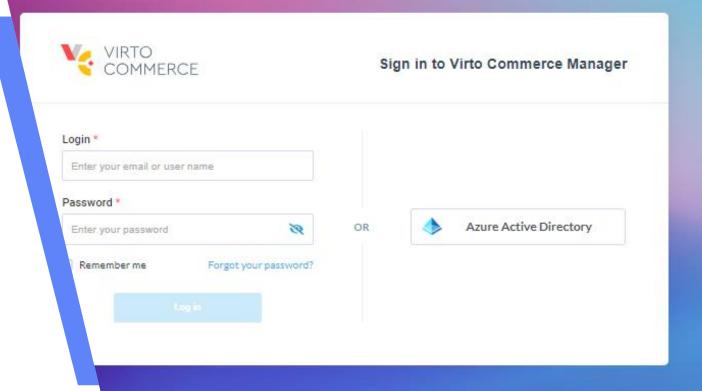
Virto Commerce .NET 8

Oleg Zhuk - CTO Virto Commerce Webinar



Today's Agenda

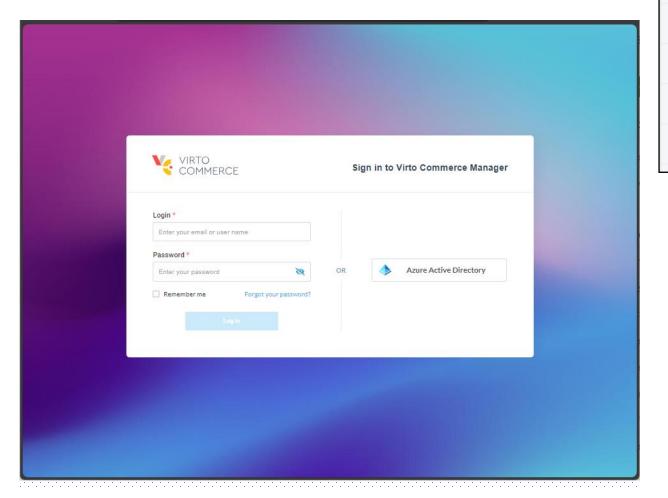
What's New in .NET 8

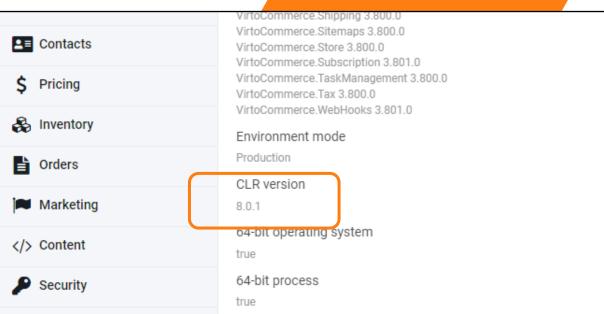
Performance Comparison

Update Strategy

Feedback & Known Limitations

Q&A





What's New in .NET 8

VC .NET8 / VC 3.800

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.NET 8 Benefits

Enhanced Performance

Improved Stability

Optimized EF Operations

LTS

The upgrade to .NET 8
brings substantial
improvements in
performance, resulting in
faster response times and
optimized resource
utilization. This ensures a
smoother and more
efficient e-commerce
experience for both
customers and
administrators.

Stability is a cornerstone of this update. By leveraging the advancements in .NET 8, Virto Commerce offers enhanced system reliability and robustness. This translates to fewer disruptions, improved error handling, and increased overall system stability.

With the transition to .NET 8, bulk operations such as select, update, and delete are optimized for efficiency. This improvement is particularly beneficial for scenarios involving large datasets, providing a noticeable boost in processing speed and resource efficiency.

Virto Team updated:

- 1. NET8 LTS
- 2. Node 20 ITS
- 3. All 3rd party libraries to latest version, except GraphQL that we plan to update in next stable release.

