

SonarQube 설치 후 기본 구성하기

이 문서는 SonarQube 설치 후 기본적인 설정을 하기 위한 가이드를 공유하기 위해 작성되었다.

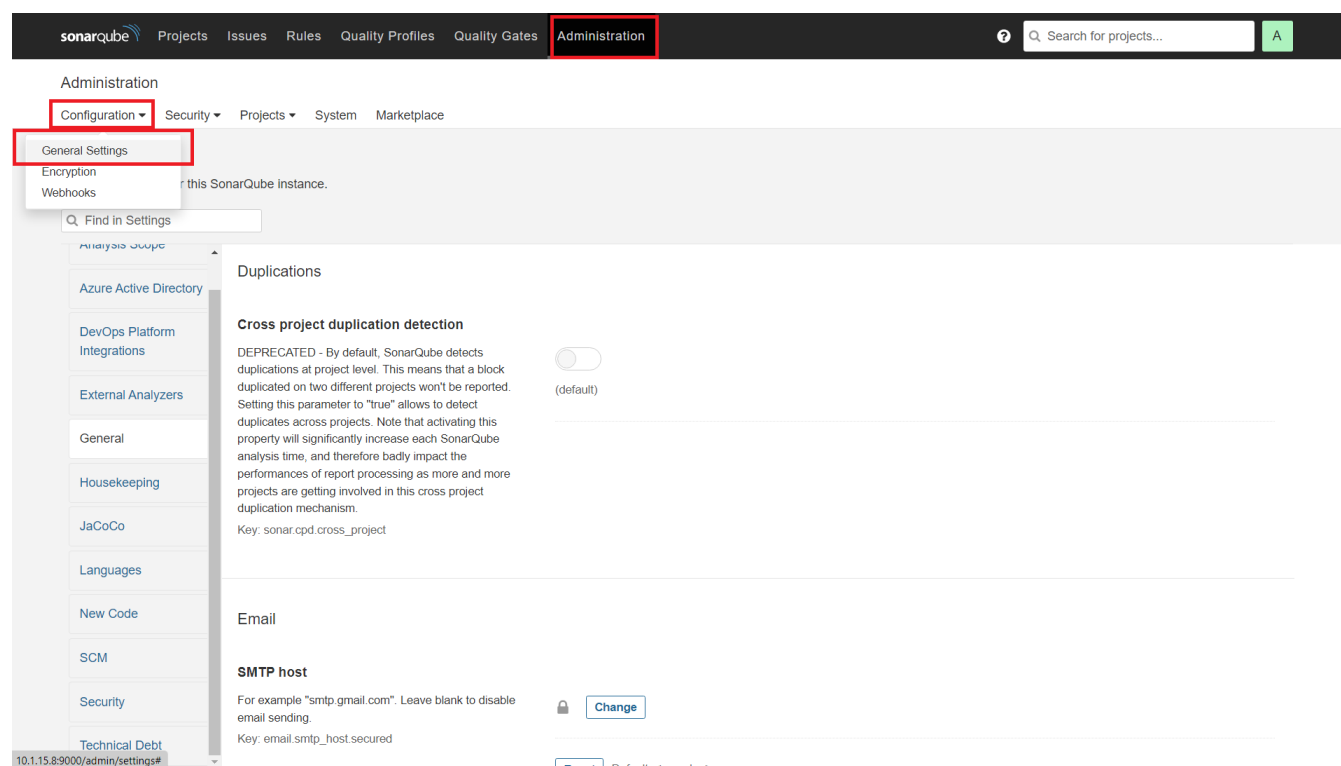
도구명	SonarQube CE
버전	9.4

- [General Settings](#)
 - [General](#)
 - [Security](#)
 - [DevOps Platform Integrations](#)

이 문서에서는 관리자 메뉴에 대한 모든 것이 아닌 주요 설정만 소개한다.

General Settings

상단 **Administration** → **Configuration** → **General Settings** 메뉴에 진입한다.



General

Administration

Configuration ▾ Security ▾ Projects ▾ System Marketplace

General Settings

Edit global settings for this SonarQube instance.

Q Find in Settings

General

Duplications

Cross project duplication detection

DEPRECATED - By default, SonarQube detects duplications at project level. This means that a block duplicated on two different projects won't be reported. Setting this parameter to "true" allows to detect duplicates across projects. Note that activating this property will significantly increase each SonarQube analysis time, and therefore badly impact the performances of report processing as more and more projects are getting involved in this cross project duplication mechanism.

