Pythonist (https://soumilshah1995.blogspot.com/)

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Getting started with Elastic Search and Python

Getting started with Elastic Search and Python

- Hello! I'm Soumil Nitin Shah, a Software and Hardware Developer based in New York City. I have completed by Bachelor in Electronic Engineering and my Dout Computer and Electrical Engineering. I Develop Python Based Cross Platform Desktop Application , Webpages , Software, REST API, Database and much mor than 2 Years of Experience in Python
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Step 1: Define the Imports

In [3]:

```
try:
    import os
    import sys

    import elasticsearch
    from elasticsearch import Elasticsearch
    import pandas as pd

    print("All Modules Loaded ! ")
except Exception as e:
    print("Some Modules are Missing {}".format(e))
```

```
All Modules Loaded !
```

Terminology

- what is Index ? Well Index is similar to Database Name
- what is Type ? Type is similar to Table Name

In [6]:

```
def connect_elasticsearch():
    es = None
    es = Elasticsearch([{'host': 'localhost', 'port': 9200}])
    if es.ping():
        print('Yupiee  Connected ')
    else:
        print('Awww it could not connect!')
    return es
es = connect_elasticsearch()
```

```
Yupiee  Connected
```

Creating a index

In [8]:

```
es.indices.create(index='test-index', ignore=400)
es.indices.create(index='test-index1', ignore=400)
```

Out[8]:

```
{'acknowledged': True, 'shards_acknowledged': True, 'index': 'test-index1'}
```

Getting all Index

In [62]:

```
res =  es.indices.get_alias("*")
for Name in res:
    print(Name)
```

```
.kibana_task_manager_1
.kibana_1
house
.apm-agent-configuration
profile
```

In [14]:

```
indices=es.indices.get_alias().keys()
for Name in indices:
    print(Name)
```

```
.apm-agent-configuration
people
test-index1
.kibana_task_manager_1
kibana_sample_data_flights
.kibana_1
test-index
```

Deleting all Index

In [69]:

```
indices=es.indices.get_alias().keys()

for Name in indices:
    print("Deleted {} ".format(Name))
    es.indices.delete(index=Name, ignore=[400, 404])
```

```
Deleted person
Deleted profile
```

In [16]:

```
res =  es.indices.get_alias("*")
for Name in res:
    print(Name)
```

- Hence proved we deleted all the index we had quite easy lets move foreward

Lets create a Database and a Table and insert a Data

In [22]:

```
e1={
    "first_name":"Soumil",
    "last_name":"Shah",
    "age": 24,
    "about": "Full stack Software Developers ",
    "interests": ['Youtube','music'],
}

e2={
    "first_name":"nitin",
    "last_name":"Shah",
    "age": 58,
    "about": "Soumil father ",
    "interests": ['Stock','Relax'],
}
```

In [23]:

```
es.indices.create(index='person', ignore=400)

res1 = es.index(index='person',doc_type='people', body=e1)
res2 = es.index(index='person',doc_type='people', body=e2)

print("RES1 : {}".format(res1))
print("RES2 : {}".format(res2))
```

```
RES1 : {'_index': 'person', '_type': 'people', '_id': 'kURRtW8B6cld-aTgNM-L', '_version': 1, 'result': 'created', '_shards': {'total'
2, 'successful': 1, 'failed': 0}, '_seq_no': 1, '_primary_term': 1}
RES2 : {'_index': 'person', '_type': 'people', '_id': 'kkRRtW8B6cld-aTgNM-w', '_version': 1, 'result': 'created', '_shards': {'total'
2, 'successful': 1, 'failed': 0}, '_seq_no': 2, '_primary_term': 1}
```

Get all elements

In [32]:

```
res =  es.indices.get_alias("*")
for Name in res:
    print(Name)
```

```
person
```

In [42]:

```
query={"query" : {
        "match_all" : {}
    }}

res = es.search(index="person", body=query, size=1000)
```

at January 18, 2020 (2020-01-18T09:34:00-08:00) (https://soumilshah1995.blogspot.com/2020/01/getting-started-with-elastic-search-and.html)

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good work!!!

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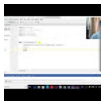

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