

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

You can register a GitHub App under your personal account or under any organization you own.

Authorizing GitHub Apps

You can authorize a GitHub App to retrieve information about your GitHub account and to make changes on your behalf.

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.

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.

What's new [View all →](#)

X-Accepted-GitHub-Permissions header for fine-grained permission actors

Updates to GitHub App installation management APIs

June 09

GraphQL improvements for fine-grained PATs and GitHub Apps

April 27

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 GitHub Marketplace for your personal account](#)

[Installing a GitHub App from GitHub Marketplace for your organizations](#)

[Installing a GitHub App from a third party](#)

[Installing your own GitHub App](#)

[Requesting a GitHub App from your organization owner](#)

[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](#) • 6 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](#)

[Managing allowed IP addresses for a GitHub App](#)

[Suspending a GitHub App installation](#)

[Transferring ownership of a GitHub App](#)

[Deleting a GitHub App](#)

GitHub Marketplace

[GitHub Marketplace Overview](#) • 3 articles

[Creating apps for GitHub Marketplace](#) • 5 articles

[Using the GitHub Marketplace API in your app](#) • 6 articles

[Listing an app on GitHub Marketplace](#) • 6 articles

[Selling your app on GitHub Marketplace](#) • 3 articles

OAuth apps

[Using OAuth apps](#) • 6 articles

[Building OAuth apps](#) • 8 articles

[Maintaining OAuth apps](#) • 6 articles

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