Elasticsearch安装 Lck

Elasticsearch单机安装

1.下载压缩包

https://artifacts.elastic.co/downloads/elasticsearch/elasticsearch-6.6.2.tar.gz

2.解压缩修改配置文件

cd 到elasticsearch下载目录

tar -zxf elasticsearch-6.6.2.tar.gz

cd elasticsearch-6.6.2

修改config/Elasticsearch.yml

vi config/Elasticsearch.yml

network.host: 0.0.0.0 #设置外网访问 默认配置外网无法访问

3.修改系统环境变量vm.max_map_count

vi /etc/sysctl.conf 添加如下内容

```
vm.max_map_count=262144
```

修改完需要重启才能生效

max virtual memory areas vm.max_map_count [65530] is too low, increase to at least [262144]

sysctl -a|grep vm.max_map_count

sysctl -w vm.max_map_count=262144

4.修改jvm分配大小

```
vi config/jvm.options
```

-Xms1g

-Xmx1g

主要xms和xmx大小要一致

```
Exception in thread "main" java.nio.file.AccessDeniedException: /kkb/server/es/elasticsearch-6.6.2/config/jvm.options
        at sun.nio.fs.UnixException.translateToIOException(UnixException.java:84)
        at sun.nio.fs.UnixException.rethrowAsIOException(UnixException.java:102)
        at sun.nio.fs.UnixException.rethrowAsIOException(UnixException.java:107)
        at sun.nio.fs.UnixFileSystemProvider.newByteChannel(UnixFileSystemProvider.java:214)
        at java.nio.file.Files.newByteChannel(Files.java:361)
        at java.nio.file.Files.newByteChannel(Files.java:407)
        at java.nio.file.spi.FileSystemProvider.newInputStream(FileSystemProvider.java:384)
        at java.nio.file.Files.newInputStream(Files.java:152)
        at org.elasticsearch.tools.launchers.JvmOptionsParser.main(JvmOptionsParser.java:60)
```

Exception in thread "main" java.nio.file.AccessDeniedException: /kkb/server/es/elasticsearch-6.6.2/config/jvm.options

at sun.nio.fs.UnixException.translateToIOException(UnixException.java:84)

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at sun.nio.fs.UnixFileSystemProvider.newByteChannel(UnixFileSystemProvider.java:214)

at java.nio.file.Files.newByteChannel(Files.java:361)

at java.nio.file.Files.newByteChannel(Files.java:407)

at java.nio.file.spi.FileSystemProvider.newInputStream(FileSystemProvider.java:384)

at java.nio.file.Files.newInputStream(Files.java:152)

at org.elasticsearch.tools.launchers.JvmOptionsParser.main(JvmOptionsParser.java:60)

5.修改最大文件描述符数量和用户最大线程数

vim /etc/security/limits.conf

```
* soft nofile 65536
* hard nofile 65536
* soft nproc 4096
* hard nproc 4096
```

```
[1]: max file descriptors [4096] for elasticsearch process is too low, increase to at least [65536]
[2]: max number of threads [1786] for user [lck] is too low, increase to at least [4096]
[3]: max virtual memory areas vm.max_map_count [65530] is too low, increase to at least [262144]
```

[1]: max file descriptors [4096] for elasticsearch process is too low, increase to at least [65536]

[2]: max number of threads [1786] for user [lck] is too low, increase to at least [4096]

[3]: max virtual memory areas vm.max_map_count [65530] is too low, increase to at least [262144]

6.启动Elasticsearch

不要以root用户进行启动

```
useradd lck
echo "Password" | passwd lck --stdin
```

```
bin/elasticsearch
```

后台启动

```
bin/elasticsearch -d
```

7.分词器

下载后解压缩到elasticsearch的plugins目录下

POST /_analyze { "analyzer": "simple", "text": " 我是一个程序员，咿呀咿呀呦！" }

POST /_analyze { "analyzer": "simple", "text": " 我是一个程序员，咿呀咿呀呦！" }

ik分词器

https://github.com/medcl/elasticsearch-analysis-ik/releases/tag/v6.6.2

POST /_analyze { "analyzer": "ik_smart", "text": " 我是一个程序员，咿呀咿呀呦！ " }

拼音分词器

https://github.com/medcl/elasticsearch-analysis-pinyin/releases/tag/v6.6.2

```
GET /medcl/_analyze
{
  "text": ["刘德华"],
  "analyzer": "pinyin_analyzer"
}
```

8.kibana安装

1.下载解压

```
https://artifacts.elastic.co/downloads/kibana/kibana-6.6.2-linux-x86_64.tar.gz
```

2.修改配置文件

```
vi kibana-6.4.2-linux-x86_64/config/kibana.yml
server.port: 5600 ##服务端口
server.host: "0.0.0.0" ## 服务器ip
elasticsearch.url: "http://localhost:9200" ##elasticsearch 服务地址
```

3.启动

```
./bin/kibana
```

后台启动

```
nohup ./bin/kibana &
```

Elasticsearch集群搭建

1.集群配置

```
cluster.name: kkb-es
node.name: node0
node.master: true
network.host: 0.0.0.0
http.port: 9200
transport.tcp.port: 9300
discovery.zen.ping.unicast.hosts: ["127.0.0.1:9300","127.0.0.1:9301","127.0.0.1:9302"]
discovery.zen.minimum_master_nodes: 2
http.cors.enabled: true
http.cors.allow-origin: "*"
```

2.集群状态检查

```
http://集群地址:9200/_cat/health?v
```

3.可能遇到的问题

```
[2018-10-25T14:52:45,657][INFO ][o.e.d.z.ZenDiscovery    ] [node0] failed to
send join request to master [{node1}{yxQ_mL5PRFKnkP-0__pQrQ}{3wAwU23GRSaznqa
CFSn7qg}{172.16.86.101}{172.16.86.101:9301}{ml.machine_memory=1913536512, ml.
max_open_jobs=20, xpack.installed=true, ml.enabled=true}], reason [RemoteTran
sportException[[node1][172.16.86.101:9301][internal:discovery/zen/join]]; nes
ted: NotMasterException[Node [{node1}{yxQ_mL5PRFKnkP-0__pQrQ}{3wAwU23GRSaznqa
CFSn7qg}{172.16.86.101}{172.16.86.101:9301}{ml.machine_memory=1913536512, xpa
ck.installed=true, ml.max_open_jobs=20, ml.enabled=true} not master for join
request]; ], tried [3] times
```

解决方案:

将节点data文件下的文件清空，默认在es所在目录下的data中