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Deploying Node.js to Azure App Service

In this article

- Introduction
- Prerequisites
- Creating the workflow
- Additional resources

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

Note: GitHub-hosted runners are not currently supported on GitHub Enterprise Server. You can see more information about planned future support on the [GitHub public roadmap](#).

Introduction

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

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 Node.js runtime:

Bash

```
az webapp create \
  --name MY_WEBAPP_NAME \
  --plan MY_APP_SERVICE_PLAN \
  --resource-group MY_RESOURCE_GROUP \
  --runtime "NODE|14-lts"
```

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 "[Encrypted secrets](#)."

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, 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, test, and deploy the Node.js 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 your project path. If you use a version of Node.js other than `10.x`, change `NODE_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, 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

on:
  push:
    branches:
      - main

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
  NODE_VERSION: '14.x'                 # set this to the node version to use

jobs:
  build:
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v2

      - name: Set up Node.js
        uses: actions/setup-node@v2
        with:
          node-version: ${ env.NODE_VERSION }
          cache: 'npm'

      - name: npm install, build, and test
        run: |
          npm install
          npm run build --if-present
          npm run test --if-present

      - name: Upload artifact for deployment job
        uses: actions/upload-artifact@v2
        with:
          name: node-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@v2
        with:
          name: node-app

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

Additional resources

The following resources may also be useful:

- For the original starter workflow, see [azure-webapps-node.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.

- The "[Create a Node.js web app in Azure](#)" quickstart in the Azure web app documentation demonstrates using Visual Studio Code with the [Azure App Service extension](#).

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