

SonarQube Plugin 설치하기

이 문서는 SonarQube Plugin 설치가이드를 공유하기 위해 작성되었다.

도구명	SonarQube CE
버전	9.4

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 - [SonarQube Marketplace Plugin 설치](#)
 - [SonarQube Marketplace Plugin 제거](#)
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SonarQube Marketplace 이용

SonarQube Marketplace를 통해서 설치하는 방법과, 서버에 직접 설치하는 방법을 가이드한다.

SonarQube Marketplace Plugin 설치

- **마켓플레이스 접속이 가능해야하므로 외부 인터넷이 가능한 환경만 가능**

1. 관리자 계정으로 로그인 후 상단 Administration → Marketplace 메뉴에 진입한다.

The screenshot shows the SonarQube Administration interface. The top navigation bar includes 'Administration', 'Projects', 'Issues', 'Rules', 'Quality Profiles', 'Quality Gates', and 'Administration'. The 'Administration' menu is highlighted. Below the navigation bar, the 'Marketplace' menu item is highlighted. The main content area shows the 'Marketplace' page with the following sections:

- Administration**
 - Configuration ▾ Security ▾ Projects ▾ System **Marketplace**
- Marketplace**

You are currently running a Community Edition.

Discover the additional benefits offered in SonarQube Commercial Editions

Developer Edition

Built for Developers by Developers

Community Edition functionality plus:

 - PR / MR decoration & Quality Gate
 - Taint analysis / Injection flaw detection for Java, C#, PHP, Python, JS & TS
 - Branch analysis
 - Project aggregation
 - Additional languages: C, C++, Obj-C, PS/SQL, ABAP, TSQL & Swift

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Enterprise Edition

Designed to Meet Enterprise Requirements

Developer Edition functionality plus:

 - Faster analysis with parallel processing
 - OWASP/CWE security reports
 - Portfolio management
 - Executive reporting
 - Project transfer
 - Additional languages: Apex, COBOL, PL/I, RPG & VB6

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Data Center Edition

Designed for High Availability and Scalability

Enterprise Edition functionality plus:

 - Component redundancy
 - Data resiliency
 - Horizontal scalability

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- Plugins**

Plugins available in the Marketplace are not provided or supported by SonarSource. Please reach out directly to their maintainers for support.

[All](#) [Installed](#) [Updates Only](#)

1C (BSL) Community Plugin **LANGUAGES** **1.10.0** 4 new rules, bug fixes. ...

Code Analyzer for 1C (BSL)

[Homepage](#) [Issue Tracker](#)

Licensed under GNU LGPL v3

Developed by 1c-syntax

[Install](#)

2. 하단 Marketplace에 등록된 Plugin 목록에서 설치할 Plugin 우측 Install 버튼을 클릭한다.

Administration

Configuration ▾ Security ▾ Projects ▾ System Marketplace

Plugins

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All Installed Updates Only

1C (BSL) Community Plugin LANGUAGES Code Analyzer for 1C (BSL)	1.10.0 4 new rules, bug fixes. ...	Homepage Issue Tracker Licensed under GNU LGPL v3 Developed by 1c-syntax	Install
3D Code Metrics GOVERNANCE Displays 3D view of your source code as a city	3.7 Support for SQ 7.1+ ...	Homepage Issue Tracker Licensed under Commercial Developed by excentia	<input type="checkbox"/> I accept the Terms and Conditions Install
AEM Rules for SonarQube EXTERNAL ANALYSERS Adds rules for AEM Java development	1.6 SonarQube 8.9 LTS compatibility release due to underlying Java plugin API changes ...	Homepage Issue Tracker Licensed under The Apache Software Li... Developed by Wunderman Thompson Technology	Install
Ansible Lint EXTERNAL ANALYSERS Analyze Ansible playbooks.	2.5.1 Support for SonarQube 9.2 ...	Homepage Issue Tracker Licensed under Apache License, Versio...	Install
Apigee EXTERNAL ANALYSERS Adds XML rules test Apigee approxies.	3.0.1 Support for SQ 8.8+ ...	Homepage Issue Tracker Licensed under Apache License, Versio... Developed by Crédit Mutuel Arkéa	Install
Azure Active Directory (AAD) Authentication Plug-in for SonarQube INTEGRATION Allows the use of Azure Active Directory as an authentication source for SonarQube.	1.2.0 Group sync enhancements including transitive members. Code cleanup. ...	Homepage Issue Tracker Licensed under The MIT License (MIT) Developed by ALM DevOps Rangers	Install

