



Introduction to GitHub Packages

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GitHub Packages is a software package hosting service that allows you to host your software packages privately or publicly and use packages as dependencies in your projects.

GitHub Packages is available with GitHub Free, GitHub Pro, GitHub Free for organizations, GitHub Team, GitHub Enterprise Cloud, GitHub Enterprise Server 3.0 or higher, and GitHub AE.

GitHub Packages is not available for private repositories owned by accounts using legacy per-repository plans. Also, accounts using legacy per-repository plans cannot access registries that support granular permissions, because these accounts are billed by repository. For the list of registries that support granular permissions, see "About permissions for GitHub Packages." For more information, see "GitHub's plans."

About GitHub Packages @

GitHub Packages is a platform for hosting and managing packages, including containers and other dependencies. GitHub Packages combines your source code and packages in one place to provide integrated permissions management and billing, so you can centralize your software development on GitHub Enterprise Cloud.

You can integrate GitHub Packages with GitHub APIs, GitHub Actions, and webhooks to create an end-to-end DevOps workflow that includes your code, CI, and deployment solutions.

GitHub Packages offers different package registries for commonly used package managers, such as npm, RubyGems, Apache Maven, Gradle, Docker, and NuGet. GitHub's Container registry is optimized for containers and supports Docker and OCI images. For more information on the different package registries that GitHub Packages supports, see "Working with a GitHub Packages registry."

You can view a package's README, as well as metadata such as licensing, download statistics, version history, and more on GitHub Enterprise Cloud. For more information, see "Viewing packages."

Overview of package permissions &

The permissions for a package are either inherited from the repository where the package is hosted, or can be defined for specific users or organizations. Some registries only support permissions inherited from a repository. For a list of these registries, see

"About permissions for GitHub Packages." For more information on package access, see "Configuring a package's access control and visibility."

Overview of package visibility &

You can publish packages in a public repository (public packages) to share with all of GitHub, or in a private repository (private packages) to share with collaborators or an organization.

About billing for GitHub Packages ?

GitHub Packages usage is free for public packages. For private packages, each account on GitHub.com receives a certain amount of free storage and data transfer, depending on the account's plan. Any usage beyond the included amounts is controlled by spending limits. If you are a monthly-billed customer, your account will have a default spending limit of 0 US dollars (USD), which prevents additional usage of storage or data transfer after you reach the included amounts. If you pay your account by invoice, your account will have an unlimited default spending limit. For more information, see "About billing for GitHub Packages."

Supported clients and formats @

GitHub Packages uses the native package tooling commands you're already familiar with to publish and install package versions.

Support for package registries *∂*

Language	Description	Package format	Package client
JavaScript	Node package manager	package.json	npm
Ruby	RubyGems package manager	Gemfile	gem
Java	Apache Maven project management and comprehension tool	pom.xml	mvn
Java	Gradle build automation tool for Java	build.gradle or build.gradle.kts	gradle
.NET	NuGet package management for .NET	nupkg	dotnet CLI
N/A	Docker container management	Dockerfile	Docker

For more information about configuring your package client for use with GitHub Packages, see "Working with a GitHub Packages registry."

For more information about Docker and the Container registry, see "Working with the Container registry."

Authenticating to GitHub Packages @

GitHub Packages only supports authentication using a personal access token (classic). For more information, see "Managing your personal access tokens."

You need an access token to publish, install, and delete private, internal, and public packages.

You can use a personal access token (classic) to authenticate to GitHub Packages or the GitHub API. When you create a personal access token (classic), you can assign the token different scopes depending on your needs. For more information about packages-related scopes for a personal access token (classic), see "About permissions for GitHub Packages."

To authenticate to a GitHub Packages registry within a GitHub Actions workflow, you can use:

- GITHUB_TOKEN to publish packages associated with the workflow repository.
- a personal access token (classic) with at least read:packages scope to install
 packages associated with other private repositories (which GITHUB_TOKEN can't
 access).

For more information about GITHUB_TOKEN used in GitHub Actions workflows, see "Automatic token authentication."

Managing packages &

You can delete a package in the GitHub Enterprise Cloud user interface or using the REST API. For more information, see "<u>Deleting and restoring a package</u>" and the "<u>Packages</u>." For certain registries, you can use GraphQL to delete a version of a private package.

You cannot use the GitHub Packages GraphQL API with registries that support granular permissions. For the registries that **only** support repository-scoped permissions, and can be used with the GraphQL API, see "About permissions for GitHub Packages."

When you use the GraphQL API to query and delete private packages, you must use the same personal access token (classic) you use to authenticate to GitHub Packages.

For more information, see "Forming calls with GraphQL."

You can configure webhooks to subscribe to package-related events, such as when a package is published or updated. For more information, see the "Webhook events and payloads."

Contacting support *∂*

If you have feedback or feature requests for GitHub Packages, use a <u>GitHub Community</u> <u>discussion</u>.

Contact us through the GitHub Support portal about GitHub Packages if:

- You experience anything that contradicts the documentation
- You encounter vague or unclear errors
- Your published package contains sensitive data, such as GDPR violations, API Keys, or personally identifying information

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