

Finisky Garden

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Deploy Hugo From Private Repository to GitHub Pages

📅 Posted on 2022-04-26 | 📅 Edited on 2022-08-29 | 📁 In Hugo | 💬 Comments: 0 | 👁 Views: 160

Hugo is a nice static site generator. A common scenario is to store your website source code in a **private** repository and serve it on GitHub Pages. Can we leverage the github actions to automatically build and deploy the site from the private repository to GitHub Pages? The answer is absolutely yes!

Before we start, you need to have two repos (can belong to different github accounts):

- Source Repo: the repo to store
- Target Repo: host the GitHub Pages (xxx.github.io)

What we need to do is to create a personal access token in the target github account, configure it in the source repo and create an action workflow yaml.

Create Personal Access Token

Personal access tokens (PATs) are an alternative to using passwords for authentication to GitHub Enterprise Server when using the GitHub API or the command line.

We will use the PAT to push the built hugo website from the source repo to the target repo.

Just follow [this post](#) to generate a PAT:

Profile Photo -> Settings -> Developer settings -> Personal access tokens -> Generate new token

Remember to check the following two scopes: `workflow` and `write:packages`.

Copy the token and properly save it, assume it is `TOKENXXX`.

Notice that the PAT is an account-level token, deploy key is recommended to use as a repo-level token.

Configure the PAT as a Secret in Source Repo

Go to the source repo: > Settings -> Secrets -> Actions -> New repository secret

Paste the token created before `TOKENXXX` to the value field. Name the secret as `SECRETNAME`.

Create Action Workflow Yaml in Source Repo

The action workflow consists of the following parts:

- Checkout: checkout the source code
- Setup Hugo: setup Hugo environment
- Run Hugo: build the static website
- Deploy: use [# GitHub Pages Deploy Action](#) to publish the website to the target GitHub Page

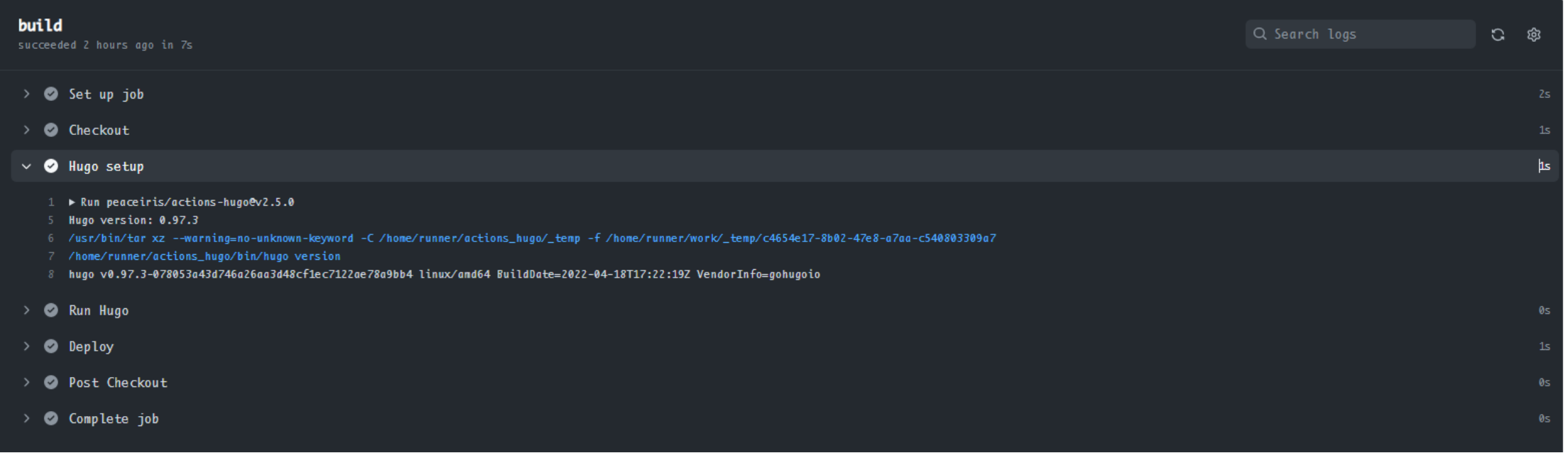
The action workflow yaml is based on: [# Using GitHub Actions to Publish Hugo Site From Private to Public Repo](#). Modify according to your needs, create a new workflow action in the source repo and paste it into the editor. The yaml should be put in the path: `.github/workflows/main.yml`:

```
1  name: Hugo Build & Deploy - Private to Public
2
3  on:
4    push:
5      branches: [ master ]
6
7  jobs:
8    build:
9      runs-on: ubuntu-latest
10
11     steps:
12       - name: Checkout
13         uses: actions/checkout@v2.3.4
14         with:
15           persist-credentials: false
16
17       # Setup Hugo
18       - name: Hugo setup
19         uses: peaceiris/actions-hugo@v2.5.0
20         with:
21           hugo-version: 'latest'
22           # Download (if necessary) and use Hugo extended version. Example
23           extended: false
24
25       # Runs Hugo to build the Static Site
26       - name: Run Hugo
27         run: |
28           hugo --verbose
29
30       # Deploy the Static Site to Public Repo (GitHub Pages)
31       - name: Deploy
32         uses: JamesIves/github-pages-deploy-action@v4.3.3
33         with:
34           token: ${ secrets.SECRETNAME }
35           repository-name: xxx/xxx.github.io
36           branch: master # The branch the action should deploy to.
37           folder: public # The folder the action should deploy.
38           single-commit: true
39           commit-message: "Deploy by source"
```

Modify the following fields:

- `branches: [master]`: the action will be triggered when you push to the master branch
- `token: ${ secrets.SECRETNAME }`: change the secret name to the PAT secret name
- `repository-name: xxx/xxx.github.io`: the target GitHub Page repository address

Then after you push the source code to the source repo, the deployment action will be triggered:



The action workflow can be easily applied to deploy Hexo site as well: just modify `Setup Hugo` and `Run Hugo` would be OK.

Related Posts

- [Deploy Hexo From Private Repository to GitHub Pages](#)
- [从私有代码库自动部署Hexo站到GitHub Pages](#)
- [从私有代码库自动部署Hugo站到GitHub Pages](#)
- [FiniCounter: A Website Vistor Counter](#)
- [FiniCounter: 静态网站访问量统计工具](#)

Hexo # Hugo

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