

# Kafka. Practical Distributed Messaging Lab

December 28, 2024

## 1 Ejercicios con Kafka

Este laboratorio usara las tecnologías descritas en los materiales del curso sobre Kafka. Haremos ejercicios para la creación de topics, productores y consumidores.

### 1.1 Durante esta PEC vamos a cubrir:

- *Ejercicio 1:* Creación de un topic
- *Ejercicio 2:* Hola mundo en Kafka: creación de un productor que escriba en el topic previamente creado y de un consumidor que escriba y muestre los mensajes
- *Ejercicio 3:* Primeros pasos con las particiones. Crearemos un productor que envíe los números pares a una partición y los impares a otra y después los mostraremos con un consumidor.
- *Ejercicio 4:* Entendiendo los offsets

Como referencia a todos los detalles de los métodos que se usan en esta práctica se puede consultar, además de la documentación de la asignatura, la documentación oficial de kafka: \* [Kafka Documentation](#)

### 1.2 Ejercicio 1: Creación de un topic de Kafka

Para empezar, vamos a crear un topic, que será el que utilizaremos en los siguientes ejercicios. El topic tiene que tener las siguientes características.

- Nombre: El usuario de la UOC del alumno seguido de la palabra Topic (por ejemplo: garguelloTopic)
- El topic debe tener una sola partición.
- El factor de replicación tiene que ser 1

```
[1]: !kafka-topics --create --zookeeper localhost:2181/kafka --topic paulgiliTopic
↪--partitions 1 --replication-factor 1
```

```
24/12/28 12:41:18 INFO utils.Log4jControllerRegistration$: Registered
kafka:type=kafka.Log4jController MBean
24/12/28 12:41:18 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Initializing
a new session to localhost:2181/kafka.
24/12/28 12:41:18 INFO zookeeper.ZooKeeper: Client
```

```

environment:zookeeper.version=3.4.5-cdh6.2.0--1, built on 03/14/2019 06:11 GMT
24/12/28 12:41:18 INFO zookeeper.ZooKeeper: Client
environment:host.name=Cloudera01
24/12/28 12:41:18 INFO zookeeper.ZooKeeper: Client
environment:java.version=1.8.0_181
24/12/28 12:41:18 INFO zookeeper.ZooKeeper: Client
environment:java.vendor=Oracle Corporation
24/12/28 12:41:18 INFO zookeeper.ZooKeeper: Client
environment:java.home=/usr/lib/jvm/java-8-oracle-cloudera/jre
24/12/28 12:41:18 INFO zookeeper.ZooKeeper: Client environment:java.class.path=/
opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs
/activation-1.1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./
./lib/kafka/bin/./libs/aopalliance-repackaged-2.5.0-b42.jar:/opt/cloudera/parce
ls/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/argparse4j-0.7.0.
jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./
./libs/audience-annotations-0.5.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.
p0.967373/bin/./lib/kafka/bin/./libs/commons-lang3-3.5.jar:/opt/cloudera/parce
ls/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-api-2.1.0
-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/ka
fka/bin/./libs/connect-basic-auth-extension-2.1.0-cdh6.2.0.jar:/opt/cloudera/pa
rcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-file-2
.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./li
b/kafka/bin/./libs/connect-json-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.
2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-runtime-2.1.0-cdh6
.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/b
in/./libs/connect-transforms-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0
-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/guava-20.0.jar:/opt/cloudera/
parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/hk2-api-2.5.
0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/
bin/./libs/hk2-locator-2.5.0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0
.p0.967373/bin/./lib/kafka/bin/./libs/hk2-utils-2.5.0-b42.jar:/opt/cloudera/pa
rcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-annota
tions-2.9.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/
kafka/bin/./libs/jackson-annotations-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-
1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-core-2.9.8.jar:/opt/cl
oudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jacks
on-databind-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/.
./lib/kafka/bin/./libs/jackson-jaxrs-base-2.9.8.jar:/opt/cloudera/parcels/CDH-6
.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-jaxrs-json-provid
er-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kaf
ka/bin/./libs/jackson-module-jaxb-annotations-2.9.8.jar:/opt/cloudera/parcels/C
DH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javassist-3.22.0-CR2.
jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./
./libs/javax.annotation-api-1.2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0
.967373/bin/./lib/kafka/bin/./libs/javax.inject-1.jar:/opt/cloudera/parcels/CD
H-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javax.inject-2.5.0-b42
.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/.
./libs/javax.servlet-api-3.1.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0

```

.967373/bin/./lib/kafka/bin/./libs/javax.ws.rs-api-2.1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javax.ws.rs-api-2.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jaxb-api-2.3.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-client-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-common-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-container-servlet-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-container-servlet-core-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-hk2-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-media-jaxb-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-server-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-client-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-continuation-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-http-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-io-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-security-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-server-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-servlet-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-servlets-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-util-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jopt-simple-5.0.4.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka\_2.11-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka\_2.11-2.1.0-cdh6.2.0-sources.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-clients-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-log4j-appender-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-streams-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-streams-examples-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-streams-scala\_2.11-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-streams-test-utils-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-tools-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/log4j-1.2.17.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/lz4-java-1.5.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/maven-artifact-3.5.4.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/metrics-core-2.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/metrics-servlet-2.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib

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pt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/ivy-2.4.0.jar:  
/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/twill-api-0.  
6.0-incubating.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sent  
ry/lib/sentry-core-model-kafka-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.  
0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-core-model-solr.jar:/opt/cloudera/p  
arcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/findbugs-annotations-1.3.9-  
1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jetty-  
servlet-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.96737  
3/lib/sentry/lib/sentry-core-model-solr-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels  
/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hamcrest-core-1.1.jar:/opt/cloude  
ra/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-pool2-2.4.2.jar  
:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/libthrift-0  
.9.3-1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/s  
hiro-core-1.4.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sen  
try/lib/json-smart-2.3.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/  
lib/sentry/lib/twill-discovery-core-0.6.0-incubating.jar:/opt/cloudera/parcels/C  
DH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-net-3.1.jar:/opt/cloudera/p  
arcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/twill-core-0.6.0-incubating  
.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/joni-2.  
1.11.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hiv  
e-llap-client.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentr

y/lib/hbase-protocol.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hadoop-mapreduce-client-common.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hive-exec.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/org.restlet.ext.servlet-2.3.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-spi-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hive-cli.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hadoop-yarn-api.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/avatica-core-1.10.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-lang-2.6.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-binding-hive-conf-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/solr-sentry-handlers-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/woodstox-core-5.0.3.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/curator-framework-2.11.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-service-server.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-binding-hive-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-configuration2-2.1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-service-providers-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-service-web-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hive-shims-scheduler.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/shiro-crypto-hash-1.4.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/validation-api-1.1.0.Final.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-binding-hive-common-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jackson-jaxrs-base-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jetty-runner-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-core-model-kafka.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-logging-1.2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/xz-1.6.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/noggit-0.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jersey-guice-1.19.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/spatial4j-0.7.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hbase-client.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/taglibs-standard-impl-1.2.5.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hppc-0.8.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/aopalliance-1.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-codec-1.11.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hbase-hadoop-compat.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/lucene-analyzers-common.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hive-service-rpc.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jetty-jndi-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-shaded-miscellaneous.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jetty-server-9.3.25.v20180904.jar

```

r:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hadoop-
yarn-common.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/
lib/ant-1.9.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentr
y/lib/hive-shims-common.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373
/lib/sentry/lib/janino-2.7.6.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.9
67373/lib/sentry/lib/javaws.rs-api-2.0.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1
.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-provider-db.jar:/opt/cloudera/parcels/
CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hk2-utils-2.5.0-b32.jar:/opt/cloud
era/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/activation-1.1.jar:/op
t/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/joda-time-2.9.9
.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons
-el-1.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/
guava-14.0.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry
/lib/gmetric4j-1.0.7.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/li
b/sentry/lib/sentry-tools.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.9673
73/lib/sentry/lib/httpcore-4.4.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.
p0.967373/lib/sentry/lib/commons-collections-3.2.2.jar:/opt/cloudera/parcels/CDH
-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-lang3-3.7.jar:/opt/cloudera/p
arcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/lucene-codecs.jar:/opt/clou
dera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/apache-jstl-9.3.25.v2
0180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/
jetty-http-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.96
7373/lib/sentry/lib/jetty-rewrite-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH
-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-binding-solr.jar:/opt/cloudera
/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/javas.el-3.0.1-b11.jar:/o
pt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/shiro-event-1.
4.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jcom
mander-1.30.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/
lib/sentry-hdfs-dist-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2
.0.p0.967373/lib/sentry/lib/cafeine-2.4.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1
.cdh6.2.0.p0.967373/lib/sentry/lib/hadoop-annotations.jar:/opt/cloudera/parcels/
CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/calcite-core-1.13.0.jar:/opt/cloud
era/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jetty-xml-9.3.25.v2018
0904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/gui
ce-assistedinject-3.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/l
ib/sentry/lib/stax-api-1.0.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.9
67373/lib/sentry/lib/jackson-jaxrs-1.9.13.jar:/opt/cloudera/parcels/CDH-6.2.0-1.
cdh6.2.0.p0.967373/lib/sentry/lib/junit-4.10.jar:/opt/cloudera/parcels/CDH-6.2.0
-1.cdh6.2.0.p0.967373/lib/sentry/lib/hadoop-common.jar:/opt/cloudera/parcels/CDH
-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/kerb-util-1.0.0.jar:/opt/cloudera/par
cels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/plugins/sentry-hdfs-2.1.0-cdh
6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/pl
ugins/curator-x-discovery-2.11.1.jar:/etc/kafka/conf/sentry-conf
24/12/28 12:41:18 INFO zookeeper.ZooKeeper: Client environment:java.library.path
=/usr/java/packages/lib/amd64:/usr/lib64:/lib64:/lib:/usr/lib
24/12/28 12:41:18 INFO zookeeper.ZooKeeper: Client
environment:java.io.tmpdir=/tmp
24/12/28 12:41:18 INFO zookeeper.ZooKeeper: Client

