.NET Conf 2022

Azure Static Web Apps

with Full Stack .NET

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What we will cover

- Azure Static Web Apps
- Full Stack Apps with Blazor and .NET
- Debugging and Deployment
- Advanced Scenarios

About Me

azenix

Lead Software Engineer &
Developer Relations

Microsoft MVP
Most Valuable Professional

Microsoft MVP
Developer Technologies

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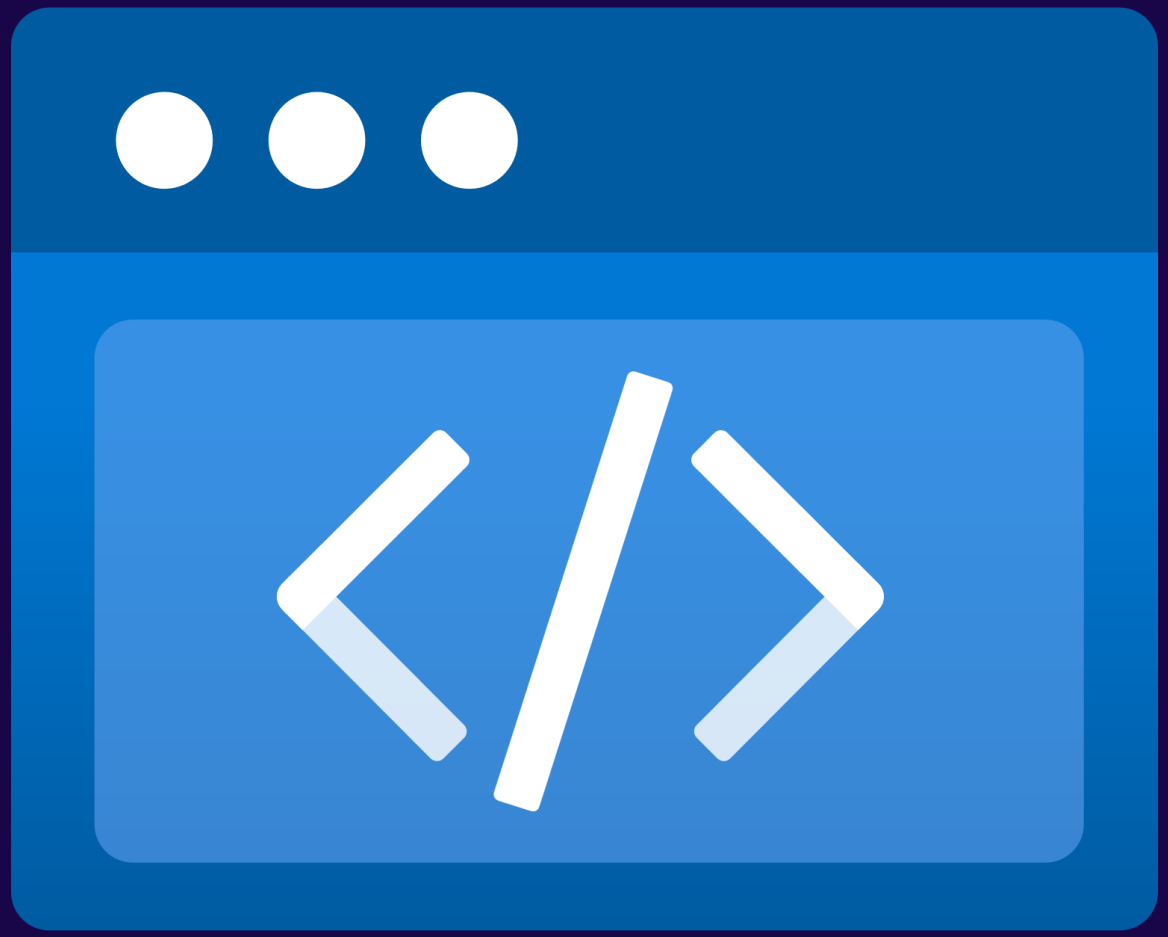
Azure Static Web Apps



