



Kafka event Consumer

Schéma consumer (II)

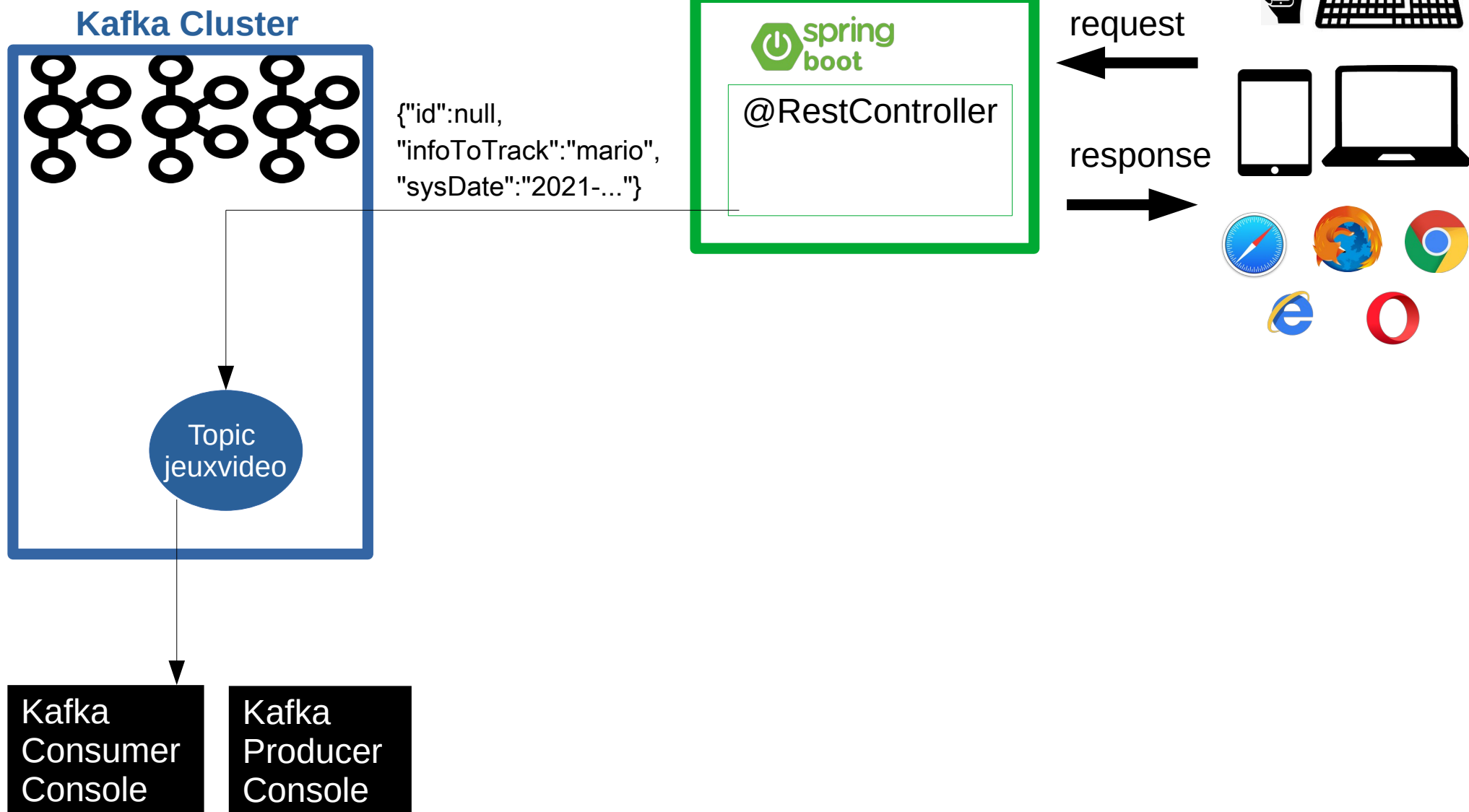
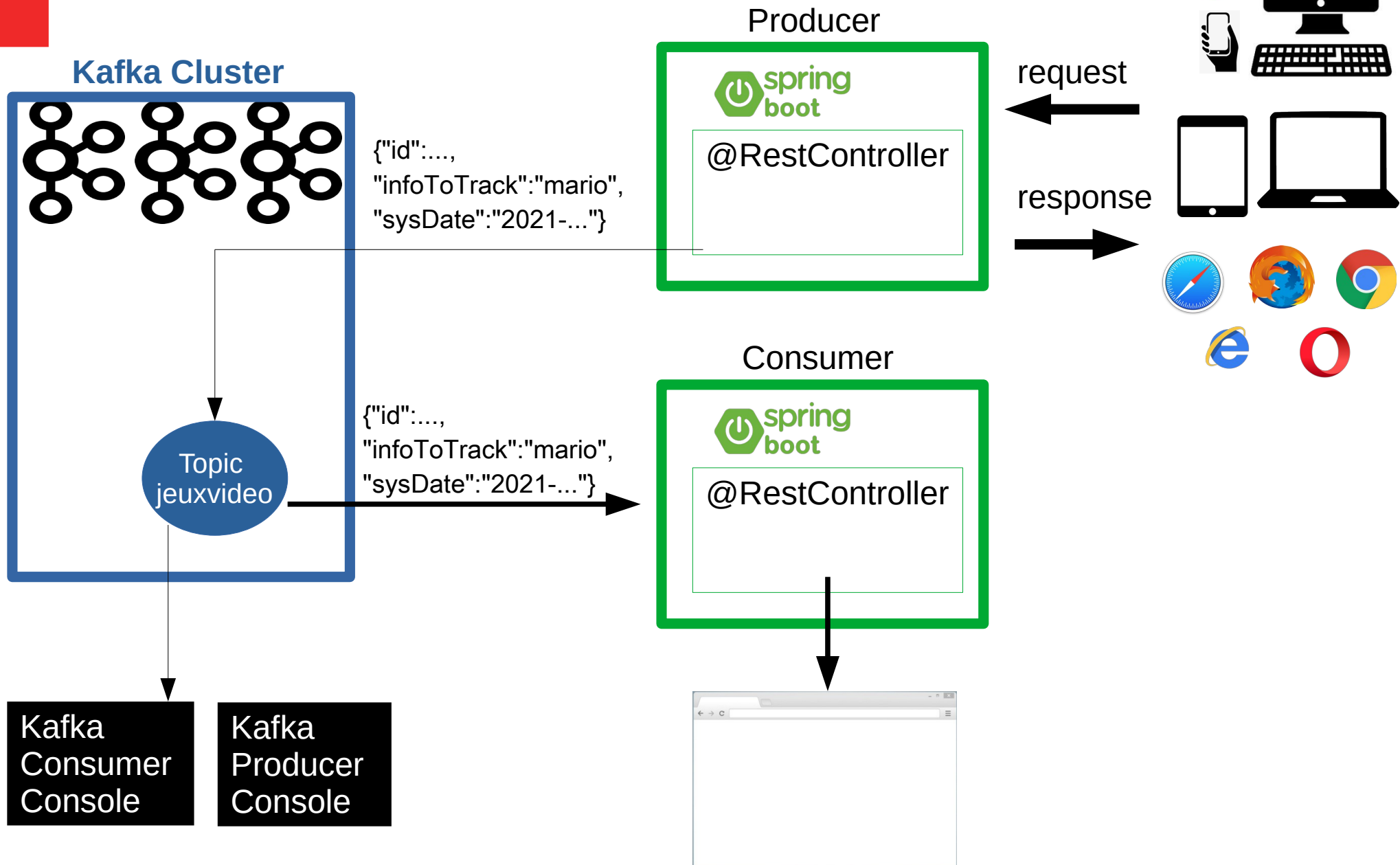



