

Kafka Producer¶

Produces Current DateTime stamp with a random count continuously unless stopped. Produces to the topic **Week8-Stream**

In [9]:

```
# 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, key, value):
    try:
        key_bytes = bytes(key, encoding='utf-8')
        value_bytes = bytes(value, encoding='utf-8')
        producer_instance.send(topic_name, key=key_bytes, value=value_bytes)
        producer_instance.flush()
        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'],
                                   api_version=(0, 10))
    except Exception as ex:
        print('Exception while connecting Kafka.')
        print(str(ex))
    finally:
        return _producer
```

```
if __name__ == '__main__':
```

```
    topic = 'Week9-Topic'
```

```
    print('Publishing records..')
```

```
    producer = connect_kafka_producer()
```

```
    while True:
```

```
        data = str(dt.datetime.now().strftime("%X")) + ', ' + str(
            random.randrange(0,100))
        publish_message(producer, topic, 'parsed', data)
        sleep(1)
```

```
Publishing records..
```

```
Message published successfully. Data: 14:51:05, 90
```

```
Message published successfully. Data: 14:51:06, 96
```

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Message published successfully. Data: 14:51:07, 66
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Message published successfully. Data: 14:51:08, 70
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Message published successfully. Data: 14:51:09, 33
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Message published successfully. Data: 14:51:10, 98
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Message published successfully. Data: 14:51:11, 39
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Message published successfully. Data: 14:51:12, 32
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Message published successfully. Data: 14:51:13, 14
Message published successfully. Data: 14:51:14, 93
Message published successfully. Data: 14:51:15, 27
Message published successfully. Data: 14:51:16, 34
Message published successfully. Data: 14:51:17, 92
Message published successfully. Data: 14:51:18, 43
Message published successfully. Data: 14:51:19, 79
Message published successfully. Data: 14:51:20, 42
Message published successfully. Data: 14:51:21, 80
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Message published successfully. Data: 14:51:23, 78
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Message published successfully. Data: 14:57:28, 42
```

```
-----
KeyboardInterrupt                                Traceback (most recent call last)
<ipython-input-9-bb911589966c> in <module>
     39         data = str(dt.datetime.now().strftime("%X")) + ', ' +
str(random.randrange(0,100))
     40         publish_message(producer, topic, 'parsed', data)
--> 41         sleep(1)
```

KeyboardInterrupt:

In []:

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