Aspire e AI coding agent:
dal repository al sistema in esecuzione

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Lodestar
IT'S TIME TO INNOVATE

.NET Conference
Italia 2026



Repository

✓ Build passed

✓ Tests passed

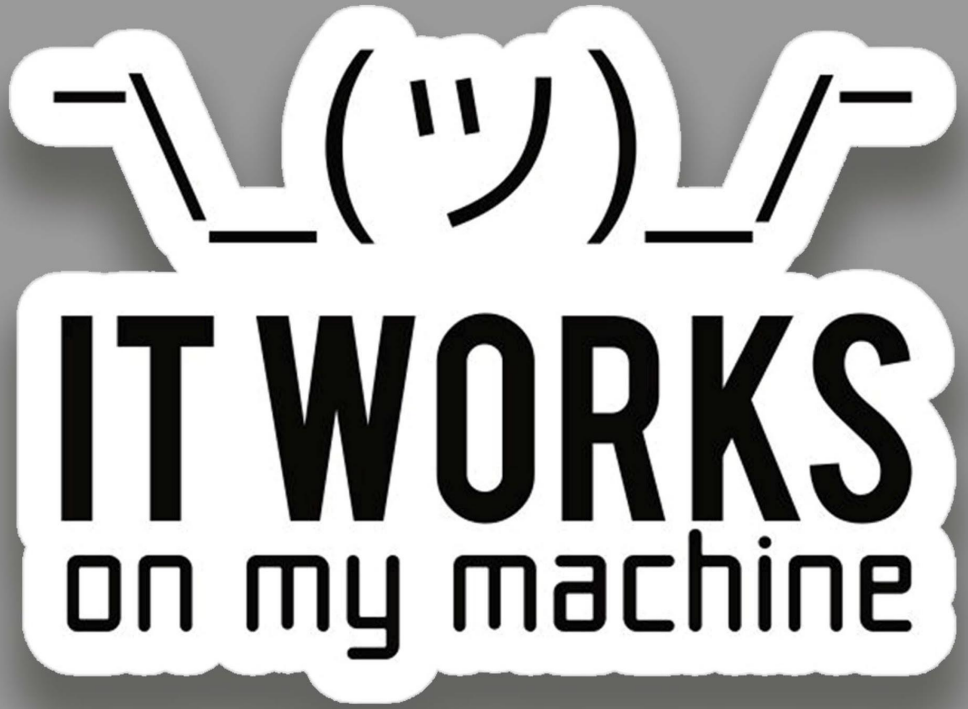


Running app

✗ Order failed

HTTP 500




¯_(ツ)_/¯
IT WORKS
on my machine

What is Aspire?