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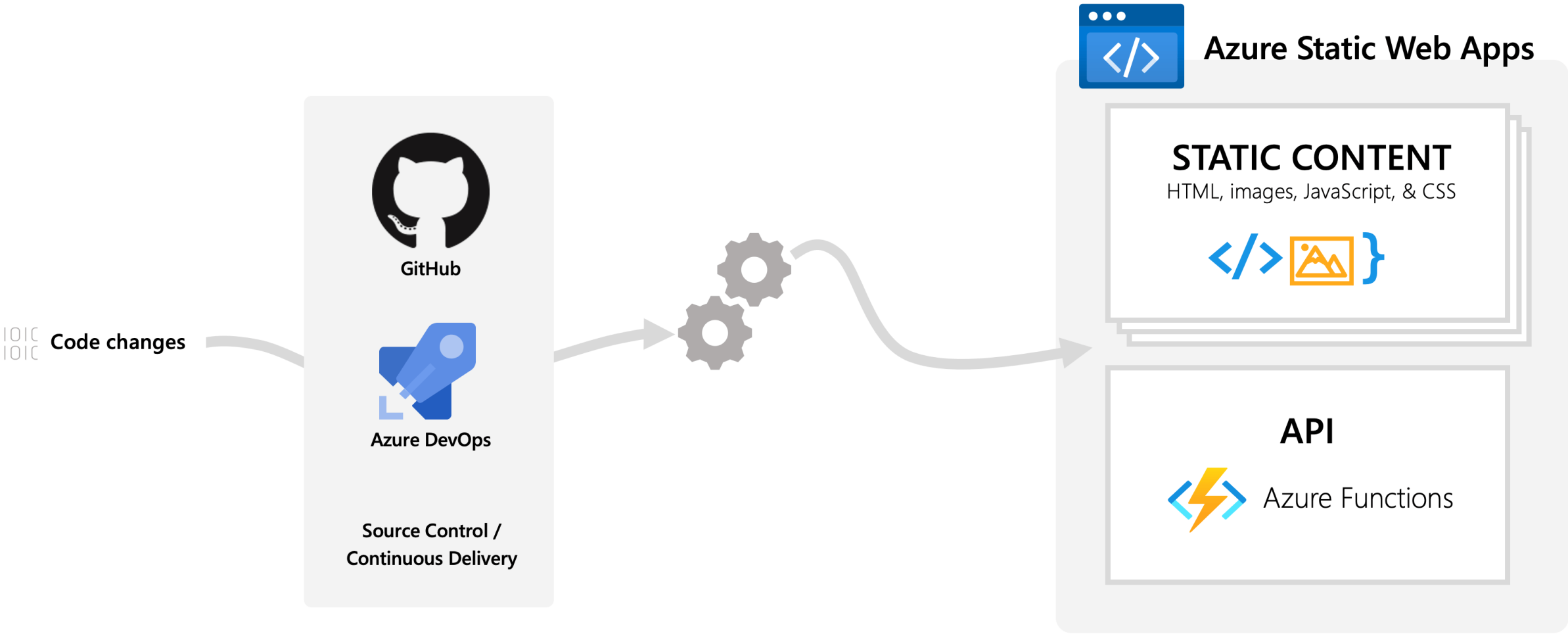

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Source https://learn.microsoft.com/en-us/azure/static-web-apps/overview

Azure Static Web Apps

- Globally-distributed hosting
- Streamlined build and deployment
- Custom domains and free SSL certificates
- Built-in authentication and routing rules
- Generated Staging Environments
- CLI Support

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Generally Available

Azure Static Web Apps and .NET 7

.NET

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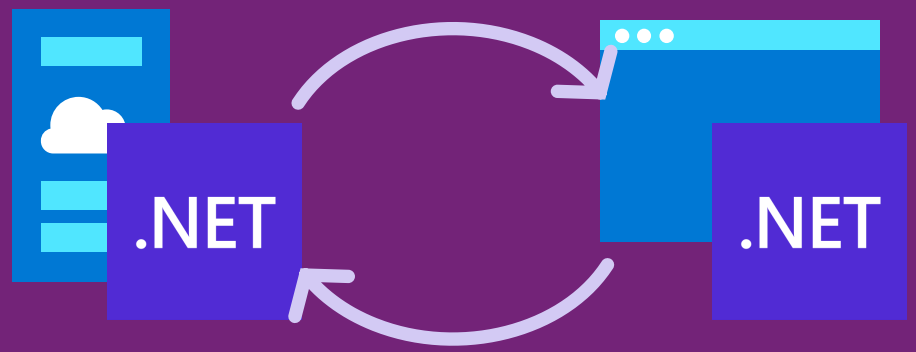
Blazor WebAssembly

