

How To -Jenkins-SonarQube Integration

Prerequisite :

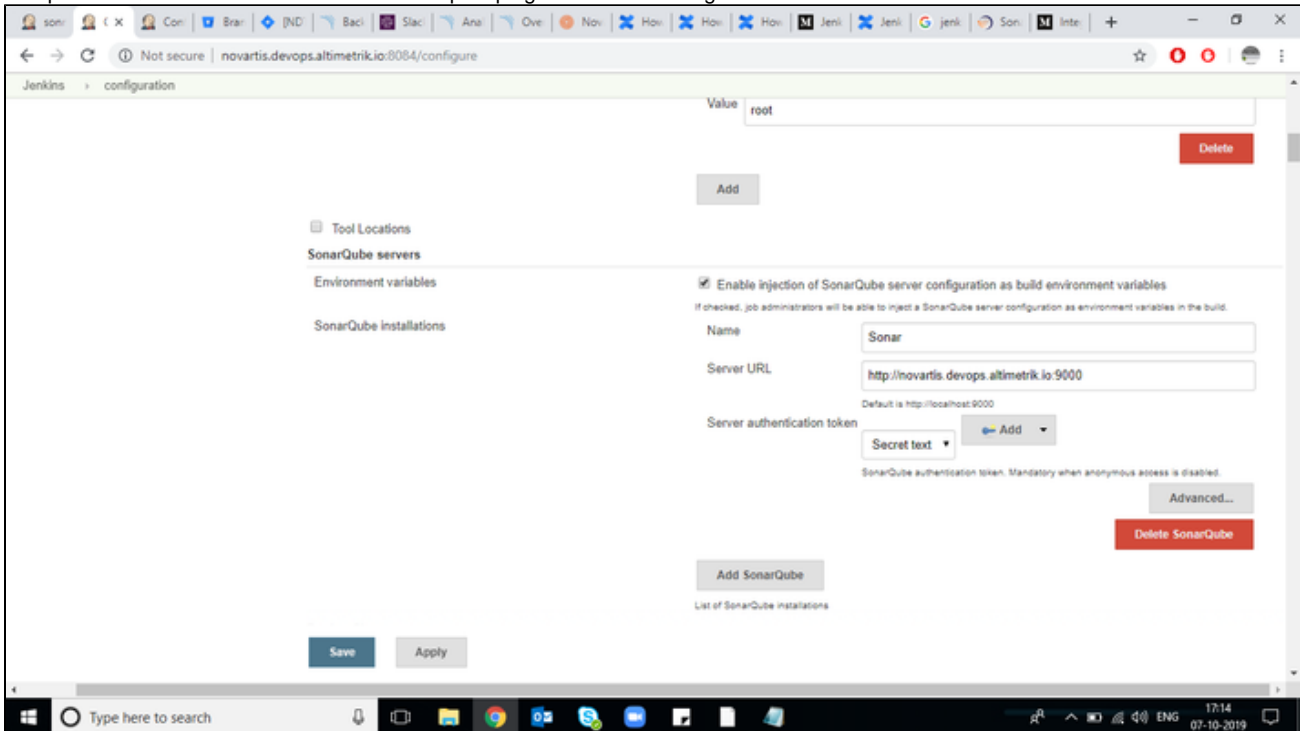
1. Jenkins is setup with Bitbucket repo.
2. SonarQube is running and you have Sonar Scanner setup in system.

