**SonarQube Installation in ubuntu 16.04 t2 medium**

Use apt-get to install the required packages. nn

sudo apt-get update

sudo apt-get install unzip software-properties-common wget default-jdk

Install the PostgreSQL database service.

sudo apt-get install postgresql postgresql-contrib

Access the Postgres database service command-line.

sudo su - postgres

psql

Create a Postgres user named sonarqube,Create a Postgres database named sonarqube. Give the PostgreSQL user named sonarqube permission over the database named sonarqube

CREATE USER sonarqube WITH PASSWORD 'password';

CREATE DATABASE sonarqube OWNER sonarqube;

GRANT ALL PRIVILEGES ON DATABASE sonarqube TO sonarqube;

\q

exit

Download the Sonarqube package and move it to the OPT directory.

sudo mkdir /downloads/sonarqube -p

cd /downloads/sonarqube

sudo wget <https://binaries.sonarsource.com/Distribution/sonarqube/sonarqube-7.9.1.zip>

sudo unzip sonarqube-7.9.1.zip

sudo mv sonarqube-7.9.1 /opt/sonarqube

Create a new Linux account named sonarqube, Set the correct file permission on the sonarqube directory.

sudo adduser --system --no-create-home --group --disabled-login sonarqube

sudo chown -R sonarqube:sonarqube /opt/sonarqube

Edit the sonar.sh configuration file.

sudo vi /opt/sonarqube/bin/linux-x86-64/sonar.sh

Configure the following options:

RUN\_AS\_USER=sonarqube

Edit the sonar.properties configuration file.

sudo vi /opt/sonarqube/conf/sonar.properties

Configure the following options:

sonar.jdbc.username=sonarqube

sonar.jdbc.password=password

sonar.jdbc.url=jdbc:postgresql://localhost/sonarqube

sonar.web.javaAdditionalOpts=-server

sonar.web.host=0.0.0.0

Create a Linux configuration file named 99-sonarqube.conf

sudo vi /etc/security/limits.d/99-sonarqube.conf

Here is the content of the 99-sonarqube.conf file.

sonarqube - nofile 65536

sonarqube - nproc 4096

Edit the sysctl.conf configuration file.

sudo vi /etc/sysctl.conf

Add the following lines at the end of the sysctl.conf file.

vm.max\_map\_count=262144

fs.file-max=65536

Reboot your computer to enable the new configuration

sudo reboot

Start the Sonarqube service.

sudo /opt/sonarqube/bin/linux-x86-64/sonar.sh start

Use the following command to monitor the SonarQube log.

sudo tail -f /opt/sonarqube/logs/sonar.log