

Task Sonarqube integratoin with jenkins using angular code project

Step1: Installation of sonarqube in ec2

- we can install java and downlode zip file in compute
- Then unzip file and cd to bin and start the sonar.sh file from this method we can install sonarcube

Another method

- using docker pull image of `docker pull sonarqube:9.5-community`
- and then run that image like
`sudo docker run -it -d -p 9000:9000 <imagename>`

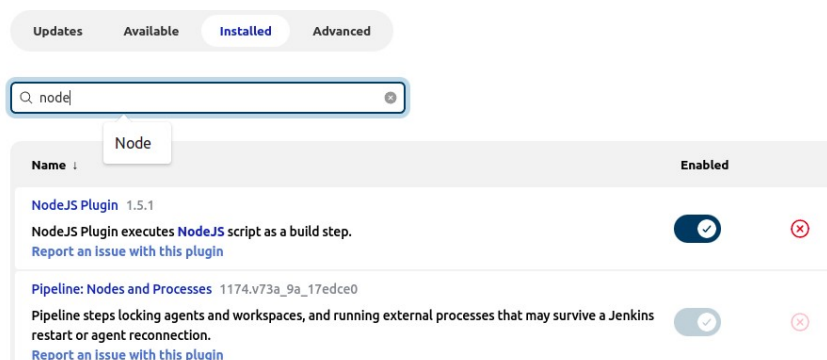
And we can access directly in ip:900

Step2: Configuration of jenkins to integrate sonarqube

- We need to install plugin like Npm and Sonar scanner
- And i just confuration of both plugin in system configuration and global system configuration i just set up both like install auto matically
- And just add the sonarqube server availibility server url and credintials as a secret text in for authentication
- for sonarqube secret text ew need generate the in setting-> security-->create new secret text (and also revoke all the old secrete text)

Step3 :like showned in screenshot

Plugin Manager



Plugin Manager

- Updates
- Available
- Installed
- Advanced

Q sonar

Name	Enabled
<div><div>SonarQube Scanner for Jenkins</div><div>2.14</div></div> <div><div>This plugin allows an easy integration of SonarQube, the open source platform for Continuous Inspection of code quality.</div><div>Report an issue with this plugin</div></div>	<div><div></div><div></div></div>

SonarQube Scanner

SonarQube Scanner installations

List of SonarQube Scanner installations on this system

Add SonarQube Scanner

SonarQube Scanner

Name

sonarqube

Install automatically

Install from Maven Central

Version

SonarQube Scanner 4.7.0.2747

Add Installer

Save

Apply

> Global Tool Configuration

NodeJS

Name

NODEJS

Install automatically

Install from nodejs.org

Version

NodeJS 18.6.0

For the underlying architecture, if available, force the installation of the 32bit package. Otherwise the build will fail

Force 32bit architecture

Global npm packages to install

Specify list of packages to install globally – see npm install -g. Note that you can fix the packages version by using the syntax "packageName@version"

npm install -g @angular/cli

Global npm packages refresh hours

Save

Apply

← → ↻ ⚠ Not secure | 52.23.238.49:8080/configure

Dashboard > Configure System >

SonarQube servers

If checked, job administrators will be able to inject a SonarQube server configuration as environment variables in the build.

☐ **Environment variables** Enable injection of SonarQube server configuration as build environment variables

SonarQube installations

List of SonarQube installations

Name

Server URL
Default is http://localhost:9000

Server authentication token
SonarQube authentication token. Mandatory when anonymous access is disabled.

Save **Apply**

screenshots to show secrte text generate

Billing Ma x | Apache vs x | Instances x | i-0699260 x | angular-n x | Configure x | Security - x | Your depl x | +

← → ↻ ⚠ Not secure | 18.234.34.150:9000/account/security/

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration

A Administrator Profile Security Notifications Projects

Tokens

If you want to enforce security by not providing credentials of a real SonarQube user to run your code scan or to invoke web services, you can provide a User Token as a replacement of the user login. This will increase the security of your installation by not letting your analysis user's password going through your network.

