# 启动内存不足

$./bin/elasticsearch

Java HotSpot(TM) 64-Bit Server VM warning: INFO: os::commit\_memory(0x0000000085330000, 2060255232, 0) failed; error='Cannot allocate memory' (errno=12)

#

# There is insufficient memory for the Java Runtime Environment to continue.

# Native memory allocation (mmap) failed to map 2060255232 bytes for committing reserved memory.

# An error report file with more information is saved as:

# /data/elasticsearch-5.2.2/hs\_err\_pid26945.log

解决方案：调小启动内存

# vi ${elasticsearch\_HOME}/config/jvm.options

#-Xms2g

#-Xmx2g

-Xms512m

-Xmx512m

# 无法以root权限启动

[2017-03-23T16:22:17,193][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.bootstrap.Elasticsearch.init(Elasticsearch.java:125) ~[elasticsearch-5.2.2.jar:5.2.2]

at org.elasticsearch.bootstrap.Elasticsearch.execute(Elasticsearch.java:112) ~[elasticsearch-5.2.2.jar:5.2.2]

at org.elasticsearch.cli.SettingCommand.execute(SettingCommand.java:54) ~[elasticsearch-5.2.2.jar:5.2.2]

at org.elasticsearch.cli.Command.mainWithoutErrorHandling(Command.java:122) ~[elasticsearch-5.2.2.jar:5.2.2]

at org.elasticsearch.cli.Command.main(Command.java:88) ~[elasticsearch-5.2.2.jar:5.2.2]

at org.elasticsearch.bootstrap.Elasticsearch.main(Elasticsearch.java:89) ~[elasticsearch-5.2.2.jar:5.2.2]

at org.elasticsearch.bootstrap.Elasticsearch.main(Elasticsearch.java:82) ~[elasticsearch-5.2.2.jar:5.2.2]

Caused by: java.lang.RuntimeException: can not run elasticsearch as root

at org.elasticsearch.bootstrap.Bootstrap.initializeNatives(Bootstrap.java:105) ~[elasticsearch-5.2.2.jar:5.2.2]

at org.elasticsearch.bootstrap.Bootstrap.setup(Bootstrap.java:203) ~[elasticsearch-5.2.2.jar:5.2.2]

at org.elasticsearch.bootstrap.Bootstrap.init(Bootstrap.java:333) ~[elasticsearch-5.2.2.jar:5.2.2]

at org.elasticsearch.bootstrap.Elasticsearch.init(Elasticsearch.java:121) ~[elasticsearch-5.2.2.jar:5.2.2]

... 6 more

解决方案：创建一个非root用户并赋予目录该用户权限，再启动

# groupadd es

# useradd es -g es -p es

# chown es:es ${elasticsearch\_HOME}/

# sudo su es

# ./bin/elasticsearch

# 兼容问题

这是在因为Centos6不支持SecComp，而ES5.2.0默认bootstrap.system\_call\_filter为true进行检测，所以导致检测失败，失败后直接导致ES不能启动。  
在elasticsearch.yml中配置bootstrap.system\_call\_filter为false，注意要在Memory下面:  
bootstrap.memory\_lock: false  
bootstrap.system\_call\_filter: false

# 外部访问问题

在配置文件中配置

**http.host: 0.0.0.0**

# 太low了的问题

max file descriptors [4096] for elasticsearch process is too low, increase to at least [65536]  
max number of threads [1024] for user [hadoop] is too low, increase to at least [2048]  
max virtual memory areas vm.max\_map\_count [65530] is too low, increase to at least [262144]

解决方案：

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

切换到root用户

 ulimit -Hn  查看硬限制

vim /etc/security/limits.conf

添加下面设置 hadoop是用户

hadoop soft nofile 65536  
hadoop hard nofile 65536

退出用户重新登录，使配置生效

重新 ulimit -Hn  查看硬限制 会发现数值有4096改成65535

vim /etc/security/limits.d/90-nproc.conf

找到如下内容：

soft nproc 1024

修改为

soft nproc 2048

vi /etc/sysctl.conf

添加下面配置：

vm.max\_map\_count=655360

并执行命令：

sysctl -p