

# SonarQube Pull-request Decoration (GitHub Integration)

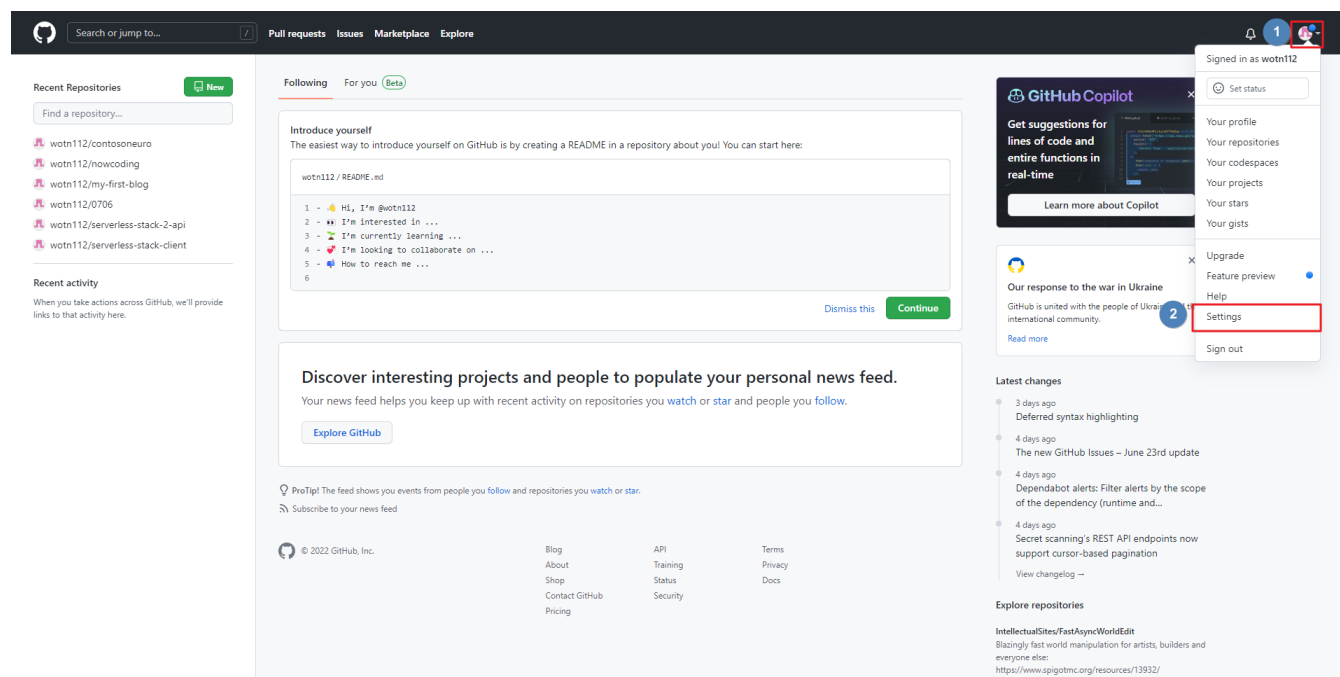
이 문서는 SonarQube Pull-request Decoration (GitHub Integration) 가이드를 공유하기 위해 작성되었다.

도구명	Sonarqube Enterprise, Github
버전	Sonarqube: 8.9.8
비고	

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## Github App 만들기

- Github 상단 Profile → Settings 선택



- Developer settings → New GitHub App 선택

The image shows two screenshots from the GitHub website. The top screenshot is the 'Developer settings' page, where the 'Developer settings' link in the left sidebar is highlighted with a red box. The main content area shows profile information fields like Bio, URL, Twitter username, Company, and Location, along with an 'Update profile' button. The bottom screenshot is the 'GitHub Apps' page, where the 'New GitHub App' button is highlighted with a red box. The left sidebar on this page lists 'GitHub Apps', 'OAuth Apps', and 'Personal access tokens'. A notification banner at the top of the bottom screenshot states: 'Job queued to delete GitHub App. It may take a few minutes to complete.'

Settings / Developer settings

GitHub Apps

New GitHub App

Want to build something that integrates with and extends GitHub? Register a new GitHub App to get started developing on the GitHub API. You can also read more about building GitHub Apps in our developer documentation.