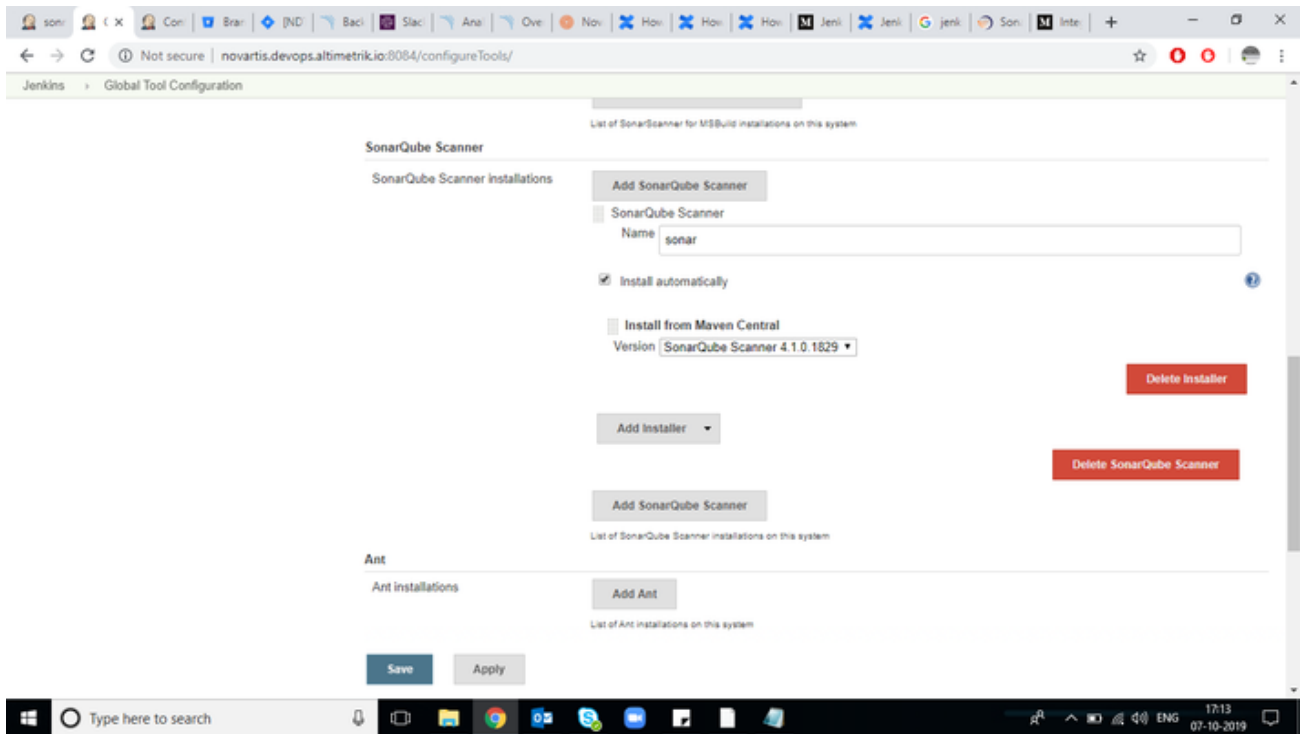
Sonarqube configurations:-

1. Go to sonarqube server and create a project.
2. Go to sonarqube dashboard and create quality profiles and create quality gates, and assign the projects. reference this document <https://altimetrik.atlassian.net/wiki/spaces/DC/pages/209453145/How+to++Configuration+for+code+check+gates>.
3. Now you can able to create the sonarqube project.

Jenkins configurations:-

1. Setup **SonarQube** with **Jenkins**- install sonarqube plugin and made configuration as below.





2. Go to project and add build step, add the properties given below or map the property file location.

```
sonarProperties += Map(  
  "sonar.host.url" -> "http://novartis.devops.altimetrik.io:9000/",  
  "sonar.projectName" -> "sonartestproject",  
  
  "sonar.sourceEncoding" -> "UTF-8",  
  "sonar.java.source" -> "1.8",  
  "sonar.sources" -> "src/main/scala",  
  "sonar.tests" -> "src/test/scala",  
  "sonar.login" -> "xxxxx",  
  "sonar.password" -> "xxxxx"
```

3. Add the following configurations for branch modelling.

The screenshot shows the Jenkins configuration page for a job named 'sonnar-scanner'. The 'Build Environment' tab is selected. The configuration includes:

- General**:
 - ☒ Prepare SonarQube Scanner environment
 - Server authentication token: [Add]
 - Small text: SonarQube authentication token. Mandatory when anonymous access is disabled. Will default to the one defined in the SonarQube installation.
 - ☐ Set Build Name
 - ☐ With Ant
- Build**:
 - ☐ Build using sbt
 - sbt launcher: sbt
 - JVM Flags: []
 - sbt Flags: -Dsbtllog.noformat=true
 - Actions: sonnarScan -Dsonnar.branch=\$branch
 - Advanced... button

At the bottom, there are 'Add build step', 'Save', and 'Apply' buttons. The Windows taskbar at the bottom shows the date as 07-10-2019 and time as 17:24.

4. build the job with branch parameter.

5. check the results in sonarqube with branch based, its created new branch with same project name.

sonarqube | Projects | Issues | Rules | Quality Profiles | Quality Gates | Administration

Search for projects, sub-projects and files...

Perspective: Overall Status | Sort by: Name | Search by project name or key | 7 projects

My Favorites | All

Filters

Quality Gate

Passed 3 | Warning 0 | Failed 3

Reliability (Bugs)

A 6 | B and worse 0 | C and worse 0 | D and worse 0 | E 0

Security (Vulnerabilities)

A 6 | B and worse 0 | C and worse 0 | D and worse 0 | E 0

Maintainability (Code Smells)

A 6 | B and worse 0 | C and worse 0 | D and worse 0 | E 0

sonartestproject Passed

0 Bugs | 0 Vulnerabilities | 0 Code Smells | 0.0% Coverage | 0.0% Duplications | 9 XS Scala | Last analysis: October 7, 2019, 4:28 PM

sonartestproject Passed

0 Bugs | 0 Vulnerabilities | 0 Code Smells | 0.0% Coverage | 0.0% Duplications | 9 XS Scala | Last analysis: October 7, 2019, 4:22 PM

sonartestproject origin/development Failed

0 Bugs | 0 Vulnerabilities | 0 Code Smells | 0.0% Coverage | 0.0% Duplications | 9 XS Scala | Last analysis: October 7, 2019, 2:09 PM

sonartestproject origin/feature/NDT-9-testing-for-jira-integrations-1 Failed

0 Bugs | 0 Vulnerabilities | 0 Code Smells | 0.0% Coverage | 0.0% Duplications | 9 XS Scala | Last analysis: October 7, 2019, 2:07 PM

thats all done !!!