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What is ElasticSearch?

- It indexes all fields on a document and they become instantly searchable. https://powcoder.com
- Elasticsearch uses a data structure called an inverted index => very fast full-text searches. An inverted index lists every unique words to an inverted index lists every unique words to any to provide the fifties all of the documents each word occurs in.

Why use it?

- Elasticsearch is fast.
- Provides DSL (Damain specific langua 19) based on 150N to define queries.
- One of the major use category 5. Full text search Example: leg processing, text file searches
- Distributed by nature. Add WeChat powcoder
- Comes with a wide set of features (data rollups and index lifecycle management).
- Easily configurable with Kibana and therefore easy to visualize data.

Access control

- Public Access (Not secure)
- IP Based Access

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AWS IAM role/user based access. (Attach a policy to your ES domain and use AWS signature version 4

signing process to access it)

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Use your ElasticSearch cluster from inside a VPC (Most ideal)

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Authorize and query data

```
# https://search-demo-wsro5b325brukyrepuugtbuiry.us-east-2.es.amazonaws.com/
from elasticsearch import Elasticsearch, RequestsHttpConnection
from requests aws4auth import AWS4Auth
import boto3
def get_elastic_instance():
    host = 'search-demo-wsro5b325brukyrepuugtbuiry.us-east-2.es.amazonaws.com'
    region = 'us-east-2'
   service = 'es'
   credentials = boto3.Session().get_credentials()
   awsauth = AWS4Auth(credentials.access_key, credentials.secret_key, region, service, session_token=credentials.token)
   es = Elasticsearch(
       hosts=[{'host': host, 'port': 4/3 Idd WeChat powcoder
       http auth=awsauth,
       use ssl=True,
       verify certs=True,
       connection_class=RequestsHttpConnection
    return es
```

Authorize and query data

```
def query_elastic(key, value):
   es = get_elastic_instance()
   response = es.search(index="accounts",
                      body={
                    Assignment Project Exam Help
                                 key: value
                         https://powcoder.com
   res = response['hits']['hits']
return res Add WeChat powcoder
def lambda_handler(event, context):
   key = "address"
   value = "mill lane"
   res = query_elastic(key, value)
   return {
       'statusCode': 200,
       'body': res
```

Demo

- 1. https://fj2ys6vtze.execute-api.us-east-2.amazonaws.com/demo
- 2. https://search-demo-wsro5b325brukyrepuugtbuiry.us-east-2.es.amazonaws.com
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 https://search-demo-wsro5b925brukyrepuugtbuiry.us-east-2.es.amazonaws.com/_p
 luqin/kibana/app/kibana#/discover?
 - https://powcoder.com https://us-east-2.console.aws.amazon.com/es/home?region=us-east-2#domain:res
- 4. https://us-east-2.console.aws.amazon.com/es/home?region=us-east-2#domain:res-ource=demo;action=dashboard;tab=undefined

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Query examples:

```
{ "query": { "match": { "state" : "NY" } } } 
 { "query": { "wildcard": { "email": { "value":"*pheast.com" } } }}
```

References

https://www.elastic.co/what-is/elasticsearch

https://www.elastic.co/guide/en/elasticsearch/refere pre/surrent/ge in c-started. It he lasticsearch/refere pre/surrent/ge in c-started. It has the lastic pre-surrent/ge in c-star

https://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-request-signing.html#es-request-signing https://powcoder.com -python

https://docs.aws.amazon.com/elasticsearch-service/latest/developerquide/es-ac.html

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Multi match query: https://www.elastic.co/guide/en/elasticseareh/reference/current/query-dsl-multi-match-query.html

Wild card query: https://www.elastic.co/guide/en/elasticsearch/reference/current/guery-dsl-wildcard-guery.html