

docker 搭建ES集群

笔记本: ElasticSearch

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写在前面

在安装ES的时候需要设置下面两个属性，其次与ES相关的产品都需要保证版本的一致性

1、关闭setlinux (不然docker挂载目录会没权限)

vim /etc/selinux/config

```
SELINUX=disabled
```

2、设置句柄数

vim /etc/sysctl.conf

```
vm.max_map_count=262144
```

3、docker pull elasticsearch:7.6.2

4、创建挂载目录

```
/data/elasticsearch/config/elasticsearch.yml
```

5、启动

```
docker run -d -p 9200:9200 -p 9300:9300 -e ES_JAVA_OPTS="-Xms1024m -Xmx1024m" -v /data/elasticsearch/config/elasticsearch.yml:/usr/share/elasticsearch/config/elasticsearch.yml -name ES elasticsearch
```

6、安装kibana

```
docker pull kibana:7.6.2
```

7、创建挂载配置文件

```
server.name: kibana
server.host: 0.0.0.0
elasticsearch.hosts: [
"http://192.168.161.129:9200","http://192.168.161.130:9200","http://192.168.161.131:9200" ]
xpack.monitoring.ui.container.elasticsearch.enabled: true
i18n.locale: "zh-CN"
```

8、启动kibana

```
docker run -d -p 5601:5601 -v /data/kibana/config/kibana.yml:/usr/share/kibana/config/kibana.yml kibana:7.6.2
```

9、安装ik分词器

```
docker exec -it 容器 bash
```

```
./bin/elasticsearch-plugin install https://github.com/medcl/elasticsearch-analysis-ik/releases/download/v7.6.2/elasticsearch-analysis-ik-7.6.2.zip
```

注意: 每台机器都需要安装

网络状况不好安装失败的话需要手动下载

```
wget https://github.com/medcl/elasticsearch-analysis-ik/releases/download/v7.6.2/elasticsearch-analysis-ik-7.6.2.zip
```

可以把容器内的/usr/share/elasticsearch/plugins 目录挂载到宿主机
然后在宿主机下载插件，放到plugins目录，然后创建ik目录，把下载的插件解压到ik目录

安装成功之后如下图

```
{
  "type": "server",
  "timestamp": "2020-04-27T20:39:28,036Z",
  "level": "INFO",
  "component": "o.e.p.PluginsService",
  "cluster.name": "elasticsearch-cluster",
  "node.name": "es-node1",
  "message": "loaded module [x-pack-ml]"
}
{
  "type": "server",
  "timestamp": "2020-04-27T20:39:28,036Z",
  "level": "INFO",
  "component": "o.e.p.PluginsService",
  "cluster.name": "elasticsearch-cluster",
  "node.name": "es-node1",
  "message": "loaded module [x-pack-monitoring]"
}
{
  "type": "server",
  "timestamp": "2020-04-27T20:39:28,054Z",
  "level": "INFO",
  "component": "o.e.p.PluginsService",
  "cluster.name": "elasticsearch-cluster",
  "node.name": "es-node1",
  "message": "loaded module [x-pack-rollup]"
}
{
  "type": "server",
  "timestamp": "2020-04-27T20:39:28,054Z",
  "level": "INFO",
  "component": "o.e.p.PluginsService",
  "cluster.name": "elasticsearch-cluster",
  "node.name": "es-node1",
  "message": "loaded module [x-pack-security]"
}
{
  "type": "server",
  "timestamp": "2020-04-27T20:39:28,054Z",
  "level": "INFO",
  "component": "o.e.p.PluginsService",
  "cluster.name": "elasticsearch-cluster",
  "node.name": "es-node1",
  "message": "loaded module [x-pack-sql]"
}
{
  "type": "server",
  "timestamp": "2020-04-27T20:39:28,054Z",
  "level": "INFO",
  "component": "o.e.p.PluginsService",
  "cluster.name": "elasticsearch-cluster",
  "node.name": "es-node1",
  "message": "loaded module [x-pack-voting-only-node]"
}
{
  "type": "server",
  "timestamp": "2020-04-27T20:39:28,054Z",
  "level": "INFO",
  "component": "o.e.p.PluginsService",
  "cluster.name": "elasticsearch-cluster",
  "node.name": "es-node1",
  "message": "loaded module [x-pack-watcher]"
}
{
  "type": "server",
  "timestamp": "2020-04-27T20:39:28,055Z",
  "level": "INFO",
  "component": "o.e.p.PluginsService",
  "cluster.name": "elasticsearch-cluster",
  "node.name": "es-node1",
  "message": "loaded plugin [analysis-ik]"
}
[root@localhost elasticsearch]#
```

ES配置文件

主节点

```
cluster.name: elasticsearch-cluster
node.name: es-node1
network.host: 0.0.0.0
network.publish_host: 192.168.161.129
http.port: 9200
transport.tcp.port: 9300
http.cors.enabled: true
http.cors.allow-origin: "*"
node.master: true
node.data: true
discovery.zen.ping.unicast.hosts:
["192.168.161.129:9300","192.168.161.130:9300","192.168.161.131:9300"]
discovery.zen.minimum_master_nodes: 1
#节点初始选举
cluster.initial_master_nodes: ["es-node1"]
```

从节点

```
cluster.name: elasticsearch-cluster
node.name: es-node2
network.host: 0.0.0.0
network.publish_host: 192.168.161.131
http.port: 9200
transport.tcp.port: 9300
http.cors.enabled: true
http.cors.allow-origin: "*"
node.master: true
node.data: true
# 备用主节点
discovery.zen.ping.unicast.hosts:
["192.168.161.129:9300","192.168.161.130:9300","192.168.161.131:9300"]
discovery.zen.minimum_master_nodes: 1
```