Building Distributed Apps in Minutes with Aspire Simplifying Complexity

Barret Blake



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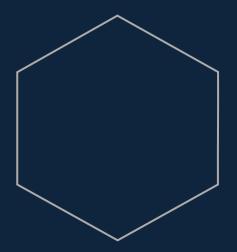
Microsoft MVP - .NET, Power Automate



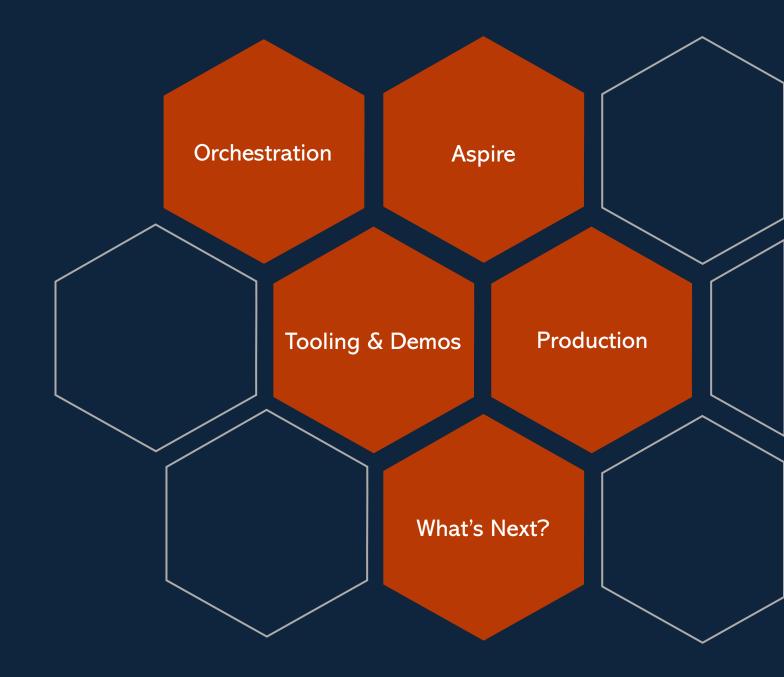
About Me

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

Applnsights

AWS Hosting

Azure OpenAl & Al 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

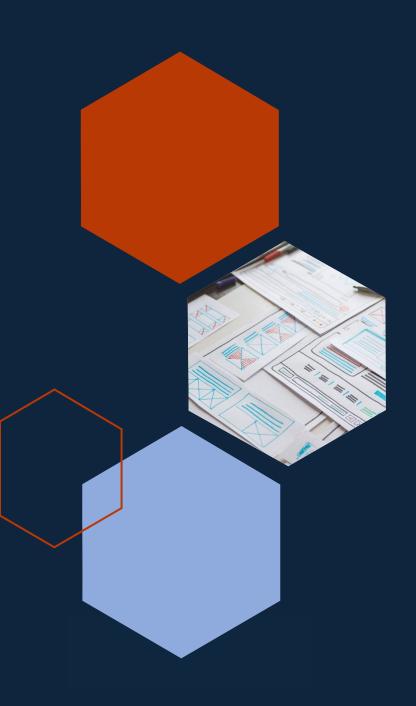
Seq

SQL Server



Demo Time





Production Deployment

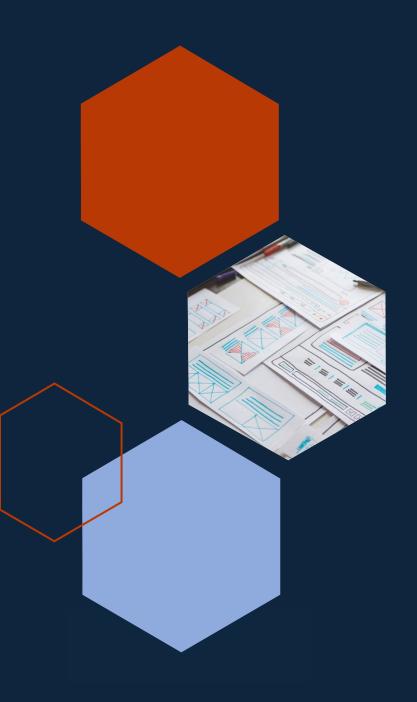
Azure Container Apps

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

Al 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

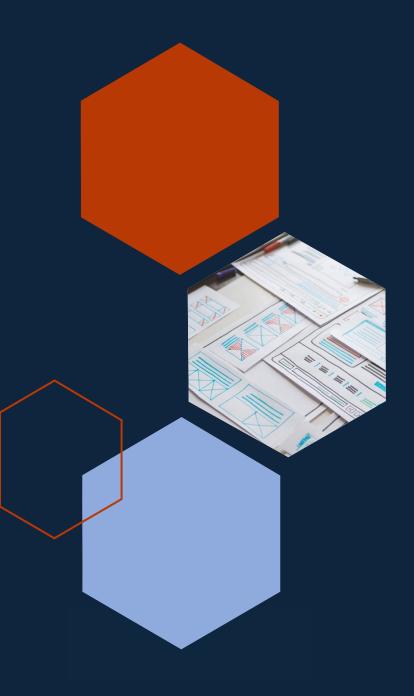
Code coverage reports

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
- @davidfowl.com
- @alvinashcraft.com
- @erikej.bsky.social
- @james.montemagno.com
- @dot.net



Thank you Barret Blake









https://barretblake.dev



https://youtube.com/@barretcodes



https://nimblepros.com



https://linkedin.com/in/barretblake



@barretblake.dev



https://github.com/barretb