■ 검색 필드를 통해 원하는 플러그인 검색 가능

Administration

Configuration ▾ Security ▾ Projects ▾ System Marketplace

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- Taint analysis / Injection flaw detection for Java, C#, PHP, Python, JS & TS
- Branch analysis
- Project aggregation
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[Request a free trial](#)

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- Executive reporting
- Project transfer
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- Horizontal scalability

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Plugins

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All Installed Updates Only

Korean Pack LOCALIZATION Language Pack for Korean	1.7.0 Support for SonarQube 7.0 ...	Homepage Issue Tracker Licensed under GNU LGPL 3 Developed by creatinov	Install
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1 shown

SonarQube™ technology is powered by SonarSource SA
Community Edition - Version 9.4 (build 54424) - LGPL v3 - Community - Documentation - Plugins - Web API

3. Install 버튼 클릭시 설치중 아이콘이 표시되고, 완료시 다음과 같이 **Install Pending**으로 표시된다.

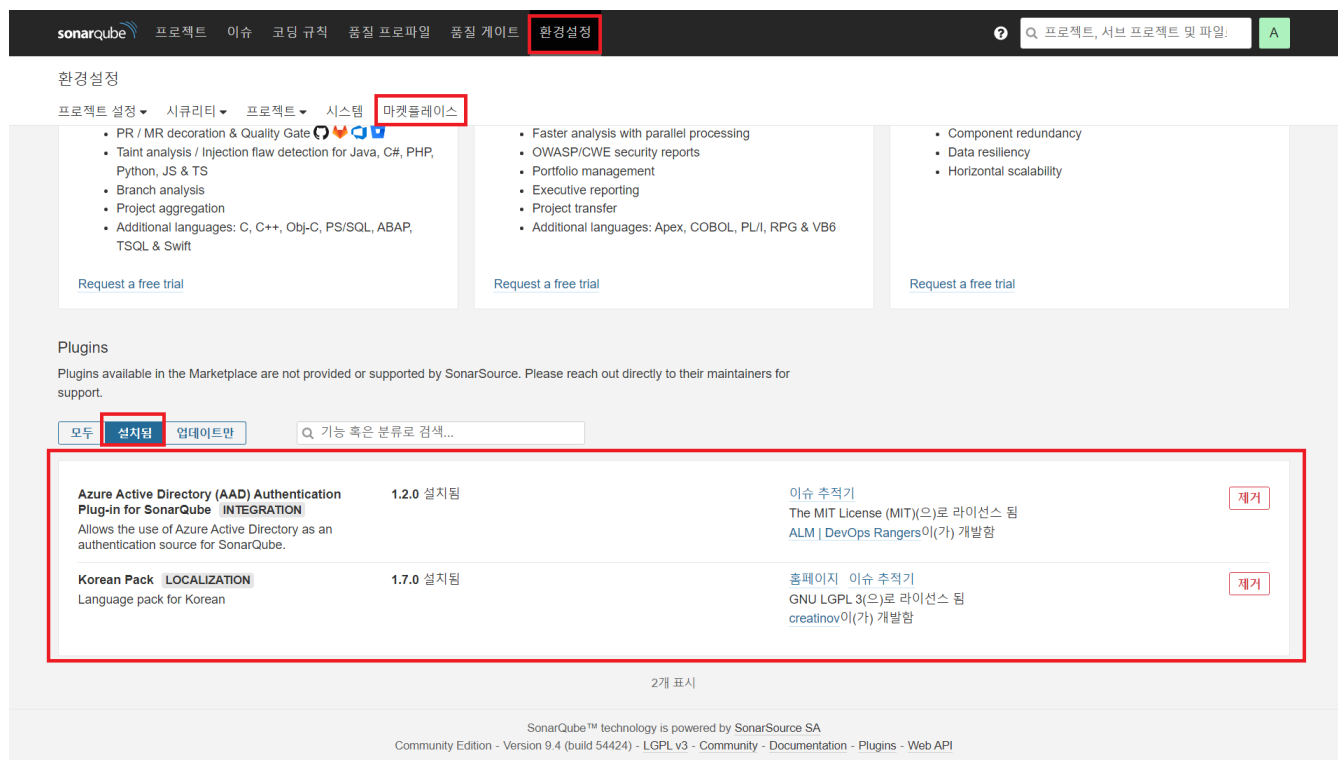
상단에는 안내 메시지가 표시되며, 설치한 Plugin을 적용하기 위한 **재시작(Restart Server)** 버튼과 취소를 위한 **원복(Revert)** 버튼을 제공한다.

