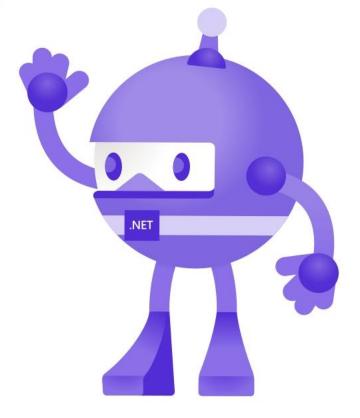
Production Ready Distributed Application with .NET Aspire



Tommaso Stocchi















Bit of History - Tye

Project Tye



Goal:

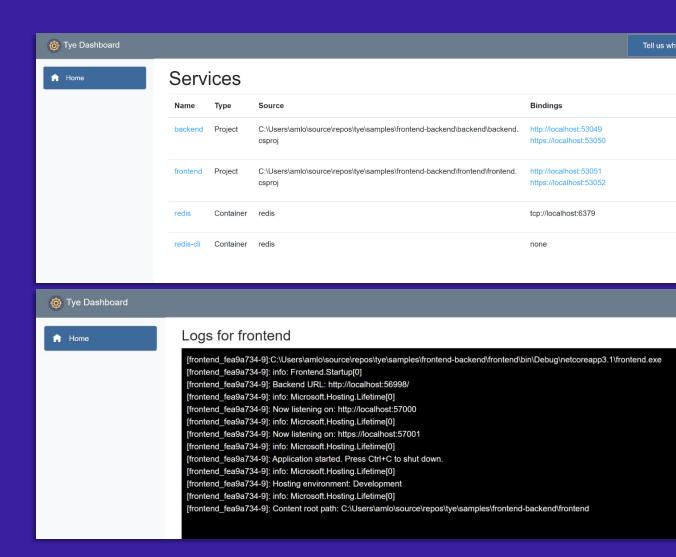
Make building and deploying .NET cloud apps running on Kubernetes trivial

Customer Experience:

- YAML file to describe solution/topology
- Tye could run external container dependencies (Redis, Postgres)
- Developer dashboard
- Run as containers or processes
- Deploy directly to K8S via a temporary manifest

Reaction¹

People loved the developer experience – orchestration, containerization, the dashboard but saw no real value in the K8S deployment part.







.NET Aspire



.NET Aspire is a **stack** for building **resilient**, **observable**, and **configurable** cloud-native applications with .NET



.NET Aspire includes a curated set of components enhanced for cloud-native fundamentals including Telemetry,
Resilience, Configuration,
Health Checks, and
Composition



.NET Aspire makes it easy to discover, acquire, and configure essential dependencies for cloud-native applications on day 1 and day 100

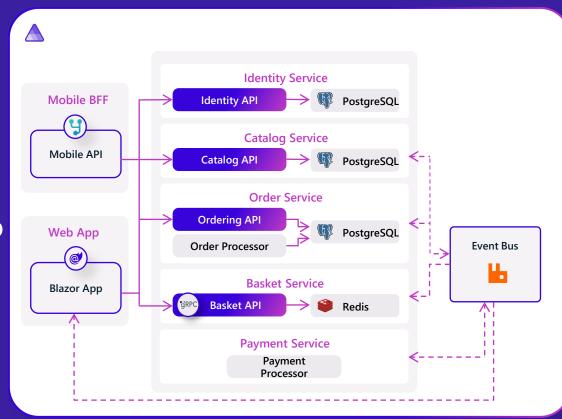


Aspire components



App Model

- Orchestrates resources in your dev environment
 - Projects, containers, executables, live dependencies
- Grows with you:
 - From a single web app with a database to many microservices and their dependencies.
- Can generate a manifest that can be examined by other process, such as deployment pipelines or tooling.





DEMO



Useful Links ©

- .NET Aspire overview .NET Aspire | Microsoft Learn
- .NET Aspire preview 4 .NET Aspire | Microsoft Learn
- <u>aspire-samples/samples/AspireWithDapr at main · dotnet/aspire-samples (github.com)</u>
- <u>aspire-</u> <u>samples/samples/AspireWithJavaScript/AspireJavaScript.AppHost/Program.cs at main · dotnet/aspire-samples (github.com)</u>
- Deploy a .NET Aspire app to Azure Container Apps using `azd` (indepth guide) .NET Aspire | Microsoft Learn
- .NET Aspire manifest format for deployment tool builders .NET Aspire | Microsoft Learn



Questions?









VOTAZIONE

La tua opinione è importante Aiutaci a migliorare dandoci il tuo feedback sull'evento

