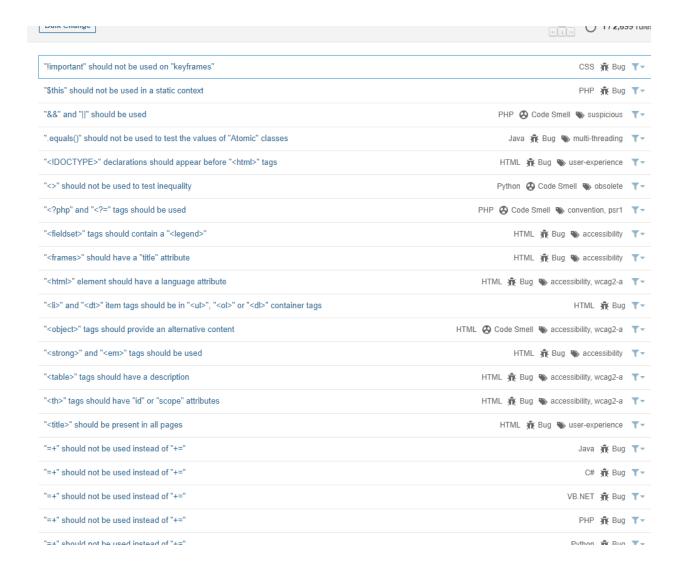
Components of sonarqube:
Sonarqube server:
Rules Database Web interface
Sonar scanner: Source code
Sonarcode.properties file
Rules:

https://blog.setapp.pl/sonarqube\_introduction https://www.youtube.com/watch?v=kzCCZ3RucsQ https://www.youtube.com/watch?v=EvOUyh5kpk0

