GitHub Apps documentation

Go deeper with GitHub by integrating with our APIs and webhooks, customizing your GitHub workflow, and building and sharing apps with the community.

Overview   Quickstart

Start here

About using GitHub Apps

Learn about what a GitHub App is and why you would use a GitHub App.

About creating GitHub Apps

GitHub Apps let you build integrations to automate processes and extend GitHub's functionality.

Differences between GitHub Apps and OAuth apps

In general, GitHub Apps are preferred to OAuth apps because they use fine-grained permissions, give more control over which repositories the app can access, and use short-lived tokens.

About authentication with a GitHub App

Your GitHub App can authenticate as itself, as an app installation, or on behalf of a user.

Popular

Registering a GitHub App

Authorizing GitHub Apps

Building a GitHub App that responds to webhook events

Building a "Login with GitHub" button with a GitHub App

Building a CLI with a GitHub App

Making authenticated API requests with a GitHub App in a GitHub Actions workflow

What's new

Updates to GitHub App installation management APIs
June 09

GraphQL improvements for fine-grained PATs and GitHub Apps
April 27

Organization APIs for fine-grained PATs management
March 24

Guides 🔗

Building a GitHub App that responds to webhook events

Learn how to build a GitHub App that makes an API request in response to a webhook event.

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Building a "Login with GitHub" button with a GitHub App

Follow this tutorial to write Ruby code to generate a user access token via the web application flow for your GitHub App.

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Building a CLI with a GitHub App

Follow this tutorial to write a CLI in Ruby that generates a user access token for a GitHub App via the device flow.

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Making authenticated API requests with a GitHub App in a GitHub Actions workflow

You can use an installation access token from a GitHub App to make authenticated API requests in a GitHub Actions workflow. You can also pass the token to a custom action to enable the action to make authenticated API requests.

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All Apps docs 🔗

Using GitHub Apps

About using GitHub Apps

Installing a GitHub App from a third party

Installing your own GitHub App

Authorizing GitHub Apps

Approving updated permissions for a GitHub App

Reviewing and revoking authorization of GitHub Apps

Reviewing and modifying installed GitHub Apps

Creating GitHub Apps

About creating GitHub Apps� • 4 articles

Registering a GitHub App� • 8 articles

Authenticating with a GitHub App� • 10 articles

Writing code for a GitHub App� • 7 articles

Sharing GitHub Apps

Sharing your GitHub App

Making your GitHub App available for GitHub Enterprise Server

Registering a GitHub App from a manifest

Registering a GitHub App using URL parameters

Maintaining GitHub Apps

Modifying a GitHub App registration

Activating optional features for GitHub Apps

About GitHub App managers

Suspending a GitHub App installation

Transferring ownership of a GitHub App

Deleting a GitHub App

OAuth apps

Using OAuth apps� • 3 articles

Building OAuth apps� • 8 articles

Maintaining OAuth apps� • 6 articles

Legal

Terms Privacy Status Pricing Expert services Blog