**Launch ElasticSearch**

elasticsearch

**CRUD & Search operations in elastic search can be done through REST API or Java API client**

JAVA API Documentation for elastic search

<https://www.elastic.co/guide/en/elasticsearch/client/java-api/current/java-docs-update.html>

REST API documentation for elastic search

<https://www.elastic.co/guide/en/elasticsearch/guide/current/index-doc.html>

Does Elastic Search indexes all fields of document

The index attribute controls how the fields will be indexed. It can contain one of three values for data type:

analyzed

First analyze the string and then index it. In other words, index this field as full text.

not\_analyzed

Index this field, so it is searchable, but index the value exactly as specified. Do not analyze it.

no

Don’t index this field at all. This field will not be searchable.

The default value of index for a string field is analyzed. If we want to map the field as an exact value, we need to set it to not\_analyzed:

{

"tag": {

"type": "string or boolean or integer or float",

"index": "not\_analyzed"

}

}

To Start Elastic Search

From the Command Prompt go to the installed folder : cd /Users/chandrasekhar/Software/elasticsearch-6.2.1/bin

Type ----- elasticsearch

elasticsearch settings(installed path etc…) details

<http://localhost:9200/_nodes/settings?pretty=true>

**ElasticSearch Context URL:** <http://localhost:9200/>

In elasticsearch.yml add the below properties

cluster.name: production

node.name: node1

network.bind\_host: 10.0.1.22

network.host: 0.0.0.0

transport.tcp.port: 9300

**To get a new connection to the elastic search**

Settings settings = Settings.*builder*().put("cluster.name", "production").put("node.name", "node1").build();

TransportClient client = **new** PreBuiltTransportClient(settings).addTransportAddress(**new** TransportAddress(InetAddress.*getByName*("localhost"), 9300));

analyzed vs not\_analyzed in Elastic Search

analyzed -> more space on disk (LOT MORE if the analyze filds are big). analyzed -> more time for indexation. analyzed -> better for matching documents.

not\_analyzed -> less space on disk. not\_analyzed -> less time for indexation. not\_analyzed -> exact match for fields or using wildcards.

<https://stackoverflow.com/questions/37532648/analyzed-or-not-analyzed-what-to-choose/37534310#37534310>

Basics how document is created or updated

the combination of \_index, \_type, and \_id uniquely identifies a document.

<https://www.elastic.co/guide/en/elasticsearch/guide/current/create-doc.html>

Adding a element in ElasticSearch using rest API

<https://www.elastic.co/guide/en/elasticsearch/guide/current/index-doc.html>

Getting an element in ElasticSearch using rest API

<https://www.elastic.co/guide/en/elasticsearch/guide/current/get-doc.html>

Get All element

<https://www.elastic.co/guide/en/elasticsearch/guide/current/empty-search.html>

**Kibana : Kibana provides front-end for Elastic Search**

To have launchd start kibana now and restart at login:

brew services start kibana

Or, if you don't want/need a background service you can just run:

Kibana

**Kibana Hosted URL :** <http://localhost:5601/>

<https://www.elastic.co/guide/en/kibana/current/connect-to-elasticsearch.html>