Full-featured frontend framework

Runs .NET client-side on WebAssembly

Shared component model across the server and client browser

Full stack .NET Web Applications



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Azure Functions and .NET

Serverless solution with .NET option

Run code blocks based on triggers

Event-driven automated scaling

No infrastructure management

Flexible pricing options

Isolated Worker Model

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Demo

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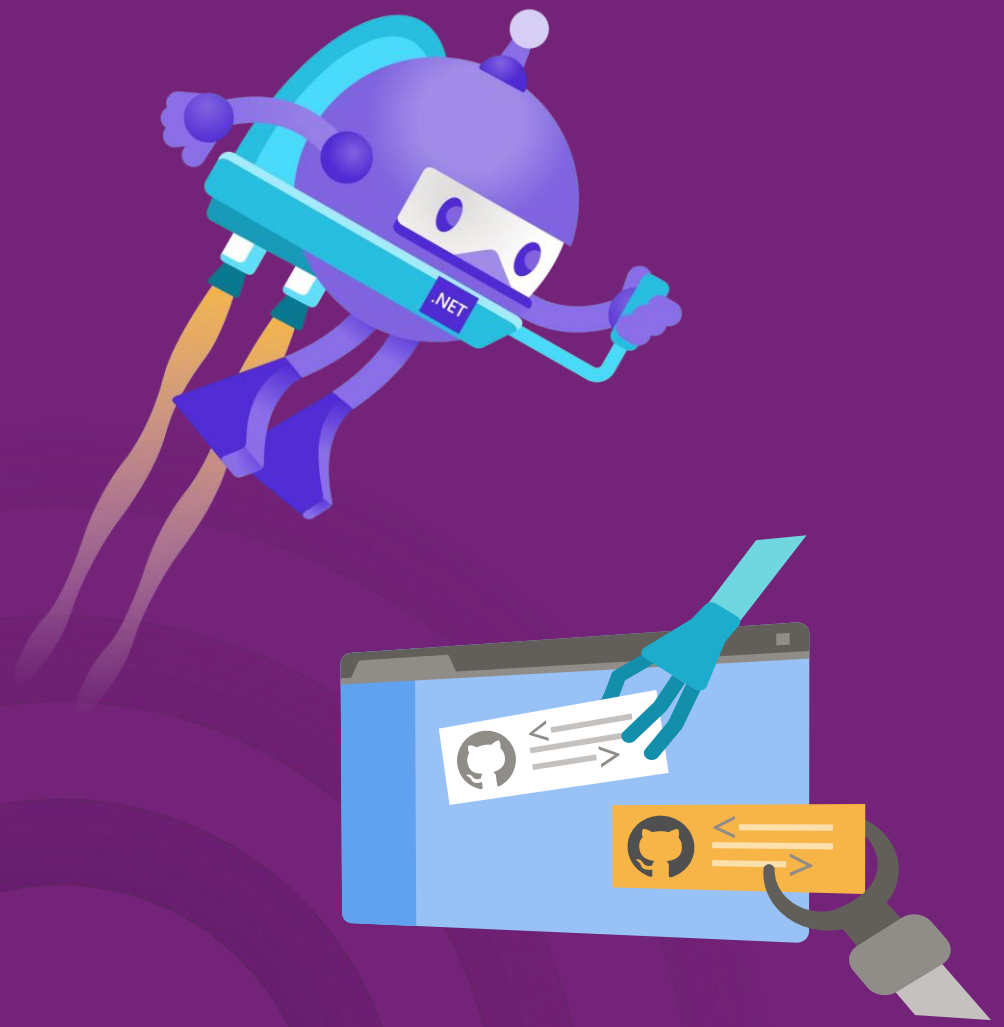

Deployment

First class GitHub and Azure DevOps integration

Automatically build and deploy on code change

Staging versions based on Pull Requests

Globally Distributed Static Hosting

Now GA: GitLab and BitBucket Support

SWA CLI Get Started About Docs Contribute StackOverflow

Static Web Apps CLI

All-in-One Local Development Tool For Azure Static Web Apps

Get Started →

Install

Install the Azure Static Web Apps CLI using **yarn** or **npm**.

