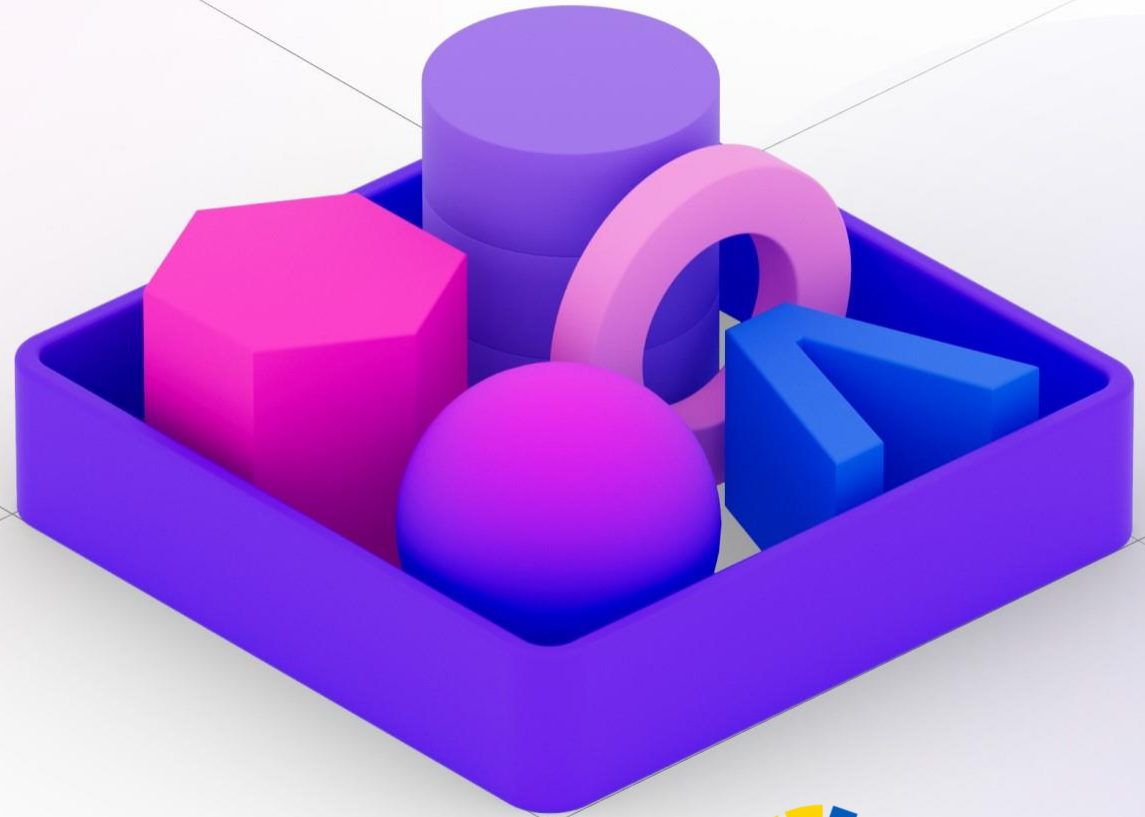


.NET Conf 2023



Blazor e i Long Running Process

Alberto Acerbis





Saga: a long story of heroic achievement



What is a Long Running Process?



Orchestrator



Choreography



What is the best choice?