Key: sonar.cpd.cross_project

Email

SMTP host

For example "smtp.gmail.com". Leave blank to disable email sending.

Key: email.smtp_host_secured

SMTP host secured

Default: <no value>

- **General - Server base URL : SonarQube URL 설정.**
→ 접속할때 사용하는 URL(http(s):// 포함)을 입력한다.

Administration

Configuration ▾ Security ▾ Projects ▾ System Marketplace

General Settings

Edit global settings for this SonarQube instance.

Q Find in Settings

General

Avoid quality profiles notification

Avoid sending email notification on each update of built-in quality profiles to quality profile administrators.

Key: sonar.builtInQualityProfiles.disableNotificationOn...

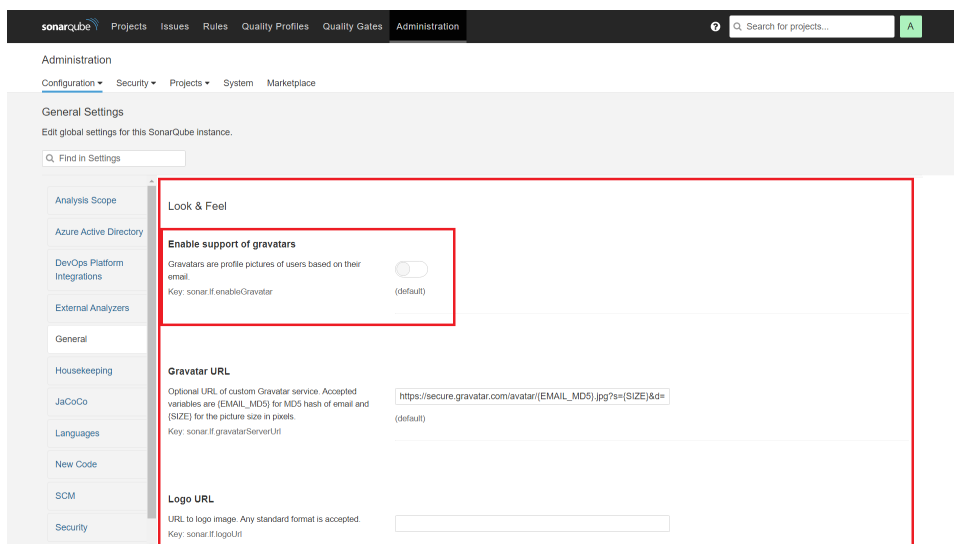
Server base URL

HTTP(S) URL of this SonarQube server, such as `https://yourhost.yourdomain/sonar`. This value is used i.e. to create links in emails.

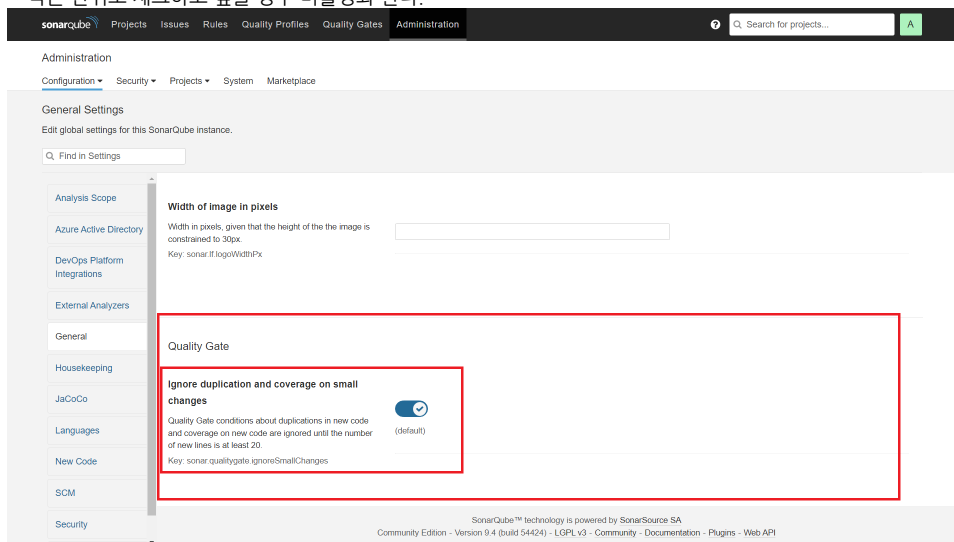
Key: sonar.core.serverBaseURL

Default: <no value>

- **Look & Feel - Enable support of avatars : 프로필에 외부 아바타(Gravatar) 사용 여부 설정.**
→ 외부 인터넷이 안되는 환경일 경우 비활성화 한다.



