



በዚህ ገጽ ላይ የሚገኙት ስልጠናዎች በ Google Analytics ላይ የሚገኙትን (የሰጡትን የሰጡትን) መረጃዎችን በሰጡት ስልጠናዎች ላይ ማሳተፍ ይቻላል።  
በዚህ ስልጠናዎች ላይ የሚገኙት ስልጠናዎች Clicky ላይ የሚገኙትን የሰጡትን መረጃዎች ማሳተፍ ይቻላል።  
በዚህ ስልጠናዎች ላይ የሚገኙት ስልጠናዎች Clicky ላይ የሚገኙትን የሰጡትን መረጃዎች ማሳተፍ ይቻላል።  
በዚህ ስልጠናዎች ላይ የሚገኙት ስልጠናዎች Preferences ላይ የሚገኙትን የሰጡትን መረጃዎች ማሳተፍ ይቻላል።  
በዚህ ስልጠናዎች ላይ የሚገኙት ስልጠናዎች Site key ላይ የሚገኙትን የሰጡትን መረጃዎች ማሳተፍ ይቻላል።  
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በዚህ ስልጠናዎች ላይ የሚገኙት ስልጠናዎች API ላይ የሚገኙትን የሰጡትን መረጃዎች ማሳተፍ ይቻላል።

## የሰጡትን መረጃዎች ማሳተፍ

በዚህ ስልጠናዎች ላይ የሚገኙት ስልጠናዎች Kafka-mesos ላይ የሚገኙትን የሰጡትን መረጃዎች ማሳተፍ ይቻላል።  
በዚህ ስልጠናዎች ላይ የሚገኙት ስልጠናዎች Mesos Master ላይ የሚገኙትን የሰጡትን መረጃዎች ማሳተፍ ይቻላል።  
በዚህ ስልጠናዎች ላይ የሚገኙት ስልጠናዎች kafka-mesos.sh ላይ የሚገኙትን የሰጡትን መረጃዎች ማሳተፍ ይቻላል።

```
$ ./kafka-mesos.sh topic add admintome-pages --broker=0 --api=http://mslave2.admintome.lab:7000  
kafka-mesos ላይ የሚገኙትን የሰጡትን መረጃዎች ማሳተፍ ይቻላል።  
:የሰጡትን መረጃዎች ማሳተፍ ይቻላል።  
kafka-mesos.sh topic list --api=http://mslave2.admintome.lab:7000/ $
```

```
topics:  
name: __consumer_offsets  
partitions: 0:[0], 1:[0], 2:[0], 3:[0], 4:[0], 5:[0], 6:[0], 7:[0], 8:[0], 9:[0], 10:[0], 11:[0], 12:[0], 13:[0],  
14:[0], 15:[0], 16:[0], 17:[0], 18:[0], 19:[0], 20:[0], 21:[0], 22:[0], 23:[0], 24:[0], 25:[0], 26:[0], 27:[0],  
28:[0], 29:[0], 30:[0], 31:[0], 32:[0], 33:[0], 34:[0], 35:[0], 36:[0], 37:[0], 38:[0], 39:[0], 40:[0], 41:[0],  
42:[0], 43:[0], 44:[0], 45:[0], 46:[0], 47:[0], 48:[0], 49:[0]  
options: segment.bytes=104857600,cleanup.policy=compact,compression.type=producer  
name: admintome  
partitions: 0:[0]  
name: admintome-pages  
[partitions: 0:[0]
```

በዚህ ስልጠናዎች ላይ የሚገኙት ስልጠናዎች Python ላይ የሚገኙትን የሰጡትን መረጃዎች ማሳተፍ ይቻላል።  
በዚህ ስልጠናዎች ላይ የሚገኙት ስልጠናዎች JSON ላይ የሚገኙትን የሰጡትን መረጃዎች ማሳተፍ ይቻላል።  
በዚህ ስልጠናዎች ላይ የሚገኙት ስልጠናዎች Clicky API ላይ የሚገኙትን የሰጡትን መረጃዎች ማሳተፍ ይቻላል።

```
Virtualenv ላይ የሚገኙትን የሰጡትን መረጃዎች ማሳተፍ ይቻላል።  
Python 3 ላይ የሚገኙትን የሰጡትን መረጃዎች ማሳተፍ ይቻላል።  
mkdir ~/Development/python/venvs $  
$ mkdir ~/Development/python/site-stats-intake  
$ cd ~/Development/python/site-stats-intake  
$ virtualenv ../venvs/intake  
$ source ../venvs/intake/bin/activate  
(intake) $ pip install kafka-python requests  
(intake) $ pip freeze > requirements.txt
```