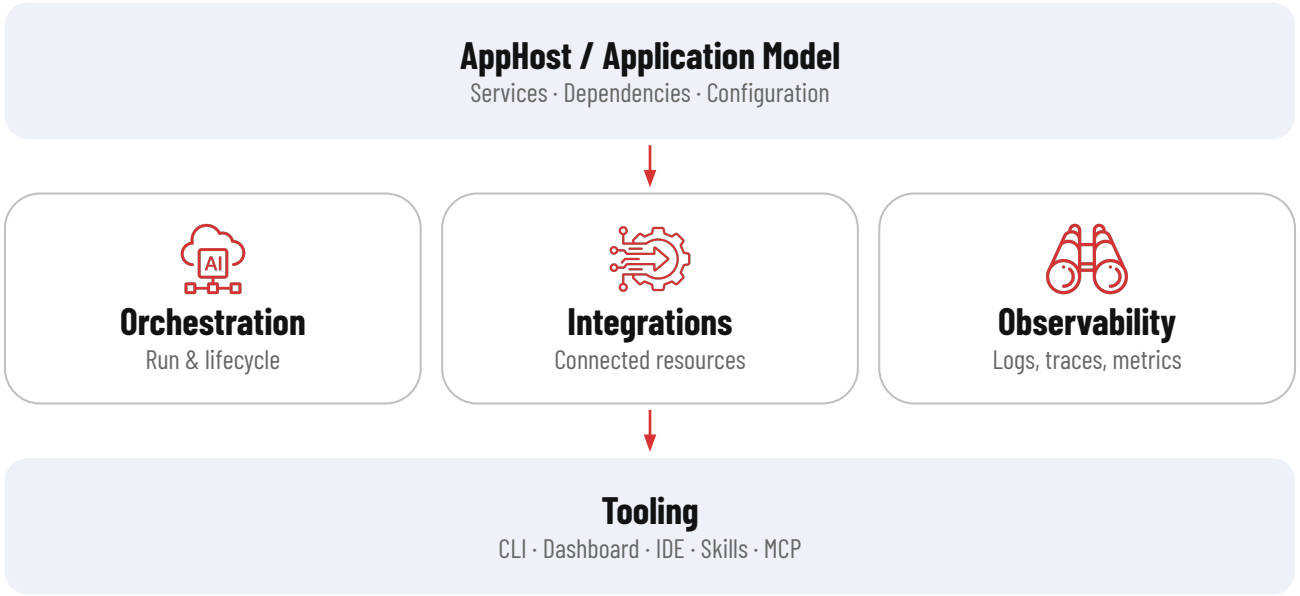
One application.

One model.

One developer experience.



Aspire: model, run, observe



Aspire: from cloud native to agent ready

2023 2024 2025 2026

Release 8

Preview (14 Nov 2023):
Cloud-native foundations

8.0 (21 May 2024):
General availability

8.1 (23 Jul 2024):
Dockerfile + Python

8.2 (29 Aug 2024):
Integrations

Release 9

9.0 (12 Nov 2024):
SDK-based setup

9.1 (25 Feb 2025):
Developer workflow polish

9.2 (10 Apr 2025):
Model + integration updates

9.3 (19 May 2025):
Dashboard AI assistant

9.4 (29 Jul 2025):
CLI general availability

9.5 (25 Sep 2025):
GenAI visualizer

Release 13

13.0 (11 Nov 2025):
Aspire goes polyglot

13.1 (17 Dec 2025):
Expanded agent MCP support

13.2 (23 Mar 2026):
TypeScript AppHost preview

13.3 (07 May 2026):
Browser telemetry

13.4 (01 Jun 2026):
Broader app model

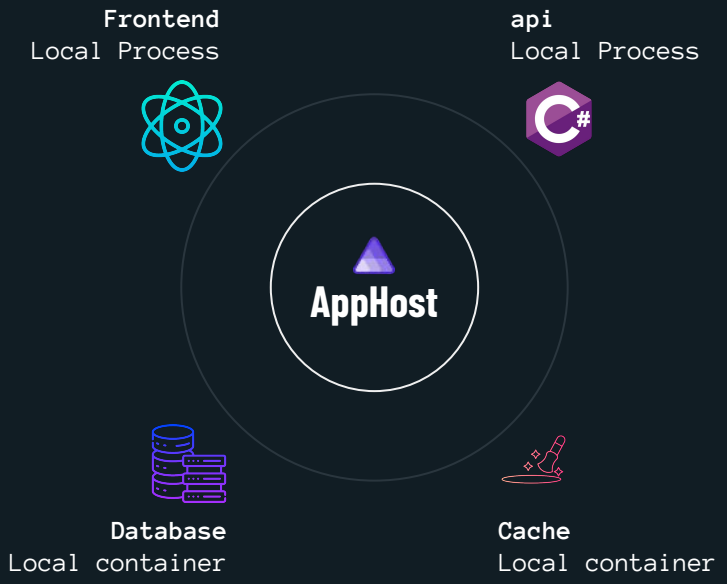
13.5 (18 Aug 2026):
Interactive AppHosts