Schéma consumer (II)



- 
- Je peux utiliser l'annotation @MessageListener qui est définie dans spring Cloud Stream (deprecated)
 - On peut utiliser la programmation fonctionnelle



Project

☒ Maven Project ☐ Gradle Project

Language

☒ Java ☐ Kotlin ☐ Groovy

Spring Boot

☐ 2.5.1 (SNAPSHOT) ☒ 2.5.0 ☐ 2.4.7 (SNAPSHOT) ☐ 2.4.6
☐ 2.3.12 (SNAPSHOT) ☐ 2.3.11

Project Metadata

Group

Artifact

Name

Description

Package name

Packaging ☒ Jar ☐ War

Java ☐ 16 ☒ 11 ☐ 8

NB : démos testées sur les
versions jusqu'à
springboot version 2.7.10
& spring-cloud.version
2020.0.3-SNAPSHOT

Dependencies

ADD DEPENDENCIES... ⌘ + B

Lombok DEVELOPER TOOLS

Java annotation library which helps to reduce boilerplate code.

Spring Web WEB

Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container.

Spring for Apache Kafka MESSAGING

Publish, subscribe, store, and process streams of records.

Spring for Apache Kafka Streams MESSAGING

Building stream processing applications with Apache Kafka Streams.

Cloud Stream SPRING CLOUD MESSAGING

Framework for building highly scalable event-driven microservices connected with shared messaging systems (requires a binder, e.g. Apache Kafka, RabbitMQ or Solace PubSub+).

GENERATE ⌘ + ↵

EXPLORE CTRL + SPACE

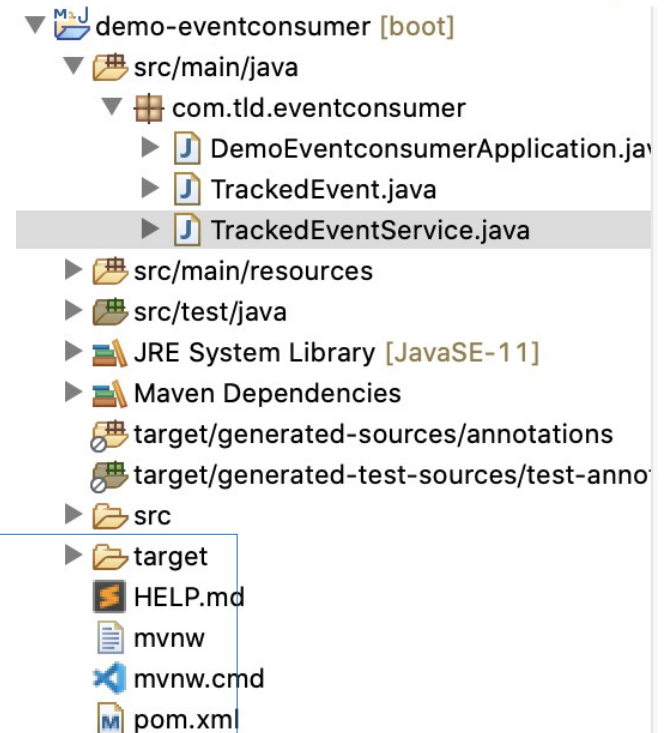
SHARE...

demo-eventConsumer

```
@Data
@NoArgsConstructor @AllArgsConstructor
@ToString
public class TrackedEvent {

    private Long id;
    private String infoToTrack;
    private Date sysDate;
}
```

demo-eventConsumer



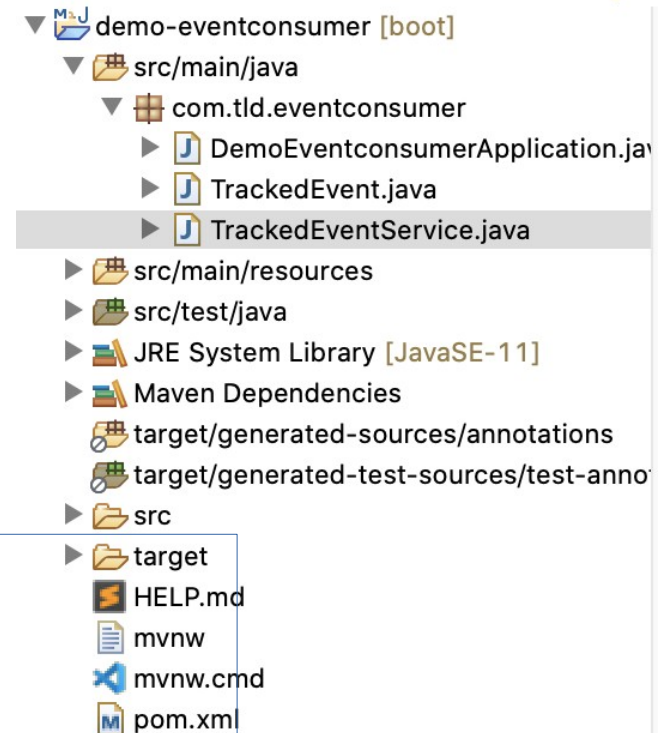
```
import java.util.function.Consumer;

import org.springframework.stereotype.Service;

@Service
public class TrackedEventService {

    public Consumer<TrackedEvent> trackedEventConsumer(){
        return null;
    }
}
```

demo-eventConsumer



```
import java.util.function.Consumer;

import org.springframework.stereotype.Service;

@Service
public class TrackedEventService {
    public Consumer<TrackedEvent> trackedEventConsumer(){
        return (input) -> {System.out.println(input);};
    }
}
```

