Deploying to Azure Static Web App

In this article

You can deploy your web app to Azure Static Web App as part of your continuous deployment (CD) workflows.

Introduction 🔗

This guide explains how to use GitHub Actions to build and deploy a web app to [Azure Static Web Apps](#).

> **Note**: If your GitHub Actions workflows need to access resources from a cloud provider that supports OpenID Connect (OIDC), you can configure your workflows to authenticate directly to the cloud provider. This will let you stop storing these credentials as long-lived secrets and provide other security benefits. For more information, see "[About security hardening with OpenID Connect](#)" and "[Configuring OpenID Connect in Azure](#)."

Prerequisites 🔗

Before creating your GitHub Actions workflow, you will first need to complete the following setup steps:

1. Create an Azure Static Web App using the 'Other' option for deployment source. For more information, see "[Quickstart: Building your first static site in the Azure portal](#)" in the Azure documentation.

2. Create a secret called `AZURE_STATIC_WEB_APPS_API_TOKEN` with the value of your static web app deployment token. For more information about how to find your deployment token, see "[Reset deployment tokens in Azure Static Web Apps](#)" in the Azure documentation.

Creating the workflow 🔗

Once you've completed the prerequisites, you can proceed with creating the workflow.

The following example workflow demonstrates how to build and deploy an Azure static web app when there is a push to the `main` branch or when a pull request targeting `main` is opened, synchronized, or reopened. The workflow also tears down the corresponding pre-production deployment when a pull request targeting `main` is closed.

Under the workflow `env` key, change the following values:

- `APP_LOCATION` to the location of your client code
- `API_LOCATION` to the location of your API source code. If `API_LOCATION` is not relevant, you can delete the variable and the lines where it is used.
- `OUTPUT_LOCATION` to the location of your client code build output

For more information about these values, see "Build configuration for Azure Static Web Apps" in the Azure documentation.

YAML

```yaml
# This workflow uses actions that are not certified by GitHub.
# They are provided by a third-party and are governed by
# separate terms of service, privacy policy, and support
# documentation.

# GitHub recommends pinning actions to a commit SHA.
# To get a newer version, you will need to update the SHA.
# You can also reference a tag or branch, but the action may change without
warning.

name: Deploy web app to Azure Static Web Apps

env:
  APP_LOCATION: "/" # location of your client code
  API_LOCATION: "api" # location of your api source code - optional
  OUTPUT_LOCATION: "build" # location of client code build output

on:
  push:
    branches:
      - main
  pull_request:
    types: [opened, synchronize, reopened, closed]
    branches:
      - main

permissions:
  issues: write
  contents: read
  pull-requests: write

jobs:
  build_and_deploy:
    if: github.event_name == 'push' || (github.event_name == 'pull_request' &&
github.event.action != 'closed')
    runs-on: ubuntu-latest
    name: Build and Deploy
    steps:
      - uses: actions/checkout@v4
        with:
          submodules: true
      - name: Build And Deploy
        uses: Azure/static-web-apps-
deploy@1a947af9992250f3bc2e68ad0754c0b0c11566c9
        with:
          azure_static_web_apps_api_token: ${{
secrets.AZURE_STATIC_WEB_APPS_API_TOKEN }}
          repo_token: ${{ secrets.GITHUB_TOKEN }}
          action: "upload"
          app_location: ${{ env.APP_LOCATION }}
          api_location: ${{ env.API_LOCATION }}
          output_location: ${{ env.OUTPUT_LOCATION }}

  close_pull_request:
    if: github.event_name == 'pull_request' && github.event.action == 'closed'
    runs-on: ubuntu-latest
    name: Close Pull Request
    steps:
```

```
        - name: Close Pull Request
          uses: Azure/static-web-apps-
deploy@1a947af9992250f3bc2e68ad0754c0b0c11566c9
          with:
            azure_static_web_apps_api_token: ${{
secrets.AZURE_STATIC_WEB_APPS_API_TOKEN }}
            action: "close"
```

Additional resources 🔗

The following resources may also be useful:

- For the original starter workflow, see `azure-staticwebapp.yml` in the GitHub Actions `starter-workflows` repository.
- The action used to deploy the web app is the official Azure `Azure/static-web-apps-deploy` action.
- For more examples of GitHub Action workflows that deploy to Azure, see the actions-workflow-samples repository.