# SonarQube(9000)

SonarQube (previously called Sonar) is an open source software quality management tool.

- It will continuously analyse and measures quality of the source code.
- ➤ I will generate the report if any issues in html format/PDF format.
- It is a web based tool supports multiple languages (Java, C#, JS ...)
- It will support multi OS platform (Windows. MAC, Linux...).
- It will support multiple databases (MySQL, Oracle, Microsoft SQL Server, PostgreSQL)
- Supports multiple browsers (IE, Microsoft Edge, FF, Chrome, Safari)
- It will identify the below category of issues.
  - Duplicated code
  - Coding standards
  - Unit tests
  - Complex code
  - Comments
  - Potential Bugs
  - Architecture & Design
- Initially it is developed only for Java projects.
- Today it is supporting over twenty languages.
- Commercial: ABAP, Cfamily(C, C++, and Objective-C), COBOL, PL/SQL, Visual
  - o Basic, Natural, VB.Net, RPG, Swift ..
- Open source: Java, Java Script, C#, Web(HTML, JSP, JSF, ..) XML, Python, Groovy,
  - o PHP, Puppet, Lua, Groovy, FxCop, Flex, Erlang ...

# Pre requisites:

- 1. We need to take t2.large ec2-instance in AWS.
- 2. First we need install java on ec2-instance
- 3. Install SonarQube on ec2-instance.

#### SonarQube Installation Steps:

Step1: Install java on ec2

yum install -y java-1.8.0-openjdk-devel.x86\_64

Step2: Install SonarQube on ec2

sudo wget -O /etc/yum.repos.d/sonar.repo http://downloads.sourceforge.net/project/sonar-pkg/rpm/sonar.repo

yum install -y sonar

Step 3: Start SonarQube service

service sonar start

#### **Accesing From Browser:**

Ec2-instance Public IP address:portnumber for ex: 30.40.5.0:9000

After that you need to give default Credentials of SonarQube

Default username is admin and password is admin.

After that generate TOKEN, just give any name and generate TOKEN like below

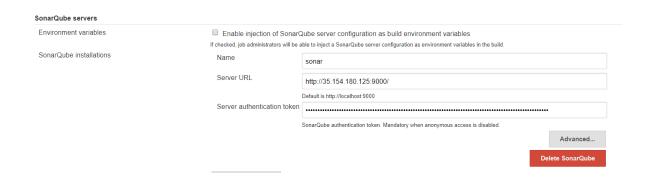
## aruna: 34471a340e69401a5ad8990f7c64af9edf23d324

Now your Jenkins is ready for code quality for your project.

## Jenkins Integrate with SonarQube:

- 1. First you need to install **SonarQube Scanner** plugin your Jenkins Server.
- 2. In Jenkins web browser go to manageJenkins and click Configure System and provide

  Name and SonarQube url , Generated Token like below



3. Update POM.xml under Properties tag provide SonarQube url like below

4.Create Jenkins Job under Free-style Job Like below Screen Shots





Finally Build the job.

After That Check your SonarQube Browser will get Your Project is Analyzed by SonarQube.

SonarQube Scanner plugin Link below

https://updates.jenkins.io/download/plugins/sonar/

Download 2.81 version in your laptop and upload plugin in your Jenkins Browser.