Jython SUPER

20 декабря 2020 г. 21:08

для того чтобы вызывать kafka streams из питона

https://stackoverflow.com/questions/51918941/does-kafka-python-api-support-stream-processing

клиент redhat

29 октября 2020 г. 13:00

https://kafka-python.readthedocs.io/en/master/install.html
https://kafka-python.readthedocs.io/en/master/usage.html

https://github.com/dpkp/kafka-python
https://towardsdatascience.com/kafka-python-explained-in-10-lines-of-code-800e3e07dad1

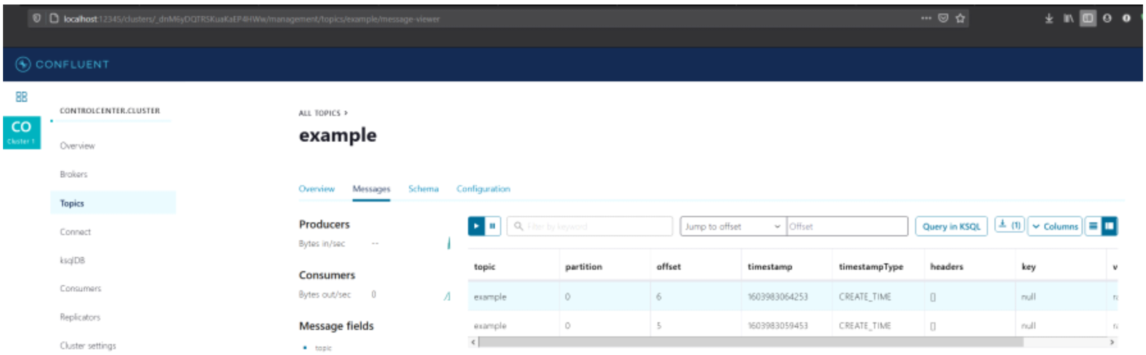
```
bootstrap.servers=kafka:31000
    sasl.jaas.config=org.apache.kafka.common.security.plain.PlainLoginModule required username=<<sasl_username>> password=<<sasl_ password>>;
    sasl.mechanism=PLAIN
    security.protocol=SASL_PLAINTEXT
```

https://tech.nickserra.com/2017/02/09/apache-kafka-plaintext-authentication-and-kafka-python-configuration-reference/

моя программа

```
from kafka import KafkaProducer
from kafka.errors import KafkaError
import json
import msgpack

producer = KafkaProducer(bootstrap_servers='192.168.1.106:31000', security_protocol="SASL_PLAINTEXT", sasl_mechanism='PLAIN', sasl_plain_username='test', sasl_plain_password='test123')


# Asynchronous by default
future = producer.send('example', b'raw_bytes')

# Block for 'synchronous' sends
try:
    record_metadata = future.get(timeout=10)
except KafkaError:
    # Decide what to do if produce request failed...
    print("log.exception()")
    pass

# Successful result returns assigned partition and offset
print("!!")
print(record_metadata.topic)
print(record_metadata.partition)
print(record_metadata.offset)
```

сообщения



topic	partition	offset	timestamp	timestampType	headers	key	v
example	0	6	1603983064253	CREATE_TIME	[]	null	n
example	0	5	1603983059453	CREATE_TIME	[]	null	n

https://github.com/confluentinc/confluent-kafka-python/issues/45

confluent клиент

29 октября 2020 г. 14:48

https://docs.confluent.io/current/clients/python.html

как поставить

https://github.com/Microsoft/vcpkg
https://github.com/edenhill/librdkafka
https://docs.confluent.io/current/tutorials/examples/clients/docs/python.html#client-examples-python

https://stackoverflow.com/questions/51963121/how-to-install-confluent-kafka-python-on-windows-10
https://stackoverflow.com/users/1821055/edenhill
https://github.com/mduhan/confluent-windows-5.0.1

поставим vcpkg

https://github.com/Microsoft/vcpkg

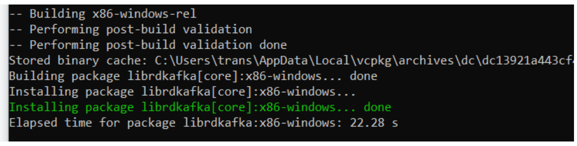
```
> git clone https://github.com/microsoft/vcpkg
> .\vcpkg\bootstrap-vcpkg.bat
```

