# Session 22:

# KAFKA INTRODUCTION

# Assignment 1

[acadgild@localhost ~]$ sudo vi.bashrc
[sudo] password for acadgild:
sudo: vi.bashrc: command not found
[acadgild@localhost ~]$ sudo vi .bashrc
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ source .bashrc
[acadgild@localhost ~]$ echo $CONFLUENT_HOME
/home/acadgild/install/confluent/confluent-5.1.2
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ confluent start
This CLI is intended for development only, not for production
https://docs.confluent.io/current/cli/index.html

Using CONFLUENT_CURRENT: /tmp/confluent.bxMDXQH4
Starting zookeeper
zookeeper is [UP]
Starting kafka
kafka is [UP]
Starting schema-registry
schema-registry is [UP]
Starting kafka-rest
kafka-rest is [UP]
Starting connect
connect is [UP]
Starting ksql-server
ksql-server is [UP]
Starting control-center
control-center is [UP]
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$

## 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}

**> bin/kafka-topics.sh --create --zookeeper localhost:2181 --replication-factor 1 --partitions 5 –**
**KeyLessTopic**
**> bin/kafka-topics.sh --list --zookeeper localhost:2181**
**KeyLessTopic**

**> bin/kafka-console-producer.sh --broker-list localhost:9092 --topic KeyLessTopic –from-beginning**
{"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

**> bin/kafka-console-consumer.sh --broker-list localhost:9092 --topic KeyLessTopic –from-**
**beginning**
{"name":"John", "exp":16}
{"name":"Finn", "exp":20}
{"name":"Cylin", "exp":18}
{"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}

**> bin/kafka-topics.sh --create --zookeeper localhost:2181 --replication-factor 1 --partitions 5 –**
**KeyedTopic**

**> bin/kafka-topics.sh --list --zookeeper localhost:2181**

**KeyedTopic**

**> bin/kafka-console-producer.sh --broker-list localhost:9092 --topic KeyedTopic –from-beginning**
{"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 '-'
**> bin/kafka-console-consumer.sh --broker-list localhost:9092 --topic KeyedTopic –from-beginning**