NiFi TP 5 DataRouting
Johny Lin ESILV Promo 2021
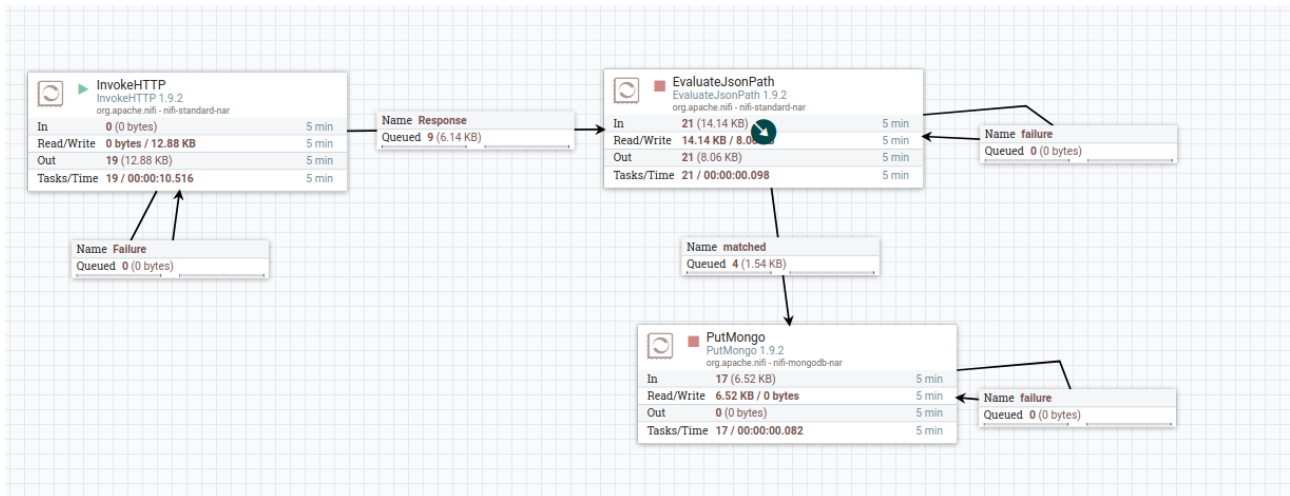
Processor Details

	SETTINGS	SCHEDULING	**PROPERTIES**	COMMENTS

Required field

Property		Value
HTTP Method	❓	GET
Remote URL	❓	http://api.weatherstack.com/current?access_key=dd1e81...
SSL Context Service	❓	No value set
Connection Timeout	❓	5 secs
Read Timeout	❓	15 secs
Include Date Header	❓	True
Follow Redirects	❓	True
Attributes to Send	❓	No value set
Basic Authentication Username	❓	No value set
Basic Authentication Password	❓	No value set
Proxy Configuration Service	❓	No value set
Proxy Host	❓	No value set
Proxy Port	❓	No value set
Proxy Type	❓	http

OK

Configure Processor

	SETTINGS	SCHEDULING	**PROPERTIES**	COMMENTS

Required field   ➕

Property		Value	
Destination	❓	flowfile-content	
Return Type	❓	json	
Path Not Found Behavior	❓	warn	
Null Value Representation	❓	empty string	
current	❓	$.current	🗑

Configure Processor

SETTINGS | SCHEDULING | PROPERTIES | COMMENTS

Required field

Property		Value
Client Service	❓	No value set
Mongo URI	❓	mongodb://mongo:27017
Mongo Database Name	❓	weather
Mongo Collection Name	❓	paris
SSL Context Service	❓	No value set
Client Auth	❓	REQUIRED
Mode	❓	insert
Upsert	❓	false
Update Query Key	❓	No value set
Update Query	❓	No value set
Update Mode	❓	With whole document
Write Concern	❓	ACKNOWLEDGED
Character Set	❓	UTF-8

CANCEL | APPLY

2 Docker compose : Un pour **TP5 NiFi e**t un autre **TP4 Mongodb/Mongodbexpress**

```
1   version: '3.7'
2   services:
3
4     nifi:
5       image: "apache/nifi:1.9.2"
6       hostname: "nifi"
7       environment:
8         NIFI_WEB_HTTP_PORT: "8080"
9       ports:
10        - "8083:8080"
11      volumes :
12        - "./input:/input"
13        - "./output:/output"
14      networks:
15        - iot-labs
16      labels:
17        NAME: "nifi"
18
19    networks:
20      iot-labs:
21        external: true
```

```
1   version: '3.1'
2
3   services:
4     mongo:
5       image: mongo:4.2.0-bionic
6       hostname: "mongo"
7       restart: always
8       labels:
9         NAME: "mongo"
10      networks:
11        - iot-labs
12      ports:
13        - 27017:27017
14
15    mongo-express:
16      image: mongo-express:0.49.0
17      hostname: "mongo_express"
18      restart: always
19      ports:
20        - 8081:8081
21      environment:
22        ME_CONFIG_MONGODB_SERVER: mongo
23      labels:
24        NAME: "mongo_express"
25      networks:
26        - iot-labs
27
28    networks:
29      iot-labs:
30        external: true
```

Mongodb Express : http://localhost:8081/

Mongo Express

Databases			Database Name	+ Create Database
👁 View	admin			🗑 Del
👁 View	config			🗑 Del
👁 View	local			🗑 Del
👁 View	weather			🗑 Del

Créer une database weather → une collection Paris

Puis lancer les processeurs NiFi.
Les données sont filtrées par le evaluate json, seul l'objet current est récupéré par le processeur pour être envoyer au serveur mongodb.

{"request":{"type":"City","query":"Paris, France","language":"en","unit":"m"},"location":
{"name":"Paris","country":"France","region":"Ile-de-
France","lat":"48.867","lon":"2.333","timezone_id":"Europe\/Paris","localtime":"2020-11-15
14:06","localtime_epoch":1605449160,"utc_offset":"1.0"},"current":{"observation_time":"01:06
PM","temperature":14,"weather_code":296,"weather_icons":
["https:\/\/assets.weatherstack.com\/images\/wsymbols01_png_64\/wsymbol_0017_cloudy_with_lig
ht_rain.png"],"weather_descriptions":["Light Rain,
Rain"],"wind_speed":30,"wind_degree":200,"wind_dir":"SSW","pressure":1003,"precip":1,"humidi
ty":88,"cloudcover":75,"feelslike":12,"uv_index":3,"visibility":10,"is_day":"yes"}}

Les données brut de la requete de l'api weather :
Les données filtrées envoyés sur le serveur mongodb

🔵 Mongo Express   Database: weather ▾ › Collection: paris ▾ › Document 5fb1250f2ab79c003e58b3d9

Editing Document: 5fb1250f2ab79c003e58b3d9

← Back   ✏ Save

```
1  {
2      "_id": ObjectID("5fb1250f2ab79c003e58b3d9"),
3      "observation_time": "12:50 PM",
4      "temperature": 14,
5      "weather_code": 296,
6      "weather_icons": [
7          "https://assets.weatherstack.com/images/wsymbols01_png_64/wsymbol_0017_cloudy_with_light_rain.png"
8      ],
9      "weather_descriptions": [
10         "Light Rain, Rain"
11     ],
12     "wind_speed": 31,
13     "wind_degree": 190,
14     "wind_dir": "S",
15     "pressure": 1003,
16     "precip": 0,
17     "humidity": 88,
18     "cloudcover": 75,
19     "feelslike": 12,
20     "uv_index": 4,
21     "visibility": 10,
22     "is_day": "yes"
23 }
```

← Back   ✏ Save

🗑 Delete