Init

Setup your project using **swa init**

Login

Authenticate with Azure services using **swa login**

Start

Preview and debug your static web app using **swa start**.

Deploy SWA (cloud)

Build/deploy to multiple environments using **swa deploy**

Configure

Setup **environment variables** and **config settings**.

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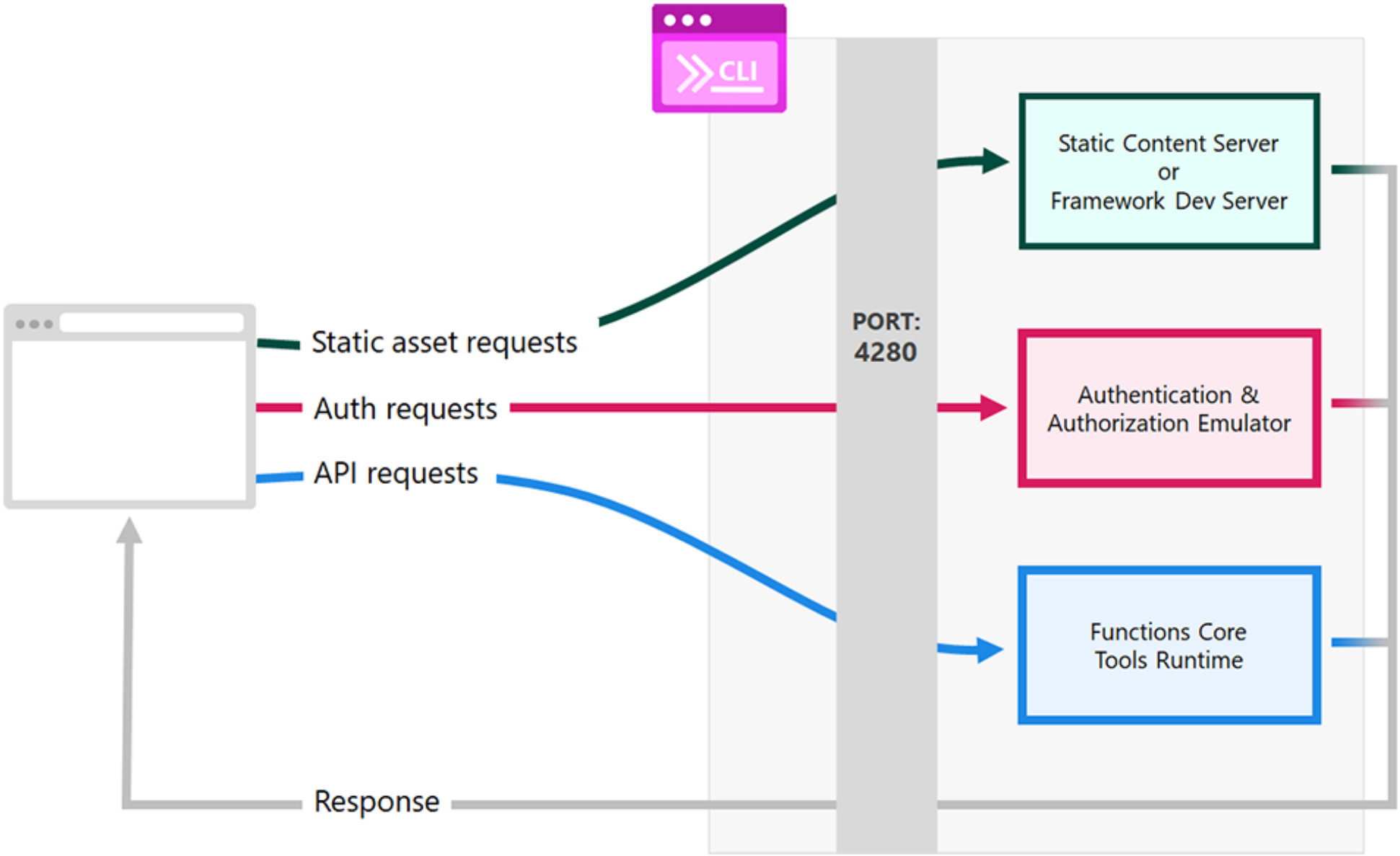
Source: https://azure.github.io/static-web-apps-cli/