The screenshot shows the SonarQube Administration interface. At the top, there's a navigation bar with 'Administration' selected. Below it, a message states: 'SonarQube needs to be restarted in order to install 2 plugins'. A red box highlights the 'Restart Server' button next to this message. The page is divided into three columns for different editions: Community Edition, Developer Edition, and Enterprise Edition, each listing additional functionalities. Below these, the 'Plugins' section shows a list of available plugins. The 'Korean Pack' plugin is highlighted with a red box, showing its version (1.7.0) and status (Install Pending).

4. 재시작(Restart Server) 버튼을 클릭하면 다음과 같이 한번더 물어보고, **Restart** 버튼을 클릭하여 서버를 재시작한다.

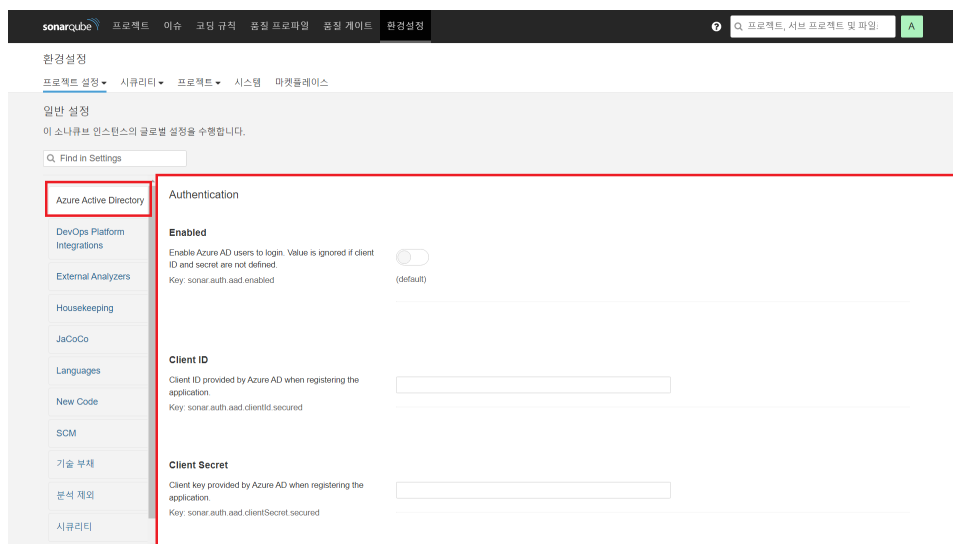
This screenshot shows the same SonarQube Administration page as before, but with a 'Restart Server' dialog box open in the center. The dialog box contains the text: 'Are you sure you want to restart the server? The restart will first wait for ongoing background tasks to complete. Forcing the shutdown is not recommended and can interrupt the processing of analysis reports.' At the bottom of the dialog, there are two buttons: 'Restart' and 'Cancel'. The 'Restart' button is highlighted with a red box. The background page is dimmed, showing the same navigation and plugin information as the previous screenshot.