## የሰጡትን መረጃዎች ማሳተፍ



```

value_serializer=lambda v: json.dumps(v).encode('utf-8'),
bootstrap_servers=kafka_brokers
)

```

```

def send_page_data(self, json_data):

```

```

( self.producer.send('admintome-pages', json_data

```

Python KafkaProducer 클래스를 사용하여 Kafka에 메시지를 보내는 방법입니다.
 kafka-python 라이브러리를 사용하여 Kafka를 연결하고,
 Kafka Topic에 메시지를 보냅니다.

```

from kafka import KafkaProducer

```

```

class MyKafka(object):

```

```

:( def __init__(self, kafka_brokers

```

KafkaProducer 클래스를 상속받아 MyKafka 클래스를 정의합니다.
 \_\_init\_\_ 메서드에서 kafka\_brokers를 초기화합니다.

```

[ "broker:ip", "broker:ip" ]

```

```

:mslave1.admintome.lab:31000 kafka_brokers = [
[ "mslave1.admintome.lab:31000" ]

```

JSON 데이터를 문자열로 인코딩하여 KafkaProducer에 보냅니다.
 value\_serializer를 사용하여 json.dumps(v).encode('utf-8')로 인코딩합니다.

```

value_serializer=lambda v: json.dumps(v).encode('utf-8'),
bootstrap_servers=kafka_brokers
)

```

```

self.producer = KafkaProducer(

```

```

value_serializer=lambda v: json.dumps(v).encode('utf-8'),
bootstrap_servers=kafka_brokers
)

```

admintome-pages topic에 메시지를 보냅니다.
 send\_page\_data 메서드를 호출하여 메시지를 보냅니다.

```

def send_page_data(self, json_data):

```

```

( self.producer.send('admintome-pages', json_data

```

Main 클래스에서 send\_page\_data 메서드를 호출합니다.

```

)

```



Kafka Producer 실행 결과

[Kafka Producer 실행 결과](#)

## Main 클래스

```

from clicky import Clicky
from mykafka import MyKafka
import logging
import time
import os
from logging.config import dictConfig
class Main(object):
def __init__(self):

```

```

)

```

```

)

```

```

)

```

```

)

```

```

)

```

```

)

```

```

)

```

```

        if 'KAFKA_BROKERS' in os.environ:
            kafka_brokers = os.environ['KAFKA_BROKERS'].split(',')
        else:
            raise ValueError('KAFKA_BROKERS environment variable not set')
        if 'SITE_ID' in os.environ:
            self.site_id = os.environ['SITE_ID']
        else:
            raise ValueError('SITE_ID environment variable not set')
        if 'SITEKEY' in os.environ:
            self.sitekey = os.environ['SITEKEY']
        else:
            raise ValueError('SITEKEY environment variable not set')
        logging_config = dict(
            version=1,
            formatters={
                'f': {'format':
                    '%(asctime)s %(name)-12s %(levelname)-8s %(message)s'}
            },
            handlers={
                'h': {'class': 'logging.StreamHandler',
                    'formatter': 'f',
                    'level': logging.DEBUG}
            },
            root={
                'handlers': ['h'],
                'level': logging.DEBUG,
            },
        )
        self.logger = logging.getLogger(
            dictConfig(logging_config)
        self.logger.info("Initializing Kafka Producer")
        self.logger.info("KAFKA_BROKERS={0}".format(kafka_brokers))
        self.mykafka = MyKafka(kafka_brokers)
        def init_clicky(self):
            self.clicky = Clicky(self.site_id, self.sitekey)
        self.logger.info("Clicky Stats Polling Initialized")
        def run(self):
            self.init_clicky()
            starttime = time.time()
            while True:
                data = self.clicky.get_pages_data()
                self.logger.info("Successfully polled Clicky pages data")
                self.mykafka.send_page_data(data)
                self.logger.info("Published page data to Kafka")
                time.sleep(300.0 - ((time.time() - starttime) % 300.0))
            if __name__ == "__main__":
                logging.info("Initializing Clicky Stats Polling")
                () main = Main
                ()main.run

```

0000 0000 .0000000 0000 Marathon 00 00 00 000 00 00 0000 0000 00000000 00 00000 0000 0000 000000 0000  
 00 clicky 00 0000 site key 0 site id 0000 0000 00000000 00000000 0000 00 00 0000000 0000000 0000 00 00

Clicky.py 文件内容如下：  
.env 文件内容如下：

```
if 'KAFKA_BROKERS' in os.environ:  
    kafka_brokers = os.environ['KAFKA_BROKERS'].split(',')  
else:  
    raise ValueError('KAFKA_BROKERS environment variable not set')  
if 'SITE_ID' in os.environ:  
    self.site_id = os.environ['SITE_ID']  
else:  
    raise ValueError('SITE_ID environment variable not set')  
if 'SITEKEY' in os.environ:  
    self.sitekey = os.environ['SITEKEY']  
else:  
    raise ValueError('SITEKEY environment variable not set')
```