```

```

environment:java.compiler=<NA>
24/12/28 12:41:18 INFO zookeeper.ZooKeeper: Client environment:os.name=Linux
24/12/28 12:41:18 INFO zookeeper.ZooKeeper: Client environment:os.arch=amd64
24/12/28 12:41:18 INFO zookeeper.ZooKeeper: Client
environment:os.version=4.4.0-210-generic
24/12/28 12:41:18 INFO zookeeper.ZooKeeper: Client
environment:user.name=paulagili
24/12/28 12:41:18 INFO zookeeper.ZooKeeper: Client
environment:user.home=/home/paulagili
24/12/28 12:41:18 INFO zookeeper.ZooKeeper: Client
environment:user.dir=/home/paulagili/batch/Actividad2
24/12/28 12:41:18 INFO zookeeper.ZooKeeper: Initiating client connection,
connectString=localhost:2181/kafka sessionTimeout=30000
watcher=kafka.zookeeper.ZooKeeperClient$ZooKeeperClientWatcher$@29647f75
24/12/28 12:41:18 INFO zookeeper.ClientCnxn: Opening socket connection to server
localhost/0:0:0:0:0:0:1:2181. Will not attempt to authenticate using SASL
(unknown error)
24/12/28 12:41:18 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Waiting
until connected.
24/12/28 12:41:18 WARN zookeeper.ClientCnxn: Session 0x0 for server null,
unexpected error, closing socket connection and attempting reconnect
java.net.ConnectException: S'ha refusat la connexió
    at sun.nio.ch.SocketChannelImpl.checkConnect(Native Method)
    at
sun.nio.ch.SocketChannelImpl.finishConnect(SocketChannelImpl.java:717)
    at org.apache.zookeeper.ClientCnxnSocketNIO.doTransport(ClientCnxnSocket
NIO.java:350)
    at org.apache.zookeeper.ClientCnxn$SendThread.run(ClientCnxn.java:1118)
24/12/28 12:41:18 INFO zookeeper.ClientCnxn: Opening socket connection to server
localhost/127.0.0.1:2181. Will not attempt to authenticate using SASL (unknown
error)
24/12/28 12:41:18 INFO zookeeper.ClientCnxn: Socket connection established,
initiating session, client: /127.0.0.1:50774, server: localhost/127.0.0.1:2181
24/12/28 12:41:18 INFO zookeeper.ClientCnxn: Session establishment complete on
server localhost/127.0.0.1:2181, sessionId = 0xff936f6f947108e9, negotiated
timeout = 30000
24/12/28 12:41:18 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Connected.
Error while executing topic command : Topic 'paulgiliTopic' already exists.
24/12/28 12:41:19 ERROR admin.TopicCommand$:
org.apache.kafka.common.errors.TopicExistsException: Topic 'paulgiliTopic'
already exists.

24/12/28 12:41:19 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Closing.
24/12/28 12:41:19 INFO zookeeper.ZooKeeper: Session: 0xff936f6f947108e9 closed
24/12/28 12:41:19 INFO zookeeper.ClientCnxn: EventThread shut down
24/12/28 12:41:19 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Closed.

```

Al ejecutar el comando, al final del log, debemos ver que se ha creado el topic, pero vamos a

