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mac 配置sonar与持续集成

1. 下载安装mysql server (<https://dev.mysql.com/downloads/file/?id=467574>)
安装完成后请及时重置root密码 `mysqladmin -u root -p password newpassword`
启动mysql服务 (安装完成后系统偏好设置里面会有mysql logo)
2. 创建sonar数据库(启动mysql服务后可以下载navicat客户端操作)

```
CREATE DATABASE sonar CHARACTER SET utf8 COLLATE utf8_general_ci;  
CREATE USER 'sonar' IDENTIFIED BY 'sonar';  
GRANT ALL ON sonar.* TO 'sonar'@'%' IDENTIFIED BY 'sonar';  
GRANT ALL ON sonar.* TO 'sonar'@'localhost' IDENTIFIED BY 'sonar';  
FLUSH PRIVILEGES;
```
3. 下载安装sonarqube (<https://sonarsource.bintray.com/Distribution/sonarqube/sonarqube-6.2.zip>)
下载完成直接解压
编辑conf/sonar.properties文件
`sonar.web.javaOpts=-server -Xms256m -Xmx768m -XX:
+HeapDumpOnOutOfMemoryError
sonar.jdbc.username=sonar
sonar.jdbc.password=Sonar
sonar.jdbc.url=jdbc:mysql://localhost:3306/sonar?
useUnicode=true&characterEncoding=utf8&rewriteBatchedStatements=true&useConfigs=maxP
erformance&useSSL=false`
4. 下载安装sonar-runner(<http://repo1.maven.org/maven2/org/codehaus/sonar/runner/sonar-runner-dist/2.4/sonar-runner-dist-2.4.zip>)
sonar-runner配置: sonar-runner.properties配置文件/usr/local/sonar-runner/conf/sonar-runner.properties。

```
sonar.host.url=http://localhost:9000  
#----- MySQL  
sonar.jdbc.url=jdbc:mysql://localhost:3306/sonar?  
useUnicode=true&characterEncoding=utf8  
#----- Global database settings  
sonar.jdbc.username=sonar  
sonar.jdbc.password=sonar  
#----- Default source code encoding  
sonar.sourceEncoding=UTF-8  
#----- Security (when 'sonar.forceAuthentication' is set to 'true')  
sonar.login=admin  
sonar.password=admin
```

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5. 启动sonar服务（如果没配置环境变量直接进入到解压后的sonar文件夹下的bin文件夹选择mac的服务）`./sonar.sh start`
6. 访问sonar服务：`localhost:9000/`,这时可能会出现SonarQube is under maintenance
不要慌，修改地址为`localhost:9000/setup`然后upgrade数据库就可以正常访问`localhost:9000/`
默认登录名为admin， admin
7. 到此sonar服务就搭建完毕了，接着和jenkins集成
下载sonar插件SonarQube Scanner for Jenkins
配置sonar server如下图

SonarQube servers

Environment variables ☒ Enable injection of SonarQube server configuration as build environment variable
If checked, job administrators will be able to inject a SonarQube server configuration as environment variables in the build.

SonarQube installations

Name	SonarQube-6.2
Server URL	http://localhost:9000
Server version	Default is http://localhost:9000 5.3 or higher
Server authentication token	Configuration fields depend on the SonarQube server version
SonarQube account login	SonarQube authentication token. Mandatory when anonymous access is disabled.
SonarQube account password	SonarQube account used to perform analysis. Mandatory when anonymous access is disabled. No longer used since SonarQube 5.3.

Save Apply

8. 在job中配置项目执行命令，在maven build部分

Build

Root POM `...`

Goals and options `sonar:sonar`

Advanced...

9. 运行结果查看