Generate Tokens

Generate

Name	Type	Project	Last use	Created	
chandan	User		3 hours ago	July 21, 2022	Revoke

Enter a new password

All fields marked with * are required

Old Password *

Step4 : Then in jenkins we need to craete job of freestyle project

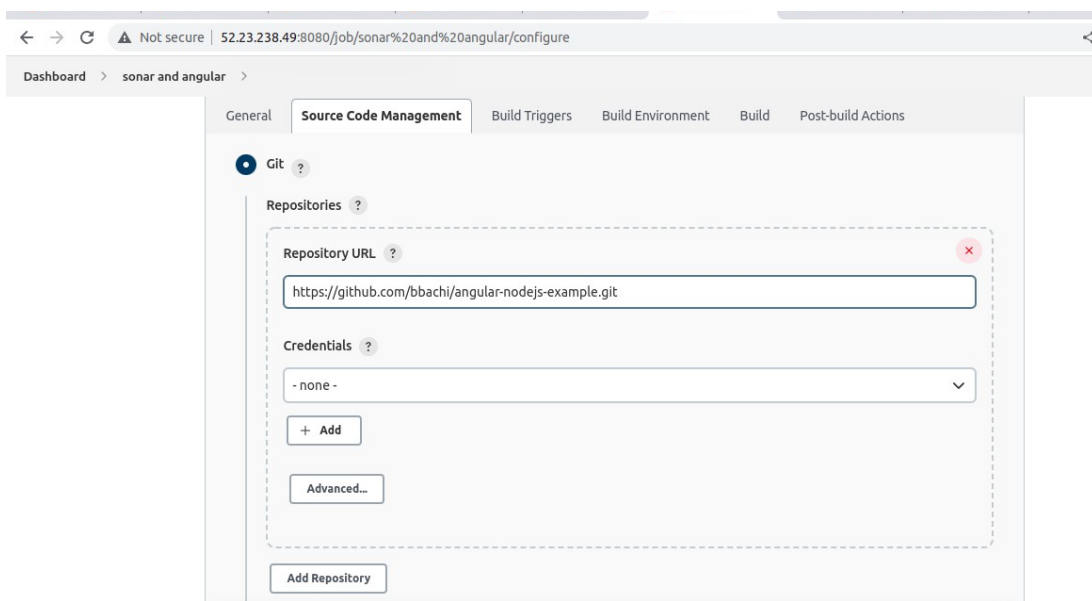
- i chose an git example url of angular code

