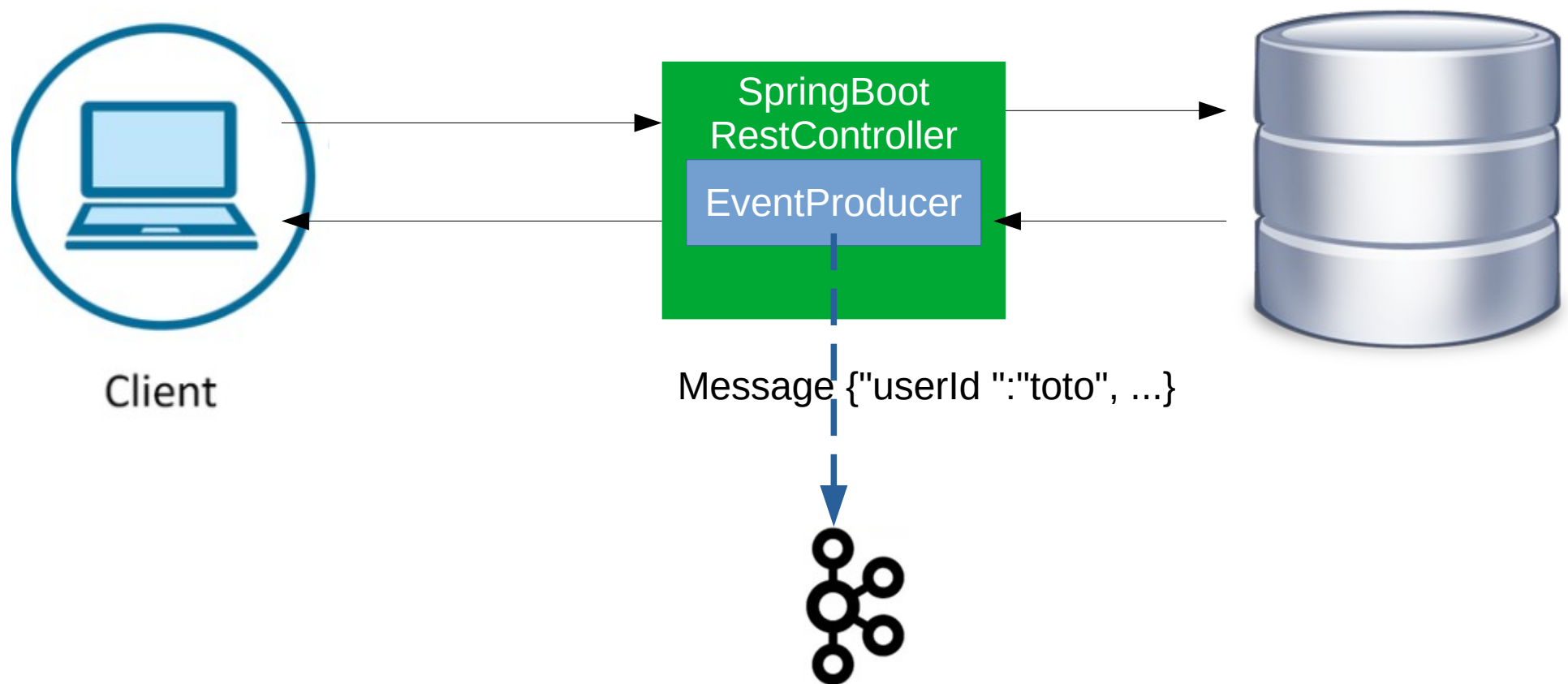


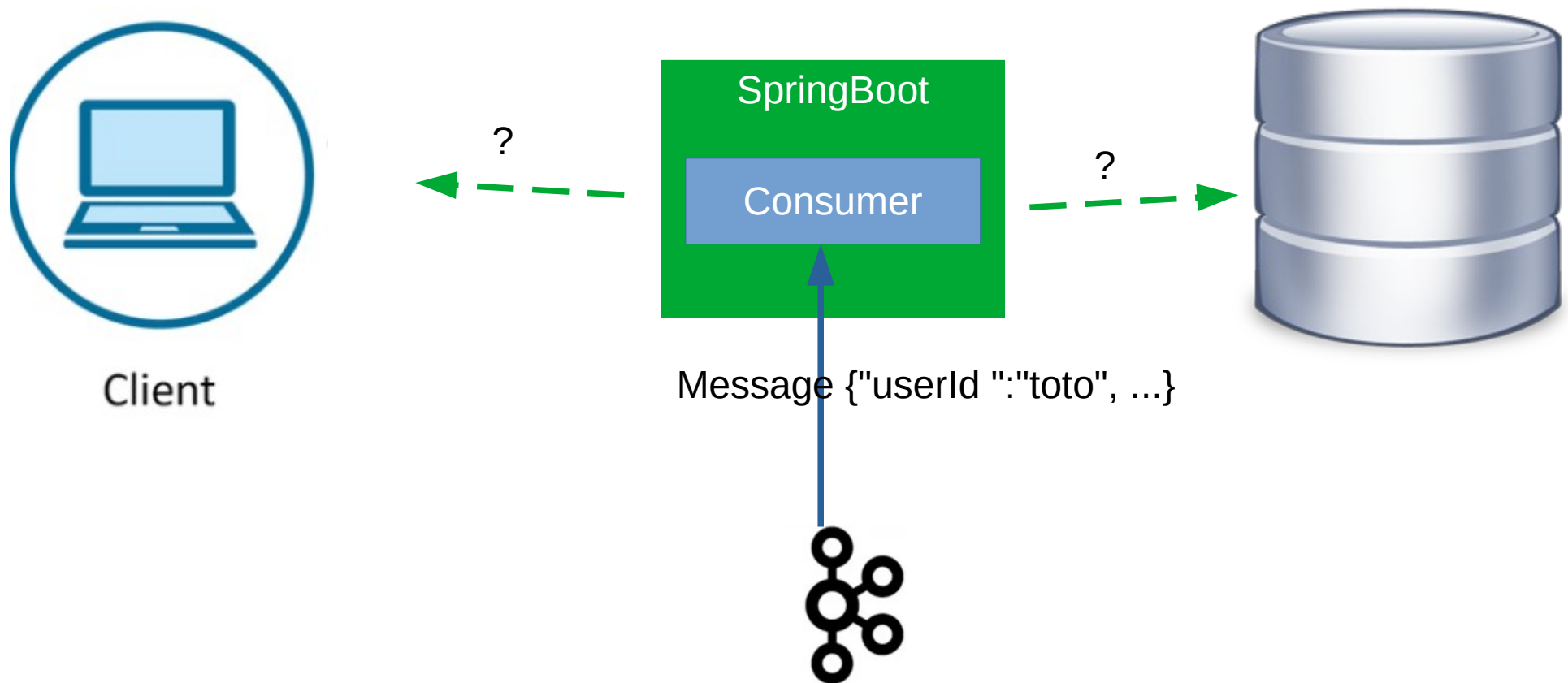


Kafka Demonstration

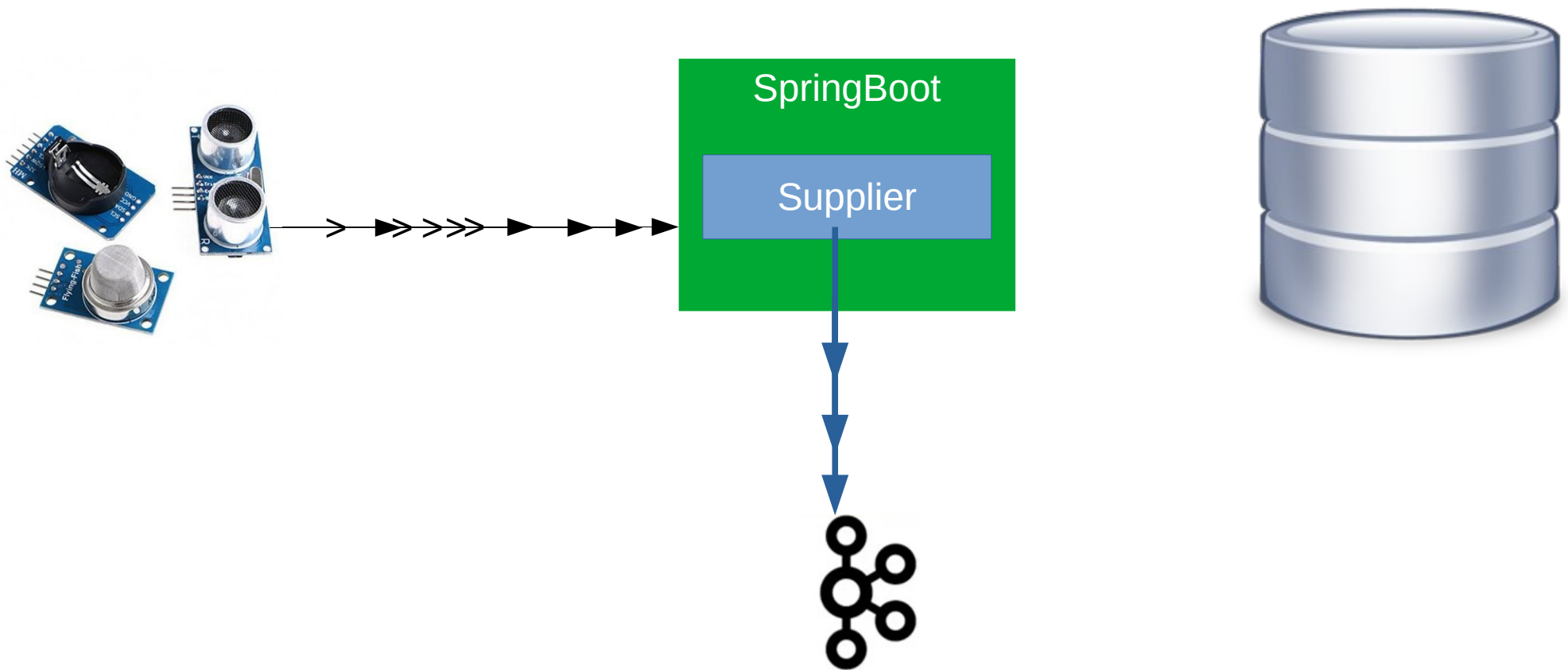
1^{er} cas - log



2) Un consumer



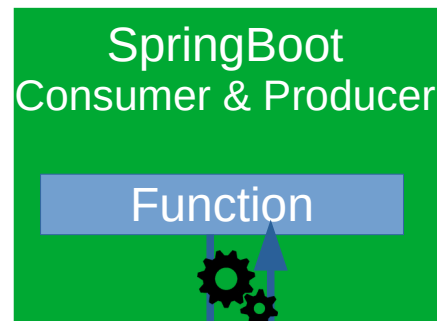
3) Producer



4) Consumer & Producer



Client



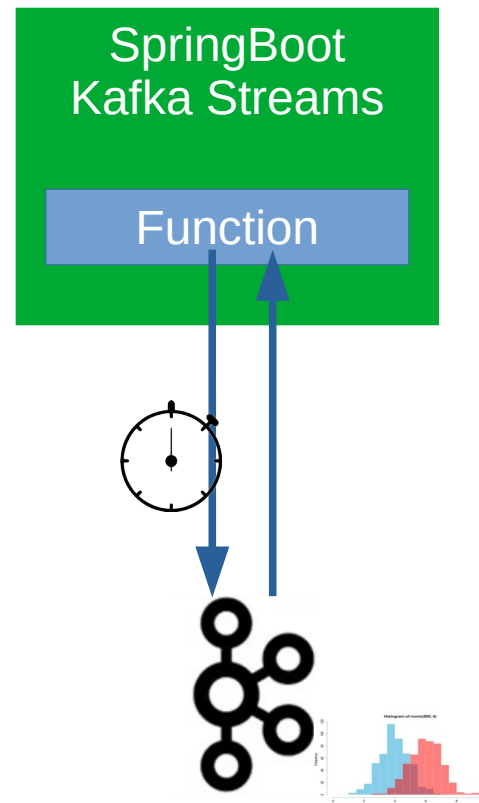
Message {'userId ":"toto", ...}

Message {"client ":"Toto", ...}



5) Dernier cas Kafka Streams

Real-time processing



Comment travailler kafka ?

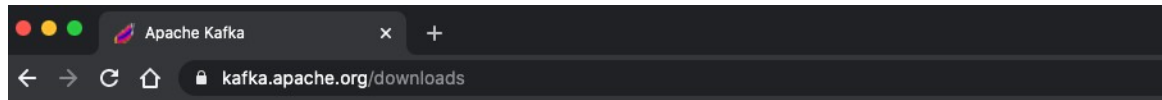
avec ...

Dédié à Kafka
uniquement

