Elasticsearch By Dinesh Amatya

Elasticsearch

- Built on top of Lucene
- Document oriented
- Scalable
- (Near) Real Time Search
- Schema free
- JSON document

Configuring Elastic

ElasticHome/config/elasticsearch.yml

- cluster.name: clusterName
- index.number_of_replicas: 0
- path.data: /path/to/data

Starting Elastic

ElasticHome/bin/

./elasticsearch

Creating Index

curl -XPUT localhost:9200/testdb

Writing Document

```
curl -XPUT localhost:9200/testdb/testtbl/1 -d '{
"name":"peter",
"age":12,
"active_status":[1,2,3],
"gender":"M"
}'
```

Updating document

```
curl -XPOST 'localhost:9200/testdb/testtbl/1/_update?pretty' -d '
{
  "doc": { "name": "peter 123","age":10 }
}'
```

Deleting document

```
curl -XDELETE 'localhost:9200/testdb/testtbl/2?pretty'
curl -XDELETE 'localhost:9200/testdb/testtbl/_query?pretty' -d '
{
   "query": { "match": { "name": "John" } }
}'
```

Auto-generated Mapping

curl -XGET localhost:9200/testdb/_mapping?pretty=true

Simple query

- curl -XGET localhost:9200/testdb/testtbl/1
- curl -XGET localhost:9200/testdb/testtbl/_search? q=name:peter

Term query

```
POST testdb/testtbl/_search
{
    "query": {"term": {
        "name": {
            "value": "peter"
        }
    }}
}
```

Bool query

```
POST testdb/testtbl/_search
{
    "query": { "bool": {
        "must":
        [
            { "term": { "name": {"value": "peter"}}},
            { "term": { "active_status": { "value": "3" } }}
        ]
        }
    }
}
```

Range query

POST testdb/testtbl/_search

```
{
  "query": {"range": {
    "age": {
      "gte": 10,
      "lte": 20
    }
  }}
}
```

Filtered query

Custom mapping

```
curl -XPUT ${1}:9200/${2}/temptable1/_mapping -d '{
    "temptable1": {
        "properties": {
          "clientId":{"type": "string","index": "not_analyzed"},
          "stageVersion":{"type": "string", "index": "analyzed"
        }}}'
```

Custom mapping

```
curl -XPUT ${1}:9200/${2}/temptable1/_mapping -d '{
    "temptable1": {
        "properties": {
          "clientId":{"type": "string","index": "not_analyzed"},
          "stageVersion":{"type": "string", "index": "analyzed"
        }}}'
```

References

elasticsearch.org