- **Quality Gate - Ignore duplication and coverage on small changes :** Quality Gate 조건에서 작은 변경(20줄 미만)에 대한 중복 코드 및 커버리지 무시 여부 설정.
→ 작은 단위도 체크하고 싶을 경우 비활성화 한다.



■ Email - SMTP ~ : 메일 알람을 위한 SMTP 설정.

Administration
Configuration ▾ Security ▾ Projects ▾ System Marketplace

General Settings
Edit global settings for this SonarQube instance.

Q Find in Settings

Email

SMTP host
For example "smtp.gmail.com". Leave blank to disable email sending.
Key: email.smtp_host secured

[Change](#) [Reset](#) Default: <no value>

SMTP port
Port number to connect with SMTP server.
Key: email.smtp_port secured

[Change](#) [Reset](#) Default: 25

Secure connection
Type of secure connection. Leave empty to not use secure connection.
Key: email.smtp_secure_connection secured

[Change](#)

Administration
Configuration ▾ Security ▾ Projects ▾ System Marketplace

General Settings
Edit global settings for this SonarQube instance.

Q Find in Settings

SMTP username
Username to use with authenticated SMTP.
Key: email.smtp_username secured

[Reset](#) Default: <no value>

SMTP password
Password to use with authenticated SMTP.
Key: email.smtp_password secured

[Reset](#) Default: <password>

From address
Emails will come from this address. For example - "noreply@sonarsource.com". Note that the mail server may ignore this setting.
Key: email.from

[Reset](#) Default: noreply@nowhere

Administration
Configuration ▾ Security ▾ Projects ▾ System Marketplace

General Settings
Edit global settings for this SonarQube instance.

Q Find in Settings

From name
Emails will come from this address name. For example - "SonarQube". Note that the mail server may ignore this setting.
Key: email.fromName

(default)

Email prefix
Prefix will be prepended to all outgoing email subjects.
Key: email.prefix

(default)

Test Configuration
All fields marked with * are required

To *

Subject

Message *

- **SMTP host** : SMTP 서버 URL 입력
- **SMTP port** : SMTP 서버 포트 입력
- **Secure connection** : SMTP 서버 보안 접속 여부 설정 (No value / ssl / starttls)
- **SMTP username** : SMTP 서버 인증을 위한 계정 입력 (인증 필요 없이 SMTP 서버 사용 가능할 경우 입력 불필요)
- **SMTP password** : SMTP username에 대한 인증 패스워드 입력 (인증 필요 없이 SMTP 서버 사용 가능할 경우 입력 불필요)

- **From address** : 발신자로 표시되는 메일주소 입력
- **From name** : 발신자로 표시되는 이름 입력
- **Email prefix** : 메일 제목 앞에 붙는 텍스트 입력
- **Test Configuration** : 위 설정 항목으로 SMTP 메일 발신이 정상적으로 동작하는지 테스트 기능 제공

Security

Administration

Configuration ▾ Security ▾ Projects ▾ System Marketplace

General Settings

Edit global settings for this SonarQube instance.

Q Find in Settings

SAML

In order to enable SAML authentication, the property 'sonar.core.serverBaseURL' must be set to the public URL

Enabled

Enable SAML users to login. Value is ignored if provider ID, login url, certificate, login, name attributes are not defined. ☐ (default)

Key: sonar.auth.saml.enabled

Application ID

Identifier of the application. (default)

Key: sonar.auth.saml.applicationId

Provider Name

Name displayed for the provider in the login page. (default)

Key: sonar.auth.saml.providerName

- **Security - Force user authentication** : 익명사용자(anonymous users) 방지 설정.
→ SonarQube는 기본적으로 익명사용자도 프로젝트를 볼 수 있다. 익명 사용자를 방지하고 로그인한 사용자만 볼수 있게하려면 해당 기능 활성화 한다.

Administration

Configuration ▾ Security ▾ Projects ▾ System Marketplace

General Settings

Edit global settings for this SonarQube instance.

Q Find in Settings

Security

Enable local webhooks validation

Forcing local webhooks validation prevents the creation and triggering of local webhooks. ☒ (default)

Disabling this setting can expose the instance to security risks.

Key: sonar.validateWebhooks

Enable permission management for project administrators

Set if users with 'Administer' role in a project should be allowed to change project permissions. By default users with 'Administer' role are allowed to change both project configuration and project permissions. ☒ (default)

Key: sonar.allowPermissionManagementIfOfProjectAd...