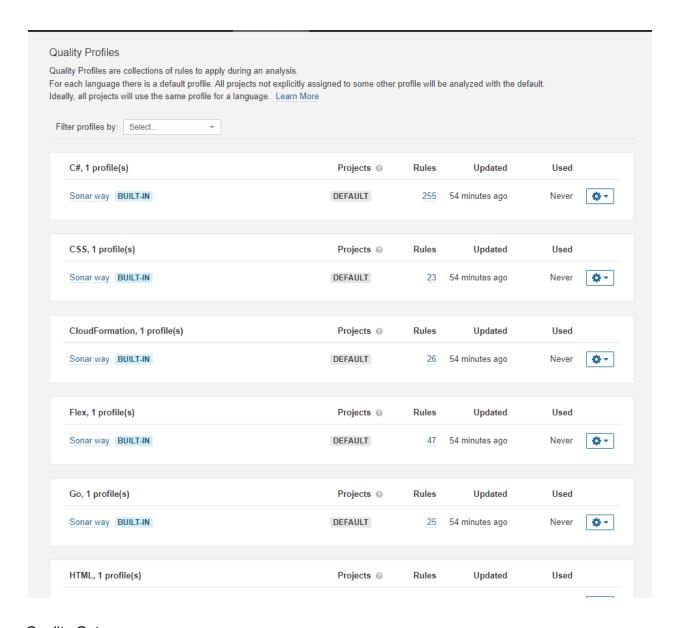


## **Quality Profiles**

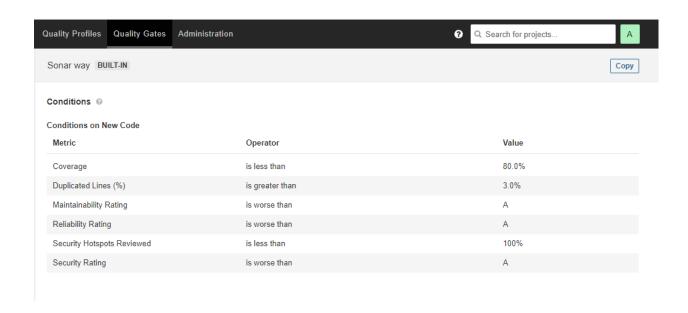
CreateRestore

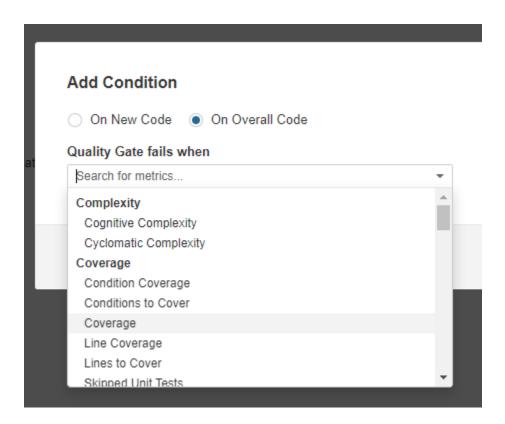
Quality Profiles are collections of rules to apply during an analysis.

For each language there is a default profile. All projects not explicitly assigned to some other profile will be analyzed with the default.



## **Quality Gates:**





Run sonar analysis

mvn clean verify sonar:sonar \

- -Dsonar.projectKey=hello-world \
- -Dsonar.host.url=http://34.125.187.50:9000 \

-Dsonar.login=048187cd83d78dc82680eea66fb9182b07050783

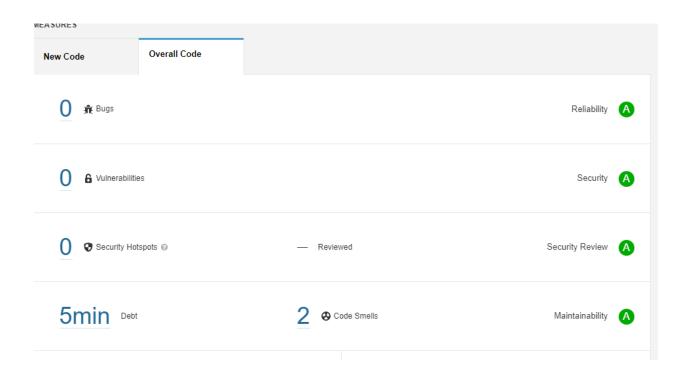
Configure SonarQube with Jenkins

# Installation

- 1. Install the SonarScanner for Jenkins via the Jenkins Update Center.
- 2. Configure your SonarQube server(s):
  - Log into Jenkins as an administrator and go to Manage Jenkins > Configure System.
  - 2. Scroll down to the SonarQube configuration section, click **Add SonarQube**, and add the values you're prompted for.
  - 3. The server authentication token should be created as a 'Secret Text' credential.

#### Jenkins file

```
pipeline{
     agent any
     stages{
            stage('SCM') {
                 steps{
                     git
                 'https://github.com/ybsgit/hello-world-new.git'
             }
             stage('SonarQube analysis') {
                 steps{
                 withSonarQubeEnv('sonarqube-new') {
                       sh "mvn sonar:sonar"
    } }
  }
}
}
```



# Pause pipeline until the Quality Gate is computed

## **Pre-requisites:**

- Configure a webhook in your SonarQube server pointing to <your Jenkins instance>/sonarqube-webhook/
- Use withSonarQubeEnv step in your pipeline (so that SonarQube taskId is correctly attached to the pipeline context).

### Declarative pipeline example:

```
pipeline {
    agent any
    stages {
```

```
stage('SCM') {
steps {
git url: 'https://github.com/foo/bar.git'
}
}
stage('build && SonarQube analysis') {
steps {
withSonarQubeEnv('My SonarQube Server') {
// Optionally use a Maven environment you've configured already
  withMaven(maven:'Maven 3.5') {
  sh 'mvn clean package sonar:sonar'
}
}
}
}
stage("Quality Gate") {
steps {
timeout(time: 1, unit: 'HOURS') {
// Parameter indicates whether to set pipeline to UNSTABLE if
Quality Gate fails
// true = set pipeline to UNSTABLE, false = don't
waitForQualityGate abortPipeline: true
}
}
}
}
}
```