



Announcing Oqtane 6.0 on .NET 9!

November 20, 2024

9:00 AM PST / 12:00 PM EST / 5:00 PM GMT

Presenters

Shaun Walker

Founder of Devessence Inc, Microsoft MVP,
Creator of DNN & Oqtane, Chair of .NET
Foundation Project Committee @sbwalker



Daniel Roth

Principal Product Manager for ASP.NET Core &
Blazor at Microsoft @danroth27





**A CMS & Application Framework
for Blazor & .NET MAUI**

Build Applications, Not Infrastructure!



Oqtane Framework

Accelerates the development of
modern digital experiences

Provides a robust set of application
building blocks and services

Offered under a standard open source
license (MIT license, copyright .NET
Foundation)

Pioneering the adoption of .NET Core,
Blazor & .NET MAUI

Multi-Tenant

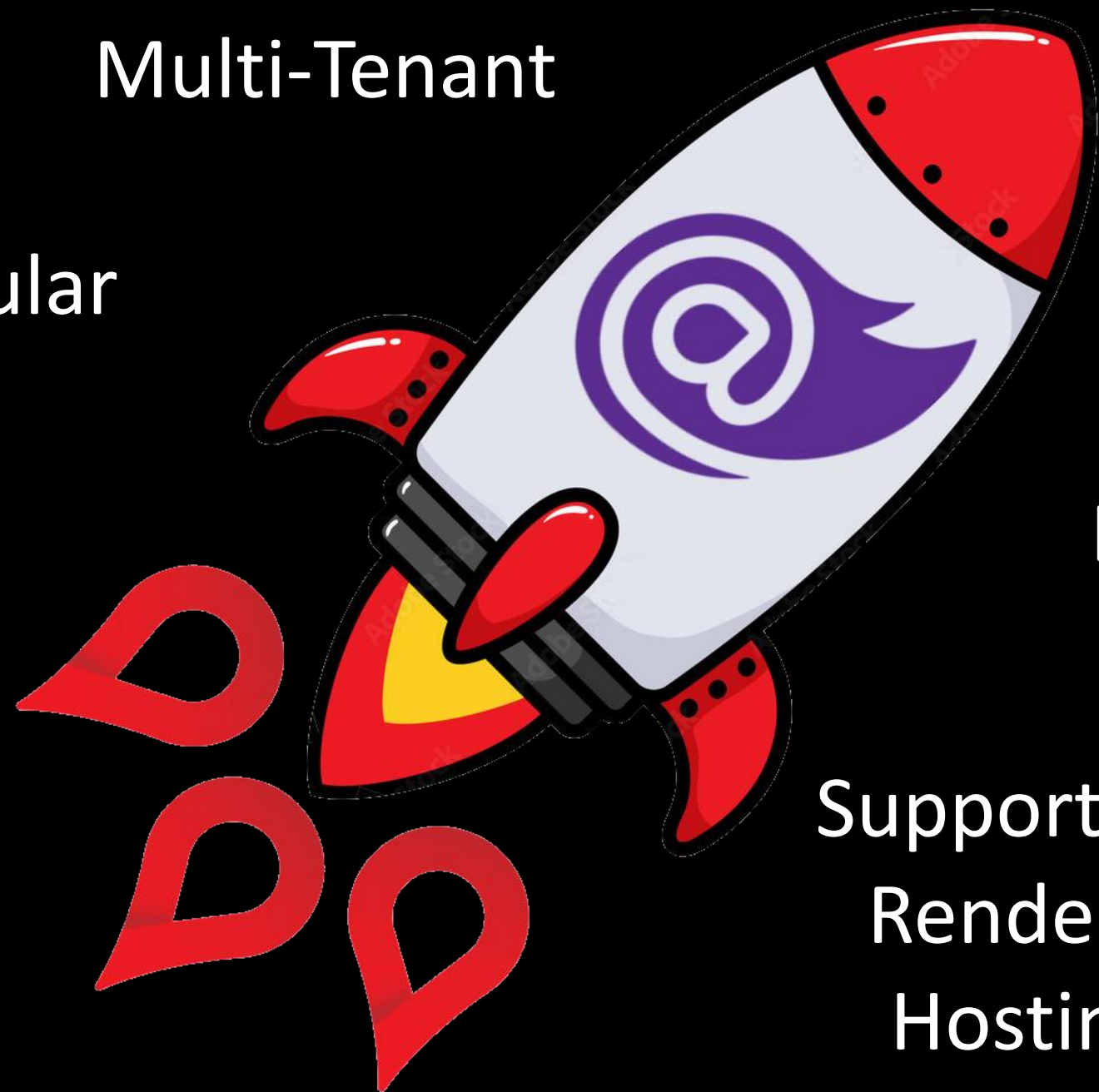
Modular

Localized

Cross
Platform

Multiple
Databases

Supports ALL Blazor
Render Modes &
Hosting Models

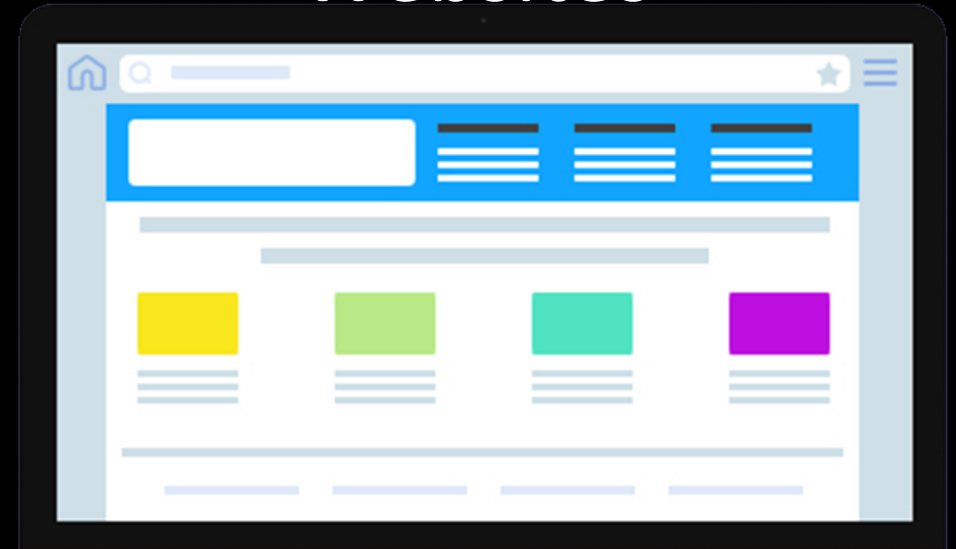


Oqtane Use Cases

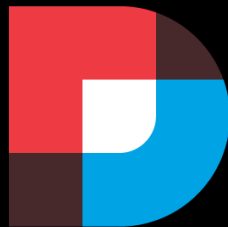
Web Applications