Force user authentication

Forcing user authentication prevents anonymous users from accessing the SonarQube UI, or project data via the Web API. Some specific read-only Web APIs, including those required to prompt authentication, are ☒ (default)

DevOps Platform Integrations

Administration

Configuration ▾ Security ▾ Projects ▾ System Marketplace

General Settings

Edit global settings for this SonarQube instance.

Find in Settings

Analysis Scope

Azure Active Directory

DevOps Platform Integrations

External Analyzers

General

Housekeeping

JaCoCo

Languages

New Code

SCM

Security

DevOps Platform Integrations

DevOps Platform integrations allow SonarQube to interact with your DevOps Platform. This enables things like authentication, or providing analysis details and a Quality Gate to your Pull Requests directly in your DevOps Platform's interface.

GitHub Bitbucket Azure DevOps GitLab

Create your first GitHub configuration to start analyzing your repositories on SonarQube.

Create configuration

GitHub Authentication

In order to enable authentication on GitHub.com or GitHub Enterprise:

- SonarQube must be publicly accessible through HTTPS only
- The property 'sonar.core.serverBaseURL' must be set to this public HTTPS URL
- In your GitHub profile, you need to create a Developer Application for which the 'Authorization callback URL' must be set to '`<value_of_sonar_core_serverBaseURL_property>/oauth2/callback`'.

Enabled

- DevOps Platform Integrations : 형상관리 시스템과 연동 설정. GitHub / Bitbucket / Azure DevOps / GitLab을 지원하고 여기서는 **Bitbucket Server** 연동 설정을 소개한다.

1. Bitbucket → Create configuration 버튼 클릭

Administration

Configuration ▾ Security ▾ Projects ▾ System Marketplace

General Settings

Edit global settings for this SonarQube instance.

Find in Settings

Analysis Scope

Azure Active Directory

DevOps Platform Integrations

External Analyzers

General

Housekeeping

JaCoCo

Languages

New Code

SCM

Security

DevOps Platform Integrations

DevOps Platform integrations allow SonarQube to interact with your DevOps Platform. This enables things like authentication, or providing analysis details and a Quality Gate to your Pull Requests directly in your DevOps Platform's interface.

GitHub Bitbucket Azure DevOps GitLab

Create your first Bitbucket configuration to start analyzing your repositories on SonarQube.

Create configuration

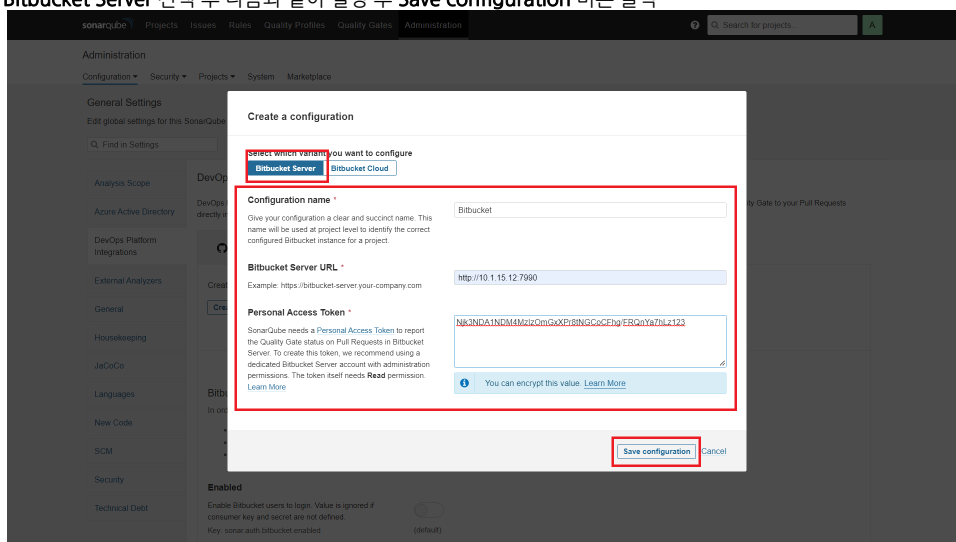
Bitbucket Cloud Authentication

In order to enable authentication on Bitbucket.org:

- SonarQube must be publicly accessible through HTTPS only
- The property 'sonar.core.serverBaseURL' must be set to this public HTTPS URL
- In your Bitbucket OAuth Consumer settings, 'Callback URL' must be set to '`<value_of_sonar_core_serverBaseURL_property>`'.