13.6 (29 Sep 2026):
Persistent run history



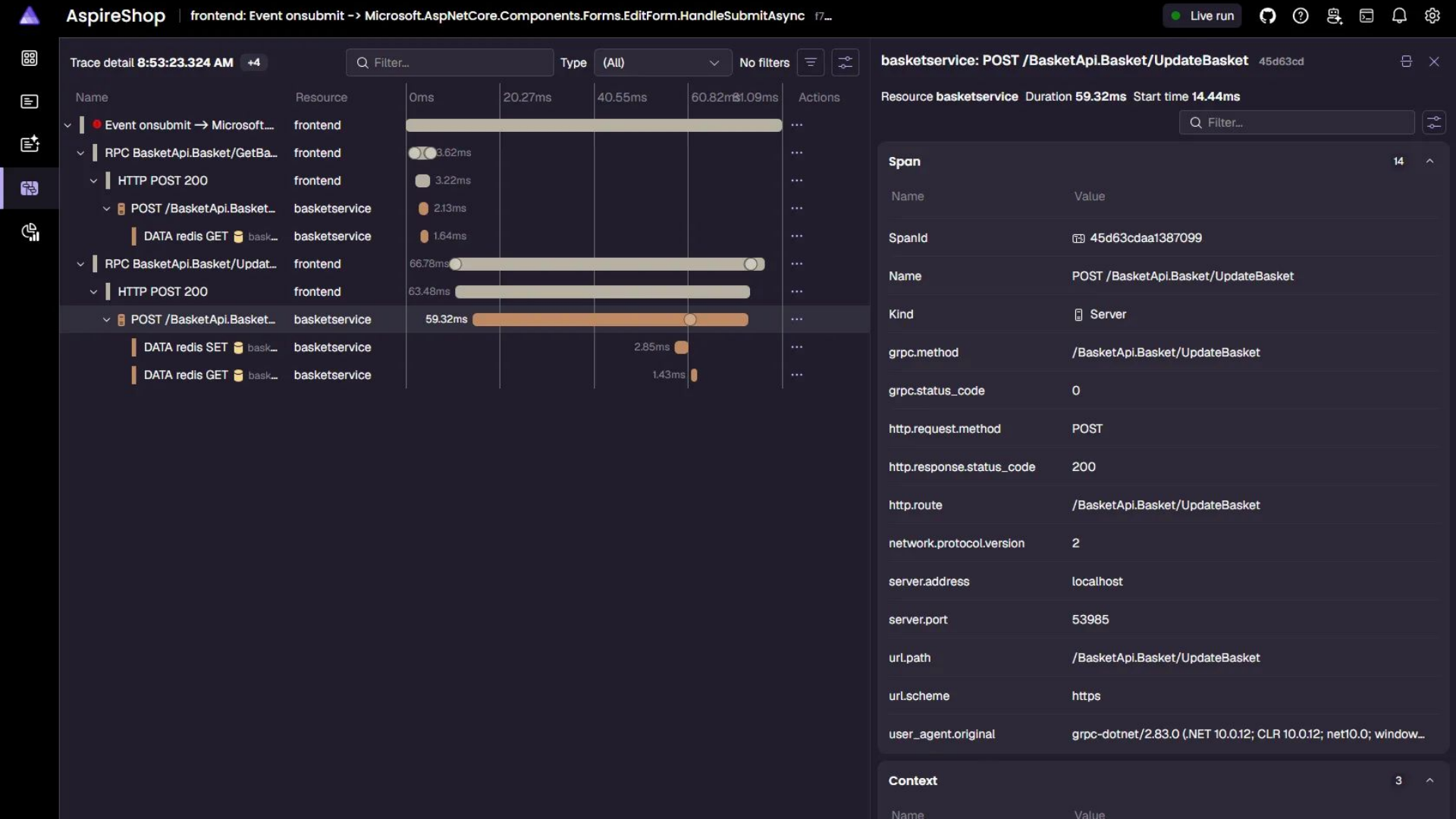
Your application is more than your projects

