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ASP.NET Core Minimal APIs
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Christian Nagel

Microsoft MVP

- Training
- Coaching
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- Development

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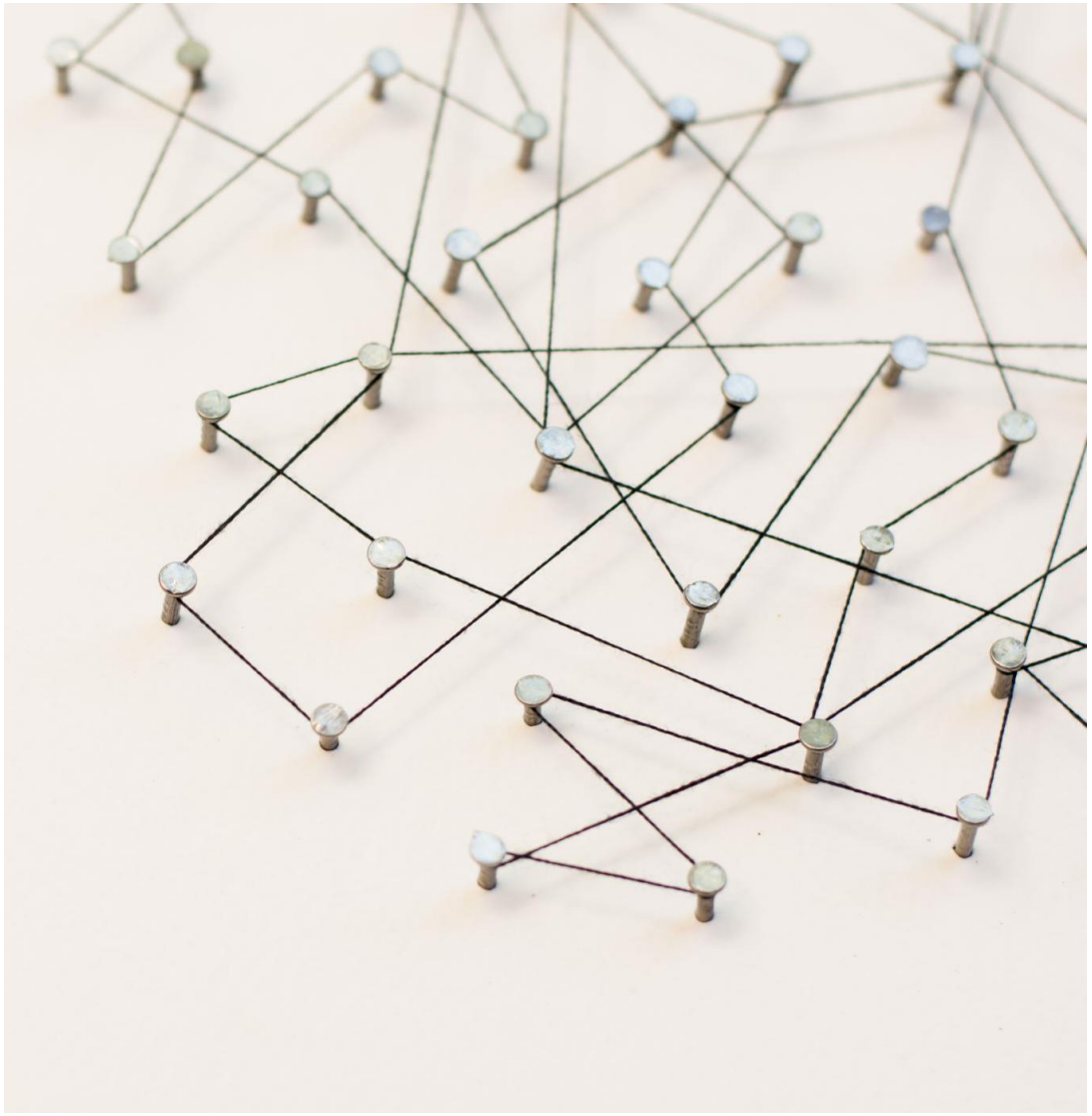
Topics

- Are Minimal APIs useful on a larger scale?
- What made the Minimal APIs possible with .NET 6?
- Minimal APIs with .NET 7
- What about .NET 8?

- Just a few slides → many demos!
- Source code available on GitHub!



Demo

Minimal API with .NET 6

What made this possible?

