

Publishing Application to Azure Web App

Azure Web App is a Platform-as-a-Service (PaaS) offering from Microsoft Azure that allows developers to easily host, build, deploy, and scale web applications and APIs. It abstracts away the complexities of managing the underlying infrastructure, enabling developers to focus entirely on application development and deployment.

Azure Web App is ideal for businesses or developers who want a **reliable, scalable, and secure platform** to host their web applications without the overhead of managing infrastructure. It's a robust solution for modern cloud-native applications.

Use Cases of Azure Web App

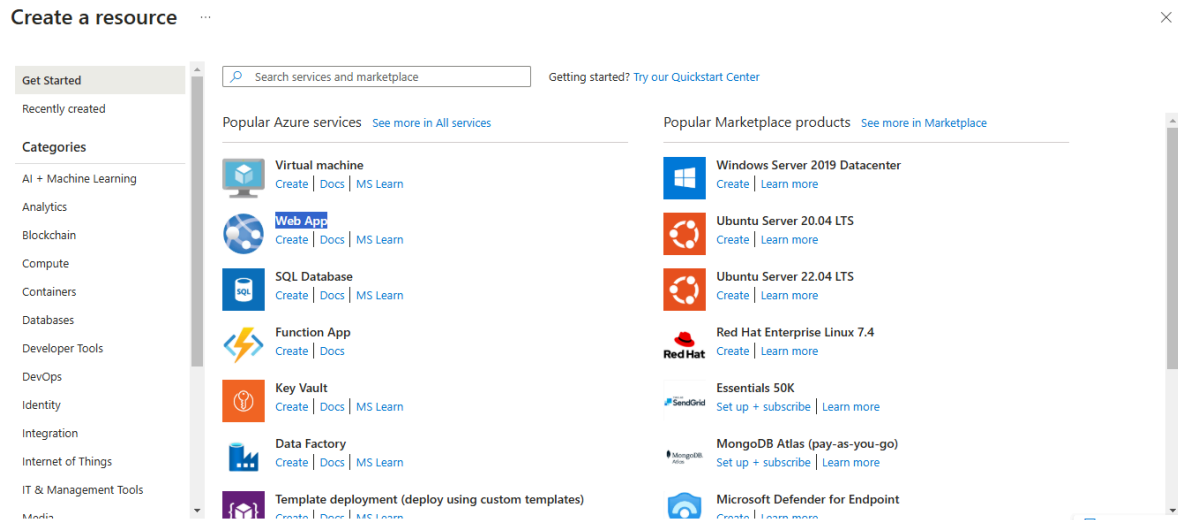
1. Hosting dynamic websites and web applications, such as corporate websites, blogs, or e-commerce platforms.
2. Deploying RESTful APIs for mobile and web applications, or as part of a microservices architecture.
3. Running user-facing dashboards, internal portals, or collaboration platforms.
4. Hosting server-side rendered applications using frameworks like Next.js, Nuxt.js, or ASP.NET.
5. Deploying Software-as-a-Service (SaaS) applications with multi-tenant support.
6. Serving static websites and Jamstack applications with integrations to headless CMS.
7. Supporting continuous deployment for staging, testing, and production environments.
8. Running event-driven applications like real-time chat or notification systems.
9. Deploying multi-region applications for low-latency global access.
10. Managing scalable workloads to handle fluctuating traffic, such as seasonal e-commerce or promotional campaigns.

The end goal of this lab is to successfully publish a .NET application onto an Azure Web App, a platform-as-a-service offering. By creating and configuring a Web App resource in Azure, choosing the appropriate runtime stack (.NET 6), and generating a new publish profile in Visual Studio, the application is seamlessly deployed to the Web App. Once published, the application is accessible via the Web App's default domain, showcasing its functionality. This process eliminates the need to manage underlying infrastructure, providing a scalable, managed hosting solution while demonstrating Azure's ease of use for application deployment.

To begin with the lab

1. First we need to create a webapp. To create one navigate to the Azure portal under "Popular Azure Services" and select the **Web App** option.

2. Select an existing resource group.



Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ MSDN Platforms Subscription

Resource Group * ⓘ (New) Resource group

Select existing...

Demors

NetworkWatcherRG

Secure unique default hostname on. [More about this update](#)

Publish * ☒ Code ☐ Container

[Review + create](#)

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3. Provide a globally unique name for your web app. Choose .NET6 to align with the project's framework and then select region.(eg. North Europe).