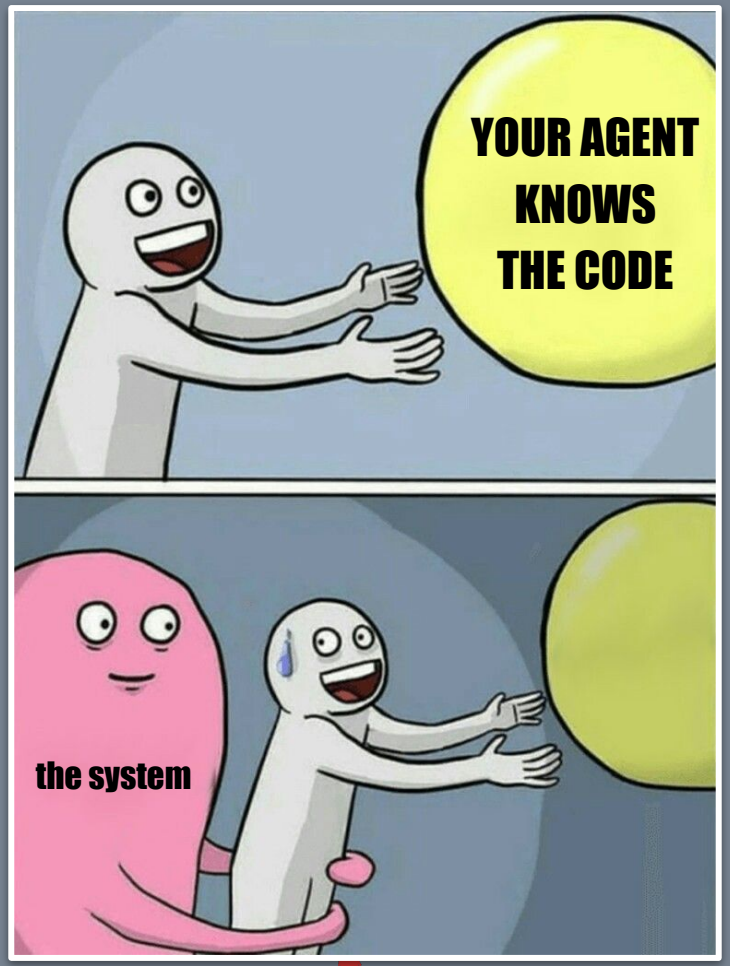
```
var builder = DistributedApplication.CreateBuilder(args);
var database = builder
    .AddSqlServer("sql")
    .AddDatabase("database");
var cache = builder.AddRedis("cache");
var api = builder
    .AddProject<Projects.Api>("api")
    .WithReference(database)
    .WithReference(cache)
    .WaitFor(database)
    .WaitFor(cache);
builder
   .AddViteApp("frontend", "../frontend")
   .WithReference(api)
   .WaitFor(api);
builder.Build().Run();
```






You can't fix what you can't see


AspireShop
frontend: Event onsubmit -> Microsoft.AspNetCore.Components.Forms.EditForm.HandleSubmitAsync
Live run
Trace detail 8:53:23.324 AM +4
Filter...
Type (All)
No filters
Name
Resource
0ms
20.27ms
40.55ms
60.82ms
81.09ms
Actions
Event onsubmit → Microsoft.... frontend
RPC BasketApi.Basket/GetBa... frontend 3.62ms
HTTP POST 200 frontend 3.22ms
POST /BasketApi.Basket... basketservice 2.13ms
DATA redis GET bask... basketservice 1.64ms
RPC BasketApi.Basket/Updat... frontend 66.78ms
HTTP POST 200 frontend 63.48ms
POST /BasketApi.Basket... basketservice 59.32ms
DATA redis SET bask... basketservice 2.85ms
DATA redis GET bask... basketservice 1.43ms
basketservice: POST /BasketApi.Basket/UpdateBasket 45d63cd
Resource basketservice Duration 59.32ms Start time 14.44ms
Filter...
Span 14
Name
Value
SpanId 45d63cdaa1387099
Name POST /BasketApi.Basket/UpdateBasket
Kind Server
grpc.method /BasketApi.Basket/UpdateBasket
grpc.status_code 0
http.request.method POST
http.response.status_code 200
http.route /BasketApi.Basket/UpdateBasket
network.protocol.version 2
server.address localhost
server.port 53985
url.path /BasketApi.Basket/UpdateBasket
url.scheme https
user_agent.original grpc-dotnet/2.83.0 (.NET 10.0.12; CLR 10.0.12; net10.0; window...
Context 3
Name
Value