.NET 8 References

NET8

What's new in NET8

EF Core

What's new in EF8
Core

Virto Commerce

Virto Commerce on .Net8

ASP.NET Core

What's new in ASP.NET Core 8

Performance Comparison

VC .NET6 vs VC .NET8 PostgreSQL Vs SqlServer

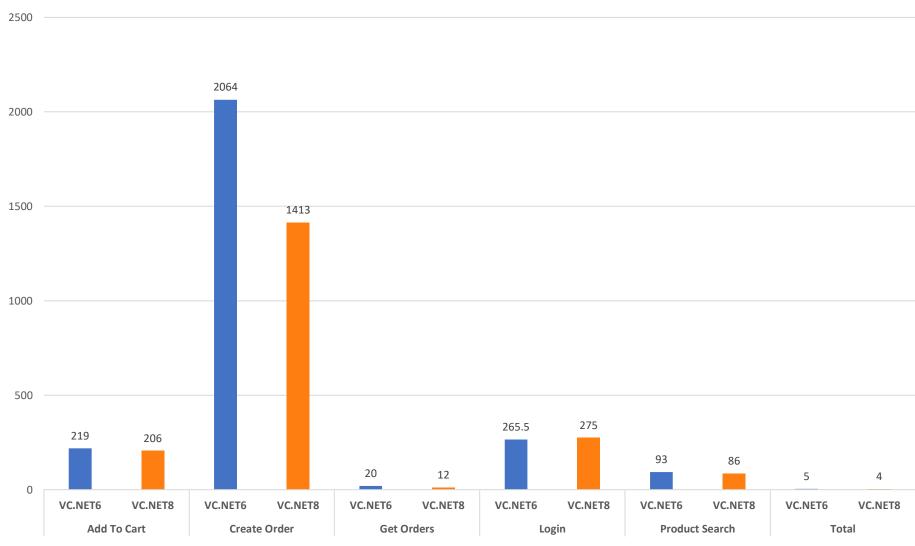
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Environment Setup

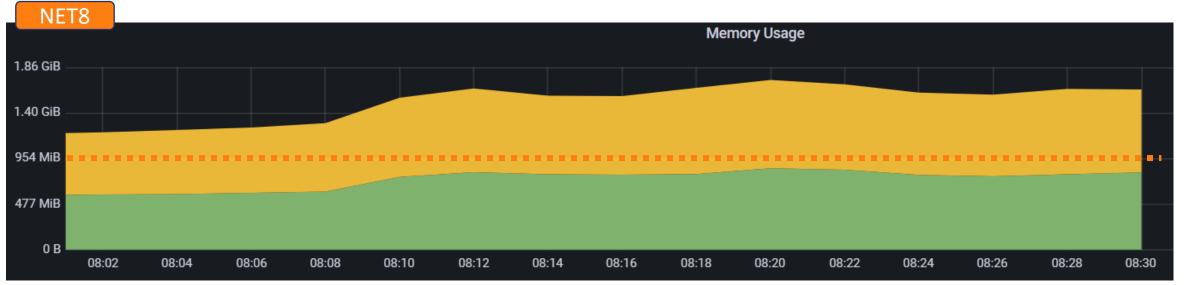
- 1. Virto Cloud / 2 instances 1 Core & 2Gb RAM
- 2. Linux
- 3. 500-750 customers on site / Google Analytics
- 4. B2B customer experience with 40 items in cart
- 5. Platform: VC .NET 6 and VC .NET8
- 6. Database Providers: SqlServer and PostgreSQL

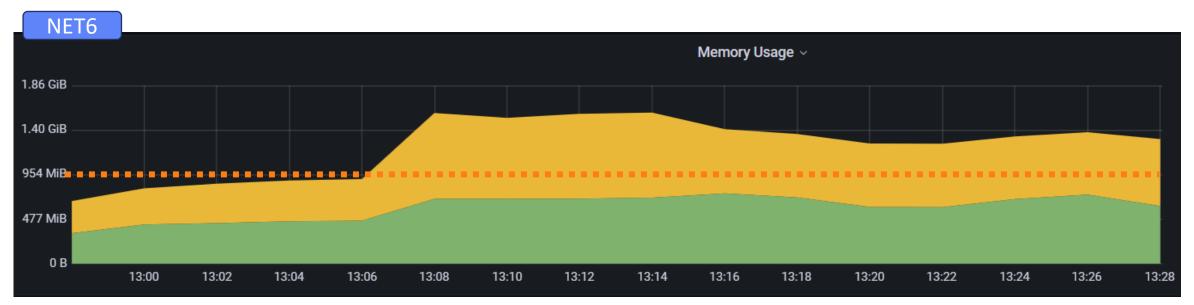
.NET6 vs.NET8 on SqlServer: 10%-35% improvements