установим кафка либу

https://stackoverrun.com/ru/q/10990174

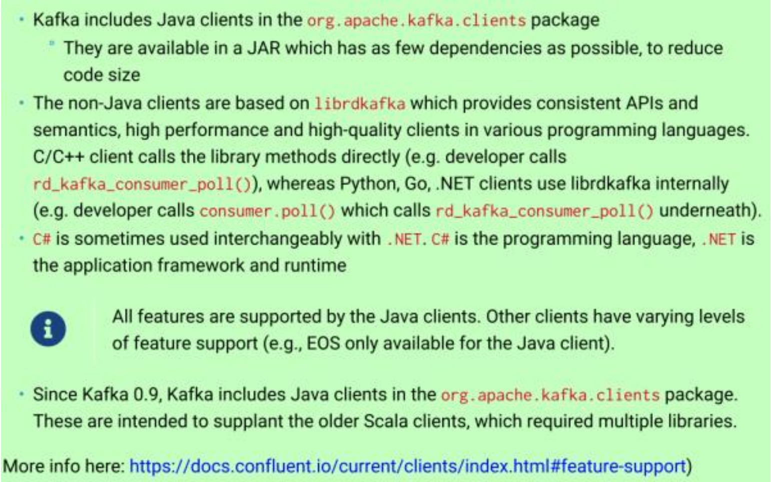
```
vcpkg install librdkafka
```

From <https://github.com/edenhill/librdkafka>



```
-- Building x86-windows-rel
-- Performing post-build validation
-- Performing post-build validation done
Stored binary cache: C:\Users\trans\AppData\Local\vcpkg\archives\dc\dc13921a443cf
Building package librdkafka[core]:x86-windows... done
Installing package librdkafka[core]:x86-windows...
Installing package librdkafka[core]:x86-windows... done
Elapsed time for package librdkafka:x86-windows: 22.28 s
```

librdkafka C++ библиотека



- Kafka includes Java clients in the `org.apache.kafka.clients` package
  - They are available in a JAR which has as few dependencies as possible, to reduce code size
- The non-Java clients are based on `librdkafka` which provides consistent APIs and semantics, high performance and high-quality clients in various programming languages. C/C++ client calls the library methods directly (e.g. developer calls `rd_kafka_consumer_poll()`), whereas Python, Go, .NET clients use librdkafka internally (e.g. developer calls `consumer.poll()` which calls `rd_kafka_consumer_poll()` underneath).
- `C#` is sometimes used interchangeably with `.NET`. `C#` is the programming language, `.NET` is the application framework and runtime

All features are supported by the Java clients. Other clients have varying levels of feature support (e.g., EOS only available for the Java client).

- Since Kafka 0.9, Kafka includes Java clients in the `org.apache.kafka.clients` package. These are intended to supplant the older Scala clients, which required multiple libraries.

More info here: https://docs.confluent.io/current/clients/index.html#feature-support)

вариант 2

https://mourya-g9.medium.com/setting-up-confluent-kafka-client-for-golang-with-vscode-7a27bb94220b
https://github.com/confluentinc/confluent-kafka-python

C:\ProgramFilesMy\vcpkg\installed\x86-windows\include\librdkafka

```
pip install --global-option=build_ext --global-option="-LC:\test\lib" --global-option="-IC:\test\include" confluent-kafka
```

```
pip install --global-option=build_ext --global-option="-LC:C:\ProgramFilesMy\vcpkg\installed\x86-windows\lib" --global-option="-IC:C:\ProgramFilesMy\vcpkg\installed\x86-windows\include" confluent-kafka
```

```
pip3 install confluent-kafka
pip install --no-binary :all: confluent-kafka
```

```
python -m pip install confluent-kafka
```

https://github.com/confluentinc/confluent-kafka-python
https://github.com/edenhill/librdkafka

https://coderoad.ru/39901163/%D0%A3%D1%81%D1%82%D0%B0%D0%BD%D0%BE%D0%B2%D0%BA%D0%B0-librdkafka-%D0%BD%D0%B0-Windows-%D0%B4%D0%BB%D1%8F-%D0%BF%D0%BE%D0%B4%D0%B4%D0%B5%D1%80%D0%B6%D0%BA%D0%B8-%D1%80%D0%B0%D0%B7%D1%80%D0%B0%D0%B1%D0%BE%D1%82%D0%BA%D0%B8-Python

https://github.com/confluentinc/confluent-kafka-python/blob/master/tools/windows-install-librdkafka.bat

```
rem Download and install librdkafka.redist from NuGet.
rem
rem For each available Python version copy headers and libs.

echo on
set librdkafka_version=%1
set outdir=%2

nuget install librdkafka.redist -version %librdkafka_version% -OutputDirectory %outdir%


rem Download required (but missing) system includes
curl -s https://raw.githubusercontent.com/chemeris/msinttypes/master/inttypes.h -o inttypes.h || exit /b 1
curl -s https://raw.githubusercontent.com/chemeris/msinttypes/master/stdint.h -o stdint.h || exit /b 1

for %%V in (27, 35, 36, 37) do (
   call tools\windows-copy-librdkafka.bat %librdkafka_version% c:\Python%%~V || exit /b 1
```

