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In [1]:
# import statements
from time import sleep
from json import dumps
from kafka import KafkaProducer
import random
import datetime as dt

def publish_message(producer_instance, topic_name, data):
    try:
        producer_instance.send(topic_name, value=data)
        print('Message published successfully. Data: ' + str(data))
    except Exception as ex:
        print('Exception in publishing message.')
        print(str(ex))

def connect_kafka_producer():
    _producer = None
    try:
        _producer = KafkaProducer(bootstrap_servers=['localhost:9092'],
                                   value_serializer=lambda x:
                                   dumps(x).encode('ascii'),
                                   api_version=(0, 10))
    except Exception as ex:
        print('Exception while connecting Kafka.')
        print(str(ex))
    finally:
        return _producer

if __name__ == '__main__':
    topic = 'Week9-Topic2'
    print('Publishing records..')
    producer01 = connect_kafka_producer()
    producer02 = connect_kafka_producer()
    producer03 = connect_kafka_producer()

    for e in range(100):
        datetime = str(dt.datetime.now().strftime("%X"))[-5:]
        data1 = {'datetime': datetime, 'producer05-1' : random.randrange(0,100)}
        publish_message(producer01, topic, data1)
        data2 = {'datetime': datetime, 'producer05-2' : random.randrange(0,100)}
        publish_message(producer02, topic, data2)
        data3 = {'datetime': datetime, 'producer05-3' : random.randrange(0,100)}
        publish_message(producer03, topic, data3)
        sleep(1)

Publishing records..
Message published successfully. Data: {'datetime': '42:31', 'producer05-1': 55}
Message published successfully. Data: {'datetime': '42:31', 'producer05-2': 28}
Message published successfully. Data: {'datetime': '42:31', 'producer05-3': 31}
Message published successfully. Data: {'datetime': '42:33', 'producer05-1': 83}
Message published successfully. Data: {'datetime': '42:33', 'producer05-2': 55}
Message published successfully. Data: {'datetime': '42:33', 'producer05-3': 4}
Message published successfully. Data: {'datetime': '42:34', 'producer05-1': 37}

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Message published successfully. Data: {'datetime': '44:06', 'producer05-1': 27}
Message published successfully. Data: {'datetime': '44:06', 'producer05-2': 78}
Message published successfully. Data: {'datetime': '44:06', 'producer05-3': 25}
Message published successfully. Data: {'datetime': '44:07', 'producer05-1': 91}
Message published successfully. Data: {'datetime': '44:07', 'producer05-2': 38}
Message published successfully. Data: {'datetime': '44:07', 'producer05-3': 9}
Message published successfully. Data: {'datetime': '44:08', 'producer05-1': 10}
Message published successfully. Data: {'datetime': '44:08', 'producer05-2': 51}
Message published successfully. Data: {'datetime': '44:08', 'producer05-3': 24}
Message published successfully. Data: {'datetime': '44:09', 'producer05-1': 13}
Message published successfully. Data: {'datetime': '44:09', 'producer05-2': 41}
Message published successfully. Data: {'datetime': '44:09', 'producer05-3': 7}
Message published successfully. Data: {'datetime': '44:10', 'producer05-1': 33}
Message published successfully. Data: {'datetime': '44:10', 'producer05-2': 48}
Message published successfully. Data: {'datetime': '44:10', 'producer05-3': 82}
Message published successfully. Data: {'datetime': '44:11', 'producer05-1': 62}
Message published successfully. Data: {'datetime': '44:11', 'producer05-2': 45}
Message published successfully. Data: {'datetime': '44:11', 'producer05-3': 83}
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In []:

In []:

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