

Deploying PHP to Azure App Service

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You can deploy your PHP project to Azure App Service as part of your continuous deployment (CD) workflows.

Introduction

This guide explains how to use GitHub Actions to build and deploy a PHP project to [Azure App Service](#).

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 App Service plan.

For example, you can use the Azure CLI to create a new App Service plan:

Bash



```
az appservice plan create \
  --resource-group MY_RESOURCE_GROUP \
  --name MY_APP_SERVICE_PLAN \
  --is-linux
```

In the command above, replace `MY_RESOURCE_GROUP` with your pre-existing Azure Resource Group, and `MY_APP_SERVICE_PLAN` with a new name for the App Service plan.

See the Azure documentation for more information on using the [Azure CLI](#):

- For authentication, see "[Sign in with Azure CLI](#)."
- If you need to create a new resource group, see "[az group](#)."

- 2 Create a web app.

For example, you can use the Azure CLI to create an Azure App Service web app with a PHP runtime:

Bash

```
az webapp create \  
  --name MY_WEBAPP_NAME \  
  --plan MY_APP_SERVICE_PLAN \  
  --resource-group MY_RESOURCE_GROUP \  
  --runtime "php|7.4"
```

In the command above, replace the parameters with your own values, where `MY_WEBAPP_NAME` is a new name for the web app.

- 3 Configure an Azure publish profile and create an `AZURE_WEBAPP_PUBLISH_PROFILE` secret.

Generate your Azure deployment credentials using a publish profile. For more information, see "[Generate deployment credentials](#)" in the Azure documentation.

In your GitHub repository, create a secret named `AZURE_WEBAPP_PUBLISH_PROFILE` that contains the contents of the publish profile. For more information on creating secrets, see "[Using secrets in GitHub Actions](#)."

- 4 Optionally, configure a deployment environment. Environments are used to describe a general deployment target like `production`, `staging`, or `development`. When a GitHub Actions workflow deploys to an environment, the environment is displayed on the main page of the repository. You can use environments to require approval for a job to proceed, restrict which branches can trigger a workflow, gate deployments with custom deployment protection rules, or limit access to secrets. For more information about creating environments, see "[Using environments for deployment](#)."

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 a PHP project to Azure App Service when there is a push to the `main` branch.

Ensure that you set `AZURE_WEBAPP_NAME` in the workflow `env` key to the name of the web app you created. If the path to your project is not the repository root, change `AZURE_WEBAPP_PACKAGE_PATH` to the path to your project. If you use a version of PHP other than `8.x`, change `PHP_VERSION` to the version that you use.

If you configured a deployment environment, change the value of `environment` to be the name of your environment. If you did not configure an environment or if your workflow is in a private repository and you do not use GitHub Enterprise Cloud, delete the `environment` key.

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: Build and deploy PHP app to Azure Web App

env:

```
AZURE_WEBAPP_NAME: MY_WEBAPP_NAME    # set this to your application's name
AZURE_WEBAPP_PACKAGE_PATH: '.'        # set this to the path to your web app
project, defaults to the repository root
PHP_VERSION: '8.x'                   # set this to the PHP version to use
```

on:

```
push:
  branches:
    - main
```

jobs:

```
build:
  runs-on: ubuntu-latest

  steps:
    - uses: actions/checkout@v4

    - name: Setup PHP
      uses: shivammathur/setup-php@v2
      with:
        php-version: ${ env.PHP_VERSION }

    - name: Check if composer.json exists
      id: check_files
      uses: andstor/file-existence-action@v2
      with:
        files: 'composer.json'

    - name: Get Composer Cache Directory
      id: composer-cache
      if: steps.check_files.outputs.files_exists == 'true'
      run: |
        echo "dir=$(composer config cache-files-dir)" >> $GITHUB_OUTPUT

    - name: Set up dependency caching for faster installs
      uses: actions/cache@v3
      if: steps.check_files.outputs.files_exists == 'true'
      with:
        path: ${ steps.composer-cache.outputs.dir }
        key: ${ runner.os }-composer-${ hashFiles('**/composer.lock') }
        restore-keys: |
          ${ runner.os }-composer-

    - name: Run composer install if composer.json exists
      if: steps.check_files.outputs.files_exists == 'true'
      run: composer validate --no-check-publish && composer install --prefer-dist --no-progress

    - name: Upload artifact for deployment job
      uses: actions/upload-artifact@v3
      with:
        name: php-app
        path: .

  deploy:
    runs-on: ubuntu-latest
    needs: build
    environment:
      name: 'production'
      url: ${ steps.deploy-to-webapp.outputs.webapp-url }

  steps:
    - name: Download artifact from build job
      uses: actions/download-artifact@v3
      with:
        name: php-app
```

```
- name: 'Deploy to Azure Web App'
  id: deploy-to-webapp
  uses: azure/webapps-deploy@85270a1854658d167ab239bce43949edb336fa7c
  with:
    app-name: ${{ env.AZURE_WEBAPP_NAME }}
    publish-profile: ${{ secrets.AZURE_WEBAPP_PUBLISH_PROFILE }}
    package: .
```

Additional resources [↗](#)

The following resources may also be useful:

- For the original starter workflow, see [azure-webapps-php.yml](#) in the GitHub Actions [starter-workflows](#) repository.
- The action used to deploy the web app is the official Azure [Azure/webapps-deploy](#) action.
- For more examples of GitHub Action workflows that deploy to Azure, see the [actions-workflow-samples](#) repository.

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