5. 재시작 완료 후 다시 Marketplace 메뉴에 진입하여 Plugin 목록의 **Installed(설치됨)** 탭 클릭 시 위에서 설치한 Plugin 을 확인할 수 있다.



6. SonarQube Plugin은 종류에 따라서 구동방식이 다를 수 있다.

- Korean Pack Plugin : 한국어팩 Plugin으로 설치시 바로 적용되어 메뉴 등이 한글로 번역되어 표시된다.
(별도 Plugin을 위한 메뉴 제공되지 않아 삭제 외엔 비활성화 불가능)
- Azure Active Directory (AAD) Authentication Plugin : Azure AD를 Integration 하기 위한 Plugin으로 설정 메뉴를 제공한다.



SonarQube Marketplace Plugin 제거

위 설치방법과 동일한 순서로 Marketplace Plugin 목록에서 설치한 Plugin의 **제거(Uninstall)** 버튼 클릭 후 **재시작(Restart Server)** 버튼으로 서버 재시작시, 제거된다.

sonarqube 프로젝트 이슈 코딩 규칙 품질 프로파일 품질 게이트 환경설정 ? Q 프로젝트, 서버 프로젝트 및 파일: A

환경설정

프로젝트 설정 ▾ 시큐리티 ▾ 프로젝트 ▾ 시스템 마켓플레이스

Server restart 원복

SonarQube needs to be restarted in order to 1 플러그인 삭제

- Python, JS & TS
 - Branch analysis
 - Project aggregation
 - Additional languages: C, C++, Obj-C, PS/SQL, ABAP, TSQL & Swift[Request a free trial](#)
- Portfolio management
 - Executive reporting
 - Project transfer
 - Additional languages: Apex, COBOL, PL/I, RPG & VB6[Request a free trial](#)
- Horizontal scalability
 [Request a free trial](#)

Plugins

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모두 설치됨 업데이트만 Q 기능 혹은 분류로 검색...

Azure Active Directory (AAD) Authentication Plug-in for SonarQube INTEGRATION Allows the use of Azure Active Directory as an authentication source for SonarQube.	1.2.0 설치됨	이슈 추적기 The MIT License (MIT)(으)로 라이선스 됨 ALM DevOps Rangers이(가) 개발함	제거
Korean Pack LOCALIZATION Language pack for Korean	1.7.0 설치됨	홈페이지 이슈 추적기 GNU LGPL 3(으)로 라이선스 됨 creatinovy이(가) 개발함	제거 대기

2개 표시

SonarQube™ technology is powered by SonarSource SA
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한국어팩 Plugin 제거 후 서버 재시작 시 한국어 번역 효과 제거되고, 설치된 Plugin 목록에서도 사라짐

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration ? Q Search for projects... A

Administration

Configuration ▾ Security ▾ Projects ▾ System 마켓플레이스

Built for Developers by Developers

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- Horizontal scalability

[Request a free trial](#)

Plugins

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All Installed Updates Only Q Search by features, tags, or categories...

Azure Active Directory (AAD) Authentication Plug-in for SonarQube INTEGRATION Allows the use of Azure Active Directory as an authentication source for SonarQube.	1.2.0 installed	Issue Tracker Licensed under The MIT License (MIT) Developed by ALM DevOps Rangers	Uninstall
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1 shown

SonarQube™ technology is powered by SonarSource SA
Community Edition - Version 9.4 (build 54424) - LGPL v3 - Community - Documentation - Plugins - Web API

