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资源配置

环境搭建

服务安装

【第一步】下载安装包

文件有点大, 可以用迅雷下载好了放到指定位置

https://artifacts.elastic.co/downloads/Elas

【第二步】修改配置文件

•配置外网访问默认配置外网通过无法访问, 需修改配置

config/Elasticsearch.yml

中这一行打开并且改成 0.0.0.0

network.host: 0.0.0.0





•修改系统环境变量 vm.max_map_count 和允许打开的最 大文件 描述符数量[1] vm.max_map_count 设置

vi /etc/sysctl.conf

增加以下内容

vm. max map count=2 62144

[2]修改允许打开的最大文件描述符数量

vim /etc/security/limits.conf

加入

- * soft nofile 65536
- * hard nofile 65536
- * soft nproc 4096
- * hard nproc 4096

【第三步】启动

./bin/Elasticsearch

后台运彳丁

bin/Elasticsearch -d

切记要用非root 用户运行否则会才艮错,ES 不让使用 root 账

户启动

[root@bogon elasticsearch-6.4.2]# ./bin/elasticsearch [2018-10-19T18:16:02,985][WARN][o.e.b.ElasticsearchUncaughtExceptionHandler] [] uncaught exception in thread [main] org.elasticsearch.bootstrap.StartupException: java.lang.RuntimeException: can not run elasticsearch as root

at org.elasticsearch.bootst rap.Elasticsearch.init(Elasticsearch.java:140) ~[elasticsearch-6.4.2.jar:6.4.2]

at org.elasticsearch.bootst rap.Elasticsearch.execute(Elasticsearch.java:127) ~[elasticsearch-6.4.2.jar:6.4.2]

 $at\ org.elasticsearch.cli. Environment Aware Command.execute (Environment Aware Command.java: 86) \\ \sim [elasticsearch-6.4.2.jar: 6.4.2]$

at org.elasticsearch.cli.Command.mainWithoutErrorHandling(Command.java:124) ^[elasticsearch-cli-6.4.2.jar:6.4.2]

at org.elasticsearch.cli.Command.main(Command.java:90) ~[elasticsearch-cli-6.4.2.jar:6.4.2]

at org.elasticsearch.bootst rap.Elasticsearch.main(Elasticsearch.java:93) ~[elasticsearch-6.4.2.jar:6.4.2]

at org.elasticsearch.bootst rap.Elast icsea rch.main(Elasticsea rch.j ava:86) ~[elasticsearch-6.4.2.jar:6.4.2] Caused by: java.lang.RuntimeException: can

【第 步】验证环境

not run elasticsearch as root

curl http://localhost:9200/?pretty

3172.16.86.101 Q 172.16.86.101 (1) [coder (abogon ~]\$ curl http://localhost:9200/?pretty

```
"name": "yxQ_mL5",
"cluster^name" : "elasticsearch", "cluster^uuid<sup>11</sup> : <sup>l</sup>tslSy76HTm-yJbBmHb-ZAg<sup>,1</sup>,
"version": {
  "number": "6.4.2",
  "build_flavor" "buil:"default11 f
  d type"
                    : "zip", "04711C2",
  "build.hash":
                       "2018-09-26T13: 34:09.098244ZH,
  "build.date":
  <sup>1,</sup>build snapshot<sup>11</sup>
                                               false.
                                                                 "lucene version"
  "7.4.0",
                                "minimum wire compatibility version"
  "5.6.0", "minimum_index_compatibil:Lty_version":
```

"tagline" : "You Know, for Search"

[coder@bogon ~]\$

可能遇到的报错

如果不改配置文件直接启动,可能会遇到以下几个错误

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

当前用户拥有的建文件描述的权限太低,知道需要65536个

解决办法

切换到 root 用户下面,

vim /etc/security/limits.conf

在最后添加前面的*号是所有用户,可以指定单个用户把火 替换成用户名

```
* soft nofile 65536
```

* hard nofile 65536

```
TTF #(astudent
                    1 IU 1
                            1 J J nproc
                                                  ⊥ u uw
                                                  20
#@faculty
                    soft
                              nproc
#@faculty
                    hard
                                                  50
                              nproc
#ftp
                    hard
                              nproc
                                                  0
#@student
                              maxlogins
                                                  4
* hard nofile
                65536
* hard nofile
                65536
"/etc/security/limits.conf" 63L, 2462C 已写入
[root@bogon elasticsearch-6.4.2]# su
                                                coder
```

max virtual memory areas vm.max_map_count [65530] is too low, increase to at least [262144] 内存 权限太小了

换到 root 用户

sysctl -w .max_map_count

```
ERROR: [1] bootstrap checks failed
[1]: max number of threads [3790] for user [coder] is too low, increase to at least [4096] [2018-10-19T18:18:06,796] [INFO

[o.e. n.Node
[2018-10-19T18:18:06,844][INFO
[co.e.n.Node
[2018-10-19T18:18:06,844][INFO
[2018-10-19T18:18:06,844][INFO
[2018-10-19T18:18:06,895][INFO
```

max number of threads [3790] for user [coder] is too low, increase to at least [4096]用户最大线程数不够 解决办法 vim /etc/security/limits.conf

