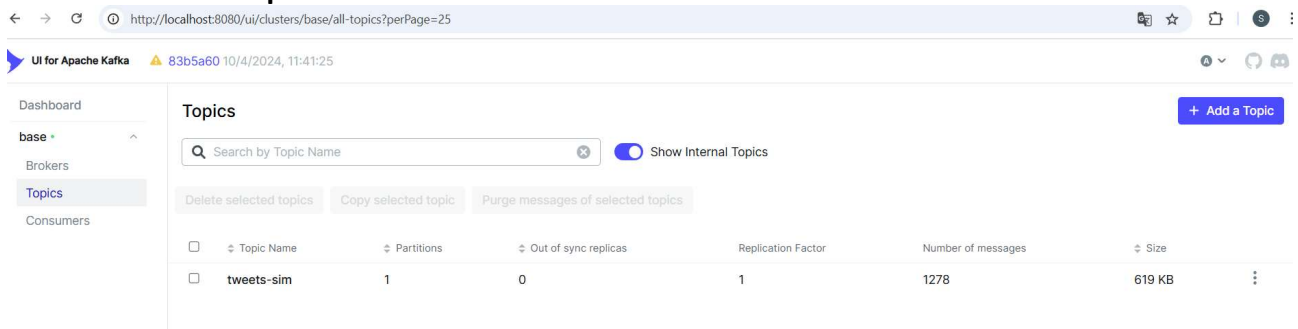


Paso 1.

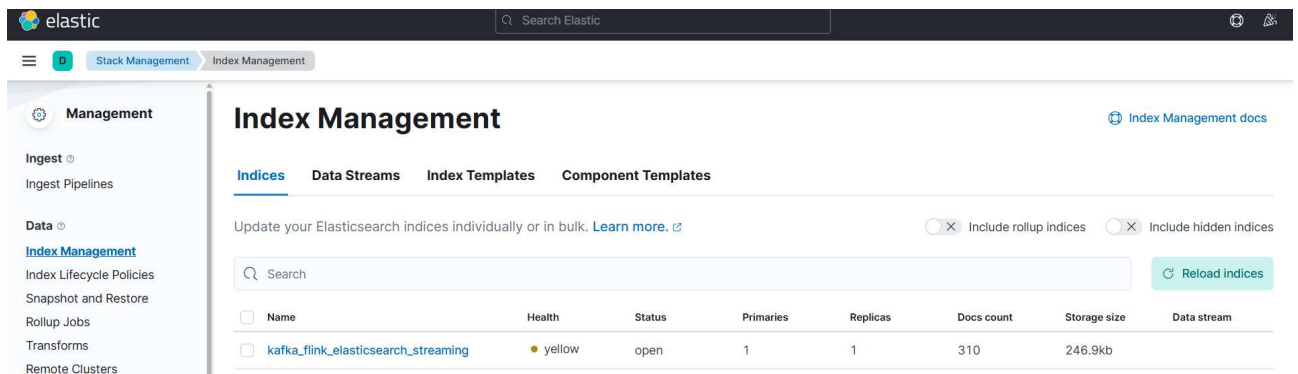
Crear en Kafka el topic tweets-sim



Paso 2.

Crear en Elasticsearch-Kibana el índice

Acceder a la opción de menú Stack Management y seleccionar la opción de menú Index Management. Crear el índice con el nombre **kafka_flink_elasticsearch_streaming**



Paso 3.

Visual Studio Code "03KafkaFlinkElasticSearchKibana"

Paso 3.1.

Realizar los siguientes pasos del fichero readme:

```
docker exec -it docker-jobmanager-1 bash
cd /tmp/scripts/
```

Paso 3.2.

Acceder a la carpeta con el comando **cd 92kafkaProducer**

Ejecutar **python 01kafkaTweetsProducerSim.py**

```
{
  'id_str': '1665726507044466691',
  'username': 'kim',
  'tweet': 'RT @fairyrashmi: if reincarnation is real, I wonder how many people stare at their own art in museums, listen to music they make in a diffe...',
  'location': '',
  'created_at': '2023-06-05T14:25:21+00:00',
  'retweet_count': 21125,
  'favorite_count': 0,
  'followers_count': 305,
  'lang': 'en',
  'coordinates': None
}
```

Paso 3.3

Abre una nueva terminal y ejecutar de nuevo los pasos del fichero de readme:

```
docker exec -it docker-jobmanager-1 bash  
cd /tmp/scripts/
```

Acceder a la carpeta con el comando **cd 03kafkaFlinkElasticSearchKibana**

Ejecutar comando **python 01Kafka_flink_streaming.py**

```
Conexión exitosa a Kafka. El tópicos 'tweets-sim' existe.  
Source Table Schema:  
(  
  `id_str` STRING,  
  `username` STRING,  
  `tweet` STRING,  
  `location` STRING,  
  `created_at` STRING,  
  `retweet_count` BIGINT,  
  `followers_count` BIGINT,  
  `lang` STRING,  
  `coordinates` STRING  
)  
Result Table:  
Print Result Table:
```

Paso 3.4.

