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Reshma Asharaf Beena

# What is Elasticsearch?

- Elasticsearch is a distributed, open source search and analytics engine for all types of data, including textual, numerical, geospatial, structured, and unstructured data

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ble. • It indexes all fields on a d

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- Elasticsearch uses a data structure called an inverted index to support full-text searches. An inverted index lists every unique word that appears in any of the documents each word occurs in.

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# Why use it?

- Elasticsearch is fast.
- Provides DSL (Domain specific language) based on JSON to define queries.

processing, text file search etc. One of the major use cases

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- Distributed by nature.
- Comes with a wide set of features (data rollups and index lifecycle management).
- Easily configurable with Kibana and therefore easy to visualize data.

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# Access control

- Public Access (Not secure)
- IP Based Access
- AWS IAM role/user based access. (Attach a policy to your ES domain and use AWS signature version 4 signing process to access i
- Use your ElasticSearch clu

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Authorize and query data

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# Demo

1. <https://fj2ys6vtze.execute-api.us-east-2.amazonaws.com/demo>
2. <https://search-demo-wsro5b325brukyrepuugtbuiry.us-east-2.es.amazonaws.com>
3. [https://search-demo-wsro5b325brukyrepuugtbuiry.us-east-2.es.amazonaws.com/\\_p\\_login/kibana/app/kibana#/di](https://search-demo-wsro5b325brukyrepuugtbuiry.us-east-2.es.amazonaws.com/_p_login/kibana/app/kibana#/di)
4. <https://us-east-2.console.aws.amazon.com/resourc>  
<https://us-east-2.console.aws.amazon.com/resourc?source=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/reference/current/getting-started.html>

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

[-python](#)

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<https://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-request-signing.html>

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

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