- Top-level statements (C# 9)
- Natural typed lambdas (C# 10)
- *WebApplication* and *WebApplicationBuilder* (.NET 6)
- *Results* factory class (.NET 6)

Demo

Minimal APIs with .NET 7

.NET 7

- Grouped endpoints
  - Group endpoints for common functionality
- Better OpenAPI Support
  - Typed results and more
- Filters
  - Exception, validation, logging filters
- Visual Studio Endpoints Explorer
- dotnet publish with Docker support

Demo

.NET 8 Preview 4

Enhancements

JSON Serializer Source Generator

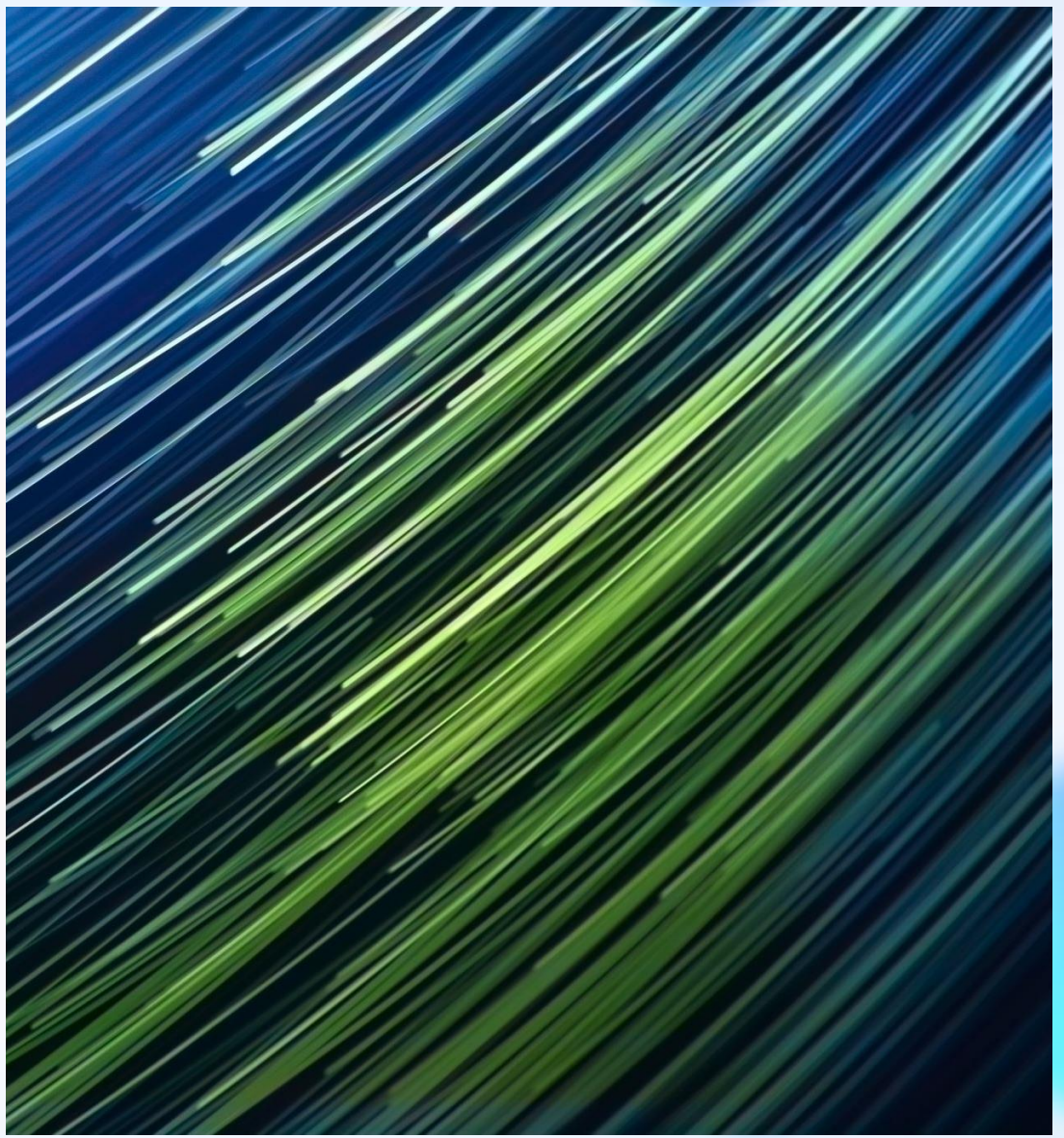
- Available since .NET 6, can be used with older .NET versions

Slim Builder

- Reduce services registered

Native AOT Deployment

- The most important .NET 8 feature



Native AOT

- Reduce startup time
- Reduce disk size requirements
- Reduce memory consumption
- https://learn.microsoft.com/en-us/aspnet/core/fundamentals/native-aot

Native AOT Restrictions

- No assembly loading
- No runtime code-generation
- No built-in COM
- requires trimming
- App size increased compared to framework-dependent)
- No MVC, SignalR, Blazor Server
- No Authentication (JWT coming soon)
- No session

Take away

- Minimal APIs started with .NET 6
- Minimal APIs have a bright future
- Great for small and large services
- Native AOT started with .NET 7
- Native AOT brings big changes for .NET
- Not all your services can take advantage of Native AOT with .NET 8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