[**SonarQube**](http://mithuntechnologies-devops.blogspot.com/2019/09/sonarqube-server-integration-with.html)

### Prerequisite:-

# *SonarQuber Server Jenkins Server*

### Hardware Requirements:-

# *SonarQube server requires at least 2GB of RAM to run efficiently*

# [Amazon *EC2 t2.large*](http://aws.amazon.com/ec2/instance-types/)

# *SonarQube does not support 32-bit systems on the server side. SonarQube does, however, support 32-bit systems on the scanner side.*

### Supported Platforms:-

### Java

# *SonarQube scanners require version 8 or 11 of the JVM and the SonarQube server requires version 11. Versions beyond Java 11 are not officially supported.*

# *running SonarQube is to have Java (Oracle JRE 11 or OpenJDK 11) installed on your machine.*

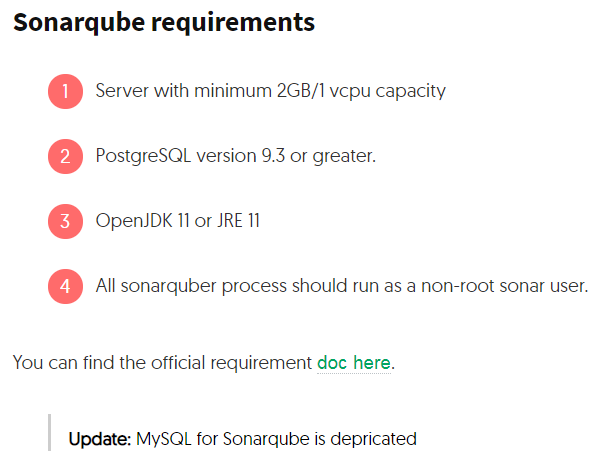
# On Mac OS X it is highly recommended to install Oracle JDK 11 instead of the corresponding Oracle JRE since the JRE installation does not fully set up your Java environment properly.

### GitHub Enterprise Integration:-

# To add Pull Request analysis to Checks in GitHub Enterprise, you must be running GitHub Enterprise version 2.14+.

### Bitbucket Server Integration:-

# To add Pull Request analysis to Code Insights in Bitbucket Server, you must be running Bitbucket Server version 5.15+.



[**SonarQube Server Installation with**](http://mithuntechnologies-devops.blogspot.com/2019/09/sonarqube-server-integration-with.html) **Ubuntu**

<https://techexpert.tips/sonarqube/sonarqube-installation-ubuntu-linux/>

1. apt-get update

2. ap-get install unzip software-properties-common wget default-jdk

3. apt-get install postgresql postgresql-contrib

4. su - postgres

5. psql

6. CREATE USER sonarqube WITH PASSWORD 'kamisam123'

7. CREATE DATABASE sonarqube OWNER sonarqube;

8. GRANT ALL PRIVILEGES ON DATABASE sonarqube TO sonarqube;

9. \q

10. mkdir /downloads/sonarqube -p

11. cd /downloads/sonarqube

12. wget https://binaries.sonarsouce.com/Distribution/sonarqube/sonarqube-7.9.1.zip

13. unzip sonarqube-7.9.1.zip

14. mv sonarqube-7.9.1 /opt/sonarqube

15. adduser --system --no-create-home --group --disabled-login sonarqube

16. chown -R sonarqube:sonarqube /opt/sonarqube

17. vi /optsonarqube/bin/linux-x86-64/sonar.sh

RUN\_AS\_USER=sonarqube

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

sonar.jdbc.usrname=sonarqube

sonar.jdbc.password=kamisama123

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

sonar.web.javaADDITIonaLOpts=-server

sonar.web.host=0.0.0.0

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

sonarqube - nofile 65536

sonarqube - nproc 4096

21. vi /etc/sysctl.conf

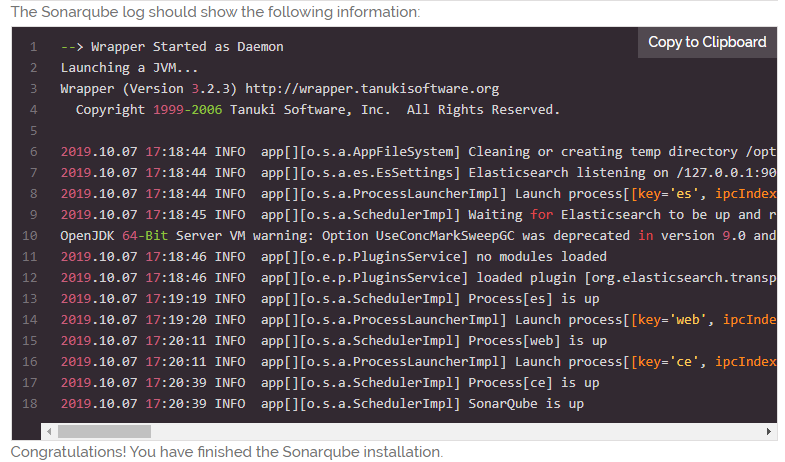
vm.max\_map\_count=262144

fs.file-max=65536

22. reboot

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

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

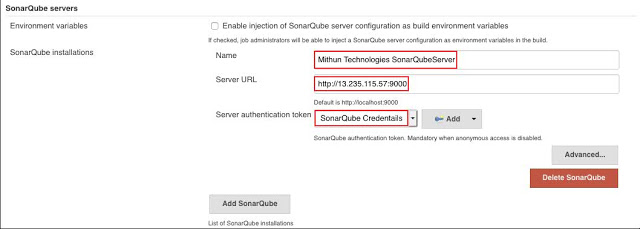


[**SonarQube Server Integration with Jenkins**](http://mithuntechnologies-devops.blogspot.com/2019/09/sonarqube-server-integration-with.html)

