

GitHub Actions

2023-04-19 @Guzhongren

Agenda

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

GitHub Actions

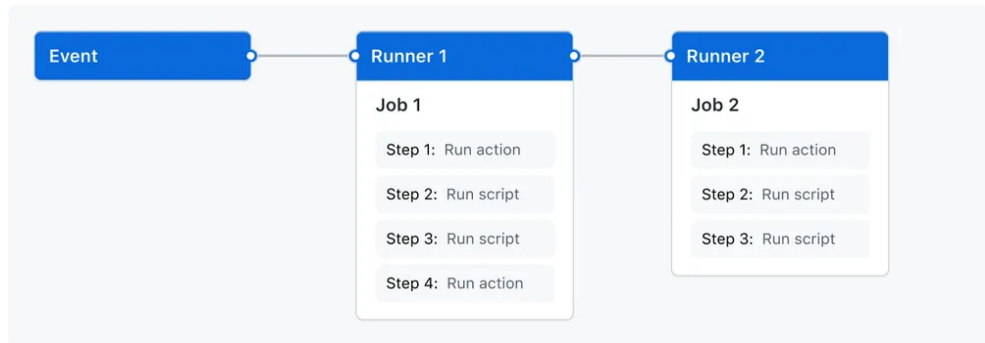
🔗 GitHub Actions

- 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`)
YAML
`name: Build and deploy to Heroku`
`on: push`
`jobs:`
 build:
 runs-on: ubuntu-latest
 steps:
 - uses: actions/checkout@v2
 - uses: actions/setup-node@v2
 - run: npm ci
 - run: npm run build
 - run: npm run test
 - run: npm run deploy
- **event**(`on`)
GitHub Actions
on: push
on: pull_request
- **Job** & **Step**
Job
Step
Step
Step
- **Actions**
GitHub Actions
Actions
Docker
Node.js
Python
Ruby



GitHub Actions

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- ?????????????? YAML ??????????????
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- ??? Actions????? Actions ??????????

Actions????? GitHub Marketplace ??????

Docker ???
- ?????? Actions????? Actions ?????????
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- ?????? Secrets[????????????? API ??????????
??? Secrets? ??????????

The screenshot displays the GitHub Actions interface for a repository named 'github/docs'. The top navigation bar includes links for Code, Issues (92), Pull requests (27), Discussions, Actions (selected), Projects (5), and Security (21). The 'Actions' tab is active, showing a list of workflows on the left and a detailed view of a workflow run on the right.

Workflows List:

- .github/workflows/greet-everyone.yml
- CI
- CodeQL
- GitHub Actions Demo (highlighted with a red box)

Summary:

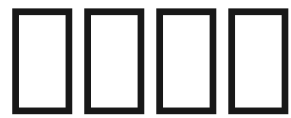
- Jobs: Explore-GitHub-Actions (highlighted with a red box)
- Run details: octocat pushed -> 9861173 octocat-patch-1-1
- Status: Success
- Total duration: 17s
- Billable time: 1m
- Artifacts: -

Workflow File: github-actions-demo.yml, on: push

The screenshot shows the 'Explore-GitHub-Actions' job log, which succeeded 13 minutes ago in 5s. The log contains a search bar and a list of steps with their durations.

Job Log Steps:

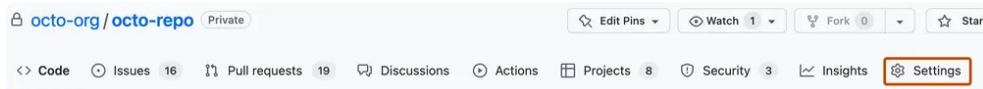
- > Set up job (1s)
- > Run echo "🚀 The job was automatically triggered by a push event." (0s)
- > Run echo "👏 This job is now running on a Linux server hosted by GitHub!" (0s)
- > Run echo "💬 The name of your branch is refs/heads/octocat-patch-1 and your repository is oct..." (0s)
- > Check out repository 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!