

Session 23:KAFKA

INTRODUCTION

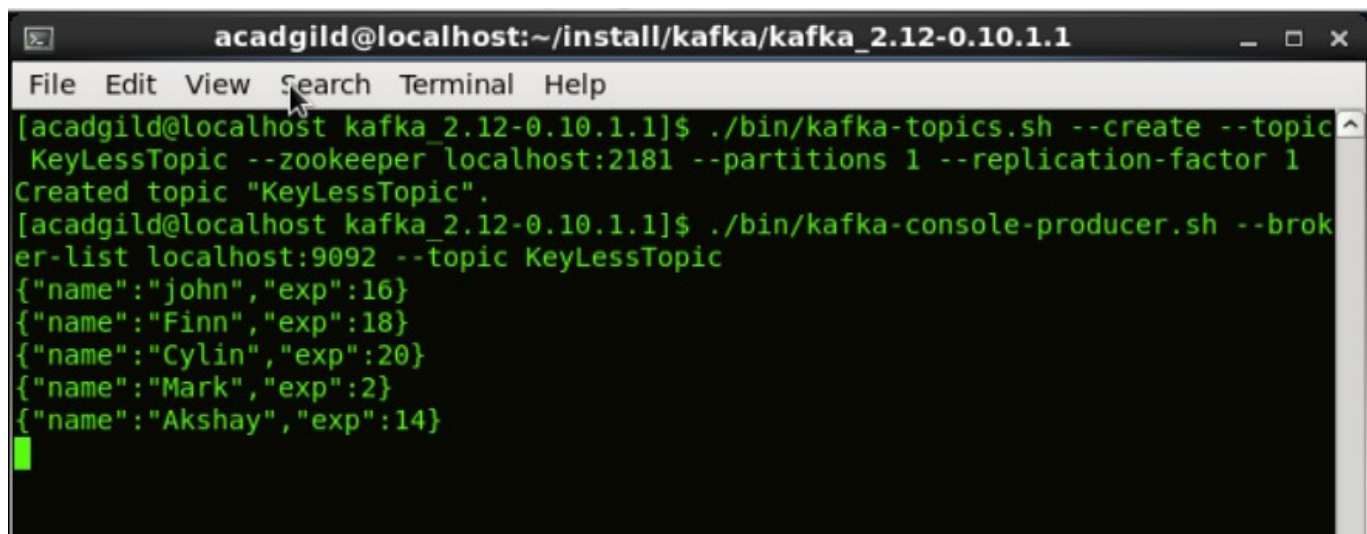
Assignment 1

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}
```

A terminal window titled 'acadgild@localhost:~/install/kafka/kafka_2.12-0.10.1.1' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the execution of two Kafka commands. The first command creates a topic named 'KeyLessTopic' with 1 partition and a replication factor of 1. The second command uses the kafka-console-producer to insert five JSON records into the 'KeyLessTopic' topic. The records are: {"name":"john","exp":16}, {"name":"Finn","exp":18}, {"name":"Cylin","exp":20}, {"name":"Mark","exp":2}, and {"name":"Akshay","exp":14}.

```
acadgild@localhost:~/install/kafka/kafka_2.12-0.10.1.1  
File Edit View Search Terminal Help  
[acadgild@localhost kafka_2.12-0.10.1.1]$ ./bin/kafka-topics.sh --create --topic  
KeyLessTopic --zookeeper localhost:2181 --partitions 1 --replication-factor 1  
Created topic "KeyLessTopic".  
[acadgild@localhost kafka_2.12-0.10.1.1]$ ./bin/kafka-console-producer.sh --brok  
er-list localhost:9092 --topic KeyLessTopic  
{"name":"john","exp":16}  
{"name":"Finn","exp":18}  
{"name":"Cylin","exp":20}  
{"name":"Mark","exp":2}  
{"name":"Akshay","exp":14}  
█
```

Task 2:

Create a console consumer that reads KeyLessTopic from beginning.

```
acadgild@localhost:~/install/kafka/kafka_2.12-0.10.1.1
File Edit View Search Terminal Help
[acadgild@localhost kafka_2.12-0.10.1.1]$ ./bin/kafka-console-consumer.sh --topic KeyLessTopic --from-beginning \
> --zookeeper localhost:2181
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-servers] instead of [zookeeper].
{"name":"john","exp":16}
{"name":"Finn","exp":18}
{"name":"Cylin","exp":20}
{"name":"Mark","exp":2}
{"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