**Step 1)** Install **"SonarQube Scanner"**  plugin in Jenkins as follow.

**Step 2)** Integrate SonarQube server with Jenkins  as follows.

**Manage Jenkins ---> Configure System** ---> **SonarQube servers**

[](https://1.bp.blogspot.com/-qDhfPz0hRok/XZKW6upe9yI/AAAAAAAAAvc/xwM-NjMC7mYpFUmaXPp6DkQ7ktzgv_WcQCLcBGAsYHQ/s1600/SQ1.jpg)

**Generate the SonarQube server authentication token**

Login into SonarQube with Admin user.

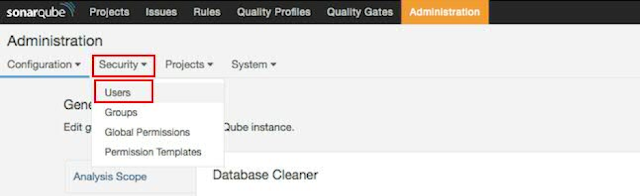
[http://<<IP Address>>:9000/](http://localhost:9000/)

Default Credentials:

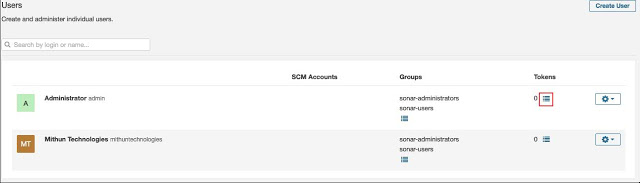
**User:**admin

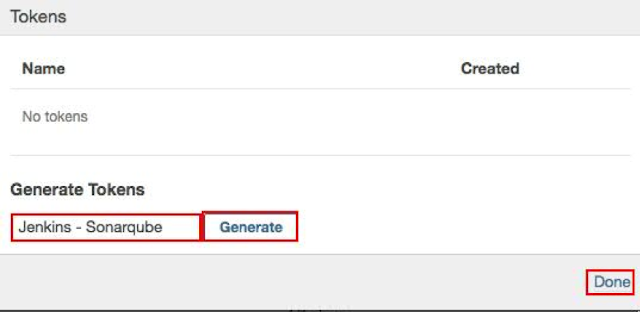
**Password:**admin

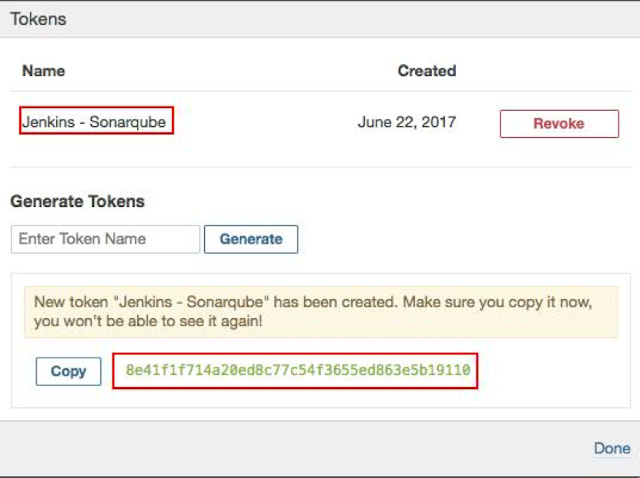
Click on Administration tab.

[](https://1.bp.blogspot.com/-9488W57J_5Y/XZKYEKf-83I/AAAAAAAAAvo/CwYzel5_pp41-HPhyCZk-p05bhcDJA5MgCLcBGAsYHQ/s1600/SQ2.png)

**Click on Tokens**

[](https://1.bp.blogspot.com/-BrcGk1Fj9FM/XZKYnXwnkzI/AAAAAAAAAvw/UHT42BC12c0xuGUpttgV92OGgg1vCsyxQCLcBGAsYHQ/s1600/SQ3.jpg)

[](https://1.bp.blogspot.com/-8yV-REJCA6g/XZKY9kGQXgI/AAAAAAAAAv4/fD2aF4gQJXIHcK7gmicEgTmVMT-dhx2QACLcBGAsYHQ/s1600/SQ4.png)

[](https://1.bp.blogspot.com/-Q31JUkOUba4/XZKZE0ESi1I/AAAAAAAAAv8/xWt1y2YqvRos_ZaK3-K8xIbZJBB9AjkYwCLcBGAsYHQ/s1600/SQ5.png)

**Step3)** Execute the SonarQube report for Maven Java Project.  
  
Select the job , to which we need to run the sonarqube report, click on configure, in Post-build Actions options, click on Add post-build action --> Select the SonarQube report for Maven project.