Elk stack

ELK

install java

```
Add the following line to /etc/apt/sources.list:

deb http://debian.opennms.org/ stable main

wget -O - http://debian.opennms.org/OPENNMS-GPG-KEY | sudo apt-key add -

sudo apt-get update

sudo apt-get install oracle-java8-installer
```

Install Elasticsearch

```
sudo wget -q0 - https://artifacts.elastic.co/GPG-KEY-elasticsearch | sudo apt-key add -
sudo apt-get install apt-transport-https
echo "deb https://artifacts.elastic.co/packages/6.x/apt stable main" | sudo tee -a /etc/apt/sources.list.d
/elastic-6.x.list
sudo apt-get update
sudo apt-get install elasticsearch
```

cd /usr/share/elasticsearch/bin/
./elasticsearch-setup-passwords auto

Changed password for user apm_system
PASSWORD apm_system = PCj10gOqouXsjJucfjVDx

Changed password for user kibana_system
PASSWORD kibana_system = Mg7hGEyPcAdgE4218jnxx

Changed password for user kibana PASSWORD kibana = Mg7hGEyPcAdgE4218jnxx

Changed password for user logstash_system PASSWORD logstash_system = c8vL705G717E81f3S8Hsx

Changed password for user beats_system PASSWORD beats_system = BLyXYkabW8XyVYgljnhFx

Changed password for user remote_monitoring_user
PASSWORD remote_monitoring_user = vD9ca95aHj5wCIkOWglUxx

Changed password for user elastic PASSWORD elastic = WhqSZGDhbiEZcdHpVGgCx

/etc/elasticsearch/elasticsearch.yml

vi /etc/elasticsearch/elasticsearch.yml

xpack.security.enabled: true

Mount -o remount, exec /tmp

sudo systemctl enable elasticsearch.service

sudo systemctl start elasticsearch.service

```
sudo curl -XGET 'localhost:9200/?pretty'
{
    "name" : "UHR2XBB",
    "cluster_name" : "elasticsearch",
    "cluster_uuid" : "RancOJh9QAuuMYhALcZIRA",
    "version" : {
    "number" : "6.2.4",
    "build_hash" : "ccec39f",
    "build_date" : "2018-04-12T20:37:28.497551Z",
    "build_snapshot" : false,
    "lucene_version" : "7.2.1",
    "minimum_wire_compatibility_version" : "5.6.0",
    "minimum_index_compatibility_version" : "5.0.0"
},
    "tagline" : "You Know, for Search"
}
```

install kibana:

```
sudo apt-get install kibana
sudo vim /etc/kibana/kibana.yml
```

```
server.port: 5601
server.host: "192.168.110.174"
elasticsearch.username: "elastic"
elasticsearch.password: "WhqSZGDhbiEZcdHpVGgC"
```

sudo systemctl enable kibana.service
sudo systemctl start kibana.service

sudo apt-get install logstash

vi /etc/logstash/conf.d/logstash.conf

```
input {
beats {
port => 5044
type => syslog
ssl => true
ssl_certificate => "/etc/ssl/logstash-forwarder.crt"
ssl_key => "/etc/ssl/logstash-forwarder.key.pem"
filter {
if [type] == "syslog" {
grok {
match => { "message" => "%{SYSLOGTIMESTAMP:syslog_timestamp} %{SYSLOGHOST:syslog_hostname} %{DATA:
syslog_program}(?:\[%{POSINT:syslog_pid}\])?: %{GREEDYDATA:syslog_message}" }
add_field => [ "received_at", "%{@timestamp}" ]
add_field => [ "received_from", "%{host}" ]
}
date {
match => [ "syslog_timestamp", "MMM d HH:mm:ss", "MMM dd HH:mm:ss" ]
}
}
output {
elasticsearch { hosts => ["localhost:9200"]
hosts => "localhost:9200"
user => "elastic"
password => "WhqSZGDhbiEZcdHpVGgC"
manage_template => false
index => "%{[@metadata][beat]}-%{+YYYY.MM.dd}"
document_type => "%{[@metadata][type]}"
}
```

```
vi /etc/logstash/pipelines.yml# This file is where you define your pipelines. You can define multiple.
# For more information on multiple pipelines, see the documentation:
# https://www.elastic.co/guide/en/logstash/current/multiple-pipelines.html
- pipeline.id: syslog-pipeline
path.config: "/etc/logstash/conf.d/syslog.conf"
- pipeline.id: apache-access-pipeline
path.config: "/etc/logstash/conf.d/apache-access.conf"
```

sudo systemctl enable logstash.service

sudo systemctl start logstash.service

install filebeat

sudo vim /etc/hosts

192.168.110.174 elk-server

```
sudo wget -q0 - https://artifacts.elastic.co/GPG-KEY-elasticsearch | sudo apt-key add -
sudo apt-get install apt-transport-https

sudo echo "deb https://artifacts.elastic.co/packages/6.x/apt stable main" | sudo tee -a /etc/apt/sources.list.d /elastic-6.x.list

sudo apt-get update

sudo apt-get install filebeat
```

```
sudo systemctl enable filebeat.service
sudo systemctl start filebeat.service
```

cd /etc/logstash/conf.d/ vi container.conf

.

```
input {
 beats {
  port => 6050
   ssl => false
#filter {
\# if "syslog" in [tags] \{
#
   grok {
     match => { "message" => "%{SYSLOGLINE}" }
#
#
  date {
{\tt \#match} => [ "timestamp", "MMM d HH:mm:ss", "MMM dd HH:mm:ss" ]
# }
#}
output {
elasticsearch {
  hosts => ["localhost:9200"]
  user => "elastic"
  password => "Db4Ts567MMQod54Ettym"
   index => "k8s-logs-%{+YYYY.MM.dd}"
 stdout {
   codec => rubydebug
}
```

```
cd /etc/logstash
vi pipelines.yml
```

```
.
.
.
.
. pipeline.id: container-pipeline
path.config: "/etc/logstash/conf.d/container.conf"
```

```
systemctl restart logstash
```