- KafkaTemplate (send) & @KafkaListener (consumer)
- Spring Cloud Streams
 - MessageChannel (interface d'envoi), @StreamListener (consumer)
 - Spring Cloud Streams function (programmation fonctionnelle)

Deprecated

Telecharger kafka depuis kafka.apache.org/downloads



GET STARTED

DOCS

POWERED BY

DOWNLOAD

2.8.0 is the latest release. The current stable version is 2.8.0.

You can verify your download by following these [procedures](#) and using these [KEYS](#).

2.8.0

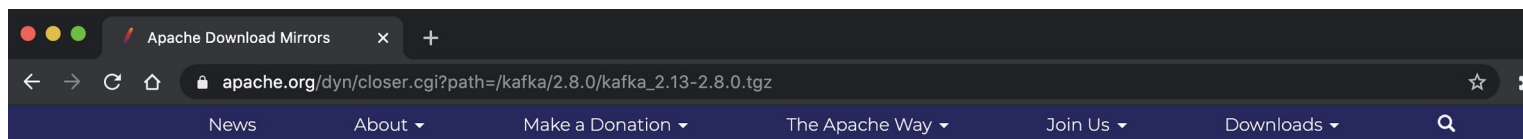
- Released April 19, 2021
- [Release Notes](#)
- Source download: [kafka-2.8.0-src.tgz](#) ([asc](#), [sha512](#))
- Binary downloads:
 - Scala 2.12 - [kafka_2.12-2.8.0.tgz](#) ([asc](#), [sha512](#))
 - Scala 2.13 - [kafka_2.13-2.8.0.tgz](#) ([asc](#), [sha512](#))

We build for multiple versions of Scala. This only matters if you are using Scala and you want a \ Otherwise any version should work (2.13 is recommended).

Kafka 2.8.0 includes a number of significant new features. Here is a summary of some notable cha

- Early access of replace ZooKeeper with a self-managed quorum

Télécharger kafka



COMMUNITY-LED DEVELOPMENT "THE APACHE WAY"

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We suggest the following mirror site for your download:

https://mirroir.wptheme.fr/apache/kafka/2.8.0/kafka_2.13-2.8.0.tgz

Other mirror sites are suggested below.

It is essential that you verify the integrity of the downloaded file using the PGP signature (`.asc` file) or a hash (`.md5` or `.sha*` file).

Please only use the backup mirrors to download KEYS, PGP signatures and hashes (SHA* etc) -- or if no other mirrors are working.

