



# Minimal API with .NET

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Professional

# C# and .NET 2021 Edition

## Christian Nagel

Microsoft MVP

- Training
- Coaching
- Consulting
- Development

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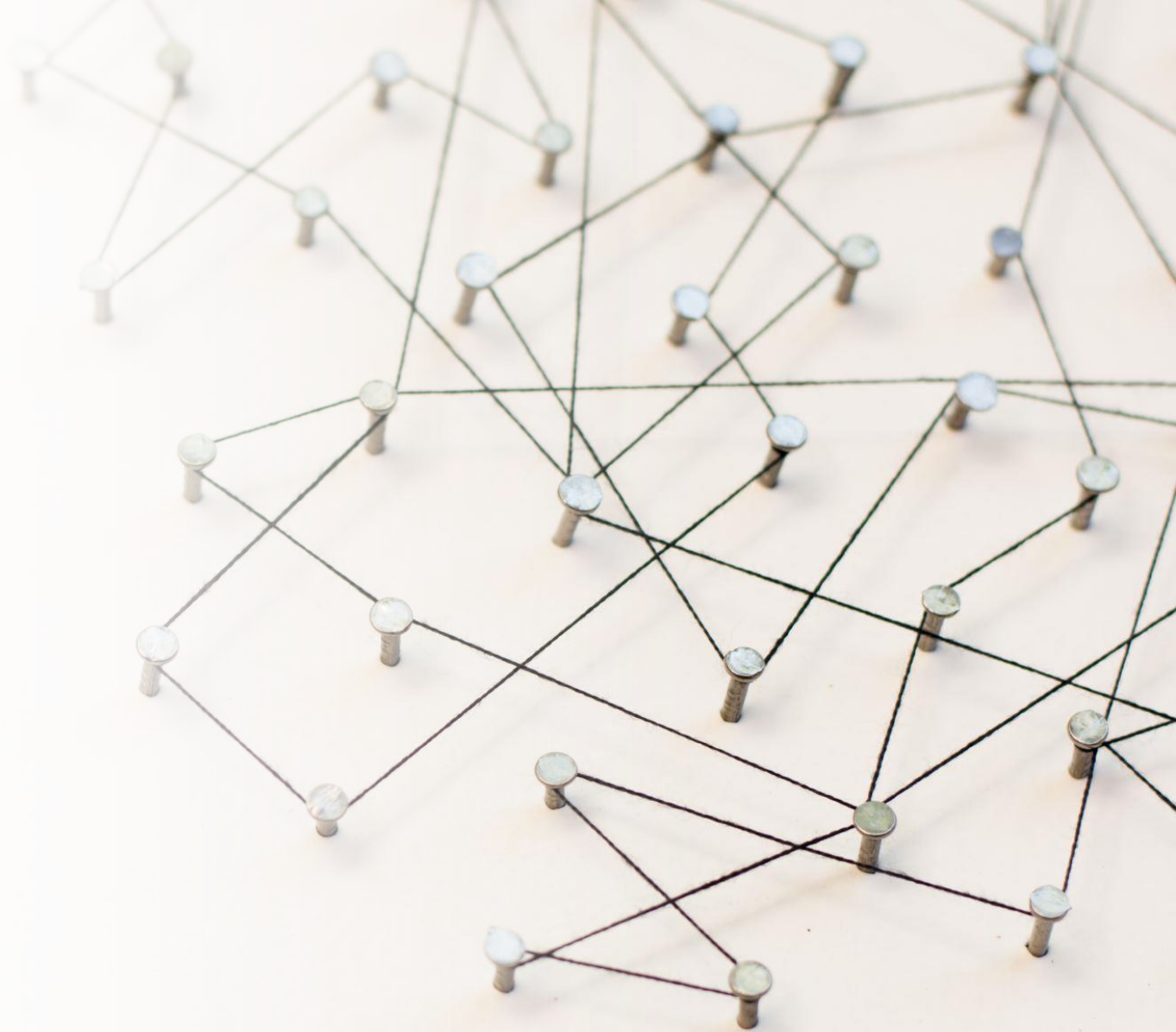
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## Topics

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- What made the Minimal API possible with .NET 6?
- Minimal API with .NET 7
- What about .NET 8?



