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 helth 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 |