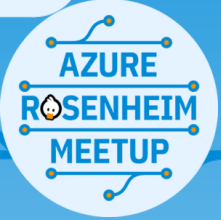


[@whiteduck_gmbh](https://twitter.com/whiteduck_gmbh)



[@AzureMeetup](https://twitter.com/AzureMeetup)





[@CloudNative_Ro](https://twitter.com/CloudNative_Ro)

.NET Conf 2023 Recap





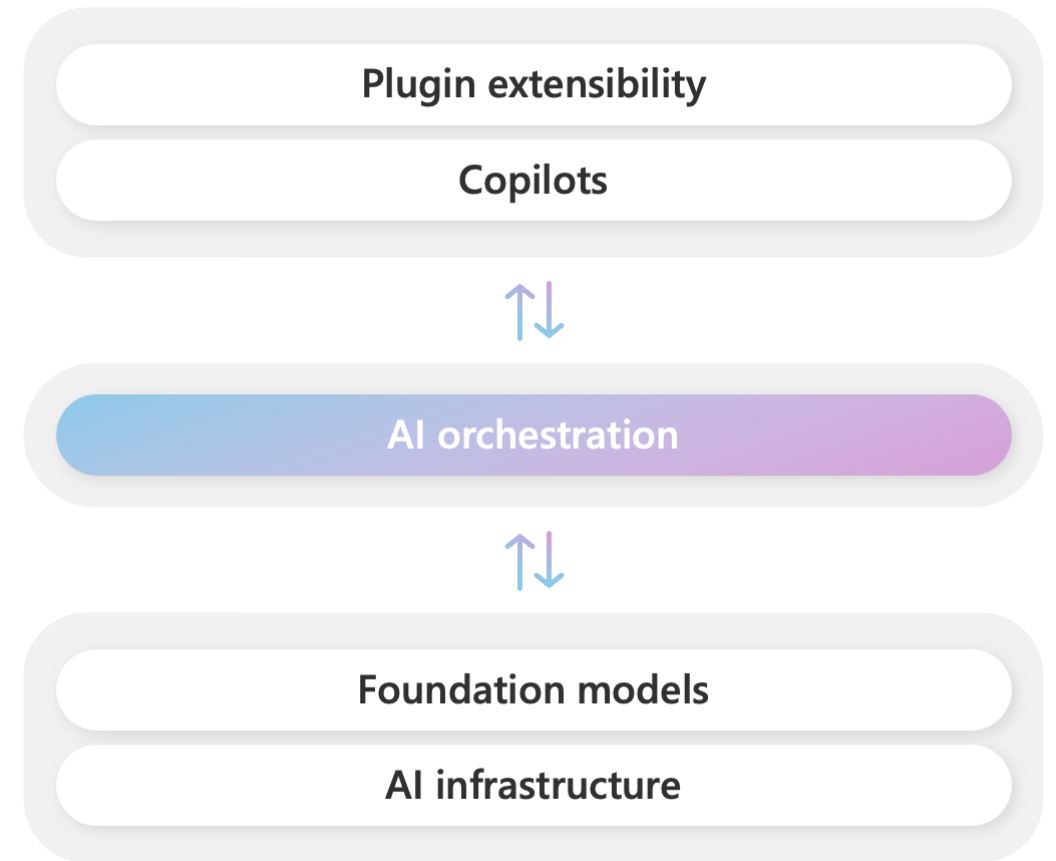
Agenda

- Watch Party: NET Conf 2023 Keynote 
- Talks 
 - Semantic Kernel
 - Dotnet Aspire

