

## KAFKA-1

### Task1: Create a Kafka topic named KeyLessTopic and with given specifics

**Sol:** Step1: start kafka with command **confluent start** and create topic by using kafka-topic command

➔ kafka-topics --create --topic KeyLessTopic --zookeeper localhost:2181 --partitions 1 --replication-factor 1

//check the list of created topics

➔ kafka-topics --list --zookeeper localhost:2181

```
[acadgild@localhost ~]$ kafka-topics --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-topics --list --zookeeper localhost:2181
KeyLessTopic
PartitionedProducer
TestTopic
__consumer_offsets
__schemas
connect-configs
connect-offsets
connect-statuses
[acadgild@localhost ~]$
```

Step2: Inside KeyLessTopic insert data.

//start producer to insert data in console to topic

➔ kafka-console-producer.sh --broker-list localhost:9092 --topic KeyLessTopic

//insert following data

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

acadgild@localhost:~

```
[acadgild@localhost ~]$ 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}
```

## Task2: Create a console consumer that reads KeyLessTopic from beginning

**Sol:** Step 1: start consumer

➔ kafka-console-consumer.sh --topic KeyLessTopic --from-beginning \  
--zookeeper localhost:2181 \  
--property print.key=true

```
bash: kafka-console-consumer.sh: command not found
[acadgild@localhost ~]$ 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":"Finn", "exp":20}
null    {"name":"Cylin", "exp":18}
null    {"name":"Mark", "exp":2}
```

## Task3: Create a kafka topic named KeyedTopic with data inserted as key-value pair separated by ','

**Sol:** Step1: and create topic by using kafka-topics command

➔ kafka-topics --create --topic KeyedTopic --zookeeper localhost:2181 --partitions 1 --replication-factor 1

//check the list of created topics

➔ kafka-topics --list --zookeeper localhost:2181

```
acadgild@localhost:~$ kafka-topics --create --topic KeyedTopic --zookeeper localhost:2181 --partitions 1 --replication-factor 1
Created topic "KeyedTopic".
acadgild@localhost:~$ kafka-topics --list --zookeeper localhost:2181
KeyLessTopic
KeyedTopic
PartitionedProducer
TestTopic
__consumer_offsets
__schemas
connect-configs
connect-offsets
connect-statuses
acadgild@localhost:~$
```

Step2: Inside KeyLessTopic insert data.

//start producer to insert data in console to topic

➔ kafka-console-producer.sh --broker-list localhost:9092 --topic KeyedTopic \  
--property "parse.key=true" \  
--property "key.separator=,"

```
[acadgild@localhost ~]$ kafka-console-producer.sh --broker-list localhost:9092 --topic KeyedTopic \  
> --property "parse.key=true" \  
> --property "key.separator=," \  
{ "name": "John", { "exp": 16 } \  
{ "name": "Finn", { "exp": 20 } \  
{ "name": "Cylin", { "exp": 18 } \  
{ "name": "Mark", { "exp": 2 } \  
{ "name": "Akshay", { "exp": 14 }
```

**Task4: Create a console consumer that reads KeyedTopic from beginning.**

**The key and value should be separated by '-'**

**Sol:** Step1: start consumer using **kafka-console-consumer.sh** command and specifying the separator

➔ kafka-console-consumer.sh --topic KeyedTopic --from-beginning \  
--zookeeper localhost:2181 \  
--property print.key=true \  
--property "key.separator=-"

```
acadgild@localhost:~  
[acadgild@localhost ~]$ kafka-console-consumer.sh --topic KeyedTopic --from-beginning \  
> --zookeeper localhost:2181 \  
> --property print.key=true \  
> --property "key.separator=-" \  
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 }
```