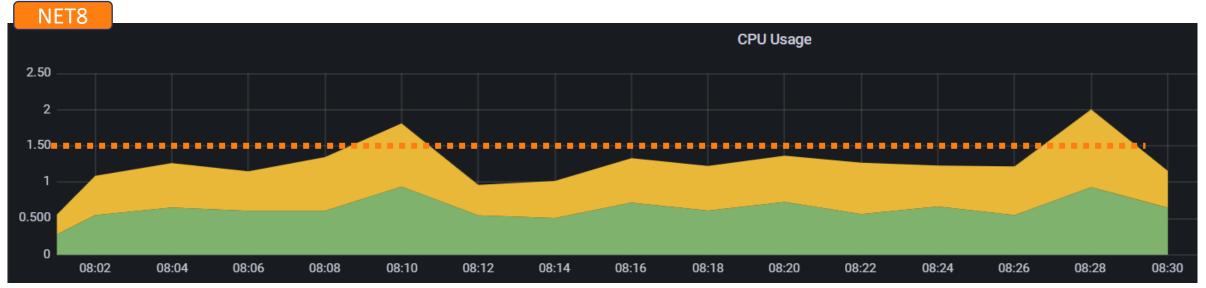


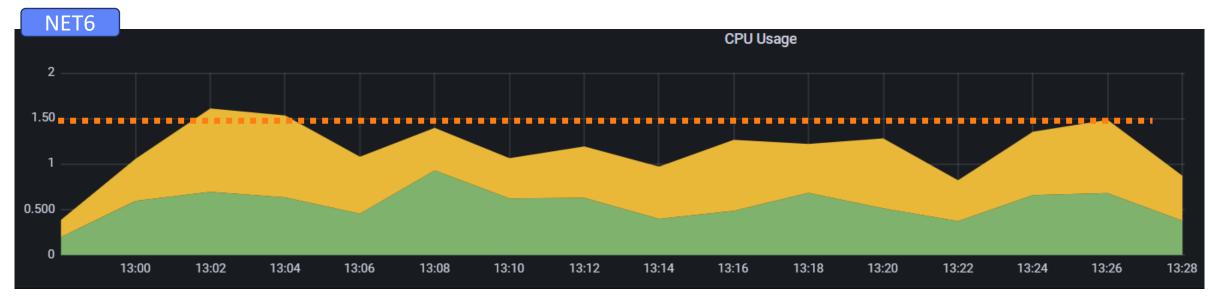
Memory Usage – doesn't changed



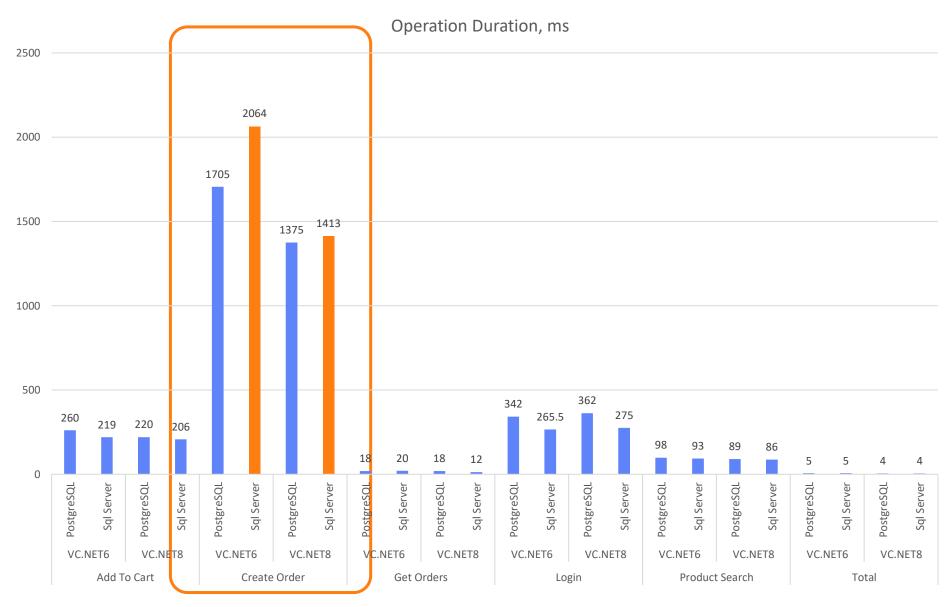


CPU Usage – doesn't changed

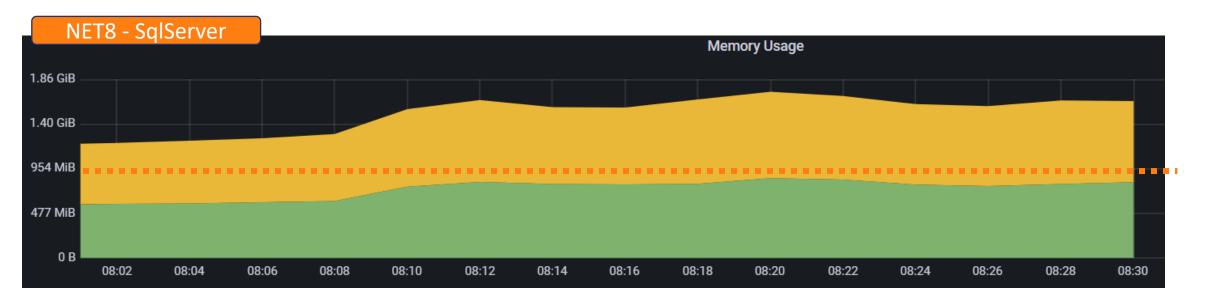