Clicky.py 文件内容如下：  
.env 文件内容如下：

```
def run(self):  
    self.init_clicky()  
    starttime = time.time()  
    while True:  
        data = self.clicky.get_pages_data()  
        self.logger.info("Successfully polled Clicky pages data")  
        self.mykafka.send_page_data(data)  
        self.logger.info("Published page data to Kafka")  
        ((time.sleep(300.0 - ((time.time() - starttime) % 300.0
```

Clicky.py 文件内容如下：  
.env 文件内容如下：

```
intake) $ export KAFKA_BROKERS="mslave1.admintome.lab:31000"  
    (intake) $ export SITE_ID="{your site id}"  
    (intake) $ export SITEKEY="{your sitekey}"  
    (intake) $ python main.py
```

```
2018-06-25 15:34:32,259 root INFO Initializing Kafka Producer  
2018-06-25 15:34:32,259 root INFO KAFKA_BROKERS=['mslave1.admintome.lab:31000']  
2018-06-25 15:34:32,374 root INFO Clicky Stats Polling Initialized  
2018-06-25 15:34:32,754 root INFO Successfully polled Clicky pages data  
2018-06-25 15:34:32,755 root INFO Published page data to Kafka
```

Clicky.py 文件内容如下：  
.env 文件内容如下：

```
: 可以在 GitHub 上找到 Clicky 的源代码：  
https://github.com/admintome/clicky-state-intake
```

Marathon 部署 Clicky 的步骤如下：  
1. 创建 Dockerfile 文件：  
FROM python:3  
WORKDIR /usr/src/app  
COPY requirements.txt ./  
RUN pip install --no-cache-dir -r requirements.txt  
COPY . .

```
FROM python:3  
WORKDIR /usr/src/app  
COPY requirements.txt ./  
RUN pip install --no-cache-dir -r requirements.txt  
COPY . .
```

```

[ "CMD [ "python", "./main.py
.docker build -t {your docker hub username}site-stats-intake $
Mesos Slaves . docker build -t {your docker hub username}site-stats-intake $
: Docker Hub docker push -t admintome/site-stats-intake $
Mesos slave docker pull admintome/site-stats-intake $
Marathon Marathon GUI
http://mesos1.admintome.lab:8080

```

```

: JSON Create Application
}
id": "site-stats-intake",
"cmd": null,
"cpus": 1,
"mem": 128,
"disk": 0,
"instances": 1,
"container": {
"docker": {
"image": "admintome/site-stats-intake"
},
"type": "DOCKER"
},
"networks": [
{
"mode": "host"
}
],
"env": {
"KAFKA_BROKERS": "192.168.1.x:port",
"SITE_ID": "{your site_id}",
"SITEKEY": "{your sitekey"
}
}

```

env SITEKEY KAFKA\_BROKERS, SITE\_ID

site-stats-intake

```

consumer.py
import sys
from kafka import KafkaConsumer
consumer = KafkaConsumer('admintome-pages',
bootstrap_servers="mslave1.admintome.lab:31000",
auto_offset_reset='earliest')

```

```
try:
    for message in consumer:
        print(message.value)
except KeyboardInterrupt:
    () sys.exit
```

Bootstrap-Servers ...  
JSON ...

```
intake) $ python consumer.py
b'{"type": "pages", "dates": [{"date": "2018-06-25", "items": [{"value": "145", "value_percent":
"43.2", "title": "Kafka Tutorial for Fast Data Architecture - AdminTome Blog", "stats_url":
"http://clicky.com/stats/visitors?site_id=101045340&date=2018-06-25&href=%2Fblog%2Fkafka-tut
orial-for-fast-data-architecture%2F", "url":
...,{"http://www.admintome.com/blog/kafka-tutorial-for-fast-data-architecture
```

...

```
:
:
:
:
:
12:30 - 06/04/1398
:
```

[Main](#) - [MyKafka](#) - [Kafka Python](#)

<https://www.shabakeh-mag.com/workshop/15619/%D8%B1%D8%A7%D9%87%D9%86%D9%85:%D8%A7%DB%8C-%D8%A8%D9%87%E2%80%8C%DA%A9%D8%A7%D8%B1%DA%AF%DB%8C%D8%B1%DB%8C-kafka-python-%D8%A8%D8%B1%D8%A7%DB%8C-%D9%BE%D8%B1%D8%AF%D8%A7%D8%B2%D8%B4-%D8%B3%D8%B1%DB%8C%D8%B9-%D8%AF%D8%A7%D8%AF%D9%87%E2%80%8C%D9%87%D8%A7>