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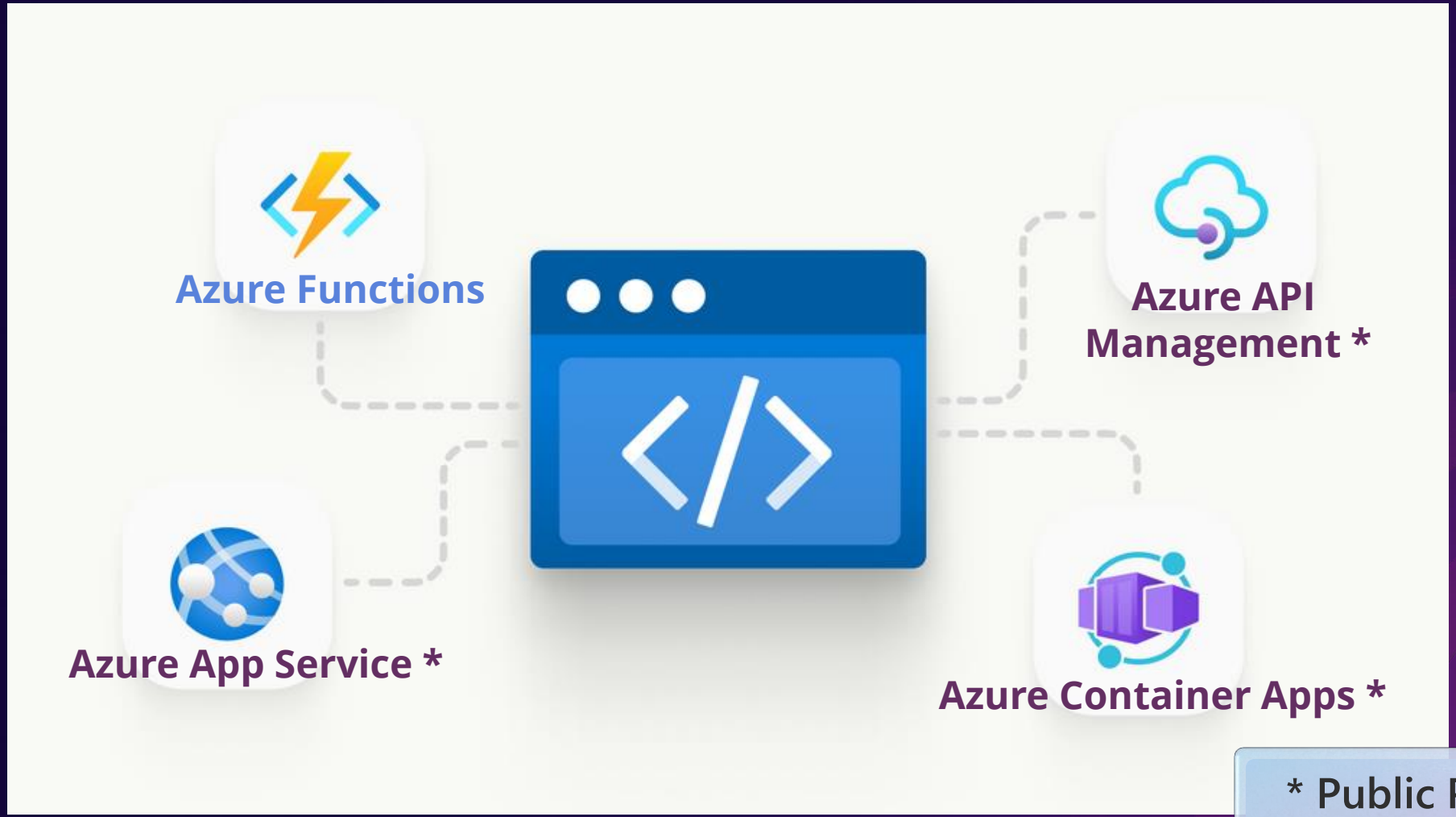
Source: https://azure.github.io/static-web-apps-cli/docs/intro