comprobarlo:

```
[2]: !kafka-topics --list --zookeeper localhost:2181/kafka
```

```
24/12/28 12:41:22 INFO utils.Log4jControllerRegistration$: Registered
kafka:type=kafka.Log4jController MBean
24/12/28 12:41:22 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Initializing
a new session to localhost:2181/kafka.
24/12/28 12:41:22 INFO zookeeper.ZooKeeper: Client
environment:zookeeper.version=3.4.5-cdh6.2.0--1, built on 03/14/2019 06:11 GMT
24/12/28 12:41:22 INFO zookeeper.ZooKeeper: Client
environment:host.name=Cloudera01
24/12/28 12:41:22 INFO zookeeper.ZooKeeper: Client
environment:java.version=1.8.0_181
24/12/28 12:41:22 INFO zookeeper.ZooKeeper: Client
environment:java.vendor=Oracle Corporation
24/12/28 12:41:22 INFO zookeeper.ZooKeeper: Client
environment:java.home=/usr/lib/jvm/java-8-oracle-cloudera/jre
24/12/28 12:41:22 INFO zookeeper.ZooKeeper: Client environment:java.class.path=/
opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs
/activation-1.1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/.
./lib/kafka/bin/./libs/aopalliance-repackaged-2.5.0-b42.jar:/opt/cloudera/parce
ls/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/argparse4j-0.7.0.
jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./
libs/audience-annotations-0.5.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.
p0.967373/bin/./lib/kafka/bin/./libs/commons-lang3-3.5.jar:/opt/cloudera/parce
ls/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-api-2.1.0
-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/ka
fka/bin/./libs/connect-basic-auth-extension-2.1.0-cdh6.2.0.jar:/opt/cloudera/pa
rcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-file-2
.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./li
b/kafka/bin/./libs/connect-json-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.
2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-runtime-2.1.0-cdh6
.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/b
in/./libs/connect-transforms-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0
-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/guava-20.0.jar:/opt/cloudera/
parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/hk2-api-2.5.
0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/
bin/./libs/hk2-locator-2.5.0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0
.p0.967373/bin/./lib/kafka/bin/./libs/hk2-utils-2.5.0-b42.jar:/opt/cloudera/pa
rcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-annota
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 ls/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jersey-server-2.25.1.jar:/opt/c  
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-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/kerb-util-1.0.0.jar:/opt/cloudera/par
cels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/plugins/sentry-hdfs-2.1.0-cdh
6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/pl
ugins/curator-x-discovery-2.11.1.jar:/etc/kafka/conf/sentry-conf
24/12/28 12:41:22 INFO zookeeper.ZooKeeper: Client environment:java.library.path
=/usr/java/packages/lib/amd64:/usr/lib64:/lib64:/lib:/usr/lib
24/12/28 12:41:22 INFO zookeeper.ZooKeeper: Client
environment:java.io.tmpdir=/tmp
24/12/28 12:41:22 INFO zookeeper.ZooKeeper: Client
environment:java.compiler=<NA>
24/12/28 12:41:22 INFO zookeeper.ZooKeeper: Client environment:os.name=Linux
24/12/28 12:41:22 INFO zookeeper.ZooKeeper: Client environment:os.arch=amd64
24/12/28 12:41:22 INFO zookeeper.ZooKeeper: Client
environment:os.version=4.4.0-210-generic
24/12/28 12:41:22 INFO zookeeper.ZooKeeper: Client
environment:user.name=paulagili
24/12/28 12:41:22 INFO zookeeper.ZooKeeper: Client
environment:user.home=/home/paulagili
24/12/28 12:41:22 INFO zookeeper.ZooKeeper: Client
environment:user.dir=/home/paulagili/batch/Actividad2
24/12/28 12:41:22 INFO zookeeper.ZooKeeper: Initiating client connection,
connectString=localhost:2181/kafka sessionTimeout=30000
watcher=kafka.zookeeper.ZooKeeperClient$ZooKeeperClientWatcher$@13b13b5d
24/12/28 12:41:22 INFO zookeeper.ClientCnxn: Opening socket connection to server
localhost/0:0:0:0:0:0:1:2181. Will not attempt to authenticate using SASL
(unknown error)
24/12/28 12:41:22 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Waiting
until connected.
24/12/28 12:41:22 WARN zookeeper.ClientCnxn: Session 0x0 for server null,
unexpected error, closing socket connection and attempting reconnect
java.net.ConnectException: S'ha refusat la connexió
    at sun.nio.ch.SocketChannelImpl.checkConnect(Native Method)
    at
sun.nio.ch.SocketChannelImpl.finishConnect(SocketChannelImpl.java:717)
    at org.apache.zookeeper.ClientCnxnSocketNIO.doTransport(ClientCnxnSocket
NIO.java:350)
    at org.apache.zookeeper.ClientCnxn$SendThread.run(ClientCnxn.java:1118)
24/12/28 12:41:23 INFO zookeeper.ClientCnxn: Opening socket connection to server
localhost/127.0.0.1:2181. Will not attempt to authenticate using SASL (unknown
error)
24/12/28 12:41:23 INFO zookeeper.ClientCnxn: Socket connection established,
initiating session, client: /127.0.0.1:50832, server: localhost/127.0.0.1:2181
24/12/28 12:41:23 INFO zookeeper.ClientCnxn: Session establishment complete on
server localhost/127.0.0.1:2181, sessionId = 0xff936f6f947108ea, negotiated
timeout = 30000
24/12/28 12:41:23 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Connected.
--topic
-0.32869783814463815

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AIS\_ASOLE  
PEC5\_2\_danielolivadenis  
PEC5\_aropero  
PEC5aropero  
PEC5garguello  
PEC5sgraul  
TopicTest  
\_\_consumer\_offsets  
aacha0Topic  
aalvarez  
aalvarezTopic  
aarador  
aaradorTopic  
abejargTopic  
abelmoraTopic  
abuendiaTopic  
acaborneroPEC5  
acaborneroTopic  
acaravacaaTopic  
acastellanosmuTopic  
acoila  
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ademirTopic  
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aesteso\_topic  
aganeaf1Topic  
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agmalagaTopic  
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aiborradoTopic  
ais\_topic  
alamaTopic  
alarranagaiTopic  
albertocaliTopic  
alexbncn1Topic  
alexdaudeTopic  
allinasmTopic  
alllinasmTopic  
alopez-mujeriegoTopic  
amartinezsequTopic  
amartingarcia4Topic  
amoralat  
amoralat1  
amunozmoli  
amunozmoliTopic  
amutpTopic  
ancortesTopic  
apenadeTopic

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apenafielroTopic  
aperezc  
aperezcTopic  
apolomoTopic  
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ariagumaTopic  
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arodriguezjusTopic  
aroperoTopic  
aserrando  
aserrando2  
askobelevTopic  
ateiraTopic  
avalbalTopic  
avargasrosTopic  
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awojtowiczTopic  
awojtowiczTopic2  
ayakovlev1Topic  
briandayaTopic  
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ccarbonellgTopic  
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cesarsanchezfTopic  
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cfernandezrosaTopic2  
cgalvemTopic  
ckTopic  
cmaestrevTopic  
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covejasTopic  
cpuertasbaTopic  
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ctornermTopic  
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donoroTopic  
dperezcalaTopic  
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dtraperoTopic  
dtrigonTopic  
dtrigonTopic2  
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dzamoranozTopic  
ehidalgorTopic  
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elefercamTopic  
elenafercam  
elongobucoTopic  
emadariagalTopic  
emorcillorTopic  
emorcillorTopic2  
erochoTopic  
esantospeTopic  
esantospeTopic1  
evidalgo  
evidalgoTopic  
fabiangfTopic  
fcorominolaTopic  
fcorominolaTopic2  
fcorominolaTopic\_ex  
flight\_data  
flight\_data\_2\_1  
fmorenolTopic  
garguelloTopic  
gborrTopic  
ggarciadmTopic  
ggironesrovTopic  
gmartinezsalvaTopic  
gmartinezsalvaTopic2  
gonzsancTopic  
gonzsancTopic2  
gparadaTopic  
gparadaTopic69  
gparadaTopicProva  
gserveraTopic  
gtorrentabTopic  
guillemgimenezTopicPAC4  
guillemgimenezTopicPAC4Processed  
guillemlcTopic  
iagobgTopic  
iantongTopic  
imaciasmTopic  
ipenalverbTopic  
jaldaTopic

jalonsofernandeTopic  
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jcejudofTopic  
jchiqueroovTopic  
jelorduymTopic  
jfranceschmTopic  
jgomeztorrTopic  
jhernandezperez3Topic  
jivorragomezTopic  
jlpenaTopic  
jlvadellTopic  
jmallentTopic  
jobolivargazquezTopic  
joelbnvTopic  
jorengaTopic  
jorengap  
jorengapTopic  
jpunte01Topic  
jsanchezfernandez1  
jsanchezfernandez1Topic  
jsanchezfernandez1Topic2  
jtorrenthTopic  
jurmenetasTopic  
jvallista  
jvallistaTopic  
jvelarcTopic  
kdelrioiglesiasTopic  
kmaganTopic  
kparracTopic  
laeticia2santosTopic  
lantonioTopic  
lbernardezcTopic  
llbramonTopic  
maltableTopic  
malvarezgonzalez4Topic  
manumerTopic  
marcms  
marcmsTopic  
mariog25Topic  
mariogarritotapiasTopic  
mazalba  
mazalbaTopic  
mcanutrocaTopic  
mcanutrocaTopics  
mcuevasgaTopic  
mdeixtTopic  
mdellamonicaTopic  
mdellamonicaTopics

mdiazhuTopic  
mesturricaTopic  
mfreixaslo  
mfreixasloTema  
mfreixasloTopic  
mgilmuTopic  
mgomezricoTopic  
mgonzalezsenTopic  
mgonzalezsenTopicTest  
miTopic  
mikiliTopic  
mirleilazTopic  
miusuarioTopic  
mlopezpratsTopic  
mmasusshmunkTopic  
mmatbelTopic  
mpinorTopic  
mredondokTopic  
mrussorbTopic  
msaenzdepipaonTopic  
msalguerocaTopic  
my\_topic  
ncorbera0Topic  
ndominguezalvTopic  
nfelixTopic  
nnunezruTopic  
nombre\_del\_topic  
nombre\_del\_topico  
nrodriguezrui  
nrodriguezruiTopic  
ogarciadelacruzTopic  
olilucabeTopic  
omolina0Topic  
oscar\_hidalgoTopic  
palloviTopic  
pamurgoTopic  
paula-alvarezTopic  
paulagiliTopic  
paulgiliTopic  
pballestero1978  
pballestero1978Topic  
pballiurTopic  
pballiurTopic2  
pborisTopic  
perisperisTopic  
pjane0Topic  
plopezbarTopic  
pvergarap

pvergarapTopic  
rcastillomezTopic  
rdeaguiarTopic  
rgimenezsilTopic  
richardTopic  
rjmedieroTopic  
rlozanodiaz8Topic  
rlozanodiazTopic  
rmoralmartinTopic  
rpereirafiTopic  
rperezdelg  
rperezdelgTopic  
rperezmartinez01Topic  
rraigadagTopic  
sbenitovTopic  
scarriquiryTopic  
sdugoTopic  
sergibusquetsTopic  
sfernandezce  
sgraul  
sjuanmonTopic  
slechaltopic  
slope76Topic  
snaranjoTopic  
srocamoraaTopic  
sturrionTopic  
svilagrastaTopic  
svilagrastaTopic2  
tbaidaltopic  
test  
test1  
test2  
testTopic  
tomastmTopic  
topic1  
topic\_name  
topic\_normal  
trodrigueztaTopic  
tu\_nombre\_de\_topic  
uocDemoTopic  
usernameTopic  
usuarioUOCTopic  
usuario\_UOC  
vbertomeustTopic  
vbertomeustOPIC  
victorgpallaresTopic  
victorgpallaresTopic2  
vuelos

```

xcastanoaTopic
xvillarongaTopic
ygrydnevTopic
your_topic_name
yvasquezc
yvasquezcTopic
24/12/28 12:41:23 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Closing.
24/12/28 12:41:23 INFO zookeeper.ZooKeeper: Session: 0xff936f6f947108ea closed
24/12/28 12:41:23 INFO zookeeper.ClientCnxn: EventThread shut down
24/12/28 12:41:23 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Closed.

```

### 1.3 Ejercicio 2: Hola mundo en Kafka.

En este ejercicio vamos a crear un productor que envíe al topic generado previamente un array generado a partir de valores aleatorios de una distribución normal con media 0 y varianza 1.

Posteriormente crearemos un consumidor que lea el topic y haremos un histograma en el que el que pintaremos los valores recibidos.