HTTP

https://apache.mediamirrors.org/kafka/2.8.0/kafka_2.13-2.8.0.tgz

https://miroir.univ-lorraine.fr/apache/kafka/2.8.0/kafka_2.13-2.8.0.tgz

https://mirroir.wptheme.fr/apache/kafka/2.8.0/kafka_2.13-2.8.0.tgz

https://mirrors.ircam.fr/pub/apache/kafka/2.8.0/kafka_2.13-2.8.0.tgz

https://pub.tutosfaciles48.fr/mirrors/apache/kafka/2.8.0/kafka_2.13-2.8.0.tgz

BACKUP SITES

Please only use the backup mirrors to download KEYS, PGP signatures and hashes (SHA* etc) -- or if no other mirrors are working.

https://downloads.apache.org/kafka/2.8.0/kafka_2.13-2.8.0.tgz

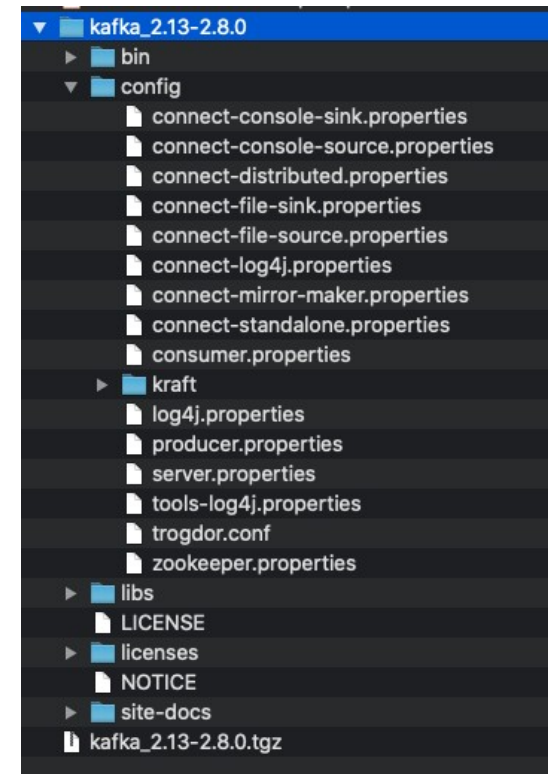
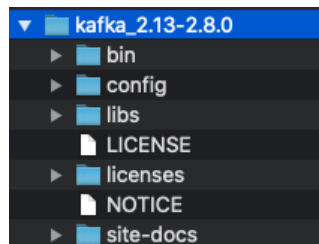
The full listing of mirror sites is also available.

BECOMING A MIRROR

The procedure for setting up new mirrors is described in [How to become a mirror](#).