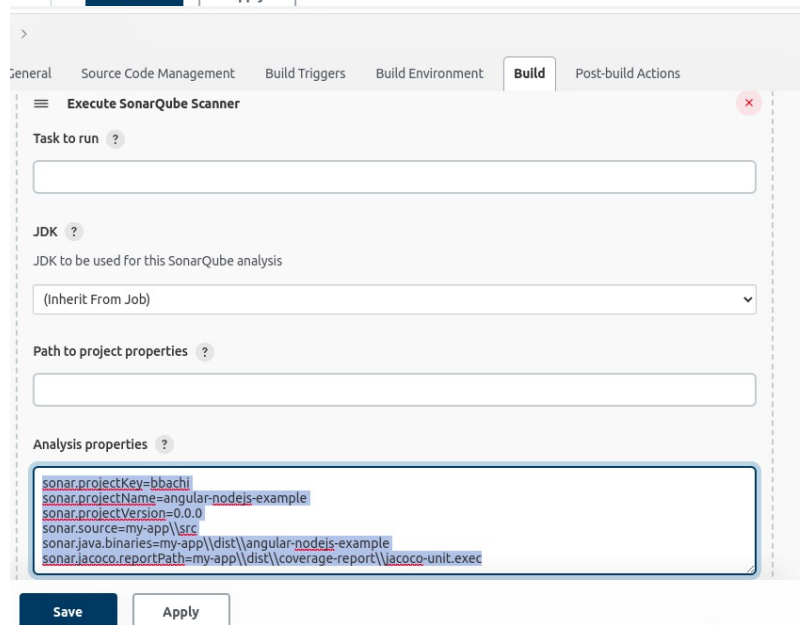
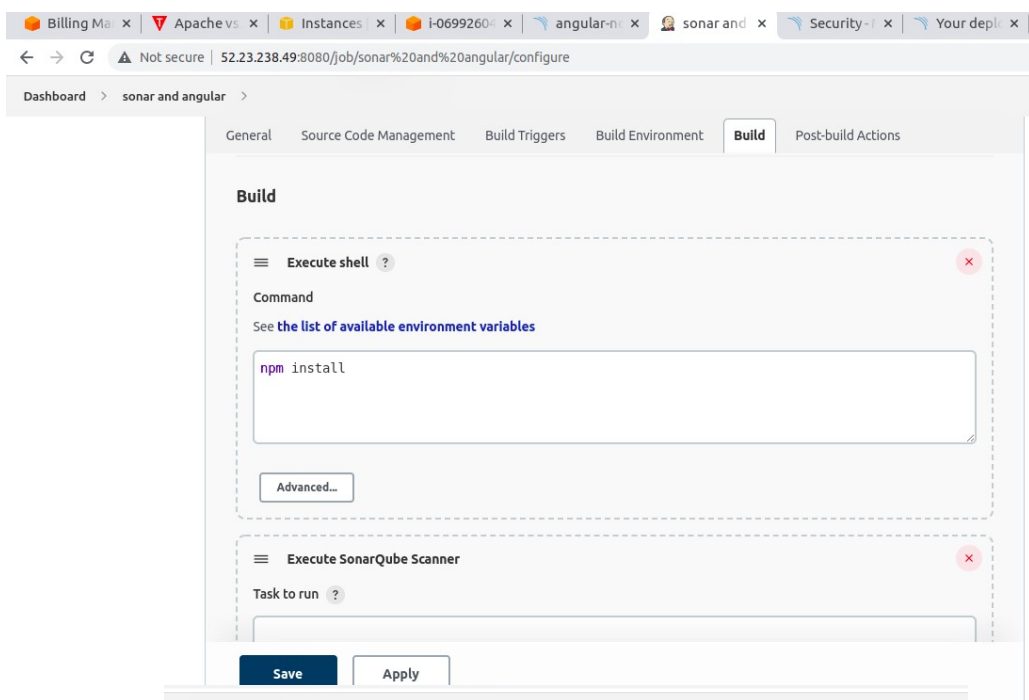
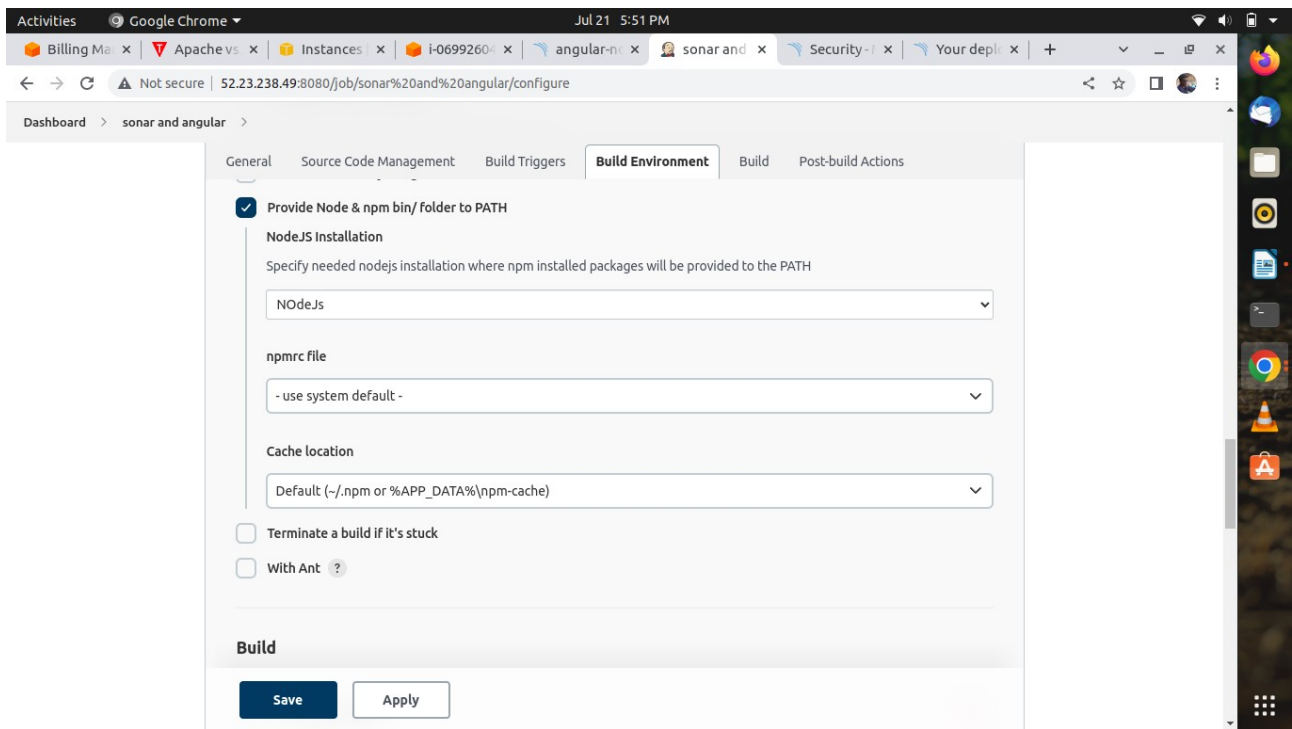
- exaple -- <https://github.com/bbachi/angular-nodejs-example.git>
- under build envirolment just add **Provide Node & npm bin/ folder to PATH**
- Then under build chosse execute shell and within shell terminal add **npm install**
- and under Add build step chosse **Execute SonarQube Scanner**
- Add the **Analysis properties**