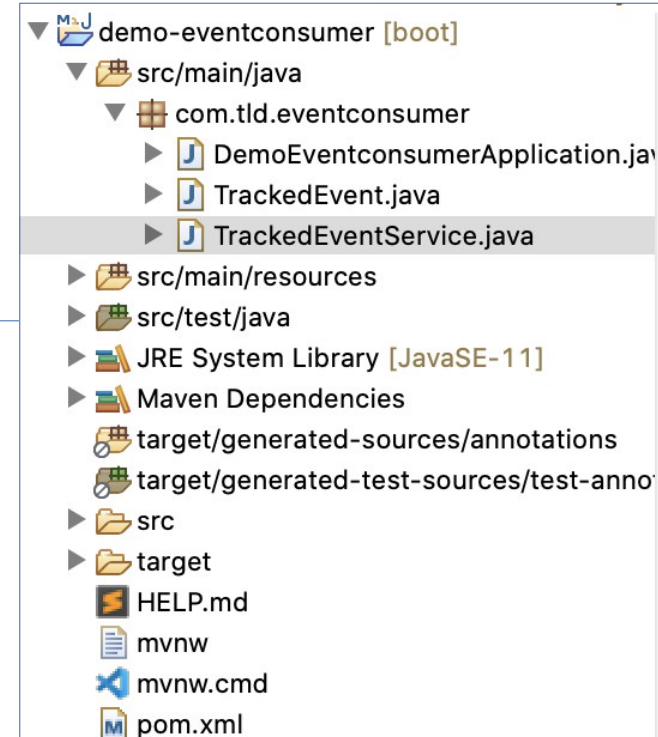

demo-eventConsumer

```
package com.tld.eventconsumer;

import java.util.function.Consumer;
import org.springframework.context.annotation.Bean;
import org.springframework.stereotype.Service;

@Service
public class TrackedEventService {

    @Bean
    public Consumer<TrackedEvent> trackedEventConsumer(){
        return (input) -> {
            System.out.println("*****");
            System.out.println(input.toString());
            System.out.println("*****");
        };
    }
}
```



