

# What's New in .NET 9 for Data Access: From Document DBs to Vector DBs

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# Agenda

Improvements in CosmosDB provider for EF Core

EF Core improvements

Vector databases

# CosmosDB and EF Core provider

## Less relational, more document

- 01** Significant improvements in query pipeline
- 02** Support for primitive collections
- 03** More querying capabilities than ever
- 04** Hierarchical partition keys
- 05** Performance improvements
- 06** Vector search

# EF Core improvements

## More quality, more performance

**01** Improvements in modeling

**04** New seeding

**02** Smarter and more performant LINQ translations

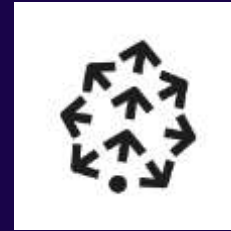
**05** NativeAOT support (preview)

<https://github.com/dotnet/efcore/issues/34151>

**03** Migrations improvements

**06** Vector search

# Vector databases





**Microsoft.Extensions.VectorData**



# Get .NET 9



Download .NET 9  
[aka.ms/get-dotnet-9](https://aka.ms/get-dotnet-9)

**Thank you**





# Resources

<https://learn.microsoft.com/en-us/ef/core/what-is-new/ef-core-9.0/whatsnew>

What's New in EF Core 9

<https://devblogs.microsoft.com/dotnet/introducing-microsoft-extensions-vector-data/>

Introducing Microsoft.Extensions.VectorData Preview

<https://learn.microsoft.com/en-us/ef/core/>

EF Core docs