

Entity Framework Core 3.0

Jiří Činčura, MVP

www.tabsoverspaces.com

@cincura_net

Agenda

- How we ended up here
- Entity Framework 6.3
- Entity Framework Core 3.0

How we ended up here

- Entity Framework pre-6.0
- Entity Framework 6.0
- .NET Core and Entity Framework Core
- .NET Core 3 with WinForms/WPF/...
- Entity Framework 6.3

Entity Framework 6.3

- Currently still work in progress
 - Similar to .NET Core 3.0
- Release together with .NET Core 3
 - September 2019
- Facilitate migrating existing applications that use EF 6 to .NET Core 3.0
- EF Core still recommended path for the future

Demo

Entity Framework 6.3

- Preview limitations
 - Currently preview5
 - Migrations only on .NET FW project
 - Designer only on .NET FW project
 - No EDMX for building

Entity Framework Core 3.0

- Next major version
 - Significant changes internally, some new features
 - Even breaking changes (<https://docs.microsoft.com/en-us/ef/core/what-is-new/ef-core-3.0/breaking-changes>)
 - <https://docs.microsoft.com/en-us/ef/core/what-is-new/ef-core-3.0/features>
- .NET Standard 2.1 only

Entity Framework Core 3.0

- LINQ client side evaluation
 - LINQ pipeline rework (to prevent regressions)
- No longer part of ASP.NET Core shared framework
- dotnet ef not part of .NET Core SDK
 - `dotnet tool install --global dotnet-ef --version <exact-version>`
- Cosmos DB support
- C# 8 support
- Property bag entities

Entity Framework Core 3.0

- FromSql, ExecuteSql, ExecuteSqlAsync
- QueryTypes merge
 - HasNoKey, DbQuery<T>, Query<T>
- Backing fields are used by default
- String and byte array keys are not client-generated by default
 - Before GUID
- Migration IDs are now generated using the invariant culture's calendar

Demo

Q & A