SonarQube Plugin 수동 설치

- 외부 인터넷이 안되는 환경에서 Plugin 다운로드 및 서버에 업로드하여 설치

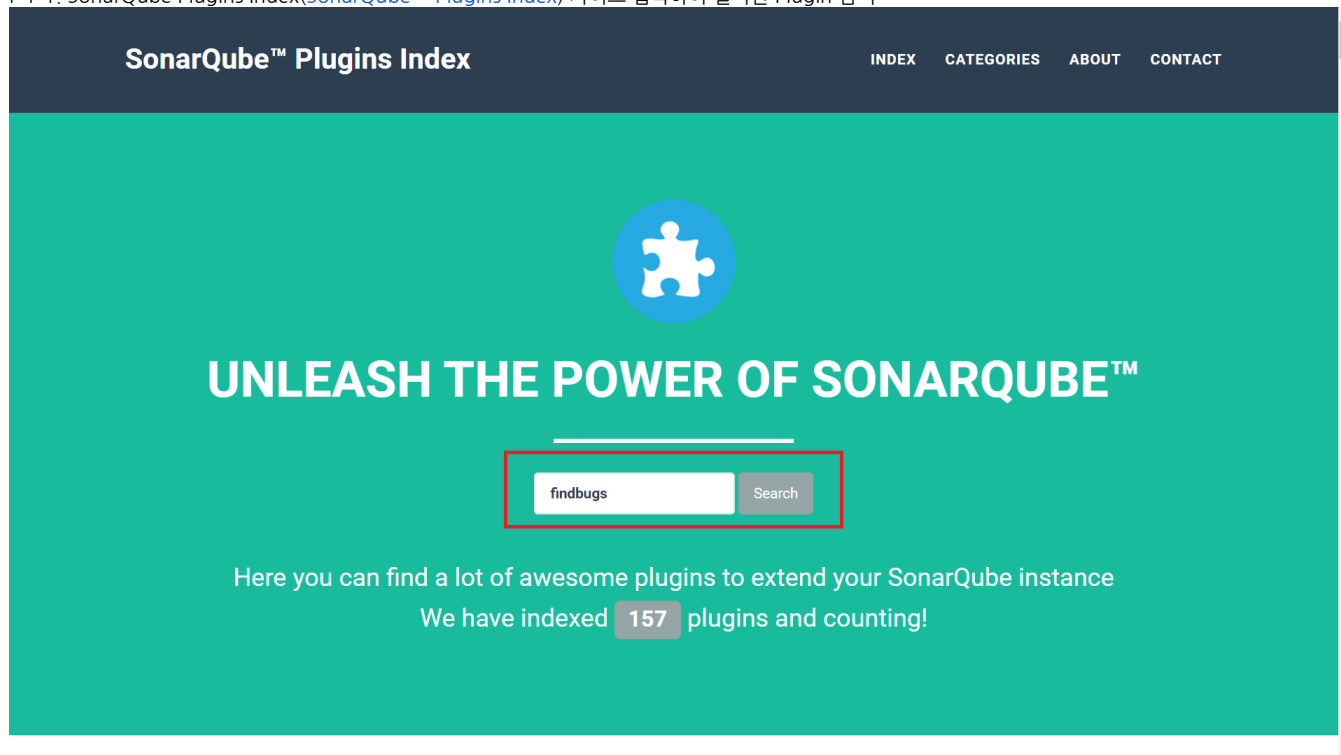
1. 설치할 SonarQube Plugin을 다운로드 한다.

- 퍼블릭 Plugin은 Github / [SonarQube Plugins Index](#) 사이트 등에서 검색하여 다운로드 가능
- 이 가이드에서는 Findbugs Plugin을 다운로드하여 수동 설치 방법 가이드
 - Findbugs Plugin : Java 관련 Rule Sets(=Quality Profiles) 제공

1-1. SonarQube Plugins Index 사이트 통하여 다운로드

- 최신버전 업로드가 되지 않고 있어, SonarQube Plugins Index 사이트 사용 비권장
- 구글링을 통해 설치한 Plugin 공식 홈페이지에서 다운로드(ex Findbugs Plugin의 경우 GitHub)