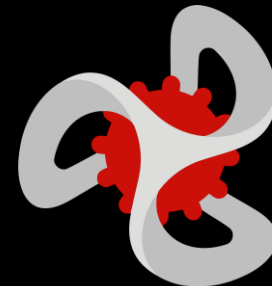
Websites



and...



DNN Migrations



Oqtane Adoption



57+

Contributors



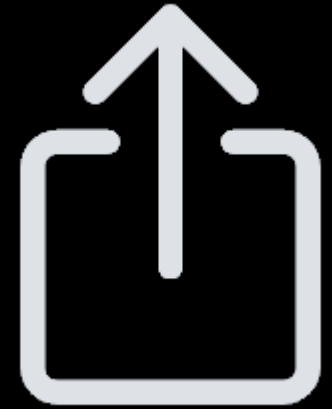
1900+

Stars



6000+

Commits




2700+

Pull Requests

<https://github.com/oqtane/oqtane.framework>

Oqtane Marketplace

Home Products ★ Oqtane Framework ★ Login

OQTANE MARKETPLACE

Category

Open Source
 Commercial

Type




Module
 Theme
 Translation

Submit Product

Product Search Reset

4 Results

Popularity ▾

	Version: 4.0.2 Released: 09/27/2023 From: \$0.00		Version: 1.0.1 Released: 09/27/2023 From: \$49.00		Version: 1.0.0 Released: 09/27/2023 From: \$99.00
<h3>Licensed Module</h3> <p>By: Oqtane Labs Inc A sample module to demonstrate the Oqtane Licensing component</p> <p>Buy Now</p>	<h3>Image Manager</h3> <p>By: Oqtane Labs Inc A powerful image management utility which allows you to resize, rotate, flip, and crop images.</p> <p>Buy Now</p>	<h3>Visitor Map</h3> <p>By: Oqtane Labs Inc Geocodes visitor IP addresses and displays them on a world map</p> <p>Buy Now</p>			