Instance Details

Name ✓
-frbegha7cmbjeggk.northeurope-01.azurewebsites.net

☒ Secure unique default hostname on. [More about this update](#)

Publish * ☒ Code ☐ Container

Runtime stack * ▼

Operating System * ☐ Linux ☒ Windows

Region * ▼

Not finding your App Service Plan? Try a different region or select your App Service Environment.

4. Choose your pricing accordingly. Default is **Standard S1**, but the **Free F1** plan limits compute to 60 minutes/day. So select **Basic P1** to ensure the application runs without time limitations.

Pricing plans

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app. [Learn more](#)

Windows Plan (North Europe) * ▼
[Create new](#)

Pricing plan ▼
[Explore pricing plans](#)

5. Disable **Application Insights** during setup (can be enabled later for diagnostics) insights and then move to review page and create your webapp.

Basics Deployment Networking Monitor + secure Tags Review + create

The following features are optional and billed separately. Microsoft recommends enabling them to ensure the most robust protections and capabilities to monitor and secure your web applications.

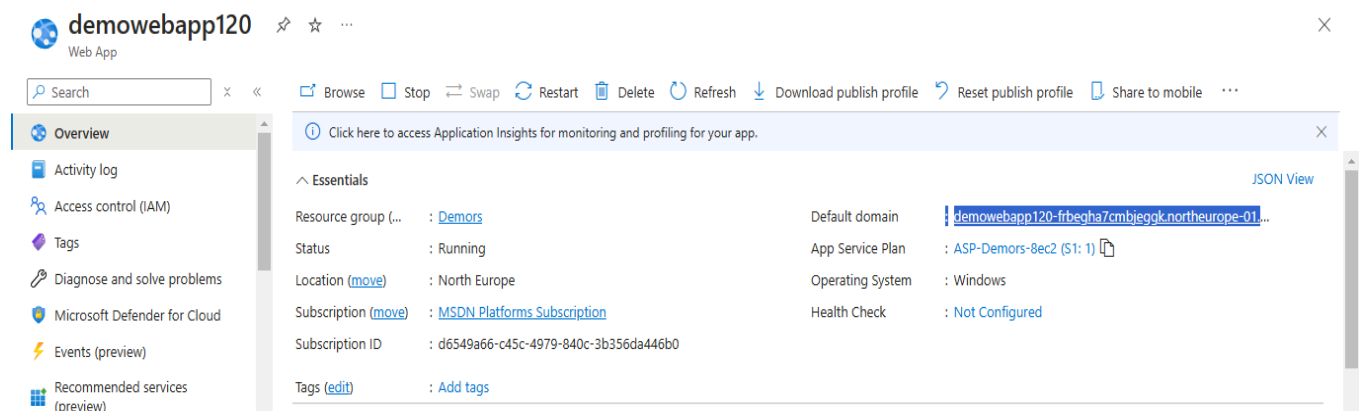
Application Insights

Azure Monitor application insights is an Application Performance Management (APM) service for developers and DevOps professionals. Enable it below to automatically monitor your application. It will detect performance anomalies, and includes powerful analytics tools to help you diagnose issues and to understand what users actually do with your app. Your bill is based on amount of data used by Application Insights and your data retention settings. [Learn more](#)

[App Insights pricing](#)

Enable Application Insights * ☒ No ☐ Yes

- Review and finalize the configuration, then click **Create**.
- Once your webapp is deployed successfully, Access the default domain name in a new tab provided to see a default sample page confirming deployment success.



The screenshot shows the Azure portal interface for a web app named 'demowebapp120'. The left sidebar contains navigation links: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events (preview), and Recommended services (preview). The main content area displays the 'Overview' page with a top bar containing action buttons like Browse, Stop, Swap, Restart, Delete, Refresh, Download publish profile, Reset publish profile, and Share to mobile. Below this, a banner links to Application Insights. The 'Essentials' section lists key properties:

Property	Value
Resource group	Demors
Status	Running
Location	North Europe
Subscription	MSDN Platforms Subscription
Subscription ID	d6549a66-c45c-4979-840c-3b356da446b0
Tags	Add tags
Default domain	demowebapp120-frbegha7cmbjggk.northeurope-01...
App Service Plan	ASP-Demors-8ec2 (S1: 1)
Operating System	Windows
Health Check	Not Configured


- You will land to the newly created webapp.



Your web app is running and waiting for your content

Your web app is live, but we don't have your content yet. If you've already deployed, it could take up to 5 minutes for your content to show up, so come back soon.