Enabled

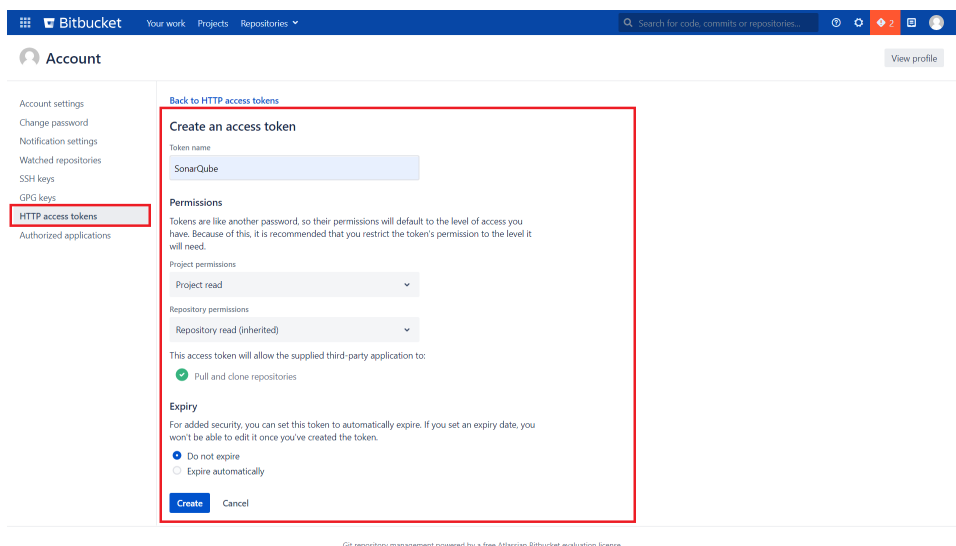
2. Bitbucket Server 선택 후 다음과 같이 설정 후 Save configuration 버튼 클릭



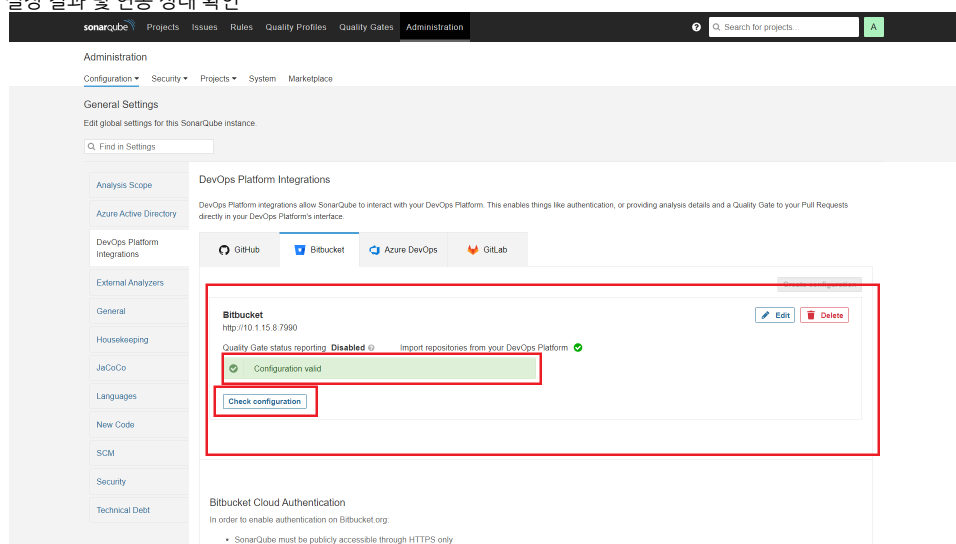
- **Configuration name** : 설정명 입력
- **Bitbucket Server URL** : Bitbucket 서버 URL 입력
- **Personal Access Token** : Bitbucket에서 생성한 토큰 입력

> Bitbucket Personal Access Token은 SonarQube에서 Bitbucket Pull Request의 Quality Gate 상태를 보고하기 위해 필요한 것으로, 관리자 권한을 가진 계정의 토큰과 최소 Read 권한이 필요함

> Quality Gate 상태 보고는 브랜치별 분석기능을 지원하는 SonarQube Developer 버전 이상에서 지원



3. 설정 결과 및 연동 상태 확인



- Check configuration 버튼 클릭하여 연동 정상일 경우 초록색으로 Configuration valid 표시됨