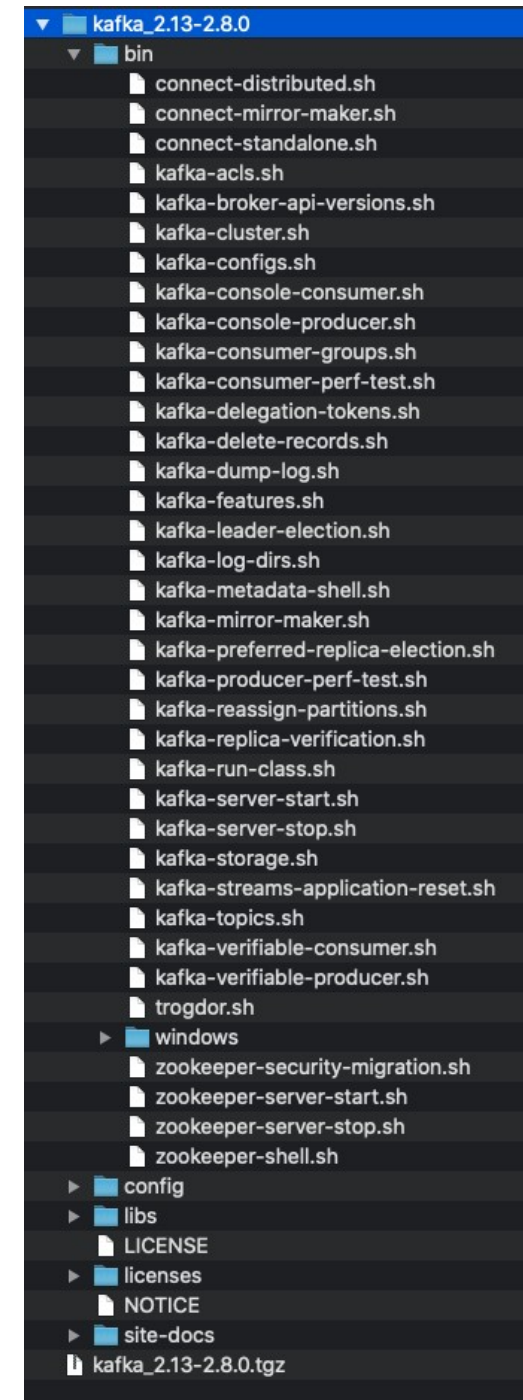
Décompressez le .tgz

- Extraire l'archive
- Déplacer à son emplacement (que vous choisissiez)
- Nb à l'intérieur de kafka directory il existe un répertoire config contenant les fichiers de configuration (pour zookeeper, kafka server..etc)



kafka_dir/bin

- Dans /bin il y a des scripts utilitaires que vous utiliserez en .sh ou dans le dossier win au format .bat



1) Démarrez Zookeeper

- Ouvrir un terminal et le faire pointer dans kafka_dir

Démarrer sous Windows 10

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

Démarrer sous MacOS

```
bin/zookeeper-server-start.sh config/zookeeper.properties
```

```
[2021-04-28 23:23:52,660] INFO Using
org.apache.zookeeper.server.NIOServerCnxnFactory as server connection
factory (org.apache.zookeeper.server.ServerCnxnFactory)
[2021-04-28 23:23:52,664] INFO Configuring NIO connection handler with 10s
sessionless connection timeout, 2 selector thread(s), 16 worker threads, and 64
kB direct buffers. (org.apache.zookeeper.server.NIOServerCnxnFactory)
[2021-04-28 23:23:52,676] INFO binding to port 0.0.0.0/0.0.0.0:2181
(org.apache.zookeeper.server.NIOServerCnxnFactory)
[2021-04-28 23:23:52,698] INFO zookeeper.snapshotSizeFactor = 0.33
(org.apache.zookeeper.server.ZKDatabase)
[2021-04-28 23:23:52,701] INFO Reading snapshot
/tmp/zookeeper/version-2/snapshot.0
(org.apache.zookeeper.server.persistence.FileSnap)
[2021-04-28 23:23:52,710] INFO Snapshotting: 0x0 to
/tmp/zookeeper/version-2/snapshot.0
(org.apache.zookeeper.server.persistence.FileTxnSnapLog)
[2021-04-28 23:23:52,731] INFO PrepRequestProcessor (sid:0) started,
reconfigEnabled=false (org.apache.zookeeper.server.PrepareRequestProcessor)
[2021-04-28 23:23:52,737] INFO Using checkIntervalMs=60000
maxPerMinute=10000 (org.apache.zookeeper.server.ContainerManager)
```