Trade-Offs

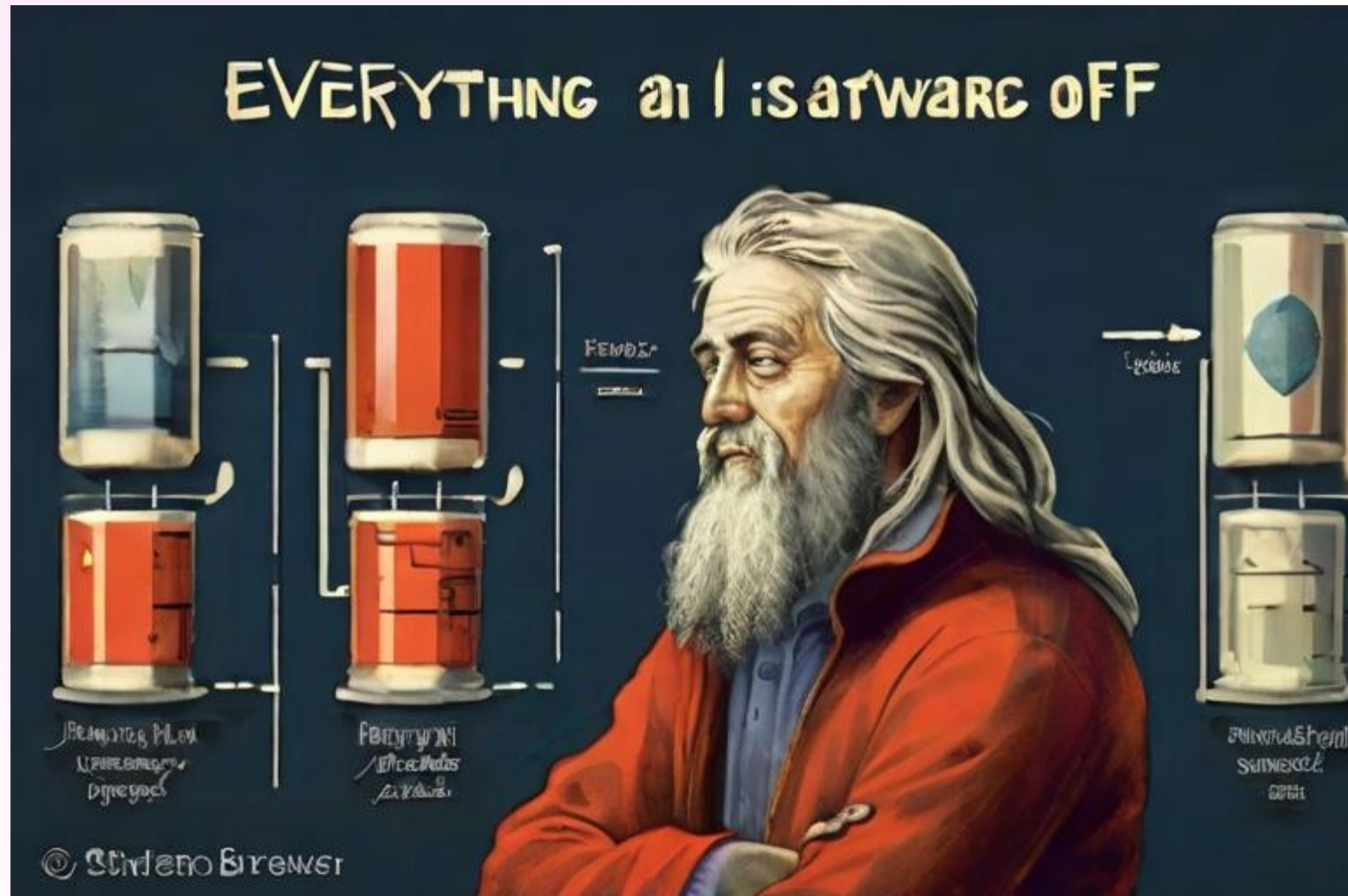
Orchestration

Advantage	Disadvantage
Centralized workflow	Responsiveness
Error handling	Fault tolerance
Recoverability	Scalability
State management	Service coupling

Choreography

Advantage	Disadvantage
Responsiveness	Distributed workflow
Scalability	State management
Fault tolerance	Error handling
Service decoupling	Recoverability

Everything in Software Architecture is a Trade-Off



Three Forces

- **Coordination**
 - Orchestrator
 - Choreography
- **Communication**
 - Synchronous
 - Asynchronous
- **Persistence**
 - Atomic
 - Eventually

Why We Need It?