sonar.projectKey=bbachi
sonar.projectName=angular-nodejs-example
sonar.projectVersion=0.0.0
sonar.source=my-app\\src
sonar.java.binaries=my-app\\dist\\angular-nodejs-example
sonar.jacoco.reportPath=my-app\\dist\\coverage-report\\jacoco-unit.exec

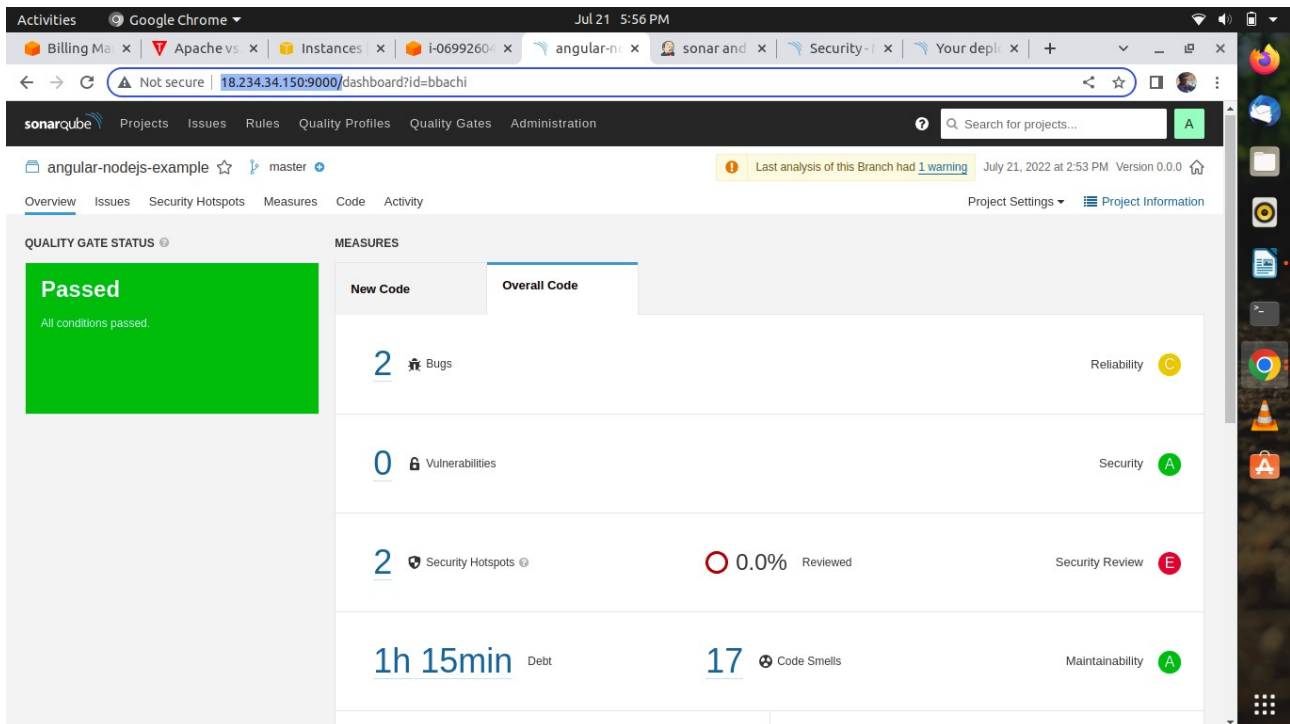
Step5 : And Save and Build the job

Step6 : Screenshot for job





Step6 : finally output shown bellow



- In this sonarqube project it will shown details of Bugs, Vulnerabilities, Security Hotspots, Code Smells, and Code Coverage details on our project
- Along with we can set quality gate for all the details to pass the job before deployed into server

Thank You