



Installation du docker

- Lancer le docker Sonarqube :

```
docker run -d --name sonarqube -p 9000:9000 sonarqube
```

- Dans un navigateur, aller sur l'URL : <http://localhost:9000>
- Se connecter avec le compte "admin" (mdp: admin)

Analyse du projet spring-framework-petclinic

- Dans un terminal Ubuntu, se connecter sur le docker JenkinsCI avec la commande bash :

```
docker exec -it JenkinsCI bash
```

- Se placer dans le répertoire **"/var/jenkins_home/workspace/Petclinic"**

```
cd /var/jenkins_home/workspace/Petclinic
```

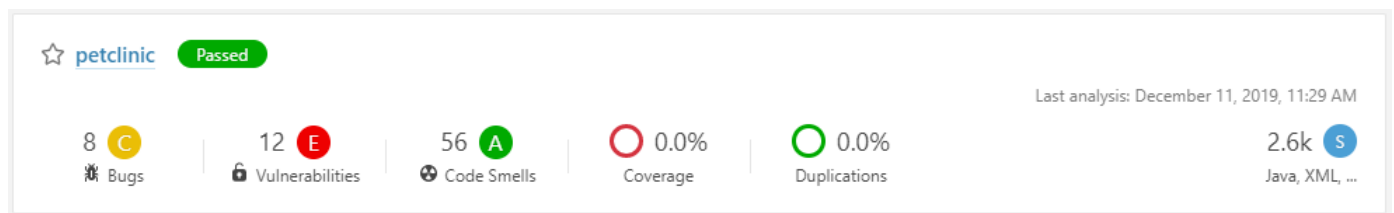
- Si le répertoire est vide, récupérer les sources du projet spring-framework-petclinic (remplacer XXXXXXX par votre compte GitHub) :

```
git clone https://github.com/XXXXXXX/spring-framework-petclinic.git
```

- Lancer une analyse sonar :

```
mvn clean verify sonar:sonar -Dsonar.host.url=http://<IP_SERVEUR_SONAR>:9000
```

- Consulter les résultats sur Sonarqube :



- Consulter la liste des bugs :

petclinic master December 11, 2019, 11:29 AM Version 4.3.11

Overview Issues Measures Code Activity Administration

My Issues All

Filters Clear All Filters

Type Bug 8 Reset

Severity

Blocker	0	Minor	4
Critical	0	Info	0
Major	4		

Resolution

Status

Security Category

Creation Date

Bulk Change

to select issues to navigate 1 / 8 issues 15min effort

src/main/webapp/WEB-INF/jsp/owners/ownerDetails.jsp

Replace this tag by . [See Rule] 7 years ago L16 accessibility

src/main/webapp/WEB-INF/jsp/pets/createOrUpdateVisitForm.jsp

Replace this tag by . [See Rule] 7 years ago L20 accessibility

Replace this tag by . [See Rule] 7 years ago L53 accessibility

src/main/webapp/WEB-INF/jsp/welcome.jsp

Add an "alt" attribute to this image. [See Rule] 4 years ago L11 accessibility

src/main/webapp/resources/less/petclinic.less

Unexpected unknown at-rule "@alert-success-text" [See Rule] 4 years ago L208 No tags

Correction d'un bug

- Dans Sonarqube, consulter le 1er bug rencontré dans le fichier "**src/main/webapp/WEB-INF/jsp/owners/ownerDetails.jsp**"
- Corriger ce bug dans le projet spring-framework-petclinic dans GitHub et faire un commit de la correction
- Relancer une analyse Sonar :

```
mvn clean verify sonar:sonar -Dsonar.host.url=http://<IP_SERVEUR_SONAR>:9000
```

- Vérifier que le bug a bien disparu dans l'analyse

Ajout d'un nouveau bug

- A partir du menu "**Rules**", sélectionner une règle de type "**Bug**" dans le langage "**Java**"
- Copier la partie "**Noncompliant Code Example**" de cette règle et coller les lignes dans un fichier source Java du projet spring-framework-petclinic

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration

Filters Clear All Filters

Search for rules...

Language Java Clear

Search for languages...

Java 537

Python 439

C# 367

JavaScript 216

PHP 181

VB.NET 138

TypeScript 129

Flex 81

HTML 62

Kotlin 49

Ruby 48

Scala 47

Return to List

"= +" should not be used instead of "+ ="

Bug Major Main sources No tags Available Since Dec 06, 2019 SonarAnalyzer (Java) Constant/Issue: 2min

The use of operators pairs (`==` , `!=` or `! =`) where the reversed, single operator was meant (`+=` , `-=` or `!=`) will compile as results.

This rule raises an issue when `==` , `!=` , or `! =` is used without any spacing between the two operators and when there is at least one space between the two operators.

Noncompliant Code Example

```
int target = -5;
int num = 3;

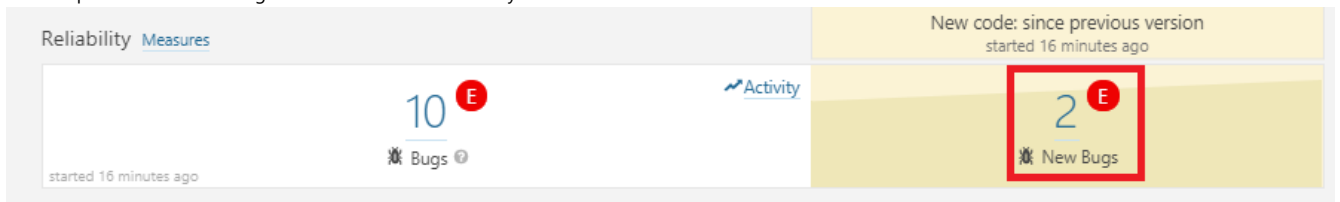
target -= num; // Noncompliant; target = -3. Is that really what's meant?
target += num; // Noncompliant; target = 3
```

Compliant Solution

- Relancer une analyse Sonar :

```
mvn clean verify sonar:sonar -Dsonar.host.url=http://<IP_SERVEUR_SONAR>:9000
```

- Vérifier que votre nouveau bug est bien remonté dans l'analyse Sonar



petclinic master

December 12, 2019, 10:11 PM Version 4.3.11

Overview Issues Measures Code Activity Administration

My Issues All

Clear All Filters

Filters

Type Bug Reset

Bug 2

Vulnerability 0

Code Smell 4

Security Hotspot 0

Ctrl + click to add to selection

Severity

Blocker 2 Minor 0

Bulk Change

to select issues to navigate 1 / 2 issues 4min effort

src/.../samples/petclinic/util/EntityUtils.java

Was "-=" meant instead? See Rule 2 minutes ago L49 No tags

Was "+=" meant instead? See Rule 2 minutes ago L50 No tags

2 of 2 shown

This screenshot shows the SonarQube Issues page for the 'petclinic' project. The top navigation bar includes 'Overview', 'Issues', 'Measures', 'Code', 'Activity', and 'Administration'. The 'Issues' tab is active, showing a list of issues. On the left, there's a 'Filters' sidebar with 'Type' set to 'Bug' (2 issues) and 'Severity' set to 'Blocker' (2 issues) and 'Minor' (0 issues). The main area displays two issues, both titled 'Was "-=" meant instead?' and 'Was "+=" meant instead?', both with a severity of 'Blocker' and a location of 'src/.../samples/petclinic/util/EntityUtils.java'. The first issue is at line 49 and the second is at line 50. Both issues were reported 2 minutes ago and have a '4min effort' estimate. The 'New Bugs' card from the previous snippet is highlighted with a red box.