# Apache Kafka - Consumer Group Example

import java.util.Properties;

import java.util.Arrays;

import org.apache.kafka.clients.consumer.KafkaConsumer;

import org.apache.kafka.clients.consumer.ConsumerRecords;

import org.apache.kafka.clients.consumer.ConsumerRecord;

public class ConsumerGroup {

public static void main(String[] args) throws Exception {

if(args.length < 2){

System.out.println("Usage: consumer <topic> <groupname>");

return;

}

String topic = args[0].toString();

String group = args[1].toString();

Properties props = new Properties();

props.put("bootstrap.servers", "localhost:9092");

props.put("group.id", group);

props.put("enable.auto.commit", "true");

props.put("auto.commit.interval.ms", "1000");

props.put("session.timeout.ms", "30000");

props.put("key.deserializer",

"org.apache.kafka.common.serialization.StringDeserializer");

props.put("value.deserializer",

"org.apache.kafka.common.serialization.StringDeserializer");

KafkaConsumer<String, String> consumer = new KafkaConsumer<String, String>(props);

consumer.subscribe(Arrays.asList(topic));

System.out.println("Subscribed to topic " + topic);

int i = 0;

while (true) {

ConsumerRecords<String, String> records = consumer.poll(100);

for (ConsumerRecord<String, String> record : records)

System.out.printf("offset = %d, key = %s, value = %s\n",

record.offset(), record.key(), record.value());

}

}

}

### **Compilation**

javac -cp “/path/to/kafka/kafka\_2.11-0.9.0.0/libs/\*" ConsumerGroup.java

### **Execution**

>>java -cp “/path/to/kafka/kafka\_2.11-0.9.0.0/libs/\*":.

ConsumerGroup <topic-name> my-group

>>java -cp "/home/bala/Workspace/kafka/kafka\_2.11-0.9.0.0/libs/\*":.

ConsumerGroup <topic-name> my-group

Here we have created a sample group name as my-group with two consumers. Similarly, you can create your group and number of consumers in the group.

### **Input**

Open producer CLI and send some messages like −

Test consumer group 01

Test consumer group 02

### **Output of the First Process**

Subscribed to topic Hello-kafka

offset = 3, key = null, value = Test consumer group 01

### **Output of the Second Process**

Subscribed to topic Hello-kafka

offset = 3, key = null, value = Test consumer group 02