Session 22:KAFKA INTRODUCTION

Assignment 1

Daemons required for this assignment

```
[acadgild@localhost bin]$ jps
3280 ConsoleProducer
28323 QuorumPeerMain
28612 Kafka
3946 Jps
3516 ConsoleConsumer
```

Task 1:

Create a kafka topic named KeyLessTopic.

Inside KeyLessTopic insert following data:

```
{"name":"John", "exp":16}

{"name":"Finn", "exp":20}

{"name":"Cylin", "exp":18}

{"name":"Mark", "exp":2}

{"name":"Akshay", "exp":14}
```

→ Creating a topic

```
[acadgild@localhost ~]$ $KAFKA_HOME/bin/kafka-topics.sh --create --topic KeyLessTopic --zookeeper localhost:2181 --partitions 1 --replication-factor 1 Created topic "KeyLessTopic".

You have new mail in /var/spool/mail/acadgild [acadgild@localhost ~]$ $KAFKA_HOME/bin/kafka-topics.sh --list --zookeeper localhost:2181

KeyLessTopic
TestTopic
__consumer_offsets
my-replicated-topic
[acadgild@localhost ~]$ jps

16100 QuorumPeerMain

16460 Kafka

17855 Jps
[acadgild@localhost ~]$ |
```

→ Inserting data in producer

```
[acadgild@localhost ~]$ $KAFKA_HOME/bin/kafka-topics.sh --create --topic KeyLessTopic --zookeeper localhost:2181 --partitions 1 --replication-factor 1 Error while executing topic command: Topic "KeyLessTopic" already exists.
[2018-12-01 22:53:40,215] ERROR org.apache.kafka.common.errors.TopicExistsException: Topic "KeyLessTopic" already exists.
(kafka.admin.TopicCommand$)
[acadgild@localhost ~]$ $KAFKA_HOME/bin/kafka-console-producer.sh --broker-list localhost:9092 --topic KeyLessTopic
{"name":"John", "exp":16}
{"name":"Finn", "exp":20}
{"name":"Cylin", "exp":18}
{"name":"Mark", "exp":2}
{"name":"Akshay", "exp":14}
```

Task 2:

Create a console consumer that reads KeyLessTopic from beginning

→ Creating consumer that takes the producer data from the topic KeyLessTopic.

```
Last login: Sat Dec 1 22:52:48 2018 from 10.0.2.2
[acadgild@localhost ~]s $KAFKA HOME/bin/kafka-console-consumer.sh --topic KeyLessTopic --from-beginning --zookeeper localhost:2181 --property print.key=true
Using the ConsoleConsumer with old consumer is deprecated and will be removed in a future major release. Consider using the new consumer by passing [bootstrap-
server] instead of [zookeeper].
null {"name":"non", "exp":16}
null {"name":"Cylin", "exp":18}
null {"name":"Mark", "exp":18}
null {"name":"Mark", "exp":21}
null {"name":"Akshay", "exp":14}
^CProcessed a total of 5 messages
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ $KAFKA_HOME/bin/kafka-console-consumer.sh --topic KeyLessTopic --from-beginning --zookeeper localhost:2181 --property print.key=true
Using the ConsoleConsumer with old consumer is deprecated and will be removed in a future major release. Consider using the new consumer by passing [bootstrap-
server] instead of [zookeeper].
null {"name":"John", "exp":16}
null {"name":"Oloh", "exp":18}
null {"name":"Cylin", "exp":18}
null {"name":"Akshay", "exp":14}

["name":"Akshay", "exp":14}
```

Task 3:

Create a kafka topic named KeyedTopic. Inside KeyedTopic insert following data:

The part before comma(,) should be treated as key and after comma(,) should be treated as value

```
{"name":"John"},{"exp":16}

{"name":"Finn"},{"exp":20}

{"name":"Cylin"},{"exp":18}

{"name":"Mark"},{"exp":2}

{"name":"Akshay"},{"exp":14}
```

→ Inserting the data in producer as key value in Keyed Topic

```
[acadgild@localhost ~]$ $KAFKA_HOME/bin/kafka-console-producer.sh --broker-list localhost:9092 --topic KeyedTopic --property "parse.key=true" --property "key.separator=:"

^C[acadgild@localhost ~]$ $KAFKA_HOME/bin/kafka-console-producer.sh --broker-list localhost:9092 --topic KeyedTopic --property "parse.key=true" --property "key eparator=,"

{"name":"John"}, {"exp":16}

{"name":"Sylin"}, {"exp":18}

{"name":"Mark"}, {"exp":18}

{"name":"Akshay"}, {"exp":14}
```

→ Output from the console.

```
[acadgild@localhost ~]$ $KAFKA_HOME/bin/kāfka-console-consumer.sh --topic KeyedTopic --from-beginning --zookeeper localhost:2181 --property print.key=true
Using the ConsoleConsumer with old consumer is deprecated and will be removed in a future major release. Consider using the new consumer by passing [bootstrap-
server] instead of [Zookeeper].

{"name":"John"} {"exp":16}

{"name":"Finn"} {"exp":20}

{"name":"Cylin"} {"exp":18}

{"name":"Mark"} {"exp":2}

{"name":"Akshay"} {"exp":14}
```

Task 4:

Create a console consumer that reads KeyedTopic from beginning

The key and value should be separated by '-'

→ Input of data in producer again

```
[acadgild@localhost ~]$ $KAFKA_HOME/bin/kafka-console-producer.sh --broker-list localhost:9092 --topic KeyedTopic --property "parse.key=true" --property "key.separator=," hi,hi
Now i am showing the key value separted by "-", wait and watch {"name":"John"},{"exp":16} {"name":"Finn"},{"exp":20} {"name":"Cylin"},{"exp":18} {"name":"Mark"},{"exp":2} {"name":"Akshay"},{"exp":2}
```

→ Output of consumer Key value are separated from "-"

```
[acadgild@localhost ~]$ $KAFKA_HOME/bin/kafka-console-consumer.sh --topic KeyedTopic --from-beginning --zookeeper localhost:2181 --property print.key=true --property key.separator="-"
Jsing the ConsoleConsumer with old consumer is deprecated and will be removed in a future major release. Consider using the new consumer by passing [bootstrap-server] instead of [zookeeper].

{"name":"John"}-{"exp":16}

{"name":"Mark"}-{"exp":29}

{"name":"Ashay"}-{"exp":18}

{"name":"Iohn"}-{"exp":18}

{"name":"Iohn"}-{"exp":18}

{"name":"Ashay"}-{"exp":18}

{"name":"Ashay"}-{"exp":18}

inhi

Now i am showing the key value separted by "-"- wait and watch

{"name":"John"}-("exp":18}

{"name":"John"}-("exp":18)

{"name":"John"}-("exp":18)

{"name":"Iohn"}-("exp":18)

{"name":"Iohn"}-("exp":18)

{"name":"Iohn"}-("exp":18)

{"name":"Iohn"}-("exp":18)

{"name":"Iohn"}-("exp":18)

{"name":"Mark"}-("exp":12)

{"name":"Mark"}-("exp":14}
```