

GitHub Actions

2023-04-19 @Guzhongren

Agenda

- ??? GitHub Actions
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- ???????
- Q&A

GitHub Actions

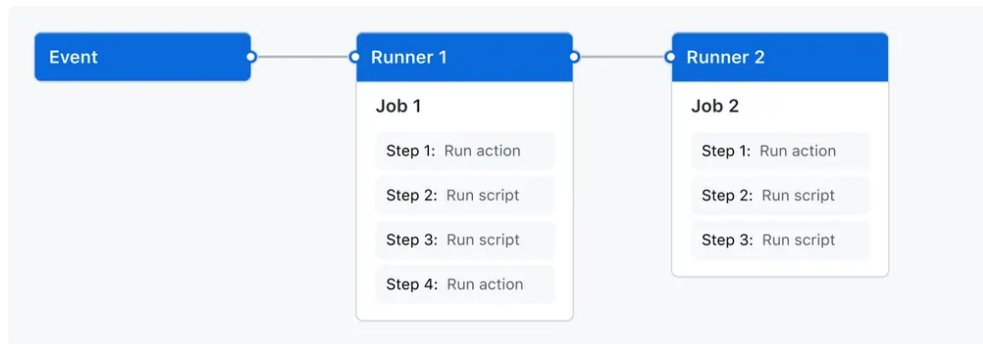
🔗 GitHub Actions

- GitHub Actions 是什么
- 什么是 **CI/CD**
- 如何 GitHub 仓库集成 GitHub 的 Web 界面 Git 的 API 接口
- 如何使用 CI/CD 集成 GitHub Actions

GitHub Actions □□□□□

GitHub Actions

- **workflow**(`.github/workflows/`) `workflow` Job
YAML
- **event**(`on:`) `GitHub Actions`
- **Job** `Step` `Job` `Step` `Step`
- `Actions` `GitHub Actions` `Docker`
`Node.js` `Python` `Ruby`



GitHub Actions

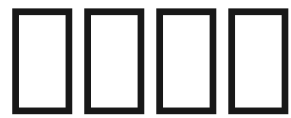
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Actions????? GitHub Marketplace ??????
Docker ???
- ?????? Actions????? Actions ?????????
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- ?????? Secrets[????????????? API ??????????
??? Secrets? ??????????

The screenshot shows the GitHub Actions interface for a repository named 'github / docs'. The 'Actions' tab is selected, displaying 'All workflows' and '88 workflow runs'. A specific workflow run is highlighted, showing it was triggered by a push event. The job 'octocat pushed' is in a 'Success' status and took 17 seconds to complete. Below the job summary, the 'Run details' section shows the workflow file 'github-actions-demo.yml' and a list of jobs: 'Set up job', 'Run echo', 'Check out repository code', and 'Run echo'. The 'Run details' section also includes a search bar for logs and a refresh button.

The screenshot shows the 'Explore-GitHub-Actions' job log, which succeeded 13 minutes ago. The log displays a sequence of steps with their durations:

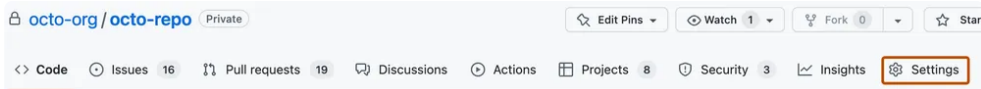
- > Set up job 1s
- > Run echo "🚀 The job was automatically triggered by a push event." 0s
- > Run echo "👏 This job is now running on a Linux server hosted by GitHub!" 0s
- > Run echo "💬 The name of your branch is refs/heads/octocat-patch-1 and your repository is oct..." 0s
- > Check out repository code 1s
- > Run echo "💡 The octo-org/octo-repo repository has been cloned to the runner." 0s
- > Run echo "💻 The workflow is now ready to test your code on the runner." 0s





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Actions secrets and variables

New repository secret

Secrets and variables allow you to manage reusable configuration data. Secrets are **encrypted** and are used for sensitive data. [Learn more about encrypted secrets](#). Variables are shown as plain text and are used for **non-sensitive** data. [Learn more about variables](#).

Anyone with collaborator access to this repository can use these secrets and variables for actions. They are not passed to workflows that are triggered by a pull request from a fork.

Secrets

Variables





Heartbeat - CI/CD

Heartbeat is a tool for tracking project delivery metrics that can help you get a better understanding of delivery performance. This product allows you easily get all aspects of source data faster and more accurate to analyze team delivery performance which enables delivery teams and team leaders focusing on driving continuous improvement and enhancement.





Heartbeat -

Heartbeat Welcome Welcome new
contributors and recognize the efforts of the
community





algolia-docsearch-upload-action

algolia-docsearch-upload-action is an especially small & quick & simple Algolia docsearch Indices upload action

- Creating a Docker container action
- Creating a JavaScript action
- Creating a composite action



Q & A

Refs

- GitHub Actions Documentation
- Heartbeat
- algolia-docsearch-upload-action
- ???? GitHub Actions ??????????

Thank you!