 Supporting Node.js, Java, .NET and more

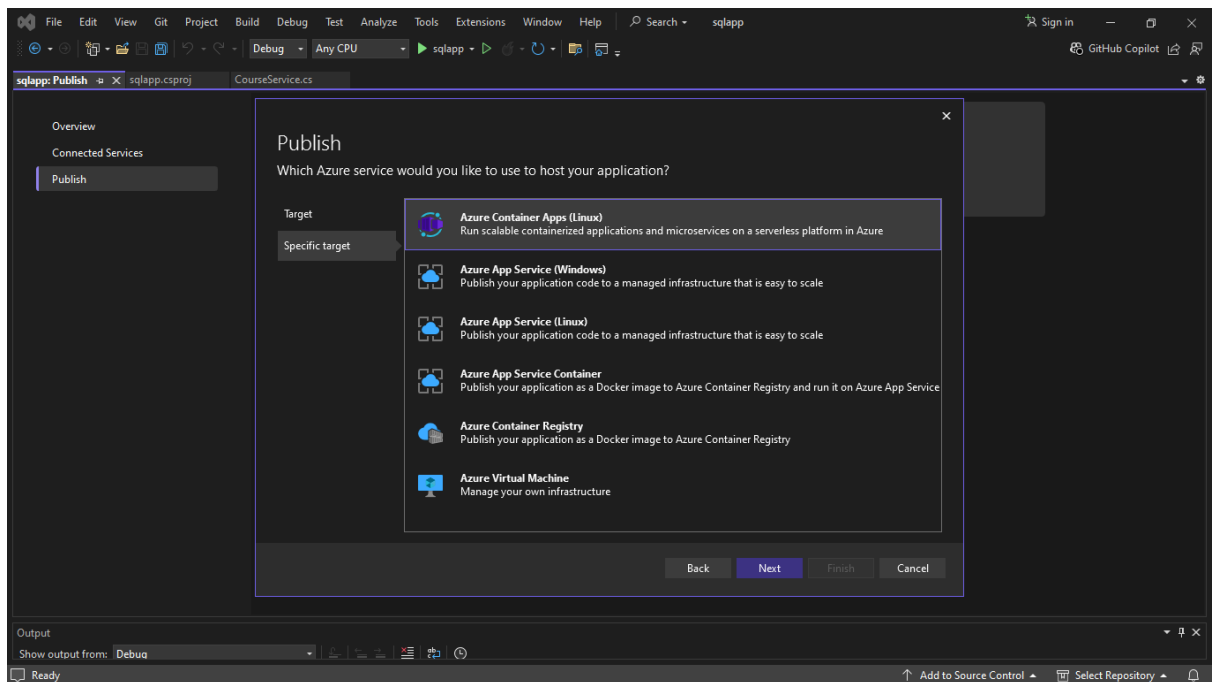
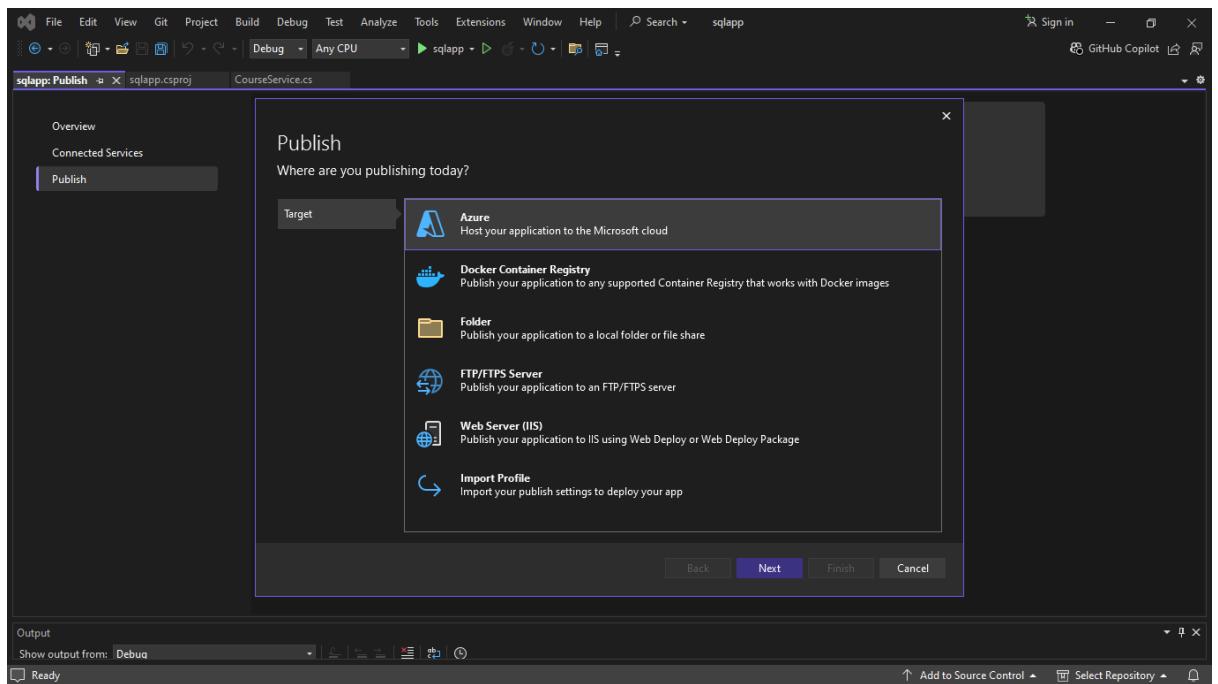
Haven't deployed yet?
Use the deployment center
to publish code or set up
continuous deployment.