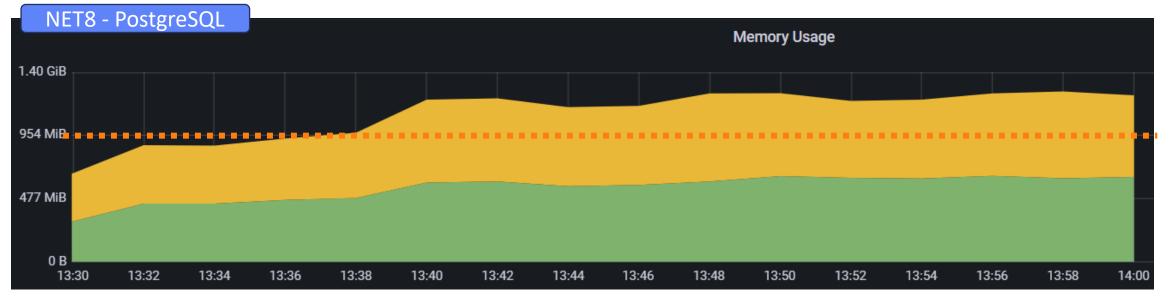


VC with PostgreSQL provides more performance

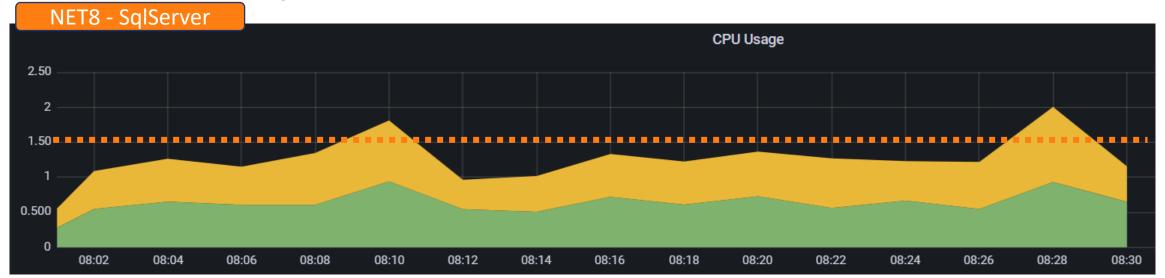


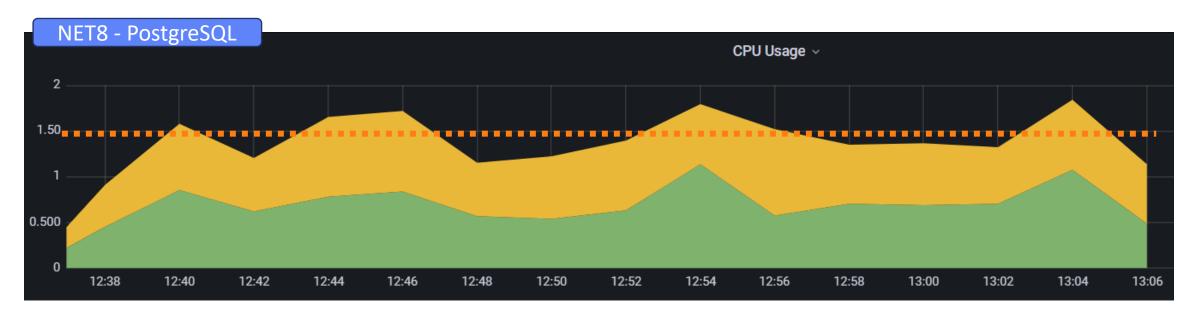
Memory Usage – VC with PostgreSQL uses less memory