Port de zookeeper

2) Démarrer le server Kafka

Sous windows

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

Les données de kafka se trouvent dans :
`/tmp/kafka-logs`
`/tmp/zookeeper`

Sous MacOS

```
bin/kafka-server-start.sh config/server.properties
```

```
[2021-04-28 23:33:33,433] INFO [SocketServer listenerType=ZK_BROKER, nodeId=0] Starting socket
server acceptors and processors (kafka.network.SocketServer)
[2021-04-28 23:33:33,439] INFO [SocketServer listenerType=ZK_BROKER, nodeId=0] Started data-plane
acceptor and processor(s) for endpoint : ListenerName(PLAINTEXT) (kafka.network.SocketServer)
[2021-04-28 23:33:33,439] INFO [SocketServer listenerType=ZK_BROKER, nodeId=0] Started socket
server acceptors and processors (kafka.network.SocketServer)
[2021-04-28 23:33:33,445] INFO Kafka version: 2.8.0 (org.apache.kafka.common.utils.AppInfoParser)
[2021-04-28 23:33:33,445] INFO Kafka commitId: ebb1d6e21cc92130
(org.apache.kafka.common.utils.AppInfoParser)
[2021-04-28 23:33:33,446] INFO Kafka startTimeMs: 1619645613440
(org.apache.kafka.common.utils.AppInfoParser)
[2021-04-28 23:33:33,448] INFO [KafkaServer id=0] started (kafka.server.KafkaServer)
[2021-04-28 23:33:33,579] INFO [broker-0-to-controller-send-thread]: Recorded new controller, from now
on will use broker localhost:9092 (id: 0 rack: null) (kafka.server.BrokerToControllerRequestThread)
```

Démarrer la console de Consumer

- Kafka-Console-Consumer

Emplacement
de kafka server

Nom du topic
subscribed

Sous windows executer dans kafka_dir

```
start bin\windows\kafka-console-consumer.bat --bootstrap-server localhost:9092 --topic T1
```

Sous MacOS executer dans kafka_dir

```
bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic T1
```

```
christian@MacBook-Pro kafka_2.13-2.8.0 % bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic T1
```

```
[2021-04-28 23:59:18,116] WARN [Consumer clientId=consumer-console-consumer-33570-1, groupId=console-consumer-33570] Error while fetching metadata with correlation id 2 : {T1=LEADER_NOT_AVAILABLE} (org.apache.kafka.clients.NetworkClient)
```

```
[2021-04-28 23:59:18,228] WARN [Consumer clientId=consumer-console-consumer-33570-1, groupId=console-consumer-33570] Error while fetching metadata with correlation id 4 : {T1=LEADER_NOT_AVAILABLE} (org.apache.kafka.clients.NetworkClient)
```

```
[2021-04-28 23:59:18,343] WARN [Consumer clientId=consumer-console-consumer-33570-1, groupId=console-consumer-33570] Error while fetching metadata with correlation id 6 : {T1=LEADER_NOT_AVAILABLE} (org.apache.kafka.clients.NetworkClient)
```

Démarrer la console Producer

- Kafka-Console-Producer

Ou se trouve kafka ?

Le topic
où je vais
produire

Executez sous windows :

```
start bin\windows\kafka-console-producer.bat --broker-list localhost:9092 --topic T1
```

Executez sous macOS :

```
bin/kafka-console-producer.sh --broker-list localhost:9092 --topic T1
```