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- 해당 값들 입력

Register new GitHub App

GitHub App name \*

The name of your GitHub App.

Write Preview Markdown supported

This is displayed to users of your GitHub App

Homepage URL \*

The full URL to your GitHub App's website.

Identifying and authorizing users Add Callback URL

The full URL to redirect to after a user authorizes an installation.

Callback URL Delete

☒ Expire user authorization tokens  
This will provide a refresh\_token which can be used to request an updated access token when this access token expires.

☐ Request user authorization (OAuth) during installation  
Requests that the installing user grants access to their identity during installation of your App.  
Read our [identifying and authorizing users for GitHub Apps documentation](#) for more information.

☐ Enable Device Flow

1. **GitHub App Name** : 임의
2. **Homepage URL** : 회사 Url
3. **Callback URL** : `https://[Sonarqube.base.url]`
4. **Webhook URL** : `https://[Sonarqube.base.url]`

## 5. 저장소 권한:

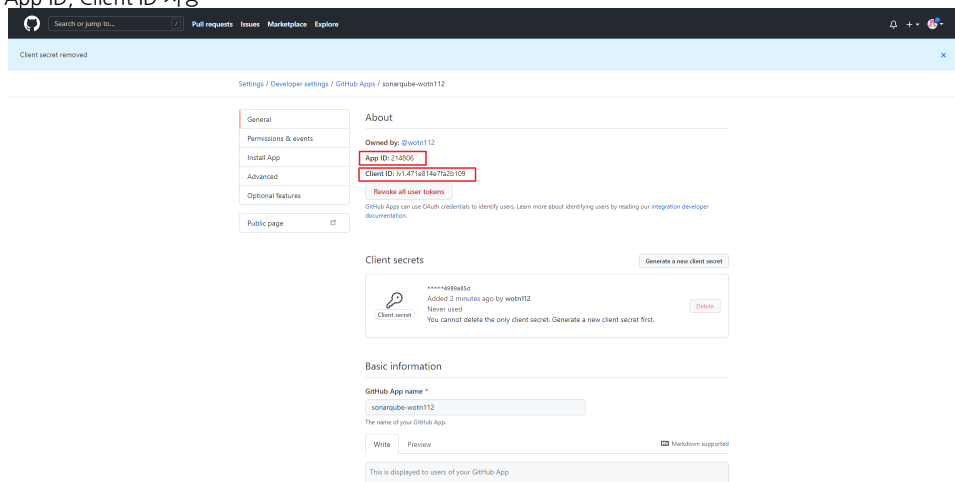
Permission	Access
Checks	Read & write
<b>GitHub Enterprise:</b> Repository metadata <b>GitHub.com:</b> Metadata (this setting is automatically set by GitHub)	Read-only
Pull Requests	Read & write
Commit statuses	Read-only
For private repositories, grant access to the following <b>Repository permissions</b> :	
Permission	Access
Contents	Read-only
If setting up <b>GitHub Authentication</b> , in addition to the aforementioned Repository permissions, grant access for the following <b>User permissions</b> :	
Permission	Access
Email addresses	Read-only
And grant access for the following <b>Organization permissions</b> :	
Permission	Access
Members	Read-only
Projects	Read-only