CPU Usage – same



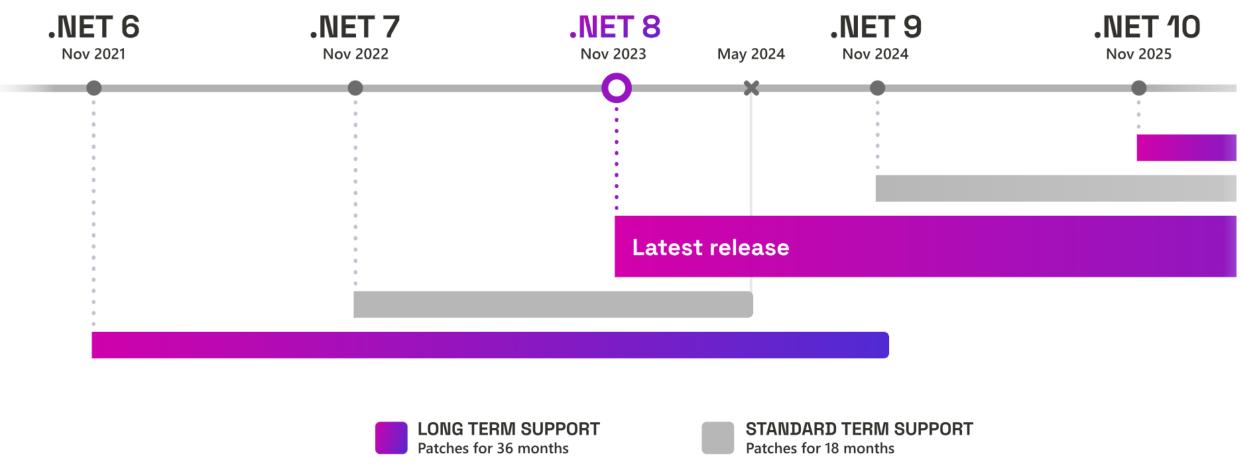


Update Strategy

to VC 3.800

2024 — Ilya Tsarenko

.NET Release Schedule



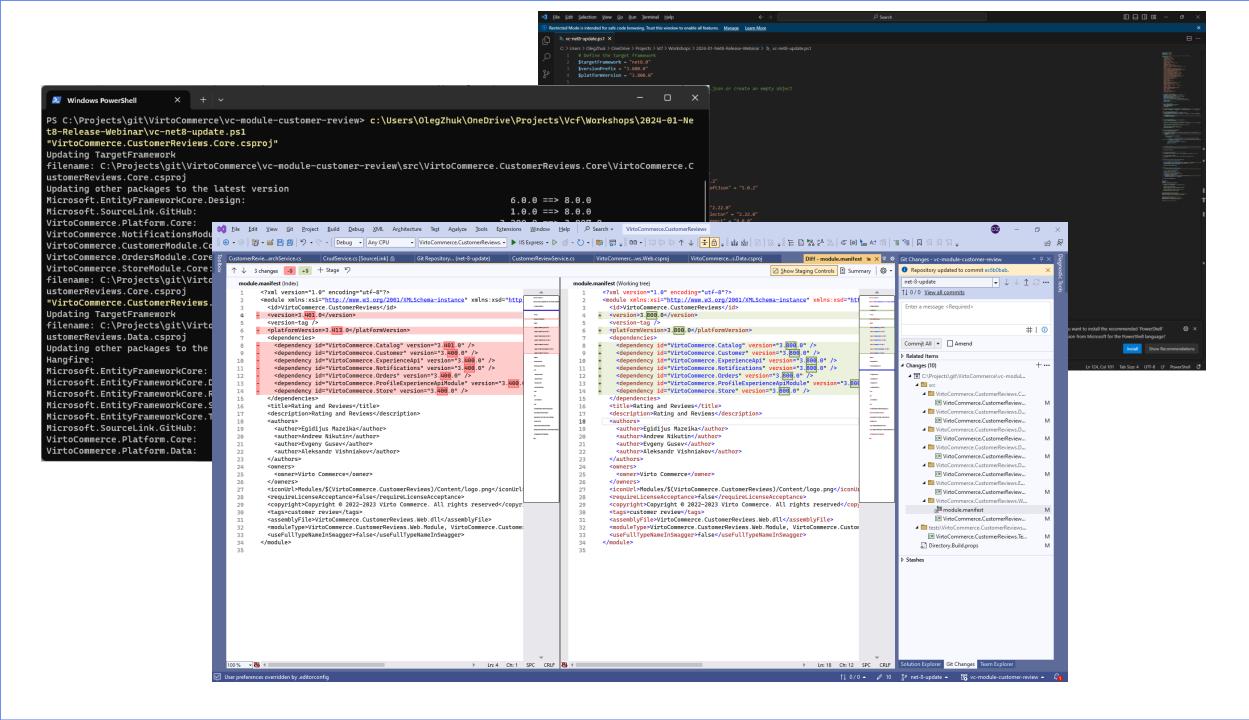
Select your pill, Virto released 2 Stable Releases:



Update Path

5 steps to enjoy Virto Commerce on .NET 8

- 1 Install .NET8 and Update Visual Studio 2022
- 2 Update Virto Commerce Platform and Modules to 3.800
- **3** Update Custom Modules via Update Power Shell Script
- 4 Compile, Test and Deploy
- **5** Enjoy Virto Commerce on .NET 8



Known Limitations

VC .NET8 / VC 3.800

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Known limitations

- 1. Entity Framework Packages Update: To prevent "System.MissingMethodException: Method not found errors" when call MigrationBuilder.CreateIndex, it is essential to update Entity Framework packages from version 6 to version 8.
- 2. **Kestrel HTTPS Binding**: Note that the default HTTPS binding has been removed. Refer to Microsoft Learn for more details.
- 3. Pomelo.EntityFrameworkCore.MySql is 8.0.0-beta.2

If you find any new breaking changes, submit a question on Virto Commerce Community.

Current Status

Virto Commerce

- Updated All Modules
- Updated all internal environments

Now on the .NET 8

- 4 client projects
- Most of the process automated by update script.
- Average duration from 1 day to 1 week.

Feedback



Next

Ready for NET10 on Nov 25

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Thank You

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