Semantic Kernel

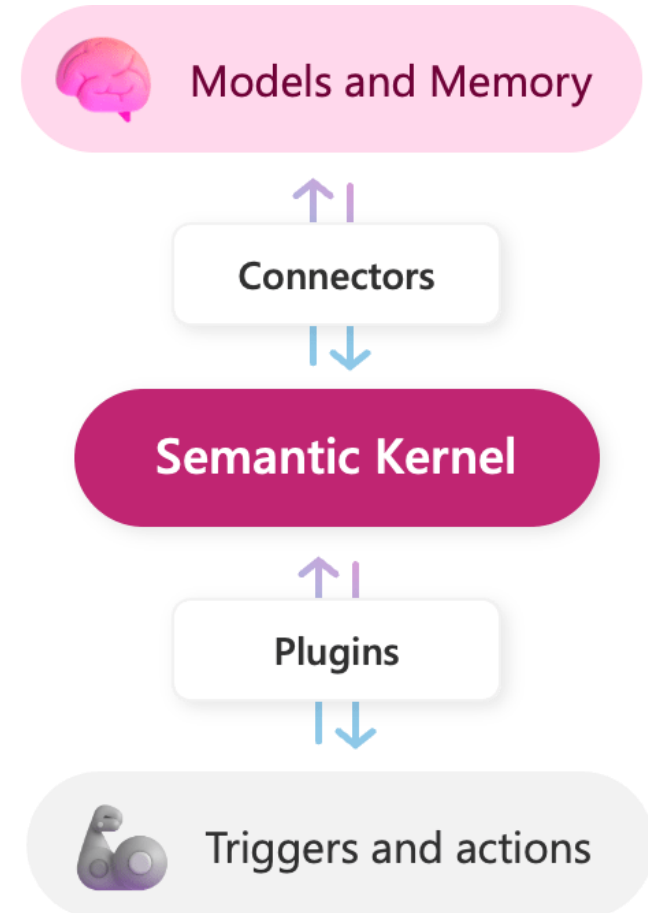
Semantic Kernel

- Open Source SDK
- Seamlessly integrates AI services into your application
- Central component of an agent/copilot stack
- Supports multiple LLMs like Azure OpenAI and Hugging Face (no Lock-In to AI Providers)
- Available on multiple platforms like C#, Java and Python



Semantic Kernel – Connectors & Plugins

- **Connectors:**
 - Integrate AI model
 - Add memories (Vector DB)
- **Plugins**
 - Easily Integrate Existing Code
 - Two Types
 - Native functions
 - Prompts
 - Out-of-the-box plugins (Math, HTTP, Wait, ...)



Semantic Kernel – Planners

- Automatically orchestrate plugins with AI
- Determines the optimal approach to fulfill the request
- May increase the costs but can also save money 😊



Demo

Semantic Kernel



Dotnet Aspire

Dotnet Aspire - Distributed Applications

- Resiliency
- Service Invocation
- Health Checks
- Logging
- Tracing
- Metrics
- Developer inner loop