```

[3]: from kafka import KafkaProducer
import numpy as np

#Definimos el productor
producer = KafkaProducer(bootstrap_servers='Cloudera02:9092')

#Definimos un array con valores aleatorios de una distribución normal 0,1. Mirad
→ la función np.random.normal / #(media = 0 y desviacion estandar = 1)
x = np.random.normal(0,1,1000)

#generamos un bucle que envíe los elementos de array anterior uno a uno a
→ nuestro topic
for i in range (1, 1000):
    producer.send('paulagiliTopic', (x[i]).tobytes())

producer.flush()
producer.close()

```

Debemos crear un consumidor que lea el valor del mensaje que hemos producido anteriormente y lo pinte en una gráfica, pintaremos un histograma de los datos de la distribución normal que hemos generado. El consumidor, si no lo controlamos, se queda escuchando "para siempre" a la espera de nuevos mensajes, para que esto no suceda utilizamos el parámetro `consumer_timeout_ms`

```

[4]: %matplotlib inline
from kafka import KafkaConsumer

```



```

import time
import matplotlib.pyplot as plt
import numpy as np

# Creamos la figura para después pintar el scatter plot
fig, ax1 = plt.subplots(figsize=(20,10))

# Definimos una lista vacía en la que luego almacenaremos los valores
data = []

# Definimos el consumidor
consumer = KafkaConsumer(
    'paulagiliTopic',
    bootstrap_servers='Cloudera02:9092',
    auto_offset_reset='smallest',
    consumer_timeout_ms=10000
)

# Consumimos los mensajes y los almacenamos en una lista
for message in consumer:
    # Asegurémonos de que el tamaño del buffer sea el esperado
    message_size = len(message.value)
    if message_size % np.dtype('float64').itemsize == 0:
        value = np.frombuffer(message.value, dtype='float64')[0]
        data.append(value)
    else:
        # Cambié el f-string por .format()
        print("Mensaje de tamaño {} bytes, no es múltiplo del tamaño de float64.
↪".format(message_size))

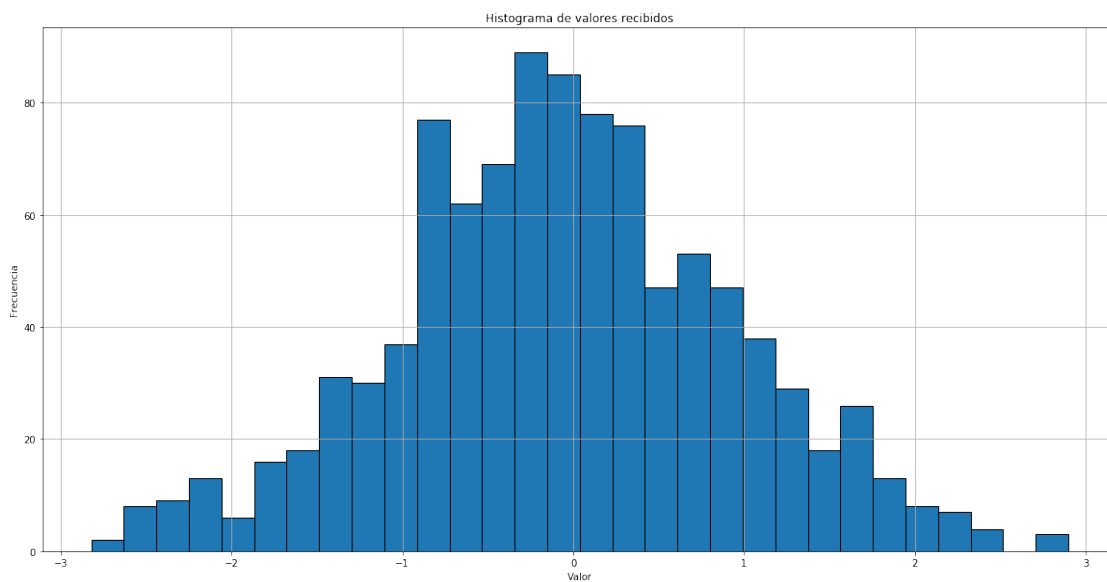
consumer.close()

# Pintamos el histograma
if data:
    ax1.hist(data, bins=30, edgecolor='black')
    ax1.set_title('Histograma de valores recibidos')
    ax1.set_xlabel('Valor')
    ax1.set_ylabel('Frecuencia')
    plt.grid(True)
    plt.show()
else:
    print("No se recibieron datos.")

```

Mensaje de tamaño 1 bytes, no es múltiplo del tamaño de float64.  
Mensaje de tamaño 1 bytes, no es múltiplo del tamaño de float64.  
Mensaje de tamaño 1 bytes, no es múltiplo del tamaño de float64.  
Mensaje de tamaño 1 bytes, no es múltiplo del tamaño de float64.



[illegible]

## 1.4 Ejercicio 3: Aprendiendo a usar particiones

En este ejercicio vamos a trabajar con las particiones de un topic. La primera parte del ejercicio son dos preguntas teóricas sobre las particiones

¿Cuál es la diferencia entre partición y factor de replicación?

-- Partición hace referencia a las veces que los datos del topic se dividen en gragmentos independientes entre ellos. Permite que los consumidores puedan leer en paralelo. En cambio, el factor de replicación hace referencia al numero e copias que se van a hacer del topic. Cuantas más réplicas, mayor es la seguridad y la tolerancia a fallos.--

¿Cuál es el principal objetivo del particionamiento de los topics?

-- El principal objetivo del particionamiento de los topics en Apache Kafka es (1)mejorar la escalabilidad, (2)el rendimiento y (3) la paralelización del procesamiento de datos. --

En este ejercicio vamos a necesitar un topic particionado, si recordáis en el primer ejercicio creamos un topic con una unica partición, por lo que ahora vamos a crear un topic que tener las siguientes características.

- Nombre: El usuario de la UOC del alumno seguido de la palabra Topic (por ejemplo: garguelloTopic). Antes tendréis que borrarlo, ya que lo hemos creado en los ejercicios anteriores con otra configuración
- El topic debe tener 2 particiones
- El factor de replicación tiene que ser 1

```
[5]: #Borramos el topic creado en el ejercicio 1
!kafka-topics --zookeeper localhost:2181/kafka --delete --topic paulagiliTopic
```

