# This workflow will build and push a Python application to an Azure Web App when a commit is pushed to your default branch.

#

# This workflow assumes you have already created the target Azure App Service web app.

# For instructions see https://docs.microsoft.com/en-us/azure/app-service/quickstart-python?tabs=bash&pivots=python-framework-flask

#

# To configure this workflow:

#

# 1. Download the Publish Profile for your Azure Web App. You can download this file from the Overview page of your Web App in the Azure Portal.

# For more information: https://docs.microsoft.com/en-us/azure/app-service/deploy-github-actions?tabs=applevel#generate-deployment-credentials

#

# 2. Create a secret in your repository named AZURE\_WEBAPP\_PUBLISH\_PROFILE, paste the publish profile contents as the value of the secret.

# For instructions on obtaining the publish profile see: https://docs.microsoft.com/azure/app-service/deploy-github-actions#configure-the-github-secret

#

# 3. Change the value for the AZURE\_WEBAPP\_NAME. Optionally, change the PYTHON\_VERSION environment variables below.

#

# For more information on GitHub Actions for Azure: https://github.com/Azure/Actions

# For more information on the Azure Web Apps Deploy action: https://github.com/Azure/webapps-deploy

# For more samples to get started with GitHub Action workflows to deploy to Azure: https://github.com/Azure/actions-workflow-samples

name: Build and deploy Python app to Azure Web App

env:

AZURE\_WEBAPP\_NAME: your-app-name # set this to the name of your Azure Web App

PYTHON\_VERSION: '3.8' # set this to the Python version to use

on:

push:

branches:

- main

workflow\_dispatch:

jobs:

build:

runs-on: ubuntu-latest

steps:

- uses: actions/checkout@v2

- name: Set up Python version

uses: actions/setup-python@v2.2.2

with:

python-version: ${{ env.PYTHON\_VERSION }}

cache: 'pip'

- name: Create and start virtual environment

run: |

python -m venv venv

source venv/bin/activate

- name: Install dependencies

run: pip install -r requirements.txt

# Optional: Add step to run tests here (PyTest, Django test suites, etc.)

- name: Upload artifact for deployment jobs

uses: actions/upload-artifact@v2

with:

name: python-app

path: |

.

!venv/

deploy:

runs-on: ubuntu-latest

needs: build

environment:

name: 'Development'

url: ${{ steps.deploy-to-webapp.outputs.webapp-url }}

steps:

- name: Download artifact from build job

uses: actions/download-artifact@v2

with:

name: python-app

path: .

- name: 'Deploy to Azure Web App'

id: deploy-to-webapp

uses: azure/webapps-deploy@v2

with:

app-name: ${{ env.AZURE\_WEBAPP\_NAME }}

publish-profile: ${{ secrets.AZURE\_WEBAPP\_PUBLISH\_PROFILE }}