1-1-1. SonarQube Plugins Index([SonarQube™ Plugins Index](#)) 사이트 접속하여 설치한 Plugin 검색



1-1-2. 검색 결과 Plugin 선택

The screenshot shows the SonarQube Plugins Index page. At the top, there is a dark blue header with the text "SonarQube™ Plugins Index" and navigation links: INDEX, CATEGORIES, ABOUT, and CONTACT. Below the header, there is a search bar with the text "findbugs" and a "Search" button. Below the search bar, it says "Plugins 1". A red box highlights a plugin card for "FINDBUGS". The card contains the text "FINDBUGS", "Provide Findbugs rules for analysis of Java projects", and a button labeled "EXTERNAL ANALYSERS". At the bottom of the page, there is a dark blue footer with the text "SonarQube™ is a trademark that belongs to SonarSource SA. For further information, please visit www.sonarqube.org" and "Copyright © sonarplugins.com 2021".

1-1-3. 다운로드(version x.xx.x) 버튼 클릭하여 plugin.jar 파일 다운로드

The screenshot shows the SonarQube Findbugs plugin page. At the top, there is a dark blue header with the text "SonarQube™ Plugins Index" and navigation links: INDEX, CATEGORIES, ABOUT, and CONTACT. Below the header, the page title "FINDBUGS" is displayed. Below the title, there are two buttons: "EXTERNAL ANALYSERS" and "GNU LGPL 3". Below these buttons, the text "Provide Findbugs rules for analysis of Java projects" is shown. Below this text, there is a link "Go to plugin homepage". Below the link, the text "Organization: SpotBugs Team Last update: 2019-09-23" is displayed. Below this text, the text "Developers: Evgeny Mandrikov,Nicolas Peru" is shown. Below this text, the text "Compatibility: 7.9-8.2" is displayed. Below this text, there is a button labeled "version 3.11.1" with a download icon. A red box highlights this button. Below the button, the text "Use SpotBugs 3.1.12 and Fix CVE-2019-10173" is shown. At the bottom of the page, there is a dark blue footer with the text "LEAVE A COMMENT OR REVIEW".

1-2. Plugin 공식 홈페이지(ex. Github)에서 다운로드

1-2-1. Findbugs(=Spotbugs) Plugin 공식 홈페이지(Github [GitHub - spotbugs/sonar-findbugs: SpotBugs plugin for SonarQube](https://github.com/spotbugs/sonar-findbugs))진입하여 우측 최신 Release 버전 클릭

spotbugs/sonar-findbugs Public

Code Issues 23 Pull requests 5 Discussions Actions Security Insights

master 13 branches 38 tags

gtoison deps: updated sonar-update-center action dependencies 4 days ago 770 commits

File	Description	Time
.github	deps: updated sonar-update-center action dependencies	4 days ago
generate_profiles	deps: upgraded SpotBugs to 4.7.0	20 days ago
src	deps: upgraded SpotBugs to 4.7.0	20 days ago
test-resources	SONAR-3949 Add sonar-findbugs-plugin	10 years ago
.dockerignore	reproduce reported issue by smoke test	4 years ago
.gitignore	SONARFBUGS-37 Remove devVersion in ITS	7 years ago
README.md	next version is 4.1.6	19 days ago
RELEASE_PROCEDURE.md	ci: introduce sonar-update-center-action	17 months ago
infinitest.args	SONAR-3949 Add sonar-findbugs-plugin	10 years ago
pom.xml	next version is 4.1.6	19 days ago

Readme

270 stars

41 watching

124 forks

Releases 30

sonar-findbugs v4.1.5 Latest 19 days ago

+ 29 releases

Packages

No packages published

Used by 77

1-2-2. 하단 Assets 항목에서 jar파일 선택하여 Plugin 다운로드

sonar-findbugs v4.1.5 Latest

gtoison released this 19 days ago 4.1.5 43682eb

What's Changed

- Upgrade SpotBugs to 4.7.0 by @gtoison in #540

Full Changelog: 4.1.4...4.1.5

Contributors

gtoison

Assets 3

Asset	Size	Time
sonar-findbugs-plugin-4.1.5.jar	17.7 MB	19 days ago
Source code (zip)		19 days ago
Source code (tar.gz)		19 days ago

