Q: demo for use IDbContextOptionsExtension

A: **IDbContextOptionsExtension** is an interface in Microsoft.EntityFrameworkCore.Infrastructure namespace that allows database providers (and other extensions) to register their required services when EF is creating a service provider1.

Here’s an example of how to use it:

*public class MyDbContextOptionsExtension : IDbContextOptionsExtension*

*{*

*public void ApplyServices(IServiceCollection services)*

*{*

*// Add your required services here*

*}*

*public void Validate(IDbContextOptions options)*

*{*

*// Validate your options here*

*}*

*}*

You can then add your extension to the **DbContextOptionsBuilder** like this:

*var optionsBuilder = new DbContextOptionsBuilder<MyDbContext>();*

*optionsBuilder.AddExtension(new MyDbContextOptionsExtension());*

I hope this helps! Let me know if you have any other questions.

Learn more:

1. [learn.microsoft.com](https://learn.microsoft.com/en-us/dotnet/api/microsoft.entityframeworkcore.infrastructure.idbcontextoptionsextension?view=efcore-7.0)

2. [stackoverflow.com](https://stackoverflow.com/questions/38417051/what-goes-into-dbcontextoptions-when-invoking-a-new-dbcontext)

3. [github.com](https://github.com/dotnet/efcore/issues/10559)