This version of GitHub Enterprise was discontinued on 2023-03-15. No patch releases will be made, even for critical security issues. For better performance, improved security, and new features, upgrade to the latest version of GitHub Enterprise. For help with the upgrade, contact GitHub Enterprise support.

About continuous deployment

In this article

You can create custom continuous deployment (CD) workflows directly in your GitHub repository with GitHub Actions.

Note: GitHub-hosted runners are not currently supported on GitHub Enterprise Server. You can see more information about planned future support on the GitHub public roadmap.

About continuous deployment

Continuous deployment (CD) is the practice of using automation to publish and deploy software updates. As part of the typical CD process, the code is automatically built and tested before deployment.

Continuous deployment is often coupled with continuous integration. For more information about continuous integration, see "About continuous integration".

About continuous deployment using GitHub Actions

You can set up a GitHub Actions workflow to deploy your software product. To verify that your product works as expected, your workflow can build the code in your repository and run your tests before deploying.

You can configure your CD workflow to run when a GitHub Enterprise Server event occurs (for example, when new code is pushed to the default branch of your repository), on a set schedule, manually, or when an external event occurs using the repository dispatch webhook. For more information about when your workflow can run, see "Events that trigger workflows."

GitHub Actions provides features that give you more control over deployments. For example, you can use environments to require approval for a job to proceed, restrict which branches can trigger a workflow, or limit access to secrets. You can use concurrency to limit your CD pipeline to a maximum of one in-progress deployment and one pending deployment. For more information about these features, see "Deploying with GitHub Actions" and "Using environments for deployment."

Starter workflows and third party actions

GitHub Enterprise Server offers deployment starter workflows for several popular services, such as Azure Web App. To learn how to get started using a starter workflow, see "Using starter workflows" or browse the full list of deployment starter workflows. You can also check out our more detailed guides for specific deployment workflows, such as "Deploying Node.js to Azure App Service."

Many service providers also offer actions on GitHub Marketplace for deploying to their service. For the full list, see GitHub Marketplace.

Further reading

- Deploying with GitHub Actions
- Using environments for deployment

Legal

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