New Backend API Options



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Source: https://techcommunity.microsoft.com/t5/apps-on-azure-blog/new-api-backend-options-in-azure-static-web-apps/ba-p/3516882

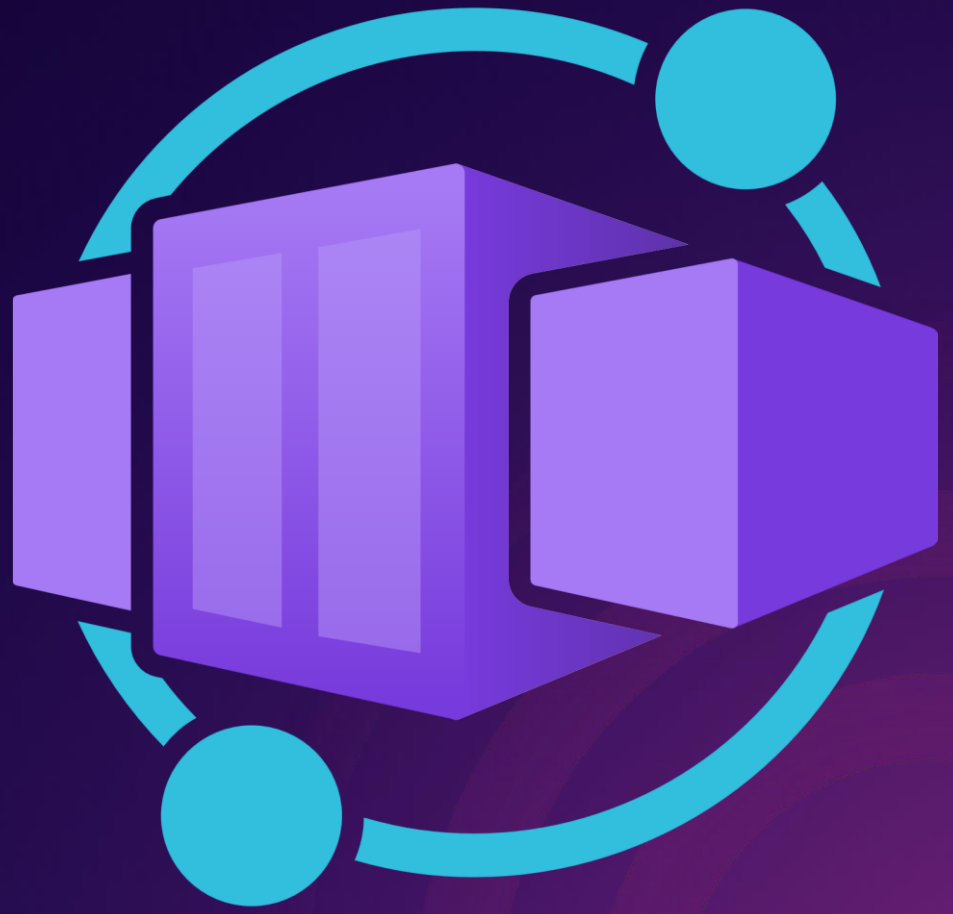
Azure Container Apps

Serverless containers for microservices

ASP.NET Web APIs and Minimal APIs

Worker Service for background services

Focus on apps, not infrastructure