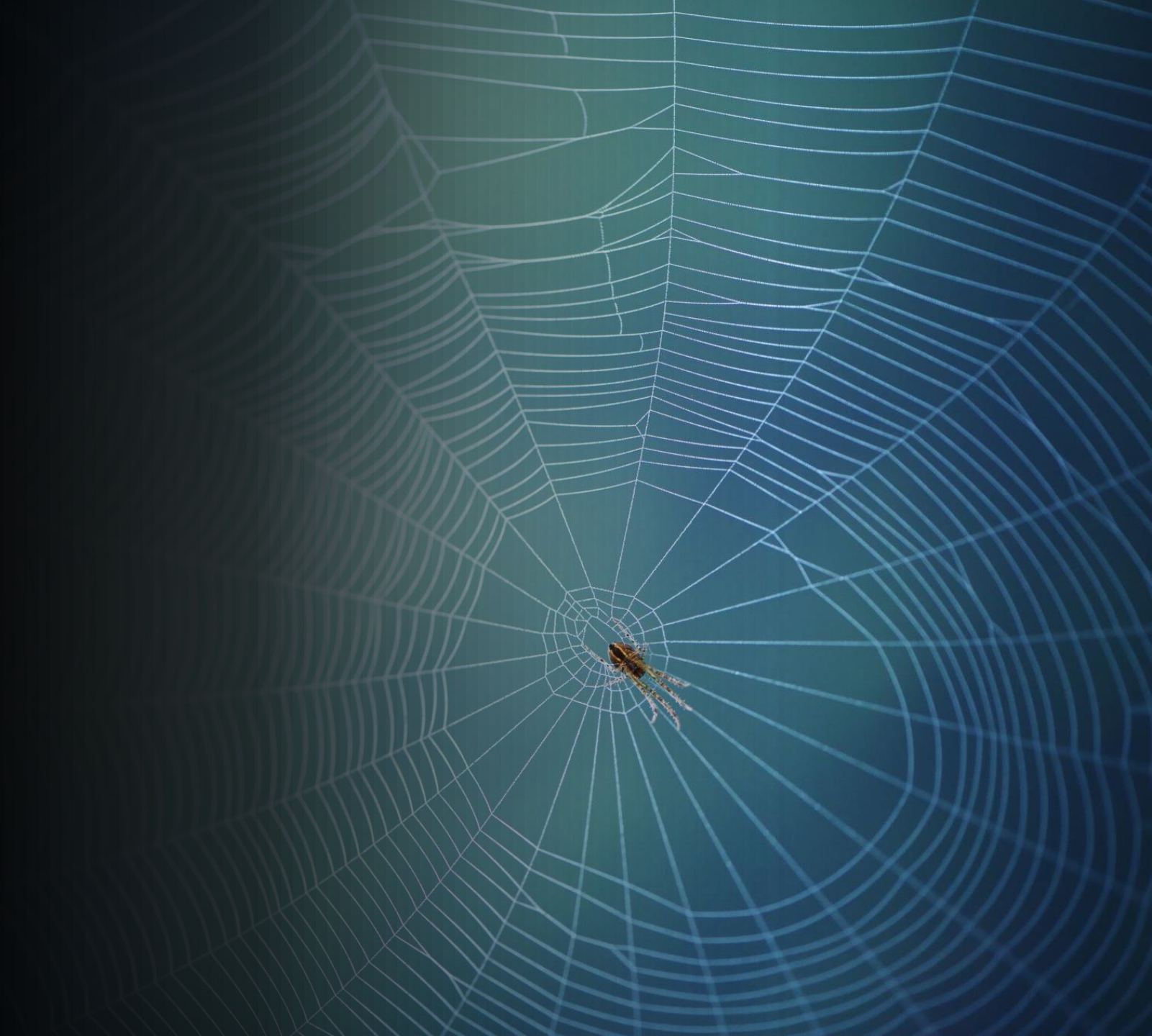




# Demo

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- Minimal API with .NET 6



# What made this possible?

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





# Demo

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Minimal API with .NET 7





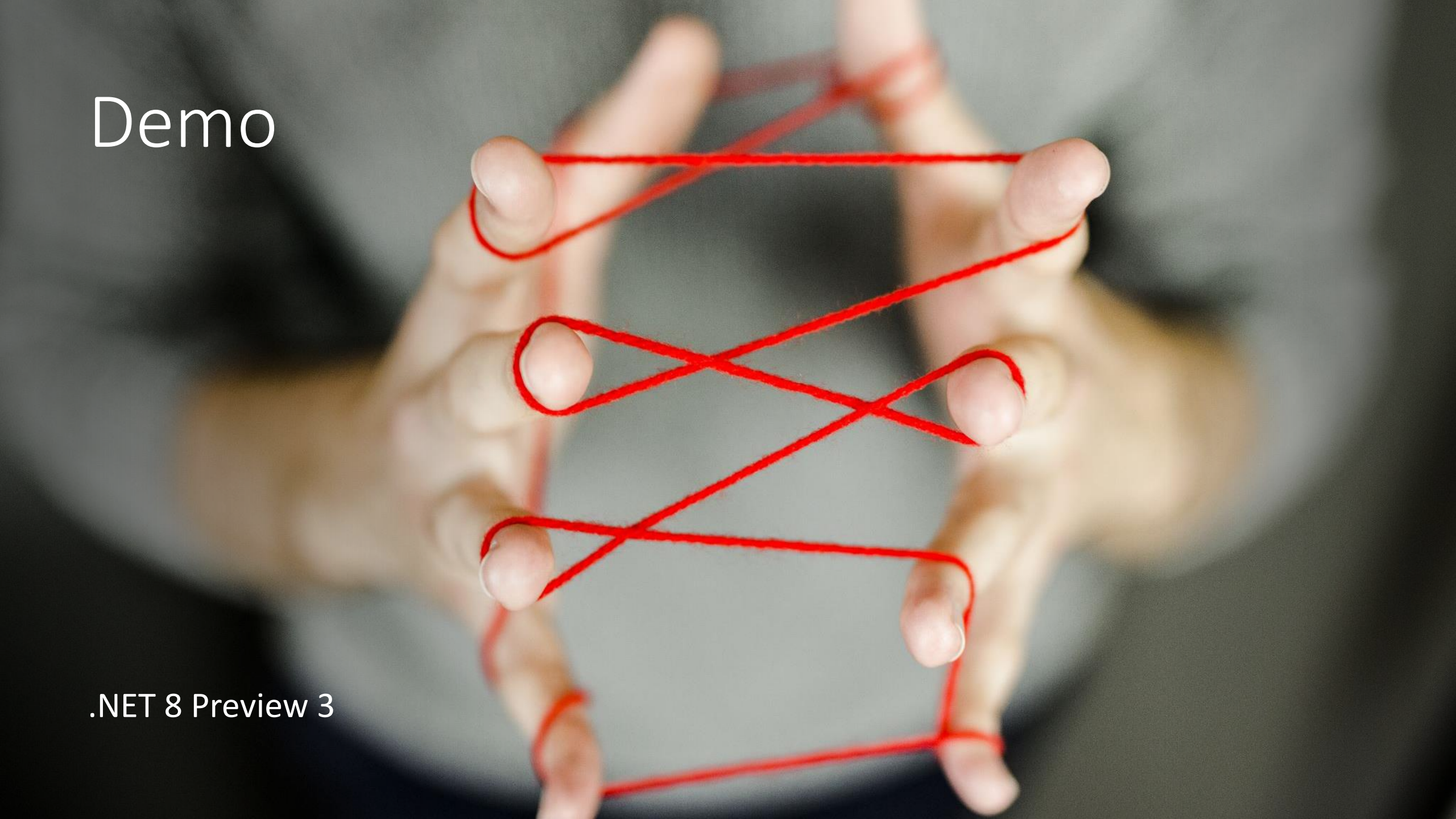
# .NET 7

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

# Demo

.NET 8 Preview 3