Topic consommé

application.properties

trackedEventConsumer-in_0

Nom du topic par défaut

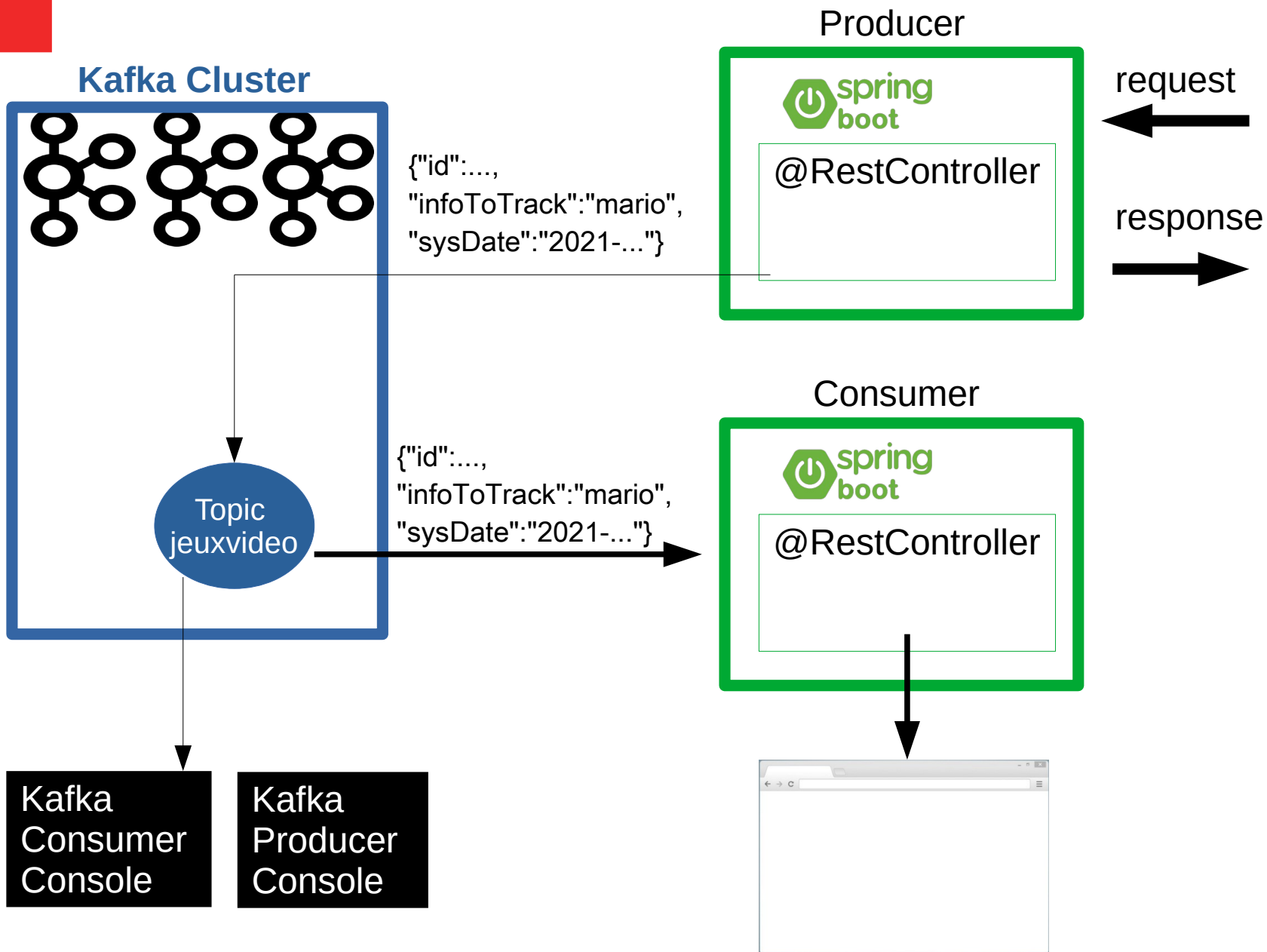
Du moment que c'est un
input on va utiliser "in"

Topic spécifié

application.properties

spring.cloud.stream.bindings.trackedEventConsumer-in_0.destination=jeuxvideo

```
application.properties ✖  
1 spring.cloud.stream.bindings.trackedEventConsumer-in_0.destination=jeuxvideo  
2 |
```



Redémarrer zookeeper kafka le producer console

```
cd /Users/christian/kafka_2.13-2.8.0
```

```
bin/zookeeper-server-start.sh config/zookeeper.properties  
start bin\windows\zookeeper-server-start.bat config/zookeeper.properties
```

```
bin/kafka-server-start.sh config/server.properties  
start bin\windows\kafka-server-start.bat config/server.properties
```

```
bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic jeuxvideo  
start bin\windows\kafka-console-consumer.bat --bootstrap-server localhost:9092 --topic jeuxvideo
```

```
bin/kafka-console-producer.sh --broker-list localhost:9092 --topic jeuxvideo  
start bin\windows\kafka-console-producer.bat --broker-list localhost:9092 --topic jeuxvideo
```

