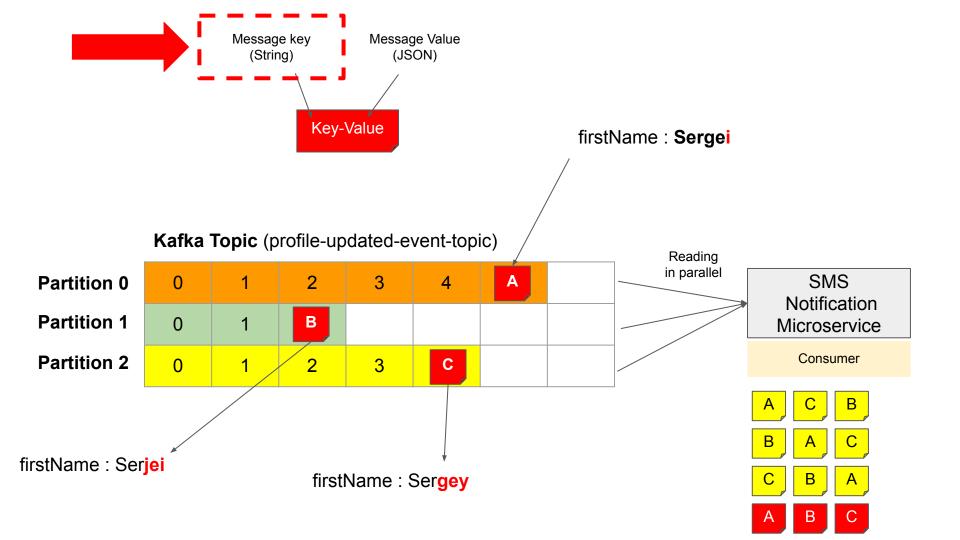




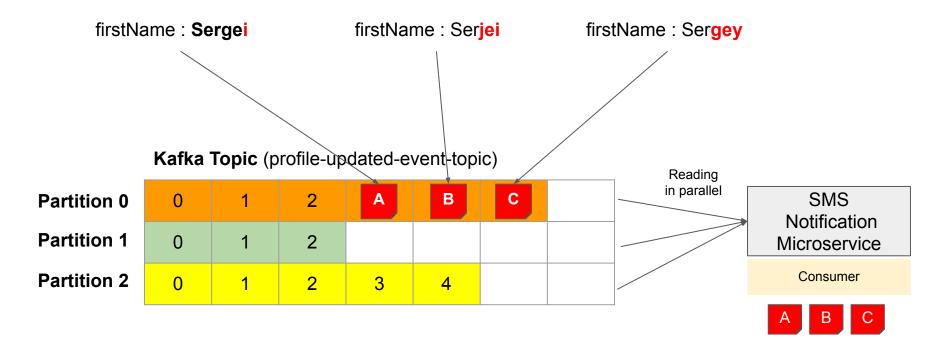
Consumer

- Events are in order within a partition. Order across partitions is not maintained,
- Default retention time is 7 days,
- By default, data is retained for a week.

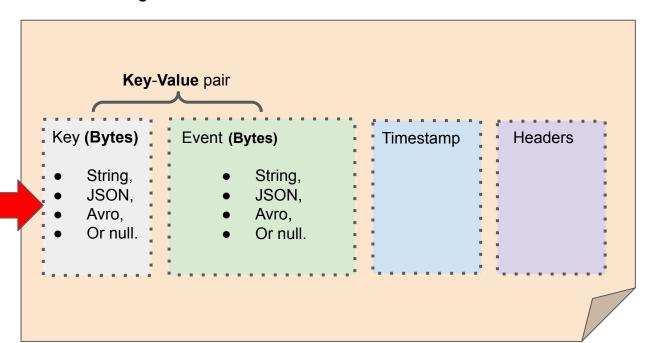
Events Ordering



Message key(User ID) 16b77e26-6aac-4da5-bd17-ca1caeb91461



Kafka Message



UUID

Possible Message Key Values

Userld	16b77e26-6aac-4da5-bd17-ca1caeb91461
ProductId	4d763028-998d-4e7f-810c-f79a407c394a

Orderld	order-id-16b77e26
Carld	car-id-4d763028 -

Message Id: 4d763028-998d...







Custom format

Message Id: f79a407c394a..