Oqtane Releases

Initial POC	Nov 2018	Blazor Preview 5
Oqtane 1.0	May 20, 2020	.NET Core 3.2
Oqtane 2.0	Nov 10, 2020	.NET 5
Oqtane 3.0	Nov 16, 2021	.NET 6
Oqtane 4.0	Jun 26, 2023	.NET 7
Oqtane 5.0	Nov 16, 2023	.NET 8
Oqtane 6.0	Nov 14, 2024	.NET 9

.NET 9



.NET 9

- The most performant release of .NET yet with over 1,000 performance related changes across the runtime, workloads, and languages with more efficient algorithms that generate better code.
- Plenty of exciting new features for developers
- Standard-term support (STS) release valid until May 2026

Oqtane Codebase

Hierarchy ▲	Lines of Source code
▷ <input type="checkbox"/> <input type="checkbox"/> Oqtane.Client (Debug)	108,516
▷ <input type="checkbox"/> <input type="checkbox"/> Oqtane.Database.MySQL (Debug)	96
▷ <input type="checkbox"/> <input type="checkbox"/> Oqtane.Database.PostgreSQL (Debug)	190
▷ <input type="checkbox"/> <input type="checkbox"/> Oqtane.Database.Sqlite (Debug)	137
▷ <input type="checkbox"/> <input type="checkbox"/> Oqtane.Database.SqlServer (Debug)	134
▷ <input type="checkbox"/> <input type="checkbox"/> Oqtane.Server (Debug)	24,717
▷ <input type="checkbox"/> <input type="checkbox"/> Oqtane.Shared (Debug)	5,188

(nearly 140,000 lines of code in Oqtane framework)



.NET 9 Upgrade

- Started with .NET 9 RC2**
- Updated TargetFramework in project files
- Updated all .NET 8 package references
- Updated all references to “net8.0”
- Scaffolded new Blazor project in .NET 9 and reviewed solution, project, program.cs, app.razor, etc... for differences

.NET 9 Upgrade

- Removed Microsoft.AspNetCore.Localization dependency
- Resolved minor issue with EF Core migrations
- Resolved compilation issue with EFCore.NamingConventions
- Resolved .NET MAUI project compiler warning

.NET 9 Upgrade Success!

oqtane [Home](#) [My Page](#) Search [host](#) [Logout](#)  

System Info

[Info](#) [Options](#) [Log](#)

Framework Version: ?	6.0.0
CLR Version: ?	9.0.0
OS Version: ?	Microsoft Windows NT 10.0.19045.0
Process: ?	64 Bit

Backward Compatibility

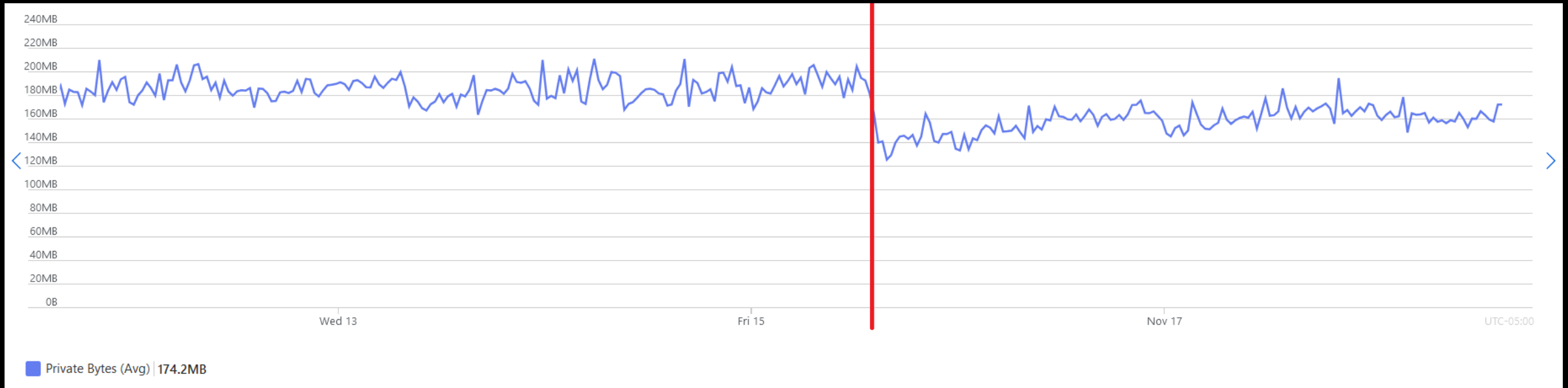
Oqtane Applications

Oqtane Framework

.NET 9 / Blazor / .NET MAUI

(no breaking API changes)