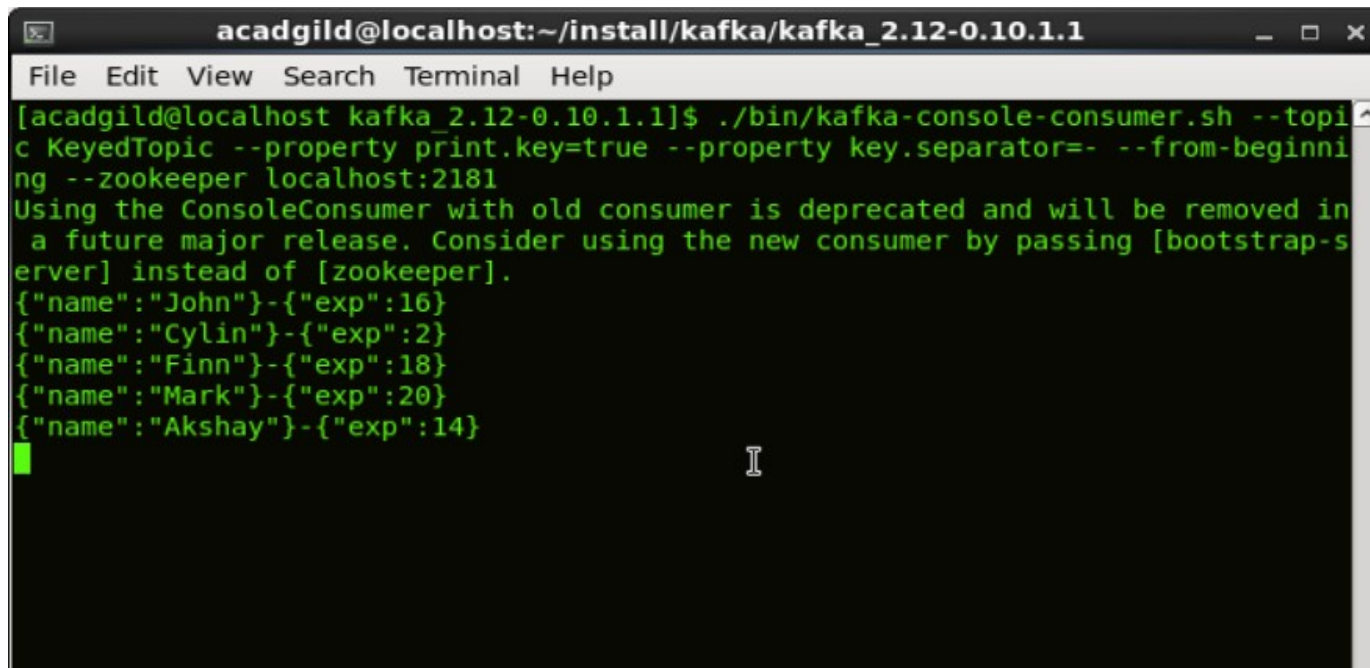
```
{"name":"John"}, {"exp":16}
{"name":"Finn"}, {"exp":20}
{"name":"Cylin"}, {"exp":18}
{"name":"Mark"}, {"exp":2}
{"name":"Akshay"}, {"exp":14}
```

```
display all 2400 possibilities (y or n)
[acadgild@localhost kafka_2.12-0.10.1.1]$ ./bin/kafka-console-producer.sh --broker-list localhost:9092 --topic KeyedTopic --property parse.key=true --property key.separator=,
{"name":"John"}, {"exp":16}
{"name":"Cylin"}, {"exp":2}
{"name":"Finn"}, {"exp":18}
{"name":"Mark"}, {"exp":20}
{"name":"Akshay"}, {"exp":14}
```

Task 4:

Create a console consumer that reads KeyedTopic from beginning

The key and value should be separated by '-'

A terminal window titled 'acadgild@localhost:~/install/kafka/kafka_2.12-0.10.1.1' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the command to run a Kafka console consumer for the 'KeyedTopic' with properties 'print.key=true', 'key.separator=-', and '--from-beginning'. The output shows a deprecation warning and five JSON records: {"name": "John"}-{"exp": 16}, {"name": "Cylin"}-{"exp": 2}, {"name": "Finn"}-{"exp": 18}, {"name": "Mark"}-{"exp": 20}, and {"name": "Akshay"}-{"exp": 14}.

```
acadgild@localhost:~/install/kafka/kafka_2.12-0.10.1.1
File Edit View Search Terminal Help
[acadgild@localhost kafka_2.12-0.10.1.1]$ ./bin/kafka-console-consumer.sh --topic KeyedTopic --property print.key=true --property key.separator=- --from-beginning --zookeeper localhost:2181
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.servers] instead of [zookeeper].
{"name": "John"}-{"exp": 16}
{"name": "Cylin"}-{"exp": 2}
{"name": "Finn"}-{"exp": 18}
{"name": "Mark"}-{"exp": 20}
{"name": "Akshay"}-{"exp": 14}
```