

# Project Issue Report(이슈 출력) for SonarQube

이 문서는 CURVC Project Report for SonarQube 플러그인 정보를 공유하기 위해 작성되었다.

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## 주요 기능

CURVC Project Report for SonarQube는 SonarQube의 이슈 리스트를 리포트로 출력하는 애드온으로 다음과 같은 기능을 가진다.

- SonarQube 프로젝트의 이슈 요약 정보
  - 요약 정보
  - 이슈 룰 정보
- SonarQube 프로젝트의 이슈 리스트 출력
  - 전체 이슈를 PDF로 Export
  - 룰과 설명, 이슈 코드 라인 정보 등
- 이슈 타입에 따른 필터 제공
- 이슈 Severity에 따른 필터 제공

## 플러그인 설치

### 플러그인 설치 파일 다운로드

전송된 파일 CURVC Project Report for SonarQube.zip 파일을 다운로드 받습니다.

압축파일을 해제하고 [project-report-0.5.0.jar](#) 파일을 준비합니다.

### 플러그인 설치 파일 복사

SonarQube 서버의 extensions\plugins 경로에 설치 파일([project-report-0.5.0.jar](#))을 복사하여 넣습니다.

- 예) D:\apps\Sonarsource\sonarqube-8.5.1.38104\extensions\plugins

### SonarQube 서버 재시작

SonarQube 서버를 재시작하면 애드온이 자동으로 로드 됩니다.

## 리포트 보기

SonarQube Project Report를 확인하기 위해 특정 SonarQube 프로젝트로 이동합니다.

### Project report 확인

Project report를 확인하기 위해 상단 More > Project report 메뉴를 선택합니다.

The screenshot displays the SonarQube web interface. The top navigation bar includes links for Projects, Issues, Rules, Quality Profiles, Quality Gates, and Administration. A search bar is present on the right. The main header shows the project name 'Sample Sonar Scanner' and a status 'master'. A notification indicates 'Last analysis had 2 warnings' on November 23, 2020, at 3:41 PM. The left sidebar contains a 'Report filter' section with checkboxes for Issue Type (Reliability, Security, Maintainability) and Severity (Blocker, Critical, Major, Minor, Info). The main content area shows a 'Project report' for 'Sample Sonar Scanner'. It includes a 'SonarQube Report (Summary)' table with details like Project, User, Date, Profile, and Gate. Below this is a 'Summary' table showing various metrics such as Quality Gate (Passed), Reliability, Security, Maintainability, Coverage, Duplications, Unresolved, and Fixed. At the bottom, there is a 'Rules (10)' table listing specific rules with their types, descriptions, severities, and total counts.

Project	Sample Sonar Scanner		
User	Administrator	Date	2021-01-07 20:22:01
Profile	Sonar way (flex), Sonar way (js), Sonar way (kotlin), Sonar way (php), Sonar way (py), Sonar way (web), Sonar way (xml)	Gate	Sonar way

  

Quality Gate	Passed	Language	flex, kotlin, php, py, web, xml
Reliability	1 ( C )	Files	16
Security	1 ( B )	Classes	3
Maintainability	33 ( A ) - 0d 3h	Functions	14
Coverage	1.2%	LoC	629
Duplications	23.8%	Lines	1067
Unresolved	35	False Positive	0
Fixed	3	Won't Fix	0

  

Type	Rule	Severity	Total
Reliability	"<html>" element should have a language attribute	Major	1
Security	Credentials should not be hard-coded	Blocker	1
Maintainability	The "print" statement should not be used	Major	18
Maintainability	Unused local variables should be removed	Minor	8

## SonarQube 분석 결과 PDF 출력하기

### PDF(Summary) - 요약 정보 출력

화면에 출력되는 SonarQube 분석 결과를 PDF 파일로 Export 합니다.

## SonarQube Report

Project	Sample Sonar Scanner		
User	Administrator	Date	2021-01-07 20:26:19
Profile	Sonar way (flex), Sonar way (js), Sonar way (kotlin), Sonar way (php), Sonar way (py), Sonar way (web), Sonar way (xml)	Gate	Sonar way

## Summary

Quality Gate	Passed	Language	flex, kotlin, php, py, web, xml
Reliability	1 (C)	Files	16
Security	1 (B)	Classes	3
Maintainability	33 (A) - 0d 3h	Functions	14
Coverage	1.2%	LoC	629
Duplications	23.8%	Lines	1067
Unresolved	35	False Positive	0
Fixed	3	Won't Fix	0

## Rules (10)

Issue Type : Reliability, Security, Maintainability  
Severity : Blocker, Critical, Major, Minor, Info

Type	Rule	Severity	Total
Reliability	"<html>" element should have a language attribute	Major	1
Security	Credentials should not be hard-coded	Blocker	1
Maintainability	The "print" statement should not be used	Major	18
Maintainability	Unused local variables should be removed	Minor	8
Maintainability	Sections of code should not be commented out	Major	2
Maintainability	Cognitive Complexity of functions should not be too high	Critical	1
Maintainability	Source files should not have any duplicated blocks	Major	1
Maintainability	Functions should not be empty	Critical	1
Maintainability	Methods should not have identical implementations	Major	1
Maintainability	Class names should comply with a naming convention	Minor	1

## PDF(Issue) - 이슈 리스트 출력

SonarQube 분석을 통해 발견된 이슈 리스트를 PDF 파일로 Export 합니다.

## Issue List (35)

Issue Type : Reliability, Security, Maintainability  
Severity : Blocker, Critical, Major, Minor, Info

Type	Maintainability	Severity	Critical
Tag	brain-overload		
Rule Name	Cognitive Complexity of functions should not be too high		
Description	Cognitive Complexity is a measure of how hard the control flow of a function is to understand. Functions with high Cognitive Complexity will be difficult to maintain.		
Path / Line	src/samples/letters.py / 67		
Defect Code	<pre>65: # Play a single game 66: 67: def play_once(): 68:     # Choose a random number between 0 and 26, inclusive. 69:     choice=26*random.random()</pre>		

Type	Maintainability	Severity	Critical
Tag	suspicious		
Rule Name	Functions should not be empty		
Description	There are several reasons for a function not to have a function body:		
Path / Line	src/kotlin/sample.kt / 7		

Defect Code	<pre>5: 6: // Code Smell - Empty function 7: fun emptyFunction() { 8: } 9:</pre>
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Type	Maintainability	Severity	Major
Tag	obsolete, python3		
Rule Name	The "print" statement should not be used		
Description	The print statement was removed in Python 3.0. The built-in function should be used instead.		

## 리포트 필터

필터는 PDF로 출력하기 전에 출력 결과를 필터할 수 있게 해줍니다.

출력하고 싶은 Issue Type과 Severity를 선택할 수 있습니다.