## 6. Where can this GitHub App be installed? - Any account

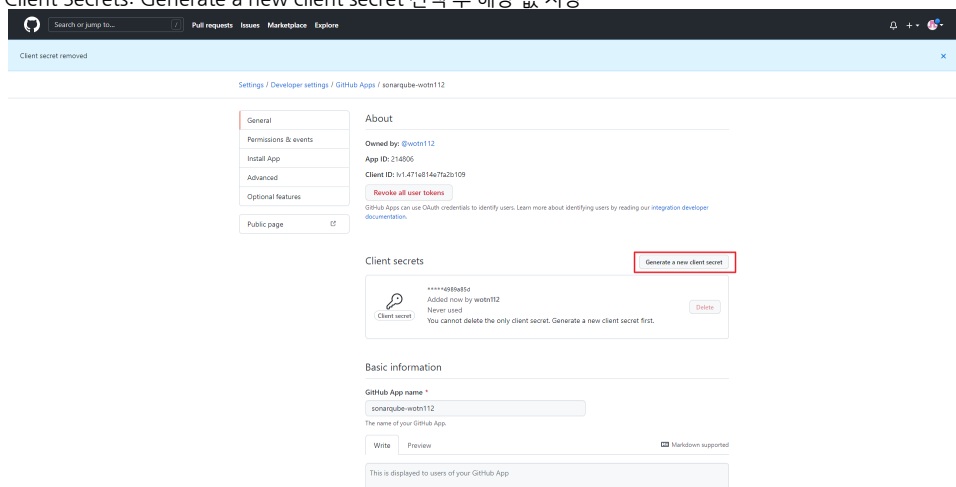
## Github App 설정 및 연동

- Github App 설정하기

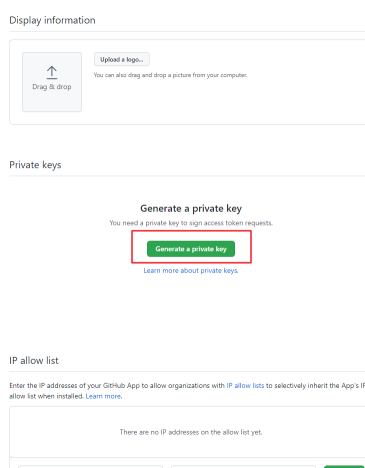
## 1. App ID, Client ID 저장



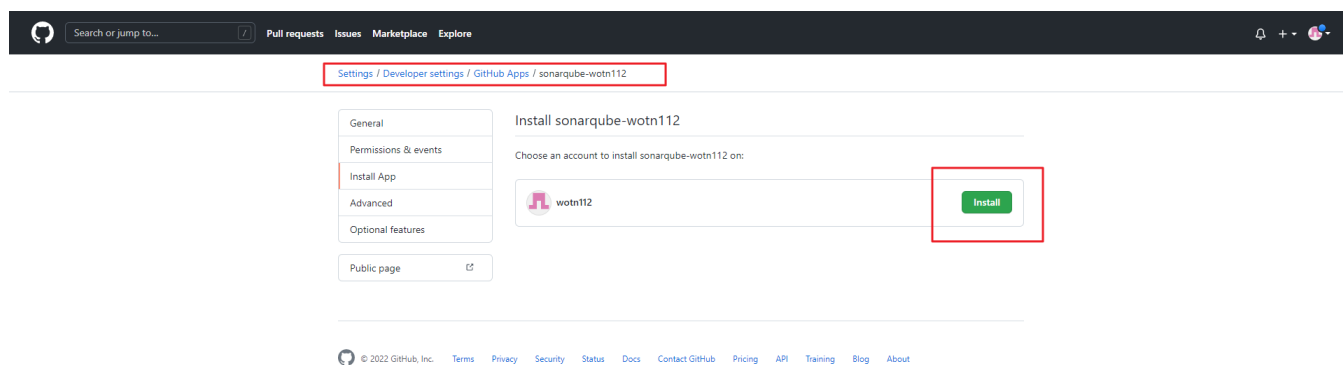
## 2. Client Secrets: Generate a new client secret 선택 후 해당 값 저장