```
24/12/28 12:41:36 INFO utils.Log4jControllerRegistration$: Registered
kafka:type=kafka.Log4jController MBean
24/12/28 12:41:36 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Initializing
a new session to localhost:2181/kafka.
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Client
environment:zookeeper.version=3.4.5-cdh6.2.0--1, built on 03/14/2019 06:11 GMT
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Client
environment:host.name=Cloudera01
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Client
environment:java.version=1.8.0_181
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Client
environment:java.vendor=Oracle Corporation
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Client
environment:java.home=/usr/lib/jvm/java-8-oracle-cloudera/jre
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Client environment:java.class.path=/
opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs
/activation-1.1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/.
./lib/kafka/bin/./libs/aopalliance-repackaged-2.5.0-b42.jar:/opt/cloudera/parce
ls/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/argparse4j-0.7.0.
jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/..
```

/libs/audience-annotations-0.5.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/commons-lang3-3.5.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/connect-api-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/connect-basic-auth-extension-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/connect-file-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/connect-json-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/connect-runtime-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/connect-transforms-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/guava-20.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/hk2-api-2.5.0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/hk2-locator-2.5.0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/hk2-utils-2.5.0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jackson-annotations-2.9.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jackson-annotations-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jackson-core-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jackson-databind-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jackson-jaxrs-base-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jackson-jaxrs-json-provider-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jackson-module-jaxb-annotations-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/javassist-3.22.0-CR2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/javax.annotation-api-1.2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/javax.inject-1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/javax.inject-2.5.0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/javax.servlet-api-3.1.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/javax.ws.rs-api-2.1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/javax.ws.rs-api-2.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jaxb-api-2.3.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jersey-client-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jersey-common-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jersey-container-servlet-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jersey-container-servlet-core-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jersey-hk2-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jersey-media-jaxb-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jersey-server-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jetty-client-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373

3/bin/./lib/kafka/bin/./libs/jetty-continuation-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-http-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-io-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-security-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-server-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-servlet-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-servlets-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-util-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jopt-simple-5.0.4.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka\_2.11-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka\_2.11-2.1.0-cdh6.2.0-sources.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-clients-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-log4j-appender-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-streams-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-streams-examples-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-streams-scala\_2.11-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-streams-test-utils-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-tools-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/log4j-1.2.17.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/lz4-java-1.5.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/maven-artifact-3.5.4.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/metrics-core-2.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/metrics-servlet-2.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/osgi-resource-locator-1.0.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/plexus-utils-3.1.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/reflections-0.9.11.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/rocksdbjni-5.14.2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/scala-library-2.11.12.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/scala-logging\_2.11-3.9.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/scala-reflect-2.11.12.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/slf4j-api-1.7.25.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/slf4j-log4j12-1.7.25.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/snappy-java-1.1.7.2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/validation-api-1.1.0.Final.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./li

bs/zkclient-0.10.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/..  
/lib/kafka/bin/../../libs/zookeeper-3.4.5-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.  
2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/zstd-jni-1.3.5-4.jar:/opt/  
cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jackson-module-  
jaxb-annotations-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/  
lib/sentry/lib/aopalliance-repackaged-2.5.0-b32.jar:/opt/cloudera/parcels/CDH-6.  
2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-service-api.jar:/opt/cloudera/par  
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 .0.p0.967373/lib/sentry/lib/antlr-runtime-3.5.2.jar:/opt/cloudera/parcels/CDH-6.  
 2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hadoop-hdfs.jar:/opt/cloudera/parcels/CD  
 H-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-provider-cache.jar:/opt/cloud  
 era/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-beanutils-1.9.  
 3.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/kerb-s  
 erver-1.0.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/  
 lib/hk2-locator-2.5.0-b32.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.9673  
 73/lib/sentry/lib/jsp-api-2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.  
 967373/lib/sentry/lib/sentry-shaded-miscellaneous-2.1.0-cdh6.2.0.jar:/opt/cloude  
 ra/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/websocket-api-9.3.25.v2  
 0180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/  
 dom4j-1.6.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/  
 lib/paranamer-2.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/s  
 entry/lib/jetty-util-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6  
 .2.0.p0.967373/lib/sentry/lib/lucene-classification.jar:/opt/cloudera/parcels/CD  
 H-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-core-model-indexer-2.1.0-cdh6  
 .2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/gui  
 ce-4.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/a  
 vro.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/leve  
 ldbjni-all-1.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sent

ry/lib/jsp-api-2.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/org.restlet-2.3.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hbase-zookeeper.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-tools-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jersey-server-2.25.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hive-serde.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-provider-file-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/javax.servlet.jsp-2.3.2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/lucene-backward-codecs.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/libfb303-0.9.3.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hive-metastore.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/ivy-2.4.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/twill-api-0.6.0-incubating.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-core-model-kafka-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-core-model-solr.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/findbugs-annotations-1.3.9-1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jetty-servlet-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-core-model-solr-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hamcrest-core-1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-pool2-2.4.2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/libthrift-0.9.3-1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-core-1.4.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/json-smart-2.3.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/twill-discovery-core-0.6.0-incubating.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-net-3.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/twill-core-0.6.0-incubating.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/joni-2.1.11.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hive-llap-client.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hbase-protocol.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hadoop-mapreduce-client-common.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hive-exec.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/org.restlet.ext.servlet-2.3.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-spi-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hive-cli.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hadoop-yarn-api.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/avatica-core-1.10.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-lang-2.6.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-binding-hive-conf-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/solr-sentry-handlers-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/woodstox-core-5.0.3.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib curator-framework-2.11.1.jar:/opt/cloudera/parcels/CDH-6.2.0

-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-service-server.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-binding-hive-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-configuration2-2.1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-service-providers-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-service-web-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hive-shims-scheduler.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/shiro-crypto-hash-1.4.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/validation-api-1.1.0.Final.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-binding-hive-common-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jackson-jaxrs-base-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jetty-runner-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-core-model-kafka.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-logging-1.2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/xz-1.6.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/noggit-0.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jersey-guice-1.19.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/spatial4j-0.7.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hbase-client.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/taglibs-standard-impl-1.2.5.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hppc-0.8.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/aopalliance-1.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-codec-1.11.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hbase-hadoop-compat.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/lucene-analyzers-common.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hive-service-rpc.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jetty-jndi-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-shaded-miscellaneous.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jetty-server-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hadoop-yarn-common.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/ant-1.9.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hive-shims-common.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/janino-2.7.6.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/javaws-api-2.0.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-provider-db.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hk2-utils-2.5.0-b32.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/activation-1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/joda-time-2.9.9.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-el-1.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/guava-14.0.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/gmetric4j-1.0.7.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-tools.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.9673

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73/lib/sentry/lib/httpcore-4.4.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.
p0.967373/lib/sentry/lib/commons-collections-3.2.2.jar:/opt/cloudera/parcels/CDH
-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-lang3-3.7.jar:/opt/cloudera/p
arcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/lucene-codecs.jar:/opt/clou
dera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/apache-jstl-9.3.25.v2
0180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/
jetty-http-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.96
7373/lib/sentry/lib/jetty-rewrite-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH
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/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/javax.el-3.0.1-b11.jar:/o
pt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/shiro-event-1.
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mander-1.30.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/
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.0.p0.967373/lib/sentry/lib/caffeine-2.4.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1
.cdh6.2.0.p0.967373/lib/sentry/lib/hadoop-annotations.jar:/opt/cloudera/parcels/
CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/calcite-core-1.13.0.jar:/opt/cloud
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ce-assistedinject-3.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/l
ib/sentry/lib/stax-api-1.0.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.9
67373/lib/sentry/lib/jackson-jaxrs-1.9.13.jar:/opt/cloudera/parcels/CDH-6.2.0-1.
cdh6.2.0.p0.967373/lib/sentry/lib/junit-4.10.jar:/opt/cloudera/parcels/CDH-6.2.0
-1.cdh6.2.0.p0.967373/lib/sentry/lib/hadoop-common.jar:/opt/cloudera/parcels/CDH
-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/kerb-util-1.0.0.jar:/opt/cloudera/par
cels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/plugins/sentry-hdfs-2.1.0-cdh
6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/pl
ugins/curator-x-discovery-2.11.1.jar:/etc/kafka/conf/sentry-conf
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Client environment:java.library.path
=/usr/java/packages/lib/amd64:/usr/lib64:/lib64:/lib:/usr/lib
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Client
environment:java.io.tmpdir=/tmp
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Client
environment:java.compiler=<NA>
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Client environment:os.name=Linux
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Client environment:os.arch=amd64
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Client
environment:os.version=4.4.0-210-generic
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Client
environment:user.name=paulagili
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Client
environment:user.home=/home/paulagili
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Client
environment:user.dir=/home/paulagili/batch/Actividad2
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Initiating client connection,
connectString=localhost:2181/kafka sessionTimeout=30000
watcher=kafka.zookeeper.ZooKeeperClient$ZooKeeperClientWatcher$@2892dae4
24/12/28 12:41:36 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Waiting

```

```

until connected.
24/12/28 12:41:36 INFO zookeeper.ClientCnxn: Opening socket connection to server
localhost/0:0:0:0:0:0:1:2181. Will not attempt to authenticate using SASL
(unknown error)
24/12/28 12:41:36 WARN zookeeper.ClientCnxn: Session 0x0 for server null,
unexpected error, closing socket connection and attempting reconnect
java.net.ConnectException: S'ha refusat la connexió
    at sun.nio.ch.SocketChannelImpl.checkConnect(Native Method)
    at
sun.nio.ch.SocketChannelImpl.finishConnect(SocketChannelImpl.java:717)
    at org.apache.zookeeper.ClientCnxnSocketNIO.doTransport(ClientCnxnSocket
NIO.java:350)
    at org.apache.zookeeper.ClientCnxn$SendThread.run(ClientCnxn.java:1118)
24/12/28 12:41:36 INFO zookeeper.ClientCnxn: Opening socket connection to server
localhost/127.0.0.1:2181. Will not attempt to authenticate using SASL (unknown
error)
24/12/28 12:41:36 INFO zookeeper.ClientCnxn: Socket connection established,
initiating session, client: /127.0.0.1:51008, server: localhost/127.0.0.1:2181
24/12/28 12:41:36 INFO zookeeper.ClientCnxn: Session establishment complete on
server localhost/127.0.0.1:2181, sessionId = 0xff936f6f947108eb, negotiated
timeout = 30000
24/12/28 12:41:36 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Connected.
Topic paulagiliTopic is marked for deletion.
Note: This will have no impact if delete.topic.enable is not set to true.
24/12/28 12:41:36 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Closing.
24/12/28 12:41:36 INFO zookeeper.ZooKeeper: Session: 0xff936f6f947108eb closed
24/12/28 12:41:36 INFO zookeeper.ClientCnxn: EventThread shut down
24/12/28 12:41:36 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Closed.