J'ai mes deux consoles

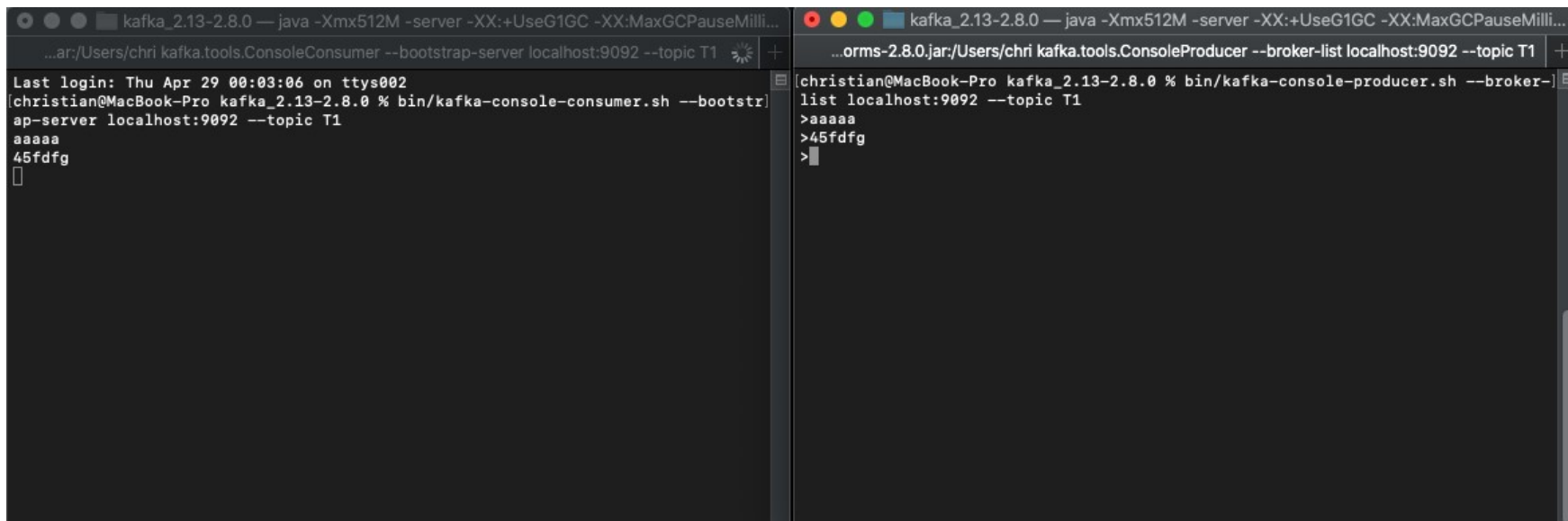
Consumer

```
kafka_2.13-2.8.0 — java -Xmx512M -server -XX:+UseG1GC -XX:MaxGCPauseMilli...
...8.0.jar/Users/chri kafka.tools.ConsoleConsumer --bootstrap-server localhost:9092 --topic T1
Last login: Thu Apr 29 00:03:06 on ttys002
christian@MacBook-Pro kafka_2.13-2.8.0 % bin/kafka-console-consumer.sh --bootstr
ap-server localhost:9092 --topic T1
█
```

Producer

```
kafka_2.13-2.8.0 — java -Xmx512M -server -XX:+UseG1GC -XX:MaxGCPauseMilli...
...orms-2.8.0.jar/Users/chri kafka.tools.ConsoleProducer --broker-list localhost:9092 --topic T1
christian@MacBook-Pro kafka_2.13-2.8.0 % bin/kafka-console-producer.sh --broker-
list localhost:9092 --topic T1
> █
```


Test communication



The image shows two terminal windows side-by-side, both running Kafka 2.13-2.8.0. The left window is running the console consumer, and the right window is running the console producer. The consumer is waiting for messages on topic T1, and the producer is sending messages to the same topic.

```
kafka_2.13-2.8.0 — java -Xmx512M -server -XX:+UseG1GC -XX:MaxGCPauseMilli...
...ar:/Users/chri kafka.tools.ConsoleConsumer --bootstrap-server localhost:9092 --topic T1
Last login: Thu Apr 29 00:03:06 on ttys002
christian@MacBook-Pro kafka_2.13-2.8.0 % bin/kafka-console-consumer.sh --bootstr
ap-server localhost:9092 --topic T1
aaaaa
45fdfg
█

kafka_2.13-2.8.0 — java -Xmx512M -server -XX:+UseG1GC -XX:MaxGCPauseMilli...
...orms-2.8.0.jar:/Users/chri kafka.tools.ConsoleProducer --broker-list localhost:9092 --topic T1
christian@MacBook-Pro kafka_2.13-2.8.0 % bin/kafka-console-producer.sh --broker-
list localhost:9092 --topic T1
>aaaaa
>45fdfg
>█
```



Fin d'installation

- Maintenant on va aller vers une application pour mettre en place la gestion de message asynchrone avec Kafka