

Install and configure Elasticsearch

Assumptions:

- The instructions below is written in ubuntu shell
- Elasticsearch \$ES_HOME directory is: /root/elasticsearch-1.7.1
- Run:
\$ export ES_HOME=/root/elasticsearch-1.7.1

Install Java 8 (if installed you may skip this step)

- Add the Oracle Java PPA to apt:
\$ sudo add-apt-repository -y ppa:webupd8team/java
- Update your apt package database:
\$ sudo apt-get update
- Install Oracle Java 8
\$ sudo apt-get -y install oracle-java8-installer

Install Elasticsearch (if you are provided with the installation zip you may skip this step)

Change to /root directory:

```
$ cd /root
```

- Download installation

```
$ wget https://download.elastic.co/elasticsearch/elasticsearch/elasticsearch-1.7.1.zip
Or
$ curl -o elasticsearch-1.7.1.zip
https://download.elastic.co/elasticsearch/elasticsearch/elasticsearch-1.7.1.zip
```

- Unzip and change to Elasticsearch installation directory

```
$ unzip elasticsearch-1.7.1.zip
$ cd $ES_HOME
```

Edit Elasticsearch configuration file

- Open a text editor (ex. Vi or Notepad++)

```
$ sudo vi $ES_HOME/config/elasticsearch.yml
```

- Setup Elasticsearch node (note: it is a yml file there must be a space between field and its value)

```
cluster.name: es_101_workshop
node.name: ${HOSTNAME}
bootstrap.mlockall: true
discovery.zen.ping.multicast.enabled: true
#for logstash indexing
index.mapper.dynamic: true
#The following line is not for production (just for the workshop ease of use)
http.cors.enabled: true
```

- Save and exit

Install plugins

- Run

```
$ bin/plugin --install --url file:///path/to/marvel-latest.zip
$ bin/plugin --install --url file:///path/to/elasticsearch-head-master.zip
```

If you fail to install, you may extract marvel-latest.zip and elasticsearch-head-master.zip to
\$ES_HOME/plugins under "marvel" and "head" directories respectively

Start Elasticsearch

- Run

```
$ cd $ES_HOME
$ bin/elasticsearch
```

- Check state

You may run the following commands on your web browser. ex. <http://localhost:9200>

```
$ curl -XGET http://localhost:9200
$ curl -XGET http://localhost:9200/_cluster/state?pretty
```

To check that mlockall is enabled

```
$ curl http://localhost:9200/\_nodes/process?pretty
```

- Check plugins

Marvel plugin:

On your browser open: http://localhost:9200/_plugin/marvel/sense/index.html

Head plugin:

On your browser open: http://localhost:9200/_plugin/head

- More useful commands to play with:

show indices	curl localhost:9200/_cat/indices?v
show master node	curl localhost:9200/_cat/master?v
show nodes	curl localhost:9200/_nodes?v
show data consumption	curl localhost:9200/_cat/allocation?v
show cluster health info	curl localhost:9200/_cat/health?v
show jvm info	curl dahari1.emea.hpqcorp.net::9200/_nodes?jvm=true
show field mappings	curl http://localhost:9200/index/type/_mapping
delete mapping	curl -XDELETE [DELETE] /{index}/{type}/_mapping
Indices/types status	curl -XGET 'http://localhost:9200/twitter/_status'

delete index	curl -XDELETE localhost:9200/twitter/
show plugins info	curl http://localhost:9200/_nodes/plugins
show process and if ES using swap	curl http://localhost:9200/_nodes/process?pretty