

Introduction to Elasticsearch – Labs!!!!!!

A comprehensive introduction to the
Elasticsearch. A distributed, open source search and
analytics engine

Lab 2 - Installing and Setting up Elasticsearch and associated plugins

Foundational Installs

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1. Install Virtualbox
2. Install Vagrant
3. Vagrant init ubuntu/xenial
4. Vagrant up
5. Vagrant ssh

Foundational Installs

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1. Update your system

1. `sudo apt-get update`
2. `sudo apt-get upgrade`

2. Install curl

1. `sudo apt-get -y install curl`

3. install openjdk-7

1. `sudo apt-get purge openjdk*`
2. `sudo apt-get -y install openjdk-8-jdk`

Install Elasticsearch

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1. Install Elasticsearch

1. `wget -qO - https://packages.elastic.co/GPG-KEY-elasticsearch | sudo apt-key add -`
2. `echo "deb http://packages.elastic.co/elasticsearch/2.x/debian stable main" | sudo tee -a /etc/apt/sources.list.d/elasticsearch-2.x.list`
3. `sudo apt-get update && sudo apt-get install elasticsearch`
4. `sudo update-rc.d elasticsearch defaults 95 10`

2. # either of the next two lines is needed to be able to access "localhost:9200" from the host os

1. `sudo echo "network.bind_host: 0" >> /etc/elasticsearch/elasticsearch.yml`
2. `sudo echo "network.host: 0.0.0.0" >> /etc/elasticsearch/elasticsearch.yml`

Preparation for Sense and scripting

1. # enable cors (to be able to use Sense)
 1. `sudo echo "http.cors.enabled: true" >> /etc/elasticsearch/elasticsearch.yml`
 2. `sudo echo "http.cors.allow-origin: /https?:\\localhost(:[0-9]+)?/" >> /etc/elasticsearch/elasticsearch.yml`
2. # enable dynamic scripting
 1. `sudo echo "script.inline: on" >> /etc/elasticsearch/elasticsearch.yml`
 2. `sudo echo "script.indexed: on" >> /etc/elasticsearch/elasticsearch.yml`

Install Marvel Agent and Kibana

1. Restart Elasticsearch, just because
 1. `sudo /etc/init.d/elasticsearch start`
2. Install the marvel agent
 1. `sudo /usr/share/elasticsearch/bin/plugin install -b --verbose license`
 2. `sudo /usr/share/elasticsearch/bin/plugin install -b --verbose marvel-agent`
3. Install Kibana
 1. `wget -qO - https://packages.elastic.co/GPG-KEY-elasticsearch | sudo apt-key add -`
 2. `echo "deb http://packages.elastic.co/kibana/4.5/debian stable main" | sudo tee -a /etc/apt/sources.list`
 3. `sudo apt-get update && sudo apt-get install kibana`
 4. `sudo echo "elasticsearch.url: "http://localhost:9200"" >> /opt/kibana/config/kibana.yml`
 5. `sudo update-rc.d kibana defaults 95 10`
 6. `sudo /bin/systemctl daemon-reload`
 7. `sudo /bin/systemctl enable kibana.service`
 8. `sudo /etc/init.d/kibana restart`

Install actual sense and marvel plugins

1. Install Sense and Marvel Plugins
 1. `sudo /opt/kibana/bin/kibana plugin --install elastic/sense`
 2. `sudo /opt/kibana/bin/kibana plugin --install elasticsearch/marvel/latest`
2. Fix Mysterious permissions bug
3. `sudo chown kibana:root /opt/kibana/optimize/.babelcache.json`
4. Restart it all because why not
 1. `sudo /etc/init.d/elasticsearch restart`
 2. `sudo /etc/init.d/kibana restart`