# 前言

SonarQube 是一款用于代码质量管理的开源工具,它主要用于管理源代码的质量。 通过插件形式,可以支持众多计算机语言,比如 java, C#, go, C/C++, PL/SQL, Cobol, JavaScrip, Groovy 等。sonar可以通过PMD,CheckStyle,Findbugs等等代码规则检测工具来检测你的代码,帮助你发现代码的漏洞,Bug,异味等信息。 Sonar 不仅提供了对 IDE 的支持,可以在 Eclipse和 IntelliJ IDEA 这些工具里联机查看结果;同时 Sonar 还对大量的持续集成工具提供了接口支持,可以很方便地在持续集成中使用 Sonar。

sonarqube7.9的前提条件是jdk11、postgreSQL

链接:https://pan.baidu.com/s/1BcrQhzv3piH7CBRPfB\_RTg 提取码:6d1q

# 安装

## jdk11安装

```
参考: https://www.cnblogs.com/jxd283465/p/11541506.html
```

```
1 [root@localhost home]# java -version
2 java version "11.0.4" 2019-07-16 LTS
3 Java(TM) SE Runtime Environment 18.9 (build 11.0.4+10-LTS)
4 Java HotSpot(TM) 64-Bit Server VM 18.9 (build 11.0.4+10-LTS, mixed mode)
```

## postgreSQL10.1安装

```
参考: https://www.cnblogs.com/jxd283465/p/11550745.html
```

```
1 [root@localhost bin]# ./psq1 -V
2 psq1 (PostgreSQL) 10.10
```

## sonarqube7.9安装

#### 1.解压,重命名

```
# 解压
unzip sonarqube-7.9.1.zip
# 重命名
mv sonarqube-7.9.1 sonarqube
```

如果报错unzip not command: yum -y install unzip

## 2.创建sonarqube用户组和用户、赋权

```
1 # 创建sonarqube用户组
2 [root@localhost home]# groupadd sonarqube
3 # 创建sonarqube用户 -g指定用户组 -p指定密码 -M不创建home目录
5 [root@localhost home]# useradd sonarqube -g sonarqube -p sonarqube -M
6 7 # 赋予/home/sonarqube文件夹sonarqube用户权限 -R表示递归
8 [root@localhost home]# chown -R sonarqube:sonarqube /home/sonarqube
```

#### 3.修改配置文件

```
# 修改sonarqube配置文件,增加postgres数据库配置vi /home/sonarqube/conf/sonar.properties

# postgres数据库用户名
sonar.jdbc.username=postgres
# postgres数据库用户名密码
sonar.jdbc.password=postgres
# postgres数据库地址
sonar.jdbc.url=jdbc:postgresq1://127.0.0.1:5432/sonar?currentSchema=public
# sonar的web访问端口
sonar.web.port=9002
```

#### 4.配置启动参数

```
# 修改sonar的启动文件
vi /home/sonarqube/bin/linux-x86-64/sonar.sh
# 将runuser设置为sonarqube
RUN_AS_USER=sonarqube
```

#### 5.启动sonarqube

```
1 # 切換sonarqube用户
2 [root@localhost home]# su sonarqube
3
4 # 启动sonar
5 bash-4.2$ /home/sonarqube/bin/linux-x86-64/sonar.sh start
6 Starting SonarQube...
```