- * soft nproc 4096
- * hard nproc 4096

注,修改后需要从新登陆当前用户才能生效

::: 应用 Q 工具 B 课程 B English 匕 常用网站 匕 文摘 Q

```
"name" : "yxQ_mL5",
"cluster_name" : "elasticsearch",
"cluster_uuid" : "tslSy76HTm-yJbBmHb-ZAg", "version" : {
"number" : "6.4.2",
"build flavor"
                    :"default",
"build^type":
                     zip,
"build hash":
                    "04711C2",
"buildZdate":
                   "2018-09-26T13:34:09.098244Z",
      "build snapshot": false,
      "lucene version": "7.4.0",
      "minimum wire compatibility version": "5.6.0",
      "minimuni_index_compatibility_version" : "5.0.0"
   "tagline": "You Know, for Search"
```

远程访问成功,ES搭建成功

基本操作操作

ES 是对外提供的 restful 协议接口一种情况是可以直接用 url 操作, 一种是页面操作, 页面的话需要安装插件

head 插件安装

【第一步】下载文件

从 git 下载插件

git clone

git://github • com/mobz/Elasticsearchhead, git

head 依赖 node.js,需要在之前安装好 node.js

【第二步】node.js 安装

•下载 n ode.js



• ZX 格式安装下载 Track 是 ZX 格式需要在系统添加urrent

yum -y install xz

•解压缩包

xz -d node*.tar.xz tar -xvf node*.tar

•配置环境变量

```
vi /etc/profile
export NODE_HOME=/home/coder/server/node-
v8.12.0-linux-x64
export PATH=$PATH:$NODE_HOME/bin source
/etc/profile
```

【第三步】grunt 安装

head 6以后使用 grunt 构建

• npm 安装

```
tar -zxvf npm-1.4.9.tgz
cd npm/
./configure
make && make install
放到 node 目录下试试
```

sudo npm install -g grunt-cli

进入目录执行找到 package.json 所在目录参考:

*/node modules/grunt/node modules/grunt- cli/package.json

•构建

sudo npm install grunt -- save-dev

•验证

grunt -version

安装成功

[root (aiocalhost grunt-cli]# grunt -version grunt-cli vl.3.1 grunt V0.4.5

[root@localhost grunt-cli]#,

【第四步】head 配置文件修改

connect: {

• Gruntfile.js Elasticsearch-head/Gruntfile.js

server: {
options: { port: 9100, base:'.'
Keepalive: true,

hostname:

'Gruntfile.js" 116L, 2190C written 'rnn-b/Ahnnnn al ac-hi rcaa rrh_haad 1 tt.

设置为

hostname:

• app.js Elasticsearch-head/_site/app.js

```
defaults: {
                             base_uri: null
                   },
init: function(parent) {
                             this._super();
                             this.prefs = services. Preferences. ins 伊 iiec();
                             this.base_uri = this.config.base_uri 11 this.prefs.get("app-base_uri") || "http://172.16.86.101:9200"; if
                             ( this.base_uri.charAt( this.base_ub •"川山什卜 一i ) i==
                                       // XHR request fails if the URL is not ending with a this.base_uri +=
                             if( this.config.auth_user ) {
                                       var credentials = window.btoa( this.config.auth_user + "+ this.config.auth_password ); $.ajaxSetup({
                                                           "Authorization": "Basic " + credentials
                             this.cluster = new services.Cluster({ base_uri: this.base_uri });
                             this._clusterState = new services.ClusterState({
                                       cluster: this.cluster
"_site/app.js" 4473L, 145200C written
app-base uri")
Hhttp://172.16.86.101:9200
```

• Elasticsearch.yml config/Elasticsearch.yml

```
http.cors.enabled:
http.cors.allow-origin: "*"
```

head 安装成功

<--> C O ①不安全 I 172.16.86.101:9100

```
Elasticsearch
http://172.16.86.101: 9200/

: : : 应用 S 工具 & 课程 & English 已常用网站 S 文摘 & 杂物 S bbb 臼 company
概意 索引 数据浏览 基本查询[+]
集群概览
序
Sort Indices ▼ | | View Aliases ▼ Index Filter
yxQ_mL5

复合查询「+7
```

索引基本操作

添加索引



选择分片数和副本数;由于我们现在是一台机器副本没有用,选择成0;如果选择非0个副本,索引状态里会有索引



删除索引

```
url
```

```
curl -XDELETE
'http://172.16.86.101:9200/test/'
```

页面删除



查询

HTTP/1.1 200 OK

content-type: application/json;

content-length: 116

charset=UTF-8

count":1, 索引1个

"total": 15,

"successful" : 15,成功 15 个

"failed": 0 失败。个

systemctl stop firewalld.service

