

# GitHub Actions

2023-04-19 @Guzhongren

# Agenda

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

# GitHub Actions

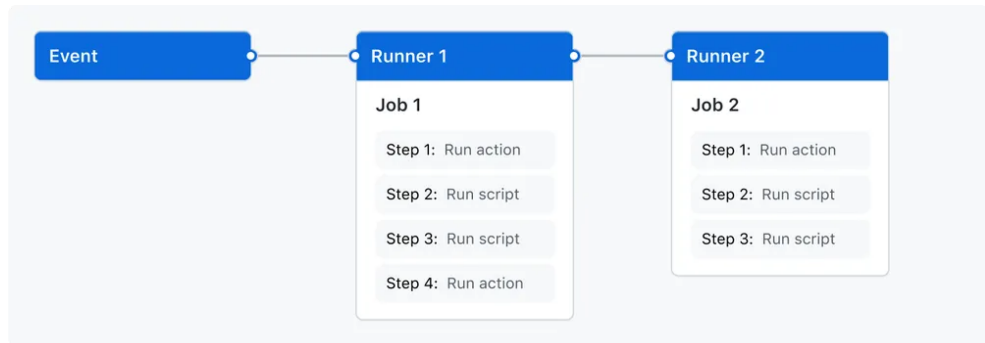
# 🔗 GitHub Actions

- 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`)  
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  
on: workflow\_dispatch
- **Job** **Step**  
Job  
Step  
Step  
Step
- Actions  
GitHub Actions  
Actions  
Docker  
Node.js  
Python  
Ruby



# GitHub Actions

# ???? GitHub Actions

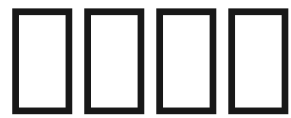
- ?????????????? YAML ??????????????  
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- ??? Actions????? Actions ??????????  
Actions????? GitHub Marketplace ??????  
Docker ???
- ?????? Actions????? Actions ?????????  
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- ?????? Secrets[?????????????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

The screenshot shows the GitHub Actions interface for a repository named 'github / docs'. The 'Actions' tab is selected, displaying a list of workflow runs. A specific run for the 'octocat is testing out GitHub Actions' workflow is highlighted. Below the workflow list, the 'Summary' section shows the job 'octocat pushed' with a status of 'Success' and a total duration of '17s'. The 'Run details' section shows the workflow file 'github-actions-demo.yml' triggered by a push event. The 'Jobs' section lists the job 'Explore-GitHub-Actions'.

The screenshot shows the 'Explore-GitHub-Actions' job log, which succeeded 13 minutes ago. The log displays the following 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)

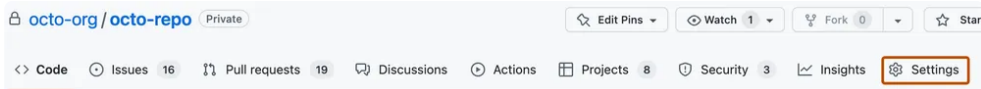






## ?? GitHub Actions ??????????????

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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!**