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Demo

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Enterprise-Grade Edge

Combines capabilities of Azure SWA, Azure Front Door, and Azure CDN

Caching assets at the edge

Global presence

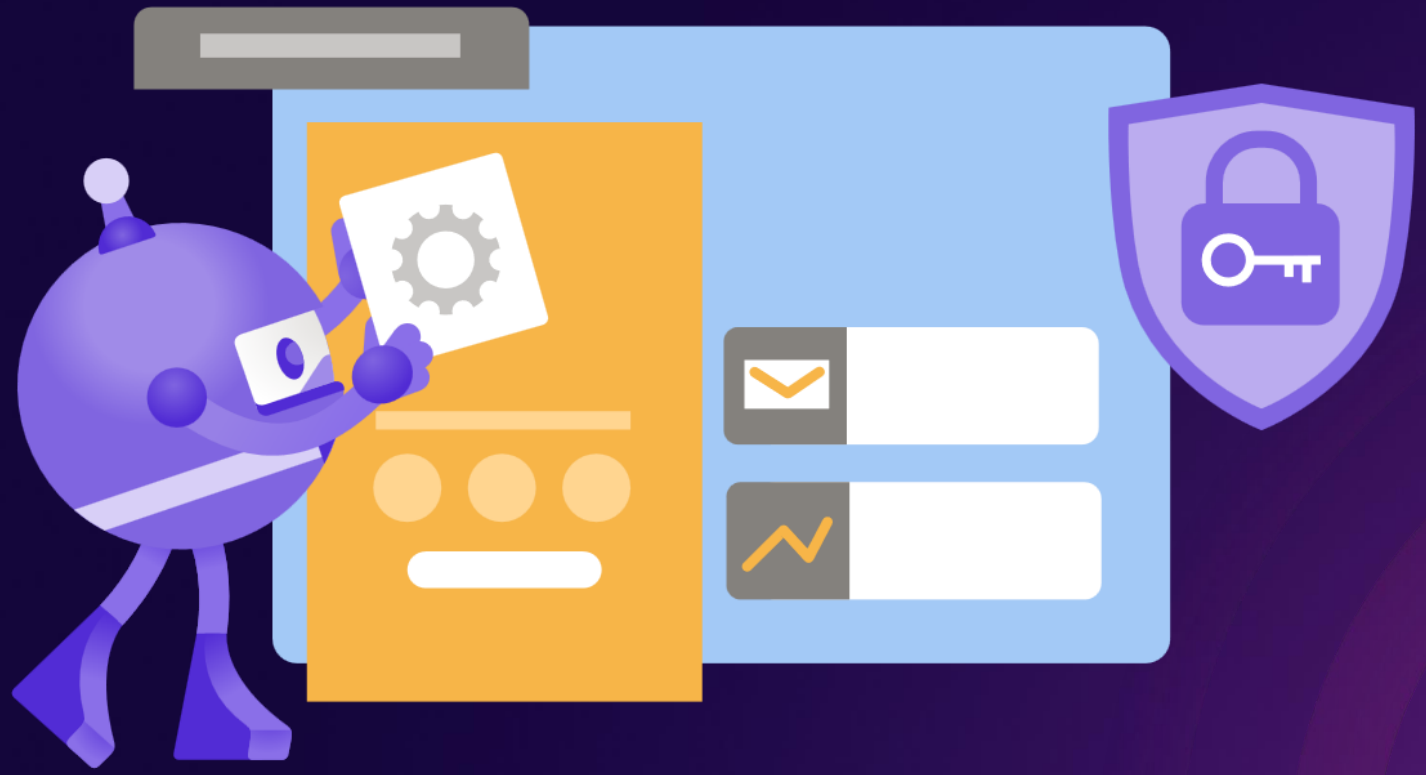
Faster Page Loads

Enhanced Security

Authentication

- Azure Active Directory
- GitHub
- Twitter
- Custom Providers

Demo



