

Kafka Topic and Simple Producer/Consumer

1. Create a topic with 10 partitions. Make sure your topic name is different to everyone else's on the same Kafka cluster.
2. Create a producer for your topic and send at least 10 messages. Make the content of each message different.
3. Create a consumer that listens to your topic. Set the **auto_offset_reset** to "earliest" so that you can receive messages already sent.

```
kc = KafkaConsumer(  
    auto_offset_reset='earliest'  
    ,bootstrap_servers=[ 'franzlab2.eastus.cloudapp.azure.com' ]  
    ,consumer_timeout_ms=1000 )
```

4. Subscribe to your topic and receive some messages. Observe which partitions are used. *Do you receive messages in the order they were sent?*

```
[ConsumerRecord(  
    topic = 'mytopic',  
    partition = 4,  
    offset = 34,  
    timestamp = 1631004047880,  
    timestamp_type = 0,  
    key = None,  
    value = b'Hello, World!',  
    headers = [],  
    checksum = None,  
    serialized_key_size = -1,  
    serialized_value_size = 13,  
    serialized_header_size = -1)
```