Often with the same outcome (Neal Ford)



Developers are drawn to complexity,
like moths to a flame

Essential



How do we keep the UI up-to-date?



What is SignalR?



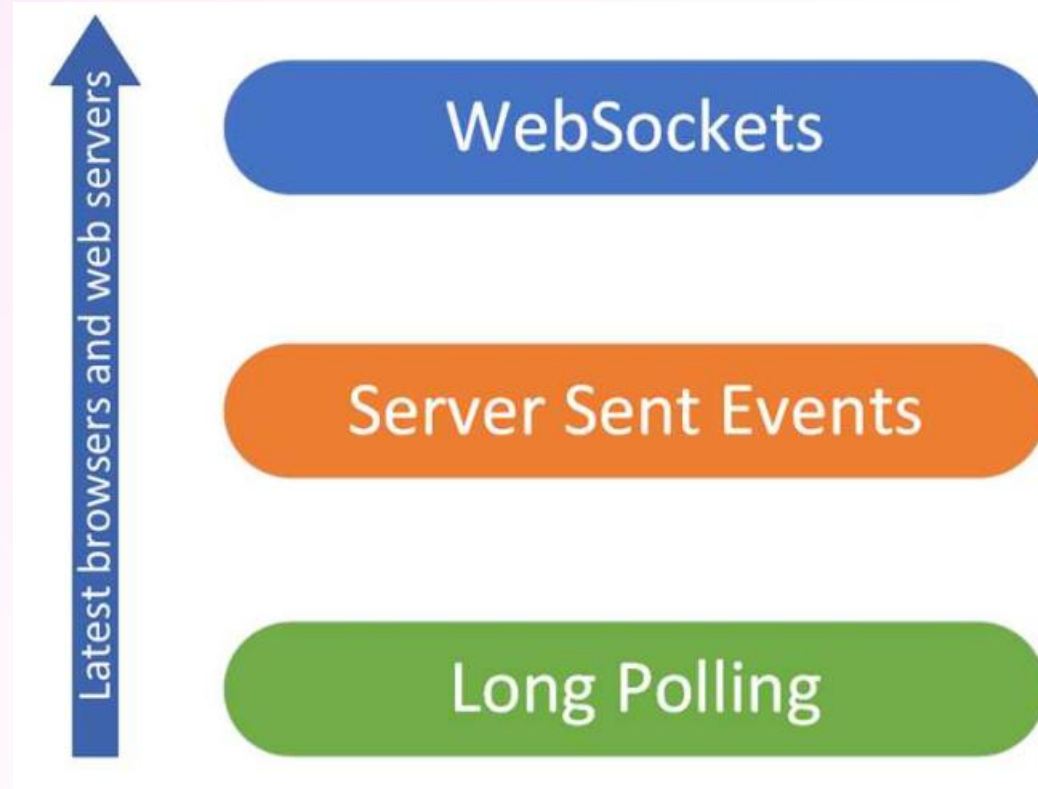
SignalR

The diagram consists of two stacked rectangular boxes. The top box is green and contains the text 'SignalR' in white. The bottom box is blue and contains the text 'Transports' in white. This visualizes SignalR as a layer that sits on top of the transport layer.

