# SET-UP SONARQUDE SERVER

## Install Database :-

**rpm -ivh http://repo.mysql.com/mysql57-community-release-el7.rpm**
→ install the MySQL repository package for the EL7 (Enterprise Linux 7)

**rpm --import https://repo.mysql.com/RPM-GPG-KEY-mysql-2022**
→ import GPG key to sign and verify the authenticity with mysql repo

**yum clean all**
→ to clean metadata and caches by yum package

**yum repolist**
→ check repo

**yum install mysql-server -y**
→ install package

**systemctl start mysqld**
→ Systemctl enable mysqld

**grep 'temporary password' /var/log/mysqld.log**
→ command to get temporary password for mysql login

**mysql_secure_installation**
→ to setting a root password

**Paste greped password**
**New password**
**Confirm new password**

**yum install wget epel-release -y**
→ adds the EPEL repo, broader range of software packages that are not available in the default repo

**yum install java -y**
→

**wget** https://download.bell-sw.com/java/11.0.4/bellsoft-jdk11.0.4-linux-amd64.rpm
→ to download java package file

**rpm -ivh bellsoft-jdk11.0.4-linux-amd64.rpm**
→ to install the BellSoft JDK version 11.0.4

**alternatives --config java**
→ to shift in java package

**partprobe**
→ Refresh patrtiton table

**java --version**
→ check java version (must java11 bellsoft)

---

# Configure Linux System for Sonarqube

echo 'vm.max_map_count=262144' >/etc/sysctl.conf

sysctl -p

echo '* - nofile 80000' >>/etc/security/limits.conf

sed -i -e '/query_cache_size/ d' -e '$ a query_cache_size = 15M' /etc/my.cnf

systemctl restart mysqld

---

# Configure Database for Sonarqube

**mysql -p -u root**
→ to connect mysql server

**mysql>**
**create database sonarqube;**
→ to create database

**create user 'sonarqube'@'localhost' identified by 'Redhat@123';**
→ create  user for database give password

**grant all privileges on sonarqube.* to 'sonarqube'@'localhost';**
→ give permission to user

**flush privileges;**
→ refresh permission

**exit**

**—----------database done—----------**

# Install Sonarqube

**yum install unzip -y**

**wget https://binaries.sonarsource.com/Distribution/sonarqube/sonarqube-7.9.1.zip**
→ download sonarqube zip file

**cd /opt**

**unzip ~/sonarqube-7.9.1.zip**
→ unzip sonarqube package in /opt directory

**mv sonarqube-7.9.1 sonar**
→ change name

**—----------**

# Configure Sonarqube

**sed -i -e '/^sonar.jdbc.username/ d' -e '/^sonar.jdbc.password/ d' -e '/^sonar.jdbc.url/ d' -e '/^sonar.web.host/ d' -e '/^sonar.web.port/ d' /opt/sonar/conf/sonar.properties**
→ to specific configuration for database connectivity

**sed -i -e '/#sonar.jdbc.sonar/ a sonar.jdbc.username=sonarqube' -e '/#sonar.jdbc./ a sonar.jdbc.password=Cloudblitz@123' -e '/InnoDB/ a sonar.jdbc.url=jdbc.mysql://localhost:3306/sonarqube?useUnicode=true&characterEncoding=utf&rewriteBatchedStatements=true&useConfigs=maxPerformance' -e '/#sonar.web.host/ a sonar.web.host=0.0.0.0' /opt/sonar/conf/sonar.properties**
→ to set config for database

**useradd sonar**

**chown sonar:sonar /opt/sonar/ -R**

**cd /opt/sonar/bin/linux-x86-64**

**sed -i -e '/^#RUN_AS_USER/ c RUN_AS_USER=sonarqube' sonar.sh**
→ to set default variable as sonarqube

**—----------------------------------------------------------**

# Start Sonarqube

**/opt/sonar/bin/linux*/sonar.sh start**
→ to start sonarqube service

**/opt/sonar/bin/linux*/sonar.sh status**
→ check status

**/opt/sonar/logs**

**Add port 9000 to security group**
**hit instance public ip with port9000(http://18.170.119.188:9000)**

**—----------------------------------------------------------------**

**http://18.170.119.188:9000**
**open sonerqube**

**Login**

**Username → admin**
**Password → admin**

**Create new project**

**Give name to project..... next**

**Give name to token..... next**

**Copy command**

**Connect to instance having maven installed**

**Clone application source code and file from git repo**

**Cd <repo-name>**

**Paste command given in sonarqube**

**Check sonarqube webpage**

**—----------**