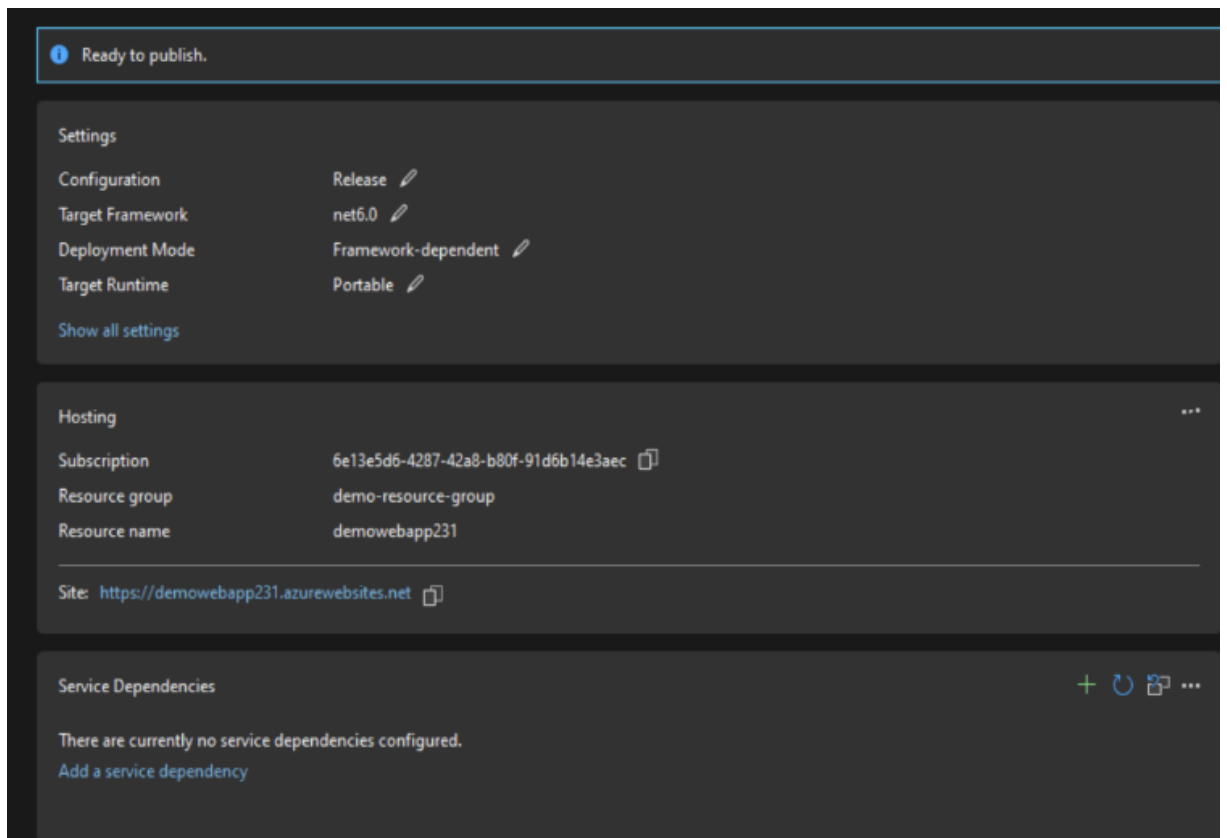
[Deployment center](#)

Starting a new web site?
Follow our Quickstart guide
to get a web app ready
quickly.

[Quickstart](#)

- In the Publish section, create a new profile Select **Azure** as the destination. Choose **Azure App Service (Windows)**. Select the subscription, resource group, and newly created web app. Click **Finish** to generate the publish profile.





10. Refresh the web app's domain in a browser to see the deployed application running live.