```

```

[6]: #Creamos otra vez el topis con las especificaciones del enunciado
!kafka-topics --create --zookeeper localhost:2181/kafka --topic paulagiliTopic
↪--partitions 2 --replication-factor 1

```

```

24/12/28 12:41:38 INFO utils.Log4jControllerRegistration$: Registered
kafka:type=kafka.Log4jController MBean
24/12/28 12:41:38 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Initializing
a new session to localhost:2181/kafka.
24/12/28 12:41:38 INFO zookeeper.ZooKeeper: Client
environment:zookeeper.version=3.4.5-cdh6.2.0--1, built on 03/14/2019 06:11 GMT
24/12/28 12:41:38 INFO zookeeper.ZooKeeper: Client
environment:host.name=Cloudera01
24/12/28 12:41:38 INFO zookeeper.ZooKeeper: Client
environment:java.version=1.8.0_181
24/12/28 12:41:38 INFO zookeeper.ZooKeeper: Client
environment:java.vendor=Oracle Corporation
24/12/28 12:41:38 INFO zookeeper.ZooKeeper: Client
environment:java.home=/usr/lib/jvm/java-8-oracle-cloudera/jre
24/12/28 12:41:38 INFO zookeeper.ZooKeeper: Client environment:java.class.path=/

```



opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/activation-1.1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/aopalliance-repackaged-2.5.0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/argparse4j-0.7.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/audience-annotations-0.5.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/commons-lang3-3.5.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-api-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-basic-auth-extension-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-file-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-json-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-runtime-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-transforms-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/guava-20.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/hk2-api-2.5.0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/hk2-locator-2.5.0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/hk2-utils-2.5.0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-annotations-2.9.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-annotations-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-core-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-databind-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-jaxrs-base-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-jaxrs-json-provider-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-module-jaxb-annotations-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javassist-3.22.0-CR2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javax.annotation-api-1.2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javax.inject-1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javax.inject-2.5.0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javax.servlet-api-3.1.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javax.ws.rs-api-2.1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javax.ws.rs-api-2.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jaxb-api-2.3.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-client-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-common-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-container-servlet-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-container-servlet-core-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/j

ersey-hk2-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-media-jaxb-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-server-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-client-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-continuation-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-http-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-io-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-security-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-server-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-servlet-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-servlets-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-util-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jopt-simple-5.0.4.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka\_2.11-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka\_2.11-2.1.0-cdh6.2.0-sources.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-clients-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-log4j-appender-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-streams-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-streams-examples-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-streams-scala\_2.11-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-streams-test-utils-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/kafka-tools-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/log4j-1.2.17.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/lz4-java-1.5.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/maven-artifact-3.5.4.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/metrics-core-2.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/metrics-servlet-2.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/osgi-resource-locator-1.0.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/plexus-utils-3.1.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/reflections-0.9.11.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/rocksdbjni-5.14.2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/scala-library-2.11.12.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/scala-logging\_2.11-3.9.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/scala-reflect-2.11.12.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/slf4j-api-1.7.25.jar:/opt/

cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/slf4j-log4j12-1.7.25.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/snappy-java-1.1.7.2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/validation-api-1.1.0.Final.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/zkclient-0.10.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/zookeeper-3.4.5-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/zstd-jni-1.3.5-4.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jackson-module-jaxb-annotations-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/aopalliance-repackaged-2.5.0-b32.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-service-api.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/lucene-suggest.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/websocket-client-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hadoop-client-3.0.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jettison-1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jamon-runtime-2.3.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/log4j-1.2.17.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/kerb-identity-1.0.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/netty-all-4.1.17.Final.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/solr-solrj.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/lucene-join.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-provider-cache-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jetty-schemas-3.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hbase-http.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hk2-api-2.5.0-b32.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/javassist-3.18.1-GA.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/kerby-asn1-1.0.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/shiro-crypto-cipher-1.4.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-service-providers.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-service-server-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-dbcp-1.4.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/twill-common-0.6.0-incubating.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/snappy-java-1.1.4.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-hdfs-namenode-plugin.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-binding-hbase-indexer-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/shiro-cache-1.4.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-core-model-db-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/re2j-1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/tephra-api-0.6.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-binding-hive-follower.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/osgi-resource-locator-1.0.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/

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 ucene-highlighter.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/s  
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guava-14.0.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry
/lib/gmetric4j-1.0.7.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/li
b/sentry/lib/sentry-tools.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.9673
73/lib/sentry/lib/httpcore-4.4.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.
p0.967373/lib/sentry/lib/commons-collections-3.2.2.jar:/opt/cloudera/parcels/CDH
-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-lang3-3.7.jar:/opt/cloudera/p
arcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/lucene-codecs.jar:/opt/clou
dera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/apache-jstl-9.3.25.v2
0180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/
jetty-http-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.96
7373/lib/sentry/lib/jetty-rewrite-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH
-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-binding-solr.jar:/opt/cloudera
/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/javax.el-3.0.1-b11.jar:/o
pt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/shiro-event-1.
4.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jcom
mander-1.30.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/
lib/sentry-hdfs-dist-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2
.0.p0.967373/lib/sentry/lib/caffeine-2.4.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1
.cdh6.2.0.p0.967373/lib/sentry/lib/hadoop-annotations.jar:/opt/cloudera/parcels/
CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/calcite-core-1.13.0.jar:/opt/cloud
era/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jetty-xml-9.3.25.v2018
0904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/gui
ce-assistedinject-3.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/l
ib/sentry/lib/stax-api-1.0.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.9
67373/lib/sentry/lib/jackson-jaxrs-1.9.13.jar:/opt/cloudera/parcels/CDH-6.2.0-1.
cdh6.2.0.p0.967373/lib/sentry/lib/junit-4.10.jar:/opt/cloudera/parcels/CDH-6.2.0
-1.cdh6.2.0.p0.967373/lib/sentry/lib/hadoop-common.jar:/opt/cloudera/parcels/CDH
-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/kerb-util-1.0.0.jar:/opt/cloudera/par
cels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/plugins/sentry-hdfs-2.1.0-cdh
6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/pl
ugins/curator-x-discovery-2.11.1.jar:/etc/kafka/conf/sentry-conf
24/12/28 12:41:38 INFO zookeeper.ZooKeeper: Client environment:java.library.path
=/usr/java/packages/lib/amd64:/usr/lib64:/lib64:/lib:/usr/lib
24/12/28 12:41:38 INFO zookeeper.ZooKeeper: Client
environment:java.io.tmpdir=/tmp
24/12/28 12:41:38 INFO zookeeper.ZooKeeper: Client
environment:java.compiler=<NA>
24/12/28 12:41:38 INFO zookeeper.ZooKeeper: Client environment:os.name=Linux
24/12/28 12:41:38 INFO zookeeper.ZooKeeper: Client environment:os.arch=amd64
24/12/28 12:41:38 INFO zookeeper.ZooKeeper: Client
environment:os.version=4.4.0-210-generic
24/12/28 12:41:38 INFO zookeeper.ZooKeeper: Client
environment:user.name=paulagili
24/12/28 12:41:38 INFO zookeeper.ZooKeeper: Client
environment:user.home=/home/paulagili
24/12/28 12:41:38 INFO zookeeper.ZooKeeper: Client

```

