

WHAT'S NEW IN ASP.NET CORE 9 & BLAZOR 9

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#confoo

ASP.NET Core 9

SignalR + AOT

- .NET 7: AOT as option for certain templates (e.g. console)
- .NET 9: AOT support for SignalR
- `WebApplication.CreateSlimBuilder(args)`
- Some limitations, including:
 - Only JSON supported as a protocol
 - No strongly-typed SignalR hubs
 - `IAsyncEnumerable` return types `Task`, `Task<T>`, `ValueTask`, `ValueTask<T>`

WebAPI + OpenAPI

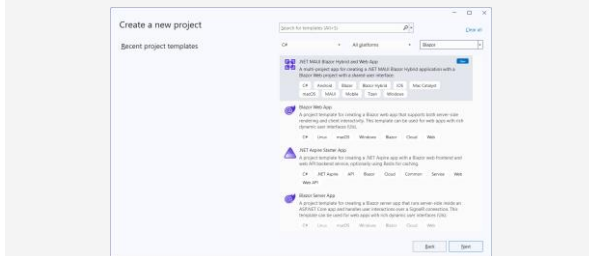
- OpenAPI generation with `Microsoft.AspNetCore.OpenApi`
 - `builder.Services.AddOpenApi()`
 - `app.MapOpenApi()`
- What about Swagger?
 - Not part of the template any longer
 - Swashbuckle seems to be unmaintained
 - NSwag is a potential alternative

Static Assets

- New middleware to optimize usage of static assets
 - Compression
 - Leveraging caching headers
- `app.MapStaticAssets()`
- Use as a drop-in alternative for `app.UseStaticFiles()`

Blazor

New Project Template



SSR Pages

- Global render mode „interactive“ uses client-side rendering
- Still select content may be included via SSR
- `@attribute [ExcludeFromInteractiveRouting]`

Blazor vs. Content Security Policy

- Default behavior: „Blazor Server“ is using CSP `frame-ancestors 'self'`
- Alternative 1: stricter policy (`frame-ancestors 'none'` directive)
 - `options.ContentSecurityPolicyFrameAncestorsPolicy = "none";`
- Alternative 2: Deactivate compression
 - `options.DisableWebSocketCompression = true;`

Small Improvements

- `<InputNumber type="range">`
- `<QuickGrid OverScanCount="3">`
- Constructor injection in Razor components
- AuthenticationStateProvider
- Amended behavior when re-establishing server connection („Blazor Server“)

What Else?

danroth27 on May 31 Member · ...

Why are we moving this to .net 10?

Hi @KconnectSalon. Unfortunately, we no longer believe we have the time and resources available to deliver this feature for .NET 9. You can see the full roadmap of what we do plan to deliver for .NET 9 here: <https://aka.ms/aspnet/roadmap>.

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• <https://github.com/dotnet/aspnetcore/issues/30344#issuecomment-2142721388>

Various New Features

A Quick Look At .NET Aspire

- Version number aligns with .NET (.NET 9)
 - .NET Aspire 9 supports .NET 8 and .NET 9 though!
- No longer required to install templates through
 - `dotnet new install Aspire.ProjectTemplates`
 - Come with recent Visual Studio versions
- Many improvements
 - UI: responsive design, colored console
 - Telemetry: browser support, filters, using filters for multiple instances
 - Persistent containers
 - Better integrations
- Complete list: <https://learn.microsoft.com/en-us/dotnet/aspire/whats-new/dotnet-aspire-9>

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More New Features

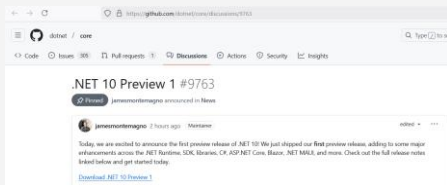
- New „developer exception page“
- Pushed Authorization Requests
- Complete list: <https://learn.microsoft.com/en-us/aspnet/core/release-notes/aspnetcore-9.0>

Summary

Summary

- Many improvements all over the place
- No „killer feature“
 - But the performance improvements alone may be a good reason to upgrade
- ASP.NET Core 10 already in preview (since yesterday ...)

.NET 10 Preview 1



- New in ASP.NET Core 10/Blazor 10:
<https://github.com/dotnet/core/blob/main/release-notes/10.0/preview/preview1/aspnetcore.md>

Thank You!

- Questions?
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<https://is.gd/MIhxaZ>