## 3. Private Keys: Generate a Private Key 선택 후 해당 값 메모장에 복사

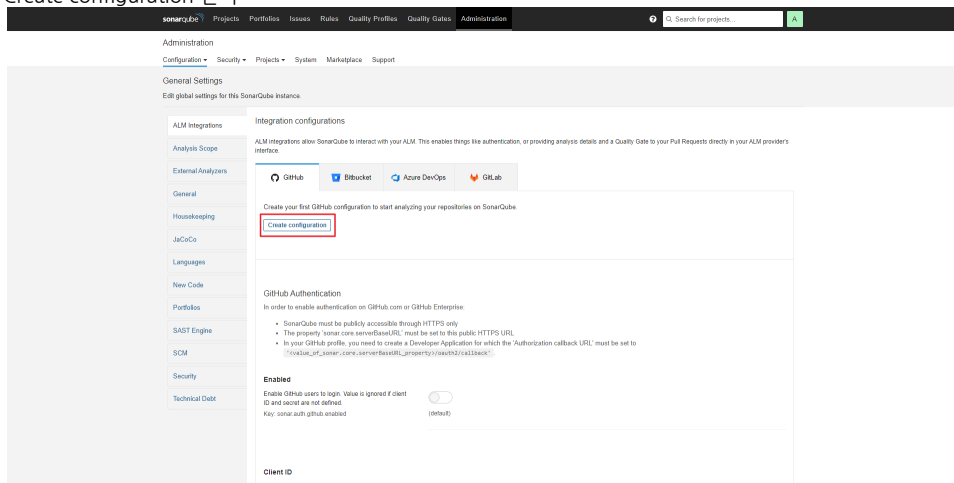


- Github App 설치: Settings → Developer Settings → GitHub Apps → Install App

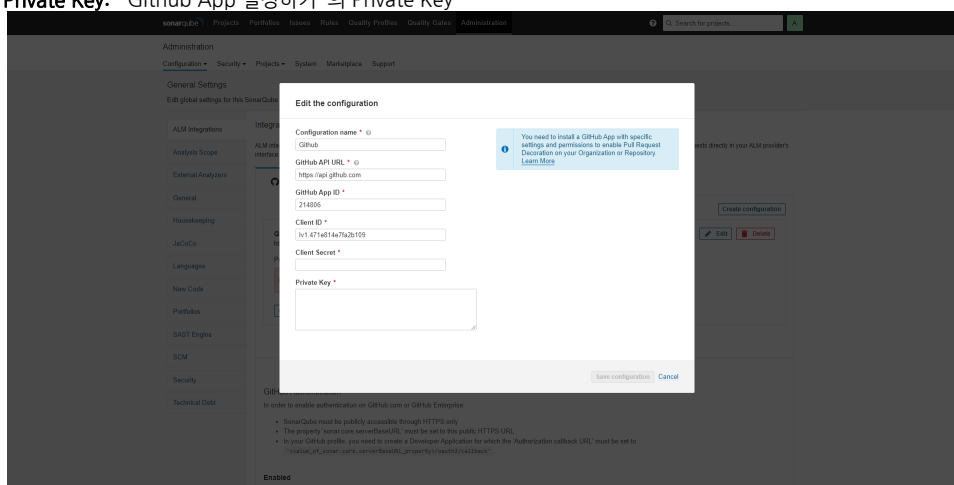


- Sonarqube 웹페이지 → Administration → Configuration → General Settings → DevOps Platform Integrations → GitHub Enterprise인 경우: Administration → Configuration → ALM integrations

## 1. Create configuration 선택



2. Configuration Name (Enterprise and Data Center Edition only): 임의  
 GitHub URL: 회사 Github: <https://github.com/api/v3> 공용 Github: <https://api.github.com/>  
 GitHub App ID: 'Github App 설정하기'의 App ID  
 Client ID: 'Github App 설정하기'의 Client ID  
 Client secret: 'Github App 설정하기'의 Client secret  
 Private Key: 'Github App 설정하기'의 Private Key



- 확인

The screenshot shows the SonarQube Administration interface. The top navigation bar includes links for Projects, Portfolios, Issues, Rules, Quality Profiles, Quality Gates, and Administration. The left sidebar lists various settings categories like ALM Integrations, Analysis Scope, External Analyzers, General, Housekeeping, JaCoCo, Languages, New Code, Portfolios, SAST Engine, SCM, Security, and Technical Debt. The main content area is titled 'Integration configurations' and shows a list of configured integrations. The 'GitHub' integration is selected, showing its configuration details. The configuration includes the GitHub URL (https://api.github.com), a 'Pull Request Decoration' status, and a 'Configuration valid' message. Below the configuration, there is a section for 'GitHub Authentication' with instructions on how to enable it and a toggle switch that is currently turned on.

Administration

Configuration ▾ Security ▾ Projects ▾ System Marketplace Support

General Settings

Edit global settings for this SonarQube instance.

ALM Integrations

Analysis Scope

External Analyzers

General

Housekeeping

JaCoCo

Languages

New Code

Portfolios

SAST Engine

SCM

Security

Technical Debt

Integration configurations

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

GitHub Bitbucket Azure DevOps GitLab

Create configuration

GitHub

https://api.github.com

Edit Delete

Pull Request Decoration Import repositories from your ALM

Configuration valid

Check 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

Enable GitHub users to login. Value is ignored if client

## 참조 링크

### 공식문서

- [Github 연동 문서](#)
- [Sonarqube Docs-Pull Request Analysis](#)