1 person reacted

2. 다운로드한 Plugin jar 파일을 SonarQube 서버에 업로드하고, SonarQube의 다음 경로에 위치한다.

```
$SONARQUBE_HOME/extensions/plugins
```

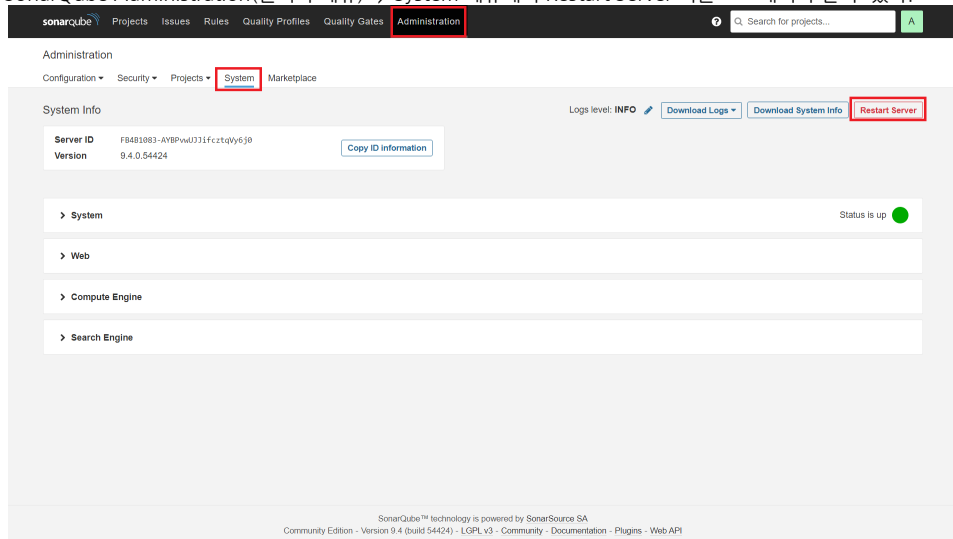
1. \$SONARQUBE_HOME/extensions/plugins 위치에 jar파일 복사

2. jar파일 소유자 권한 SonarQube 실행 계정과 동일하게 변경
3. 신규 설치가 아닌 업데이트일 경우 기존 설치된 jar 파일 삭제

```
drwxr-xr-x. 7 sonarqube sonarqube 113 May 25 15:35 temp
drwxr-xr-x. 5 sonarqube sonarqube 4096 Apr 1 09:15 web
[root@junoya-guide-VM-LIX sonarqube]# cd extensions/
[root@junoya-guide-VM-LIX extensions]# ll
total 0
drwxr-xr-x. 2 sonarqube sonarqube 6 May 25 15:24 downloads
drwxr-xr-x. 3 sonarqube sonarqube 20 Apr 1 09:12 jdbc-driver
drwxr-xr-x. 2 sonarqube sonarqube 63 May 25 15:33 plugins
[root@junoya-guide-VM-LIX extensions]# cd plugins/
[root@junoya-guide-VM-LIX plugins]# ll
total 2816
-rw-r--r--. 1 sonarqube sonarqube 737 Apr 1 09:12 README.txt
-rw-r--r--. 1 sonarqube sonarqube 2878517 May 25 15:19 sonar-auth-aad-plugin-1.2.0.jar
[root@junoya-guide-VM-LIX plugins]# pwd
/app/sonarqube/extensions/plugins
[root@junoya-guide-VM-LIX plugins]# cp ~/sonar-findbugs-plugin-4.1.5.jar .
[root@junoya-guide-VM-LIX plugins]# ll
total 20920
-rw-r--r--. 1 sonarqube sonarqube 737 Apr 1 09:12 README.txt
-rw-r--r--. 1 sonarqube sonarqube 2878517 May 25 15:19 sonar-auth-aad-plugin-1.2.0.jar
-rw-r--r--. 1 root root 18536509 May 25 16:01 sonar-findbugs-plugin-4.1.5.jar
[root@junoya-guide-VM-LIX plugins]# chown sonarqube:sonarqube sonar-findbugs-plugin-4.1.5.jar
[root@junoya-guide-VM-LIX plugins]# ll
total 20920
-rw-r--r--. 1 sonarqube sonarqube 737 Apr 1 09:12 README.txt
-rw-r--r--. 1 sonarqube sonarqube 2878517 May 25 15:19 sonar-auth-aad-plugin-1.2.0.jar
-rw-r--r--. 1 sonarqube sonarqube 18536509 May 25 16:01 sonar-findbugs-plugin-4.1.5.jar
[root@junoya-guide-VM-LIX plugins]#
```