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```
rem Copy librdkafka headers and libs to Python paths for later use when building the module
set librdkafka_version=%1
set pypath=%2
set pypath64=%pypath%-x64
rem stdint.h and inttypes.h are only needed on Python2.7 which is using an older MSVC toolchain.
if exist %pypath% (
if "%pypath%" == "c:\Python27" (
copy stdint.h %pypath%\include\ || exit /b 1
copy inttypes.h %pypath%\include\ || exit /b 1
)
)
if exist %pypath64% (
if "%pypath64%" == "c:\Python27-x64" (
copy stdint.h %pypath64%\include\ || exit /b 1
copy inttypes.h %pypath64%\include\ || exit /b 1
)
)
rem Remove inttypes.h include from rdkafka.h until it has been removed from upstream
if exist %pypath% (
md %pypath%\include\librdkafka
findstr /V inttypes.h dest\librdkafka.redist.%librdkafka_version%\build\native\include\librdkafka\rdkafka.h > %pypath%\include\librdkafka\rdkafka.h
)
if exist %pypath64% (
md %pypath64%\include\librdkafka
findstr /V inttypes.h dest\librdkafka.redist.%librdkafka_version%\build\native\include\librdkafka\rdkafka.h > %pypath64%\include\librdkafka\rdkafka.h
)
rem Copy x86 libs and dlls
if exist %pypath% (
echo A | xcopy /F dest\librdkafka.redist.%librdkafka_version%\build\native\lib\win\x86\win-x86-Release\v120\librdkafka.lib %pypath%\libs\* || exit /b 1
echo A | xcopy /I /F /S dest\librdkafka.redist.%librdkafka_version%\runtimes\win-x86\native\* %pypath%\libs || exit /b 1
)
rem Copy x64 libs and dlls
if exist %pypath64% (
echo A | xcopy /F dest\librdkafka.redist.%librdkafka_version%\build\native\lib\win\x64\win-x64-Release\v120\librdkafka.lib %pypath64%\libs\* || exit /b 1
echo A | xcopy /I /F /S dest\librdkafka.redist.%librdkafka_version%\runtimes\win-x64\native\* %pypath64%\libs || exit /b 1
)
```

From <https://github.com/confluentinc/confluent-kafka-python/blob/master/tools/windows-copy-librdkafka.bat>

https://docs.microsoft.com/ru-ru/nuget/install-nuget-client-tools

confluent консьюмер

15 декабря 2020 г.   14:36

```python
from confluent_kafka import Consumer, KafkaError
print("Starting VP-Consumer (Python)")
c = Consumer({
    'bootstrap.servers': 'kafka:9092',
    'group.id': 'vp-consumer-group-python',
    'auto.offset.reset': 'earliest'
})
c.subscribe(['vehicle-positions'])
try:
    while True:
        msg = c.poll(1.0)
        if not msg:
            continue
        if msg.error():
            print("Consumer error: {}".format(msg.error()))
            continue
        print('Received message: {}'.format(msg.value().decode('utf-8')))
except:
    print("An exception occurred")
finally:
    c.close()
```

confluent продьюсер

15 декабря 2020 г. 14:36

kafka simple

21 октября 2020 г.   19:13

https://www.confluent.io/blog/introduction-to-apache-kafka-for-python-programmers/

kafka reactive client

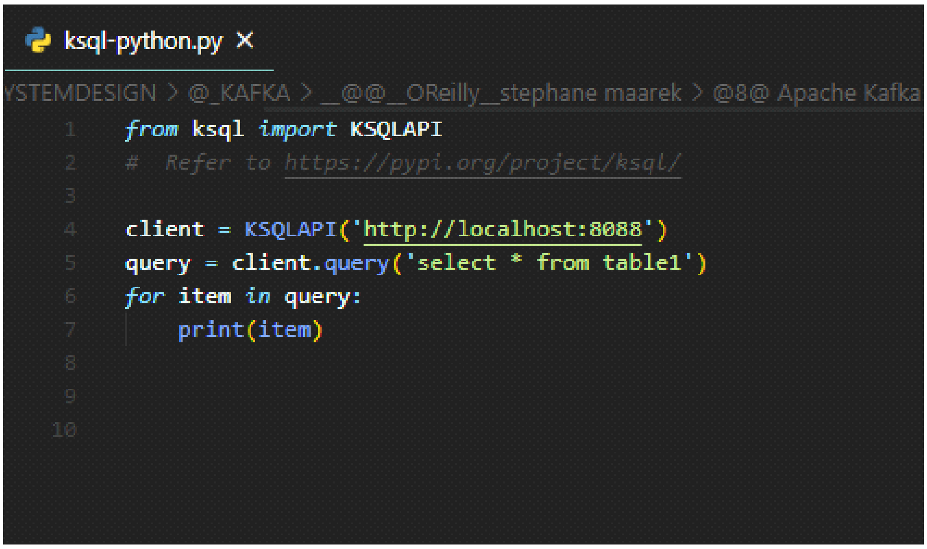
21 октября 2020 г. 19:14

https://github.com/ReactiveX/RxPY
https://developer.ibm.com/tutorials/transforming-a-kafka-application-to-be-reactive/
https://github.com/ReactiveX/RxPY

Реактивные микросервисы с Apache Kafka _ Денис Иванов (2ГИС) -2018-08-16.mp4

ksql PYTHON еще проще чем читать из очереди

9 декабря 2020 г. 23:16


ksql-python.py
YSTEMDESIGN > @_KAFKA > __@@__OReilly__stephane maarek > @8@ Apache Kafka

```
from ksql import KSQLAPI
#  Refer to https://pypi.org/project/ksql/

client = KSQLAPI('http://localhost:8088')
query = client.query('select * from table1')
for item in query:
    print(item)
```