

Building Distributed Apps in Minutes with Aspire

Simplifying Complexity

Barret Blake



About Me



Barret Blake

Microsoft MVP - .NET, Power Automate



Husband
Father
Speaker
Blogger
Writer
Mentor
Developer
Solutions Architect
Gamer
Model Railroader
Former Manager
Former Teacher





Agenda



Orchestration





Aspire

NuGet Packages

ex. `Aspire.Azure.Storage.Blobs`



Apache Kafka

ApplInsights

AWS Hosting

Azure OpenAI & AI Search

Azure Blob Storage

Azure Cosmos DB

Azure Event Hubs

Azure Key Vault

Azure Search Documents

Azure Service Bus

Azure SignalR

Azure Storage Queues

Azure Table Storage

Azure Web PubSub

Dapr

ElasticSearch

KeyCloak

Milvus

MongoDB

MySql

NATS

Oracle

Orleans

PostgreSQL

Qdrant

RabbitMQ

Redis Distributed Caching

Redis Output Caching

Redis

Seq

SQL Server

Demo Time





Production Deployment

Azure Container Apps

Azure Developer CLI: `azd`
Visual Studio Publish: also `azd`

Kubernetes

Aspir8

Traditional

CI/CD: GitHub Actions or Azure Pipelines or whatever

2025-2026 Roadmap

.localhost DNS

Full local HTTPS support

Dev tunnels

Subset execution

Container command execution

Debug .NET in containers

AI Improvements: Token usage
visualization & LLM metrics

Aspire CLI

Homebrew/Winget support

VS Code extension

Improved Azure integration

Multi-repo support

Improved runtime acquisition

Improved Dashboards

Partial AppHost execution

Request redirection

In-process Mocking

Code coverage reports

Dashboard telemetry
persistence between runs

Custom dashboard layouts

Improved search & filtering

Multi-environment support



Additional Resources

Web

<https://aspire.dev>

<https://aspirify.net>

<https://learn.microsoft.com/en-us/dotnet/aspire/get-started/aspire-overview>

<https://github.com/dotnet/aspire>

<https://www.youtube.com/@dotnet>

Aspire Discord

<https://discord.com/invite/raNPcaaSj8>

Bluesky Accounts

[@james.newtonking.com](https://bsky.app/profile/@james.newtonking.com)

[@davidfowl.com](https://bsky.app/profile/@davidfowl.com)

[@alvinashcraft.com](https://bsky.app/profile/@alvinashcraft.com)

[@erikej.bsky.social](https://bsky.app/profile/@erikej.bsky.social)

[@james.montemagno.com](https://bsky.app/profile/@james.montemagno.com)

[@dot.net](https://bsky.app/profile/@dot.net)





Thank you

Barret Blake



<https://barretblake.dev>



<https://youtube.com/@barretcodes>



<https://nimblepros.com>



<https://linkedin.com/in/barretblake>



[@barretblake.dev](https://twitter.com/barretblake.dev)



<https://github.com/barretb>