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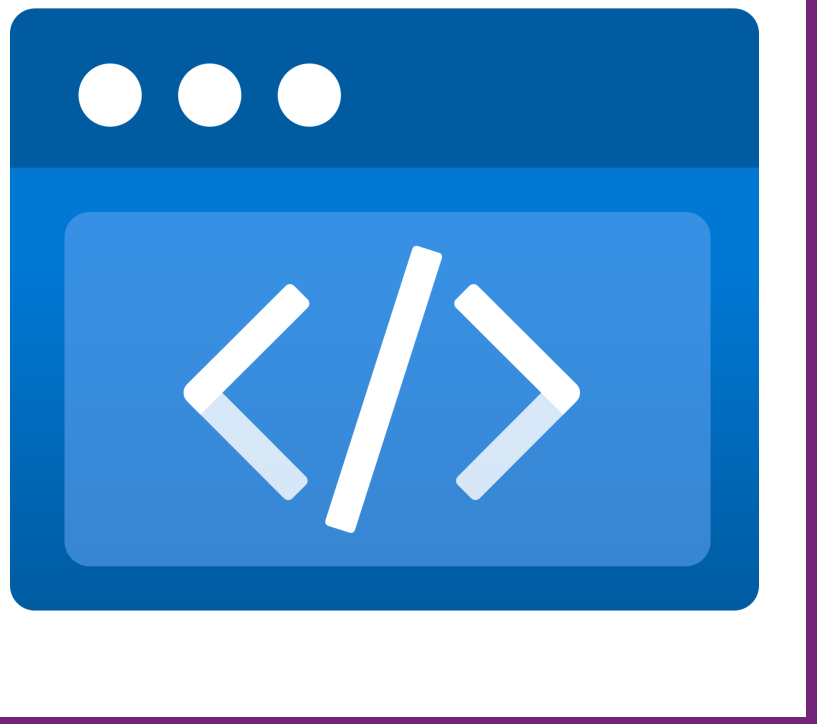
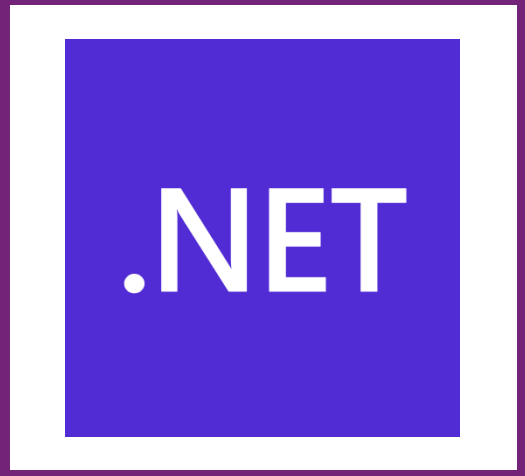




Summary

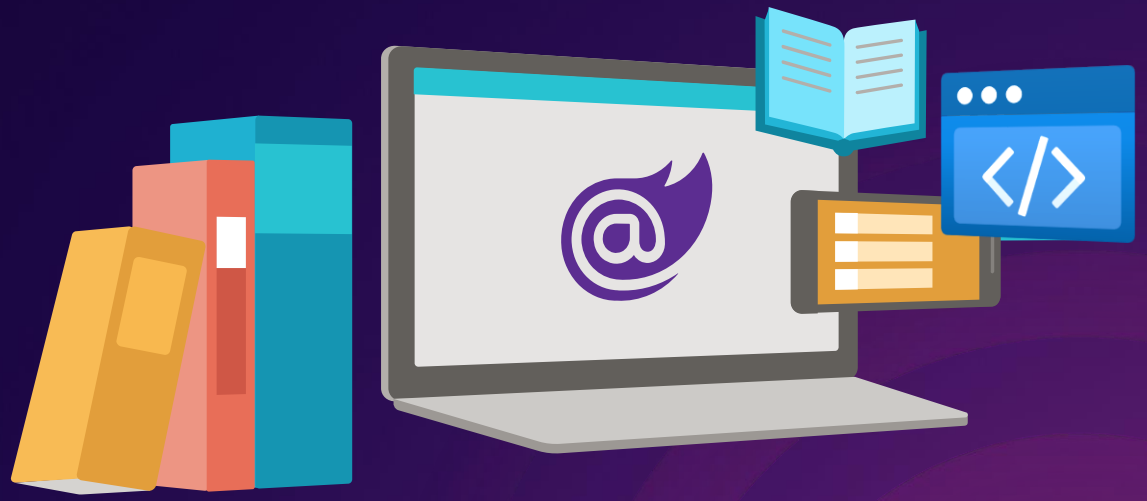
Get started today

Full-stack .NET Serverless Web Apps

Streamlined CI/CD to Azure

Free plan option

Free learning resources



aka.ms/SWA-Blazor

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Thank you!

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