

Deploy MkDocs to Github Pages

This page describes how to deploy MkDocs documentation to Github Pages.

Github pages

[Github Pages](#) is a static site hosting service that allows to publish documentation directly from a GitHub repository.

Plan Availability and Usage

GitHub Pages is available for free in public repositories. GitHub Pages is not allowed for commercial use. See [GitHub Pages limits](#) for more details.

Deploying to Github Pages

To deploy to Github Pages, Github Actions is used. This workflow automatically builds and deploys the documentation on pushes or manual triggers.

Setting up GitHub Actions

Create a new workflow file at `.github/workflows/deploy-docs.yml` in the repository with the following content:

```

name: deploy-docs

on: # (1)
  workflow_dispatch:
  push:
    branches:
      - master
    paths:
      - 'docs/**'
      - 'mkdocs.yml'

permissions:
  contents: write

jobs:
  deploy:
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v4
      - name: Git Credentials
        run: |
          git config user.name github-actions[bot]
          git config user.email 41898282+github-
actions[bot]@users.noreply.github.com
      - uses: actions/setup-python@v5
        with:
          python-version: 3.x
      - run: echo "cache_id=$(date --utc '+%V')" >> $GITHUB_ENV
      - uses: actions/cache@v4
        with:
          key: mkdocs-material-${{ env.cache_id }}
          path: ~/.cache
          restore-keys: |
            mkdocs-material-
      - run: pip install -r requirements.txt
      - run: mkdocs gh-deploy --force

```

1. It can be freely chosen, when to trigger the workflow

Enabling GitHub Pages

After the first successful workflow run, the repository needs to be configured:

1. Go to the repository Settings → Pages
2. Under "Build and deployment", select "Deploy from a branch"
3. Choose `gh-pages` as the branch and `/ (root)` as the folder

The documentation will now be automatically deployed to GitHub Pages at `https://<username>.github.io/<repository>/` whenever the workflow is triggered.

Deployment

A trigger will start the Github Actions workflow. In this configuration it is either manual or by a push. MkDocs then builds the documentation. After the build, the workflow pushes the generated site to the `gh-pages` branch, which is why write permission for repository is required. Finally, GitHub Pages serves the site from that branch.

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