3. 서버 수동으로 재시작

- SonarQube Administration(관리자 메뉴) -> System 메뉴에서 Restart Server 버튼으로 재시작 할 수 있다.



4. 재시작 완료 후 관리자 메뉴(Administration) → Marketplace 메뉴에 진입하여 Plugin 목록의 **Installed(설치됨)** 탭 클릭 시 위에서 설치한 Plugin 을 확인할 수 있다.

The screenshot shows the SonarQube Administration interface. The 'Administration' menu is selected in the top navigation bar. Below it, the 'Marketplace' tab is highlighted. The 'Plugins' section lists installed plugins. Two plugins are shown and highlighted with a red box:

- Azure Active Directory (AAD) Authentication Plug-in for SonarQube** (1.2.0 installed). It allows the use of Azure Active Directory as an authentication source for SonarQube. It is licensed under The MIT License (MIT) and developed by ALM | DevOps Rangers.
- Findbugs** (4.1.5 installed). It analyzes Java, Scala, Closure and JSP code with SpotBugs. 4.7.0. It is licensed under GNU LGPL 3 and developed by SpotBugs Team.

Each plugin entry has an 'Uninstall' button. The bottom of the page shows '2 shown' and a footer with SonarQube™ technology powered by SonarSource SA, Community Edition - Version 9.4 (build 54424) - LGPL v3 - Community - Documentation - Plugins - Web API.

5. Quality Profiles 메뉴 → Java 부분 확인 시 FindBugs Profile이 생성된것을 확인할 수 있다.

The screenshot shows the SonarQube Quality Profiles interface. The 'Quality Profiles' menu is selected in the top navigation bar. The 'Java' section is expanded, showing a list of profiles. The 'FindBugs' profile is highlighted with a red box. The table below shows the details of the profiles:

Profile Name	Projects	Rules	Updated	Used
JSON, 1 profile(s)	1	0	1 month ago	Never
JSP, 2 profile(s)	2	6	5 minutes ago	Never
JavaScript, 1 profile(s)	1	191	1 month ago	Never
Kotlin, 1 profile(s)	1	0	1 month ago	Never

The 'FindBugs' profile is listed under the 'Java' section with 0 projects, 4 rules, and updated 5 minutes ago. It is marked as 'BUILT-IN'.

SonarQube Plugin 수동 제거

SonarQube Plugin이 설치된 다음 경로에서 제거할 Plugin jar파일을 삭제하고 SonarQube 서버를 재시작한다.

```
$SONARQUBE_HOME/extensions/plugins
```

참조 링크

- [Install a Plugin | SonarQube Docs](#)
- [Marketplace | SonarQube Docs](#)
- [SonarQube™ Plugins Index \(sonarplugins.com\)](#)
- [GitHub - spotbugs/sonar-findbugs: SpotBugs plugin for SonarQube](#)