Démarrer spring boot
demo-eventconsumer



```
demo-eventconsumer - DemoEventConsumerApplication (Spring Boot App)
Spring Boot
2021-05-30 10:35:43.954 INFO 24978 --- [main] c.t.e.DemoEventConsumerApplication : Starting DemoEventConsumerApp
2021-05-30 10:35:43.957 INFO 24978 --- [main] c.t.e.DemoEventConsumerApplication : No active profile set, falling
2021-05-30 10:35:44.458 WARN 24978 --- [background-preinit] o.s.h.c.j.Jackson2ObjectMapperBuilder : For Jackson Kotlin classes su
2021-05-30 10:35:44.959 INFO 24978 --- [main] o.s.c.a.ConfigurationClassEnhancer : @Bean method KotlinLambdaToFu
2021-05-30 10:35:44.982 INFO 24978 --- [main] faultConfiguringBeanFactoryPostProcessor : No bean named 'errorChannel'
2021-05-30 10:35:44.995 INFO 24978 --- [main] faultConfiguringBeanFactoryPostProcessor : No bean named 'integrationHea
2021-05-30 10:35:45.073 INFO 24978 --- [main] trationDelegatesBeanPostProcessorChecker : Bean 'org.springframework.int
2021-05-30 10:35:45.082 INFO 24978 --- [main] trationDelegatesBeanPostProcessorChecker : Bean 'org.springframework.boc
2021-05-30 10:35:45.098 INFO 24978 --- [main] trationDelegatesBeanPostProcessorChecker : Bean 'org.springframework.boc
2021-05-30 10:35:45.110 INFO 24978 --- [main] trationDelegatesBeanPostProcessorChecker : Bean 'mbeanServer' of type [c
2021-05-30 10:35:45.142 INFO 24978 --- [main] trationDelegatesBeanPostProcessorChecker : Bean 'integrationChannelResol
2021-05-30 10:35:45.143 INFO 24978 --- [main] trationDelegatesBeanPostProcessorChecker : Bean 'integrationDisposableLea
2021-05-30 10:35:45.487 INFO 24978 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(
2021-05-30 10:35:45.500 INFO 24978 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2021-05-30 10:35:45.501 INFO 24978 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apa
2021-05-30 10:35:45.589 INFO 24978 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded
```

Tester le consumer

```
kafka_2.13-2.8.0 — java -Xmx512M -server -XX:+UseG1GC -XX:MaxGCPauseMilli...
....8.0.jar:/Users/chri kafka.tools.ConsoleProducer --broker-list localhost:9092 --topic jeuxvideo
christian@MacBook-Pro kafka_2.13-2.8.0 % bin/kafka-console-producer.sh --broker-
list localhost:9092 --topic jeuxvideo
>{"infoToTrack":"luigi is still there"}
>
```

>{"id":8,"infoToTrack":"luigi is still in race","sysDate":"2021-02-21"}



```
2021-05-30 11:00:46.530 INFO 26433 --- [container-0-C-1] o.a.k.c.c.internals.Con
2021-05-30 11:00:46.538 INFO 26433 --- [container-0-C-1] o.a.k.c.c.internals.Con
2021-05-30 11:00:46.542 INFO 26433 --- [container-0-C-1] o.a.k.c.c.internals.Con
2021-05-30 11:00:46.543 INFO 26433 --- [main] c.t.e.DemoEventconsumer
2021-05-30 11:00:46.544 INFO 26433 --- [main] o.s.b.a.ApplicationAvai
2021-05-30 11:00:46.546 INFO 26433 --- [main] o.s.b.a.ApplicationAvai
2021-05-30 11:00:46.552 INFO 26433 --- [container-0-C-1] o.a.k.c.c.internals.Sub
2021-05-30 11:00:46.557 INFO 26433 --- [container-0-C-1] o.s.c.s.b.k.KafkaMessag
```

```
*****
TrackedEvent(id=null, infoToTrack=luigi is still there, sysDate=null)
*****
```

```
2021-05-30 11:00:46.530 INFO 26433 --- [container-0-C-1] o.a.k.c.c.internals.Con
2021-05-30 11:00:46.538 INFO 26433 --- [container-0-C-1] o.a.k.c.c.internals.Con
2021-05-30 11:00:46.542 INFO 26433 --- [container-0-C-1] o.a.k.c.c.internals.Con
2021-05-30 11:00:46.543 INFO 26433 --- [main] c.t.e.DemoEventconsumer
2021-05-30 11:00:46.544 INFO 26433 --- [main] o.s.b.a.ApplicationAvai
2021-05-30 11:00:46.546 INFO 26433 --- [main] o.s.b.a.ApplicationAvai
2021-05-30 11:00:46.552 INFO 26433 --- [container-0-C-1] o.a.k.c.c.internals.Sub
2021-05-30 11:00:46.557 INFO 26433 --- [container-0-C-1] o.s.c.s.b.k.KafkaMessag
```

```
*****
TrackedEvent(id=null, infoToTrack=luigi is still there, sysDate=null)
*****
```