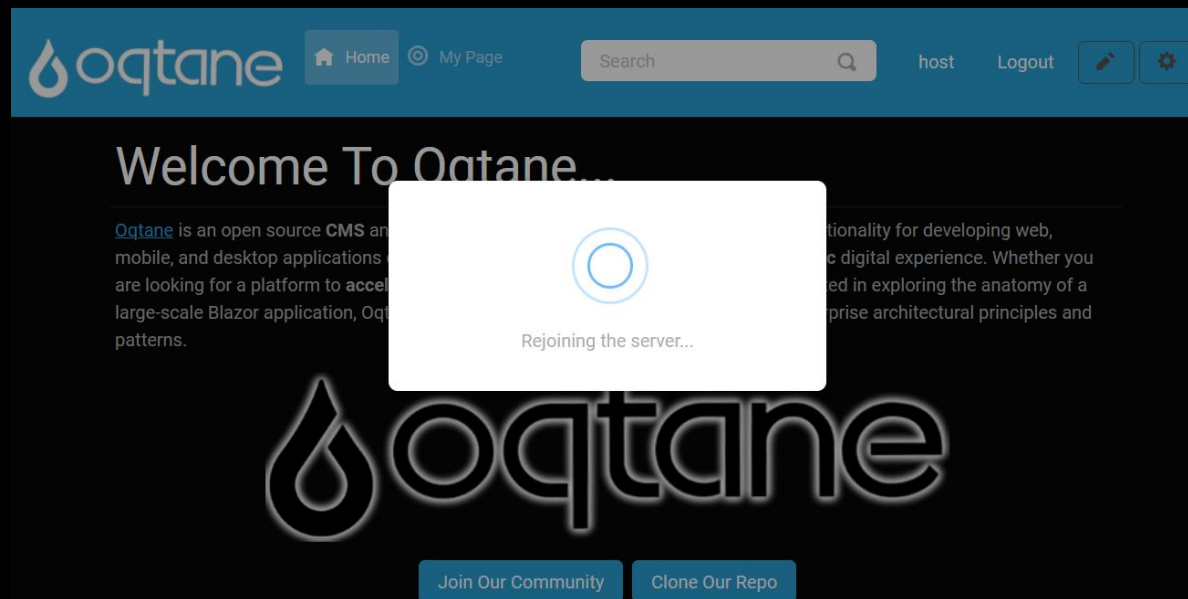
.NET 9 Performance



<https://www.oqtane.org> upgraded to Oqtane 6.0 on .NET 9
15% reduction in memory usage!

Blazor Server

Improvements to Blazor Server (SignalR) reconnection behavior and styling:



Websocket compression for Interactive Server components enabled by default

Blazor RendererInfo

New API to simplify the process of querying component states at runtime:

```
@if (RendererInfo.IsInteractive)
{
    <button class="btn btn-primary" @onclick="IncrementCount">Click me</button>
}
else
{
    <p>One moment, please</p>
}
```

Constructor Injection

Ability to inject services through a constructor into your Blazor components (complements `@inject` property injection):

C#

```
using Microsoft.AspNetCore.Components;

public partial class ConstructorInjection(NavigationManager navigation)
{
    private void HandleClick()
    {
        navigation.NavigateTo("/counter");
    }
}
```

And More...

.NET 9 features that are currently being evaluated for usage in Oqtane include:

- Static asset delivery optimization
- OpenAPI document generation
- HybridCache

 octane

Demonstration

oqtane / oqtane.framework

Code Issues 18 Pull requests 5 Discussions Actions Projects Wiki

oqtane.framework Public Edit Pins Watch 94 Fork 546 Starred 1.9k

dev Go to file Code About

sbwalker Merge pull request #4847 from sbwalke... 7eb1298 · 2 hours ago

.github/ISSUE_TEMPLATE	Update issue templates	8 months ago
Oqtane.Client	Fix: "Search_Enabled" was bei...	last week
Oqtane.Database.MySQL	changes to migrate Oqtane t...	last month
Oqtane.Database.Postgre...	add reference to Microsoft.En...	last week
Oqtane.Database.SqlServer	update to official .NET 9 relea...	last week

CMS & Application Framework for Blazor & .NET MAUI

www.oqtane.org

cms webassembly aspnet-core maui blazor

Readme MIT license Activity

<https://github.com/oqtane/oqtane.framework>



Thank
You!