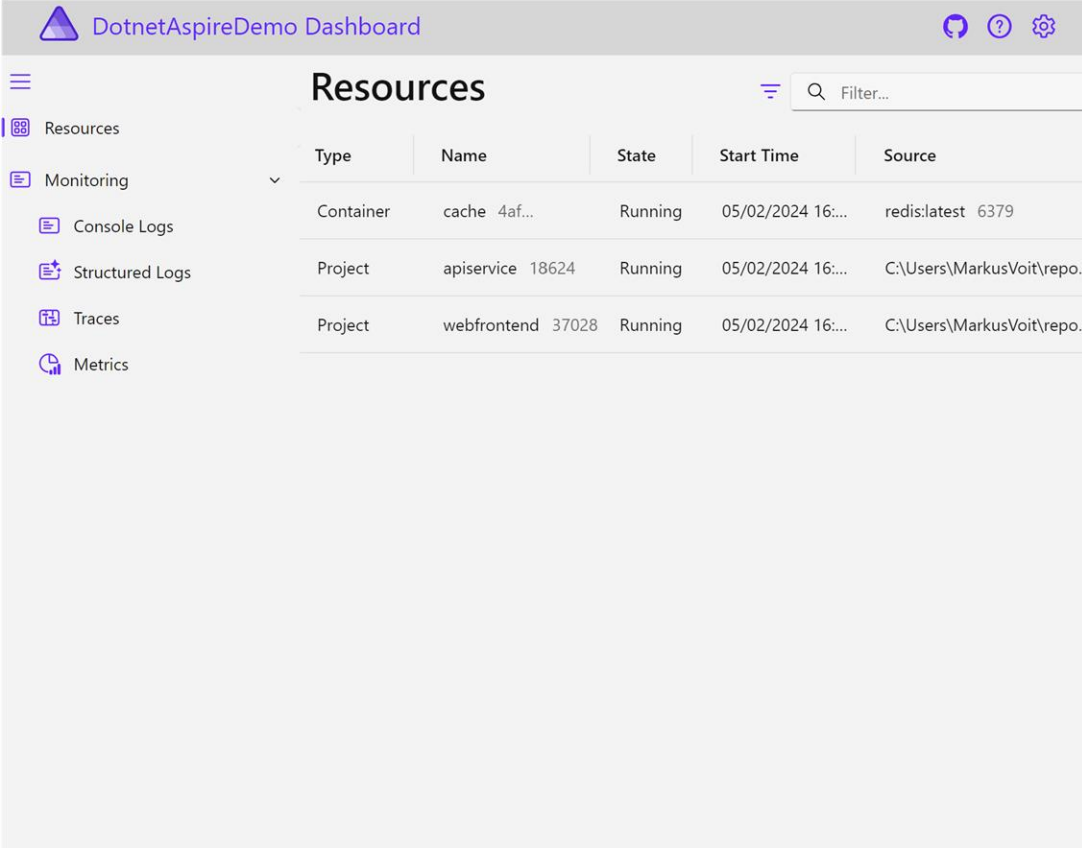


.NET Aspire

**A cloud ready stack for building observable,
production ready, distributed applications**

Dotnet Aspire - What does it offer

- Distributed App Host for Orchestration
- Open Telemetry
- Service Defaults
- Preconfigured Components
- Wiring it all up
- Dashboard 😊



The screenshot shows the 'DotnetAspireDemo Dashboard' with a sidebar menu on the left containing 'Resources', 'Monitoring', 'Console Logs', 'Structured Logs', 'Traces', and 'Metrics'. The main area displays a table titled 'Resources' with a search bar and a filter icon. The table lists three resources: a 'Container' named 'cache' (ID: 4af...), and two 'Project' resources named 'apiservice' (ID: 18624) and 'webfrontend' (ID: 37028). All resources are in a 'Running' state and started on '05/02/2024 16:...'.

Type	Name	State	Start Time	Source
Container	cache 4af...	Running	05/02/2024 16:...	redis:latest 6379
Project	apiservice 18624	Running	05/02/2024 16:...	C:\Users\MarkusVoit\repo..
Project	webfrontend 37028	Running	05/02/2024 16:...	C:\Users\MarkusVoit\repo..

Dotnet Aspire - Should I use it?



- Like ASP.NET Core for Distributed Apps
- Opiniated but configurable
- No lock-in
- Sample projects



- Deployment story
- Docs
- Dashboard only locally
- Preview

Demo

Dotnet Aspire

.NET Conf 2023 Recap Rosenheim

Azure Rosenheim Meetup, Februar 2024



 **Microsoft**
Solutions Partner
Digital & App Innovation
Data & AI
Azure

Specialist
Migrate Enterprise Applications
to Microsoft Azure

Slides & Links

- <https://github.com/whiteducksoftware/azure-meetup-rosenheim>
- <https://github.com/whiteducksoftware/demo-ai-semantic-kernel>
- <https://github.com/whiteducksoftware/dotnet-aspire-demo>
- <https://devblogs.microsoft.com/dotnet/announcing-dotnet-8/>



Thank you!