浏览器访问http://192.168.8.20:9002 访问失败

```
查看日志查找原因,日志在 /home/sonarqube/logs 下,分别查看es和sonar的启动日志
    bash-4.2$ pwd
 2 /home/sonarqube/logs
 3 bash-4.2$ 1s -1
 4 总用量 12
 5 -rw-r--r-. 1 sonarqube sonarqube 3402 9月 19 16:52 es.log
6 -rw-r--r-- 1 sonarqube sonarqube 88 7月 10 12:21 README.tx
7 -rw-r--r-- 1 sonarqube sonarqube 1522 9月 19 16:52 sonar.log
                                                                                                                             10 12:21 README. txt
查看es.log (elasticsearch)
   1 bash-4.2$ cat es.1og
   2 2019.09.19 16:52:17 INFO es[][o.e.e.NodeEnvironment] using [1] data paths, mounts [[/home (/dev/mapper/centos-home)]], net usable_space [961.2gb], net total_space [961.2gb], net tot
  2 2019. 99. 19 16:52:17 INPO es[][o. e. e. NodeEnvironment] using [1] data paths, mounts [L/nome v/dev/mapper/centos=nome/]], net usable_space [961. 2gb], net total_space [961. 2gb], net total_space
   9 2019.09.19 16:52:18 INFO
                                                                                es[][o.e.p.PluginsService] loaded module [mapper-extras]
 10 2019.09.19 16:52:18 INFO es[][o.e.p.PluginsService] loaded module [parent-join]
 11 2019. 09. 19 16:52:18 INFO
                                                                               es[][o. e. p. PluginsService] loaded module [percolator]
 12 2019.09.19 16:52:18 INFO
                                                                               es[][o. e. p. PluginsService] loaded module [reindex]
 13 2019.09.19 16:52:18 INFO es[][o.e.p.PluginsService] loaded module [repository-url] 14 2019.09.19 16:52:18 INFO es[][o.e.p.PluginsService] loaded module [transport-netty4]
 15 2019.09.19 16:52:18 INFO
                                                                               es[][o. e. p. PluginsService] no plugins loaded
16 2019.09.19 16:52:19 WARN es[][o.e.d.c.s.Settings] [http.enabled] setting was deprecated in Elasticsearch and will be removed in a future release! See the breaking 2019.09.19 16:52:20 INFO es[][o.e.d.DiscoveryModule] using discovery type [zen] and host providers [settings]
 18 2019.09.19 16:52:21 INFO es[][o.e.n.Node] initialized
19 2019.09.19 16:52:21 INFO es[][o.e.n.Node] starting ...
20 2019.09.19 16:52:21 INFO es[][o.e.t.TransportService] publish_address {127.0.0.1:9001}, bound_addresses {127.0.0.1:9001}
21 2019.09.19 16:52:21 INFO es[][o.e.b.BootstrapChecks] explicitly enforcing bootstrap checks
22 2019.09.19 16:52:21 ERROR es[][o.e.b.Bootstrap] node validation exception
        [2] bootstrap checks failed
        [1]: max file descriptors [4096] for elasticsearch process is too low, increase to at least [65535]
25 [2]: max virtual memory areas vm. max_map_count [65530] is too low, increase to at least [662144] 26 2019. 09. 19 16:52:21 INFO es[][o.e.n. Node] stopping ... es[][o.e.n. Node] stopped
28 2019.09.19 16:52:21 INFO es[][o.e.n.Node] closing .
29 2019. 09. 19 16:52:21 INFO es[][o. e. n. Node] closed
发现有两个错误:
24 [1]: max file descriptors [4096] for elasticsearch process is too low, increase to at least [65535]
 25 [2]: max virtual memory areas vm.max_map_count [65530] is too low, increase to at least [262144]
解决第一个:
 vi /etc/security/limits.conf
```

```
修改配置文件,在文件最后加入下面两个行。用户退出重新登录生效。
           soft
                nofile
                            65536
                            65536
                nofile
           hard
```

### 解决第二个:

#### 临时生效

sudo sysct1 -w vm.max\_map\_count=262144

#### 永久生效

```
# root用户
  /etc/sysctl.conf
# 添加以下配置
vm.max_map_count=655360
# 生效
sysct1 -p
```

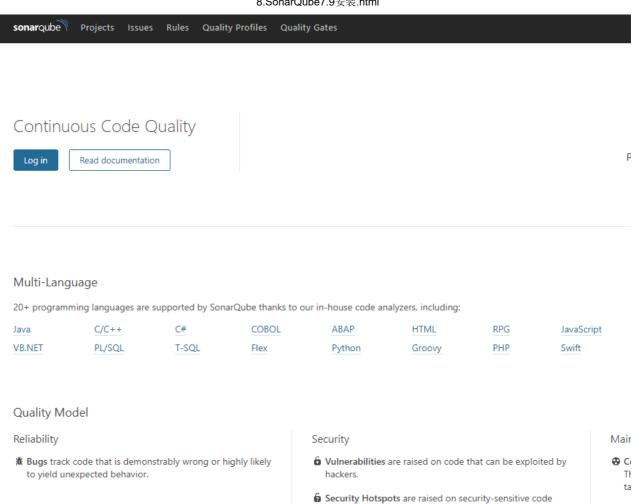
#### 重启依旧报错,查看日志发现web.log报错

```
2019.09.19 17:13:20 WARN web[][o.a.c.1.WebappClassLoaderBase] The web application [ROOT] appears to have started a thread named [elasticsearch[_client_][transport_
 java, base@11. 0. 4/sun. nio. ch. EPoll. wait (Native Method)
  java.base@11.0.4/sun.nio.ch.EPol1SelectorImp1.doSelect(EPol1SelectorImp1.java:120)
 java.base@11.0.4/sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:124) java.base@11.0.4/sun.nio.ch.SelectorImpl.select(SelectorImpl.java:136)
 app//io.netty.channel.nio.SelectedSelectionKeySetSelector.select(SelectedSelectionKeySetSelector.java:62)
 app//io.netty.channel.nio.NioEventLoop.select(NioEventLoop.java:765) app//io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:413)
 app//io.netty.util.concurrent.SingleThreadEventExecutor$5.run(SingleThreadEventExecutor.java:909)
java.base@11.0.4/java.lang.Thread.run(Thread.java:834)
2019.09.19 17:13:20 INFO web[][o.s.s.a.EmbeddedTomcat] HTTP connector enabled on port 9002
2019.09.19 17:13:20 INFO web[][o.s.p.ProcessEntryPoint] Hard stopping process
```

### 经过排查是postgresgl中sonar数据库未建立。

### 连接postgresql

CREATE DATABASE sonar WITH OWNER=postgres ENCODING='UTF-8';



that requires manual review to assess whether or not a

vulnerability exists.

启动成功。

初始化密码admin/admin

6.安装中文插件