```

environment:user.dir=/home/paulagili/batch/Actividad2
24/12/28 12:41:38 INFO zookeeper.ZooKeeper: Initiating client connection,
connectString=localhost:2181/kafka sessionTimeout=30000
watcher=kafka.zookeeper.ZooKeeperClient$ZooKeeperClientWatcher$@29647f75
24/12/28 12:41:38 INFO zookeeper.ClientCnxn: Opening socket connection to server
localhost/127.0.0.1:2181. Will not attempt to authenticate using SASL (unknown
error)
24/12/28 12:41:38 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Waiting
until connected.
24/12/28 12:41:38 INFO zookeeper.ClientCnxn: Socket connection established,
initiating session, client: /127.0.0.1:51034, server: localhost/127.0.0.1:2181
24/12/28 12:41:38 INFO zookeeper.ClientCnxn: Session establishment complete on
server localhost/127.0.0.1:2181, sessionId = 0xff936f6f947108ec, negotiated
timeout = 30000
24/12/28 12:41:38 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Connected.
24/12/28 12:41:39 INFO zk.AdminZkClient: Topic creation Map(paulagiliTopic-1 ->
ArrayBuffer(95), paulagiliTopic-0 -> ArrayBuffer(97))
Created topic "paulagiliTopic".
24/12/28 12:41:39 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Closing.
24/12/28 12:41:39 INFO zookeeper.ZooKeeper: Session: 0xff936f6f947108ec closed
24/12/28 12:41:39 INFO zookeeper.ClientCnxn: EventThread shut down
24/12/28 12:41:39 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Closed.

```

Vamos a verificar que el topic se ha creado correctamente, para ello vamos a utilizar el parámetro --describe

```
[7]: !kafka-topics --describe --zookeeper localhost:2181/kafka --topic paulagiliTopic
```

```

24/12/28 12:41:40 INFO utils.Log4jControllerRegistration$: Registered
kafka:type=kafka.Log4jController MBean
24/12/28 12:41:40 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Initializing
a new session to localhost:2181/kafka.
24/12/28 12:41:40 INFO zookeeper.ZooKeeper: Client
environment:zookeeper.version=3.4.5-cdh6.2.0--1, built on 03/14/2019 06:11 GMT
24/12/28 12:41:40 INFO zookeeper.ZooKeeper: Client
environment:host.name=Cloudera01
24/12/28 12:41:40 INFO zookeeper.ZooKeeper: Client
environment:java.version=1.8.0_181
24/12/28 12:41:40 INFO zookeeper.ZooKeeper: Client
environment:java.vendor=Oracle Corporation
24/12/28 12:41:40 INFO zookeeper.ZooKeeper: Client
environment:java.home=/usr/lib/jvm/java-8-oracle-cloudera/jre
24/12/28 12:41:40 INFO zookeeper.ZooKeeper: Client environment:java.class.path=/
opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs
/activation-1.1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./
./lib/kafka/bin/./libs/aopalliance-repackaged-2.5.0-b42.jar:/opt/cloudera/parce
ls/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/argparse4j-0.7.0.
jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/..

```

/libs/audience-annotations-0.5.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/commons-lang3-3.5.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-api-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-basic-auth-extension-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-file-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-json-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-runtime-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/connect-transforms-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/guava-20.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/hk2-api-2.5.0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/hk2-locator-2.5.0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/hk2-utils-2.5.0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-annotations-2.9.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-annotations-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-core-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-databind-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-jaxrs-base-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-jaxrs-json-provider-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jackson-module-jaxb-annotations-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javassist-3.22.0-CR2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javax.annotation-api-1.2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javax.inject-1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javax.inject-2.5.0-b42.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javax.servlet-api-3.1.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javax.ws.rs-api-2.1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/javax.ws.rs-api-2.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jaxb-api-2.3.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-client-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-common-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-container-servlet-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-container-servlet-core-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-hk2-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-media-jaxb-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jersey-server-2.27.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/./lib/kafka/bin/./libs/jetty-client-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373

3/bin/../../lib/kafka/bin/../../libs/jetty-continuation-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jetty-http-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jetty-io-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jetty-security-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jetty-server-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jetty-servlet-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jetty-servlets-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jetty-util-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/jopt-simple-5.0.4.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/kafka\_2.11-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/kafka\_2.11-2.1.0-cdh6.2.0-sources.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/kafka-clients-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/kafka-log4j-appender-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/kafka-streams-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/kafka-streams-examples-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/kafka-streams-scala\_2.11-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/kafka-streams-test-utils-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/kafka-tools-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/log4j-1.2.17.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/lz4-java-1.5.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/maven-artifact-3.5.4.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/metrics-core-2.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/metrics-servlet-2.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/osgi-resource-locator-1.0.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/plexus-utils-3.1.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/reflections-0.9.11.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/rocksdbjni-5.14.2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/scala-library-2.11.12.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/scala-logging\_2.11-3.9.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/scala-reflect-2.11.12.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/slf4j-api-1.7.25.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/slf4j-log4j12-1.7.25.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/snappy-java-1.1.7.2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/validation-api-1.1.0.Final.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../li

bs/zkclient-0.10.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/bin/..  
/lib/kafka/bin/../../libs/zookeeper-3.4.5-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.  
2.0-1.cdh6.2.0.p0.967373/bin/../../lib/kafka/bin/../../libs/zstd-jni-1.3.5-4.jar:/opt/  
cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jackson-module-  
jaxb-annotations-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/  
lib/sentry/lib/aopalliance-repackaged-2.5.0-b32.jar:/opt/cloudera/parcels/CDH-6.  
2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-service-api.jar:/opt/cloudera/par  
cels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/lucene-suggest.jar:/opt/cloud  
era/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/websocket-client-9.3.2  
5.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/  
lib/hadoop-client-3.0.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.  
p0.967373/lib/sentry/lib/jettison-1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6  
.2.0.p0.967373/lib/sentry/lib/jamon-runtime-2.3.1.jar:/opt/cloudera/parcels/CDH-  
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-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-service-server.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-binding-hive-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-configuration2-2.1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-service-providers-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-service-web-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hive-shims-scheduler.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/shiro-crypto-hash-1.4.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/validation-api-1.1.0.Final.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-binding-hive-common-2.1.0-cdh6.2.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jackson-jaxrs-base-2.9.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jetty-runner-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-core-model-kafka.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-logging-1.2.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/xz-1.6.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/noggit-0.8.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jersey-guice-1.19.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/spatial4j-0.7.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hbase-client.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/taglibs-standard-impl-1.2.5.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hppc-0.8.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/aopalliance-1.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-codec-1.11.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hbase-hadoop-compat.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/lucene-analyzers-common.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hive-service-rpc.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jetty-jndi-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-shaded-miscellaneous.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/jetty-server-9.3.25.v20180904.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hadoop-yarn-common.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/ant-1.9.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hive-shims-common.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/janino-2.7.6.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/javaws-api-2.0.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-provider-db.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/hk2-utils-2.5.0-b32.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/activation-1.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/joda-time-2.9.9.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/commons-el-1.0.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/guava-14.0.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/gmetric4j-1.0.7.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.967373/lib/sentry/lib/sentry-tools.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.p0.9673

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73/lib/sentry/lib/httpcore-4.4.1.jar:/opt/cloudera/parcels/CDH-6.2.0-1.cdh6.2.0.
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ugins/curator-x-discovery-2.11.1.jar:/etc/kafka/conf/sentry-conf
24/12/28 12:41:40 INFO zookeeper.ZooKeeper: Client environment:java.library.path
=/usr/java/packages/lib/amd64:/usr/lib64:/lib64:/lib:/usr/lib
24/12/28 12:41:40 INFO zookeeper.ZooKeeper: Client
environment:java.io.tmpdir=/tmp
24/12/28 12:41:40 INFO zookeeper.ZooKeeper: Client
environment:java.compiler=<NA>
24/12/28 12:41:40 INFO zookeeper.ZooKeeper: Client environment:os.name=Linux
24/12/28 12:41:40 INFO zookeeper.ZooKeeper: Client environment:os.arch=amd64
24/12/28 12:41:40 INFO zookeeper.ZooKeeper: Client
environment:os.version=4.4.0-210-generic
24/12/28 12:41:40 INFO zookeeper.ZooKeeper: Client
environment:user.name=paulagili
24/12/28 12:41:40 INFO zookeeper.ZooKeeper: Client
environment:user.home=/home/paulagili
24/12/28 12:41:40 INFO zookeeper.ZooKeeper: Client
environment:user.dir=/home/paulagili/batch/Actividad2
24/12/28 12:41:40 INFO zookeeper.ZooKeeper: Initiating client connection,
connectString=localhost:2181/kafka sessionTimeout=30000
watcher=kafka.zookeeper.ZooKeeperClient$ZooKeeperClientWatcher$@2892dae4
24/12/28 12:41:40 INFO zookeeper.ClientCnxn: Opening socket connection to server

```

```
localhost/127.0.0.1:2181. Will not attempt to authenticate using SASL (unknown
error)
24/12/28 12:41:40 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Waiting
until connected.
24/12/28 12:41:40 INFO zookeeper.ClientCnxn: Socket connection established,
initiating session, client: /127.0.0.1:51088, server: localhost/127.0.0.1:2181
24/12/28 12:41:40 INFO zookeeper.ClientCnxn: Session establishment complete on
server localhost/127.0.0.1:2181, sessionid = 0xff936f6f947108ed, negotiated
timeout = 30000
24/12/28 12:41:40 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Connected.
Topic:paulagiliTopic    PartitionCount:2    ReplicationFactor:1    Configs:
    Topic: paulagiliTopic    Partition: 0    Leader: 97    Replicas: 97
Isr: 97
    Topic: paulagiliTopic    Partition: 1    Leader: 95    Replicas: 95
Isr: 95
24/12/28 12:41:41 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Closing.
24/12/28 12:41:41 INFO zookeeper.ZooKeeper: Session: 0xff936f6f947108ed closed
24/12/28 12:41:41 INFO zookeeper.ClientCnxn: EventThread shut down
24/12/28 12:41:41 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Closed.
```

Si la creación se ha realizado correctamente, veremos nuestro topic con dos particiones, la 0 y la 1.