# Enhancements

## JSON Serializer Source Generator

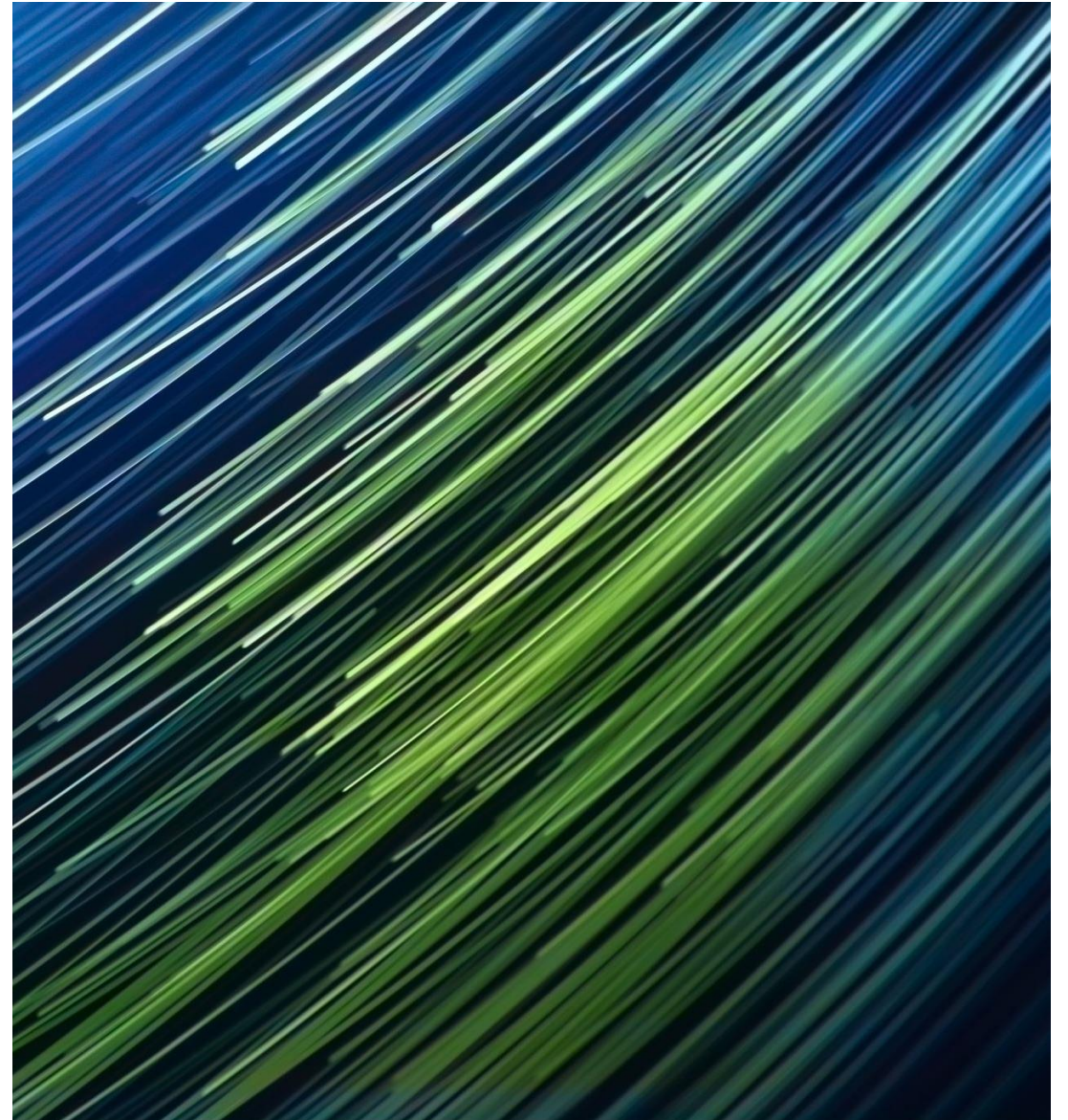
- Available since .NET 6, can be used with older .NET versions

## Slim Builder

- Reduce services registered

## Native AOT Deployment

- The most important .NET 8 feature





# Native AOT

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- Reduce startup time
- Reduce disk size requirements
- Reduce memory consumption





# Take away

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- Minimal APIs have a bright future
- Use it not only with small services
- Native AOT brings big changes for .NET
- .NET 7 started with Native AOT
- Not all your services can take advantage of Native AOT with .NET 8





# Thank you!

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Questions?

<https://github.com/codebreakerapp/GlobalAzureAustria2023>

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