Abre una nueva terminal y ejecutar de nuevo los pasos del fichero de readme:

```
docker exec -it docker-jobmanager-1 bash  
cd /tmp/scripts/
```

Acceder a la carpeta con el comando **cd 03kafkaFlinkElasticSearchKibana**

Ejecutar el comando **python 02kafka_flink_elasticsearch_streaming.py**

```
Conexión exitosa a Elasticsearch  
El índice 'kafka_flink_elasticsearch_streaming' ya existe.  
Source Table Schema:  
(  
  `id_str` STRING,  
  `username` STRING,  
  `tweet` STRING,  
  `location` STRING,  
  `created_at` STRING,  
  `retweet_count` BIGINT,  
  `followers_count` BIGINT,  
  `lang` STRING,
```

Paso 4.

En la opción de menú de Kibana Discover:

The screenshot displays the Kibana Discover interface. At the top, the 'elastic' logo and a search bar are visible. Below the header, the 'Discover' tab is selected. The left sidebar contains a search bar, a filter section with 'kafka*' selected, and a list of available fields including _id, _index, _score, _type, created_at, followers_count, id_str, lang, location, retweet_count, tweet, and username. The main area shows 310 hits. The first four documents are displayed, each with a list of fields and their values. The documents are sorted by relevance, with the first document having a score of 1. The documents contain information about tweets, including the user's name, location, and the tweet's content.

Document
<p>> created_at: Jun 5, 2023 @ 16:25:21.000 followers_count: 305 id_str: 1665726507044466691 lang: en location: (empty) retweet_count: 21,125 tweet: RT @fairyrashmi: if reincarnation is real, I wonder how many people stare at their own art in museums, listen to music they made in a diffe... username: kim</p> <p>_id: abFpwJYBHP5AyrdnUWww _index: kafka_flink_elasticsearch_streaming _score: 1 _type: _doc</p>
<p>> created_at: Jun 5, 2023 @ 16:25:21.000 followers_count: 255 id_str: 1665726506591571968 lang: en location: under the canyon moon retweet_count: 63,200</p> <p>tweet: RT @bts_bighit: 'Lilith (ft. SUGA of BTS) (Diablo IV Anthem)' Release #Lilith #SUGA #슈가 #Halsey @halsey ▶일본: https://t.co/woTVJJK3rD ▶지니:...</p> <p>username: lou _id: arFpwJYBHP5AyrdnVWYq _index: kafka_flink_elasticsearch_streaming _score: 1 _type: _doc</p>
<p>> created_at: Jun 5, 2023 @ 16:25:21.000 followers_count: 521 id_str: 1665726506180509697 lang: en location: Kadiri, India retweet_count: 9 tweet: RT @MediaYouwe: Here's the promo of a beautiful melody that will tug at your heartstrings, "<i>Kalaya Nijama</i>" from #CallingSahasra💖🎵https://t.co/8BBJECUCX username: KHAMAD</p> <p>_id: a7FpwJYBHP5AyrdnWYk _index: kafka_flink_elasticsearch_streaming _score: 1 _type: _doc</p>
<p>> created_at: Jun 5, 2023 @ 16:25:21.000 followers_count: 564 id_str: 1665726506016882689 lang: en location: Accra, Ghana retweet_count: 10 tweet: RT @JoyNewsOnTV: Lasmid leaves Highly Spiritual Music - Kaywa confirms #JoyNews https://t.co/8BBJECUCX https://t.co/zwKPAagIP5 username: Biggest Apple</p> <p>_id: bLFpwJYBHP5AyrdnXWYw _index: kafka_flink_elasticsearch_streaming _score: 1 _type: _doc</p>
<p>> created_at: Jun 5, 2023 @ 16:25:21.000 followers_count: 6 id_str: 1665726505496764420 lang: en location: (empty) retweet_count: 99 tweet: RT @KnjMyLife: 'Lilith (ft. SUGA of BTS) (Diablo IV Anthem)' Release 일본: https://t.co/GKYmAMEKSn 지니: https://t.co/5Mk9E4vrQA YouTube Mus... username: LK125</p>