Transports

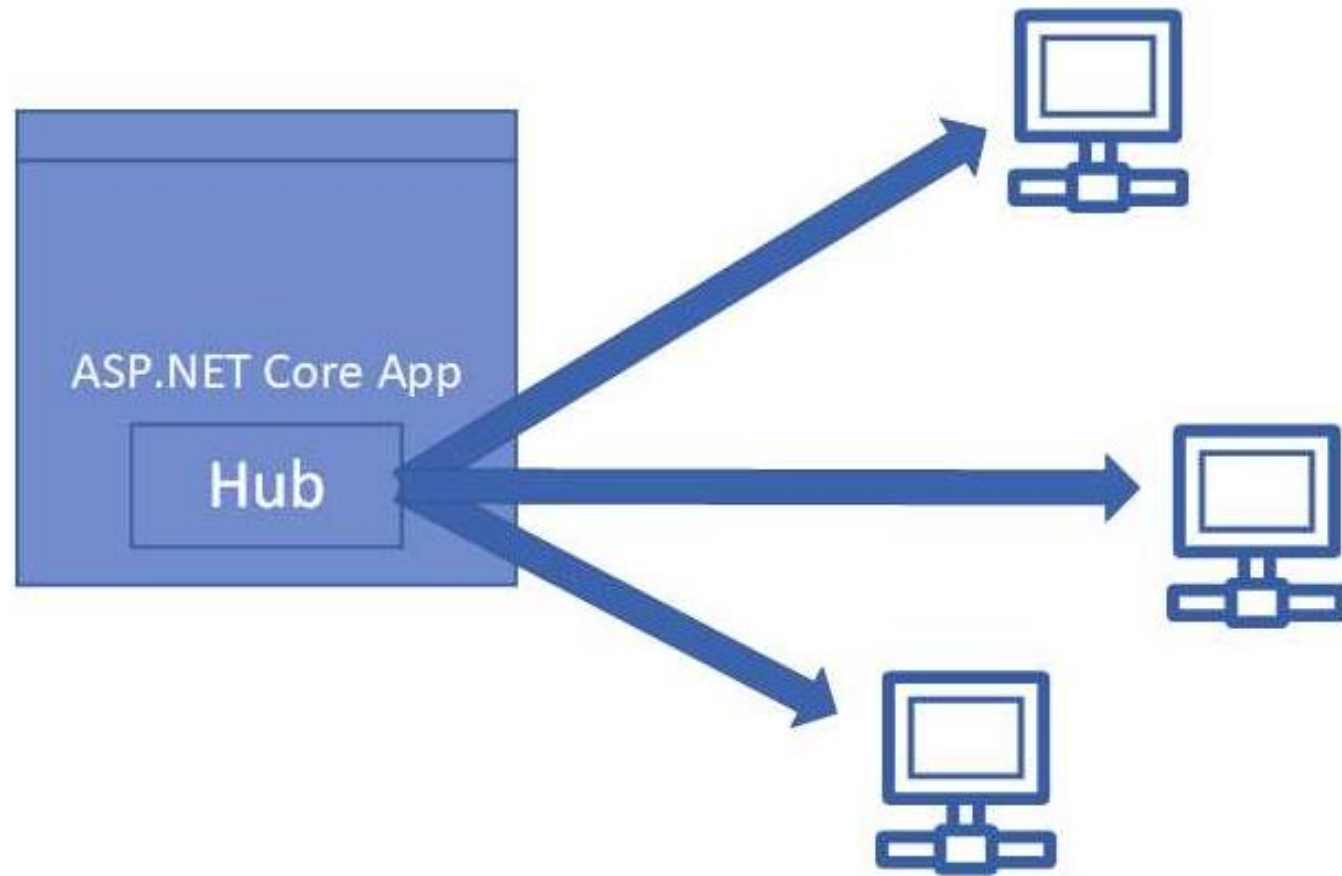
SignalR lies on top of the lower-level transports

Focus on business process



SignalR can dynamically evaluate the supported transports

SignalR Hub



Demo





Further Readings

Download .NET 8
aka.ms/get-dotnet-8

Introducing to signalR
[Microsoft Documentation](#)

signalR outside the hub
[Send messages outside a hub](#)

Software Architecture: The Hard Parts
[O'Reilly](#)



Thanks



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<https://github.com/Ace68/1nn0va-NetConf2023>



IL CORSO

DDD, dalla teoria alla pratica

Esploriamo i pattern di DDD e CQRS costruendo da zero un'applicazione a microservizi.



<https://agilereloaded.it/corsi/corso-ddd-teoria-pratica/>



• [Alberto Acerbis](#)