Ahora vamos a crear un productor que a partir de la lista de los 80 primeros números naturales, envíe los pares a la partición 0 y los impares a la 1.

```
[8]: from kafka import KafkaProducer

# Definimos el productor
producer = KafkaProducer(bootstrap_servers='Cloudera02:9092')

# Enviamos los mensajes
for i in range(1, 80):
    partition = 0 if i % 2 == 0 else 1
    producer.send('paulagiliTopic', value=str(i).encode('utf-8'),
    ↪partition=partition)

# Aseguramos que todos los mensajes se envíen
producer.flush()
producer.close()
```

Por último, creamos un consumidor que consuma estos mensajes y los muestre con la función "print". El consumidor, si no lo controlamos, se queda escuchando "para siempre" a la espera de nuevos mensajes, por lo tanto, para evitarlo utilizad el parámetro consumer\_timeout\_ms

```
[9]: from kafka import KafkaConsumer

#Definimos el consumidor, sin el parametro auto_offset_reset='smallest' sólo
↪leería los nuevos mensajes en el topic no todos los que se crearon.
```



```
consumer = KafkaConsumer('paulagiliTopic',bootstrap_servers='Cloudera02:
↪9092',auto_offset_reset='smallest', consumer_timeout_ms =10000)

#Bucle para imprimir en pantalla todos los mensajes, este bucle al minuto acabará
for message in consumer:
    print(message.value.decode('utf-8'))

consumer.close()
```

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¿Los mensajes han llegado correctamente a sus particiones? ¿Qué significa la información que muestra el mensaje?

\*\*-- Los mensajes han llegado correctamente a sus particiones y el consumidor está recibiendo-  
los sin problemas.La información que muestra cada mensaje (message.value) representa los datos  
transmitidos en bruto en formato de bytes.

## 1.5 Ejercicio 4: Entendiendo los offsets

En este ejercicio vamos a utilizar el topic creado en el ejercicio anterior para trabajar con los offsets

- Mostrad el offset de las dos particiones del topic creado en el ejercicio anterior (por ejemplo: garguelloTopic)
- Volved a ejecutar el productor del ejercicio anterior ¿qué ocurre con los offsets?
- Cread un consumidor que empiece a leer a partir de un offset específico (por ejemplo, a partir del 30).

## 2 Offset de las dos particiones de topic creado en el ejercicio anterior

```
[10]: from kafka import SimpleClient
      from kafka.protocol.offset import OffsetRequest, OffsetResetStrategy
      from kafka.common import OffsetRequestPayload

      client = SimpleClient('Cloudera02:9092')

      #Definimos las particiones
      topic = 'paulagiliTopic'
      partition_0 = OffsetRequestPayload(topic=topic, partition=0, time=-1,
      ↪max_offsets =1)
      partition_1 = OffsetRequestPayload(topic=topic, partition=1, time=-1,
      ↪max_offsets =1)

      #Pedimos los offsets
      offsets_p0 = client.send_offset_request([partition_0])[0].offsets[0]
      offsets_p1 = client.send_offset_request([partition_1])[0].offsets[0]

      print("Offset de la partición 0:" +str(offsets_p0))
      print("Offset de la partición 1:" +str(offsets_p1))

      client.close()
```

Offset de la partición 0:39

Offset de la partición 1:40

Ejecutad otra vez el **productor** del ejercicio anterior y volved a mirad los offsets. ¿Qué ha pasado con ellos? ¿Han cambiado?

-- Al ejecutarse una segunda vez la cifras se han "duplicado", así pues, el almacenamiento del resultado de la segunda ejecución será a partir de la última salida, es decir, del offset 78 para la partición 0 y del offset 80 para la partición 1.--

Cread un consumidor que empiece a leer a partir de un offset específico (por ejemplo, a partir del 30).

```
[ ]: !kafka-console-consumer --bootstrap-server Cloudera02:9092 --topic┐  
    ↪ paulagiliTopic --partition 0 --offset 30
```

```
24/12/28 12:41:53 INFO utils.Log4jControllerRegistration$: Registered  
kafka:type=kafka.Log4jController MBean  
24/12/28 12:41:53 INFO consumer.ConsumerConfig: ConsumerConfig values:  
    auto.commit.interval.ms = 5000  
    auto.offset.reset = latest  
    bootstrap.servers = [Cloudera02:9092]  
    check.crcs = true  
    client.dns.lookup = default  
    client.id =  
    connections.max.idle.ms = 540000  
    default.api.timeout.ms = 60000  
    enable.auto.commit = false  
    exclude.internal.topics = true  
    fetch.max.bytes = 52428800  
    fetch.max.wait.ms = 500  
    fetch.min.bytes = 1  
    group.id = console-consumer-8834  
    heartbeat.interval.ms = 3000  
    interceptor.classes = []  
    internal.leave.group.on.close = true  
    isolation.level = read_uncommitted  
    key.deserializer = class  
org.apache.kafka.common.serialization.ByteArrayDeserializer  
    max.partition.fetch.bytes = 1048576  
    max.poll.interval.ms = 300000  
    max.poll.records = 500  
    metadata.max.age.ms = 300000  
    metric.reporters = []  
    metrics.num.samples = 2  
    metrics.recording.level = INFO  
    metrics.sample.window.ms = 30000  
    partition.assignment.strategy = [class  
org.apache.kafka.clients.consumer.RangeAssignor]  
    receive.buffer.bytes = 65536  
    reconnect.backoff.max.ms = 1000  
    reconnect.backoff.ms = 50  
    request.timeout.ms = 30000  
    retry.backoff.ms = 100  
    sasl.client.callback.handler.class = null  
    sasl.jaas.config = null  
    sasl.kerberos.kinit.cmd = /usr/bin/kinit  
    sasl.kerberos.min.time.before.relogin = 60000  
    sasl.kerberos.service.name = null  
    sasl.kerberos.ticket.renew.jitter = 0.05
```

```

sasl.kerberos.ticket.renew.window.factor = 0.8
sasl.login.callback.handler.class = null
sasl.login.class = null
sasl.login.refresh.buffer.seconds = 300
sasl.login.refresh.min.period.seconds = 60
sasl.login.refresh.window.factor = 0.8
sasl.login.refresh.window.jitter = 0.05
sasl.mechanism = GSSAPI
security.protocol = PLAINTEXT
send.buffer.bytes = 131072
session.timeout.ms = 10000
ssl.cipher.suites = null
ssl.enabled.protocols = [TLSv1.2, TLSv1.1, TLSv1]
ssl.endpoint.identification.algorithm = null
ssl.key.password = null
ssl.keymanager.algorithm = SunX509
ssl.keystore.location = null
ssl.keystore.password = null
ssl.keystore.type = JKS
ssl.protocol = TLS
ssl.provider = null
ssl.secure.random.implementation = null
ssl.trustmanager.algorithm = PKIX
ssl.truststore.location = null
ssl.truststore.password = null
ssl.truststore.type = JKS
value.deserializer = class
org.apache.kafka.common.serialization.ByteArrayDeserializer

24/12/28 12:41:53 INFO utils.AppInfoParser: Kafka version : 2.1.0-cdh6.2.0
24/12/28 12:41:53 INFO utils.AppInfoParser: Kafka commitId : unknown
24/12/28 12:41:53 INFO clients.Metadata: Cluster ID: 126vC8PkSAGjpooXGxKexw
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```