YOUR AGENT
KNOWS
THE CODE
the system

What developers can see, agents can query



Give agents tools, not just instructions.



CLI

Execute & Inspect



SKILL

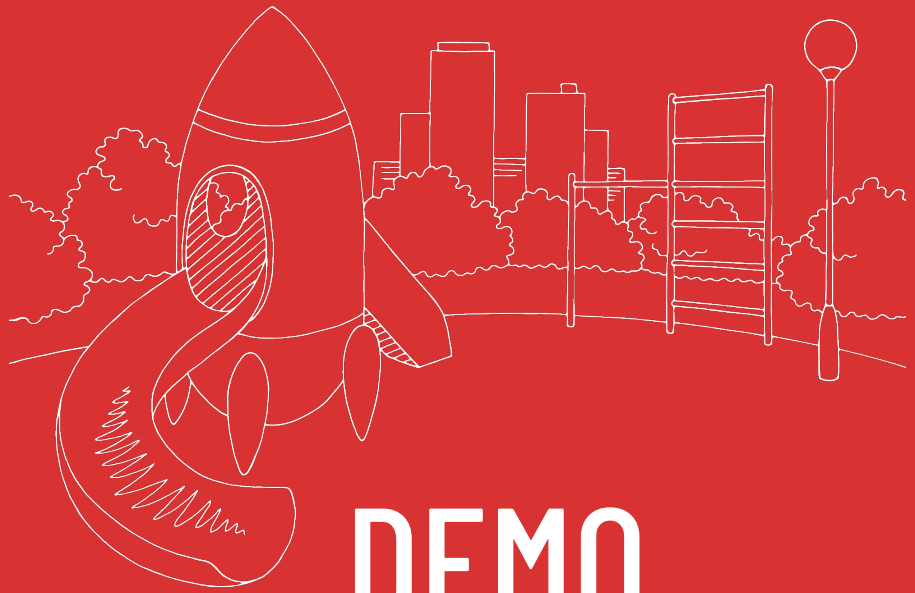
Teach Workflow



MCP

Expose Runtime Tool

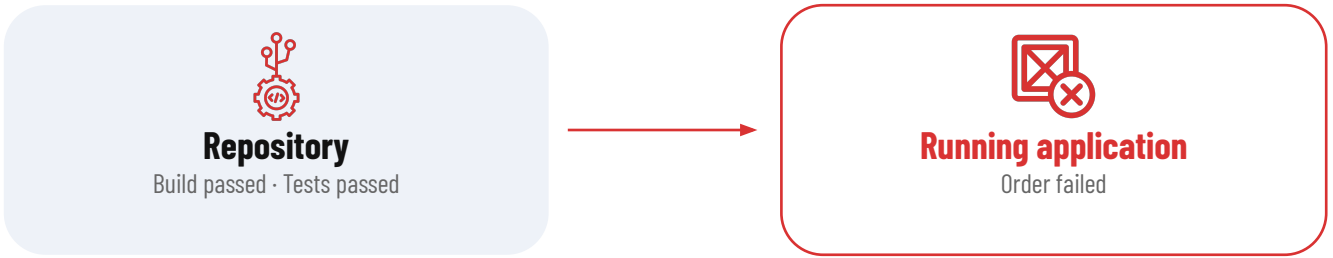


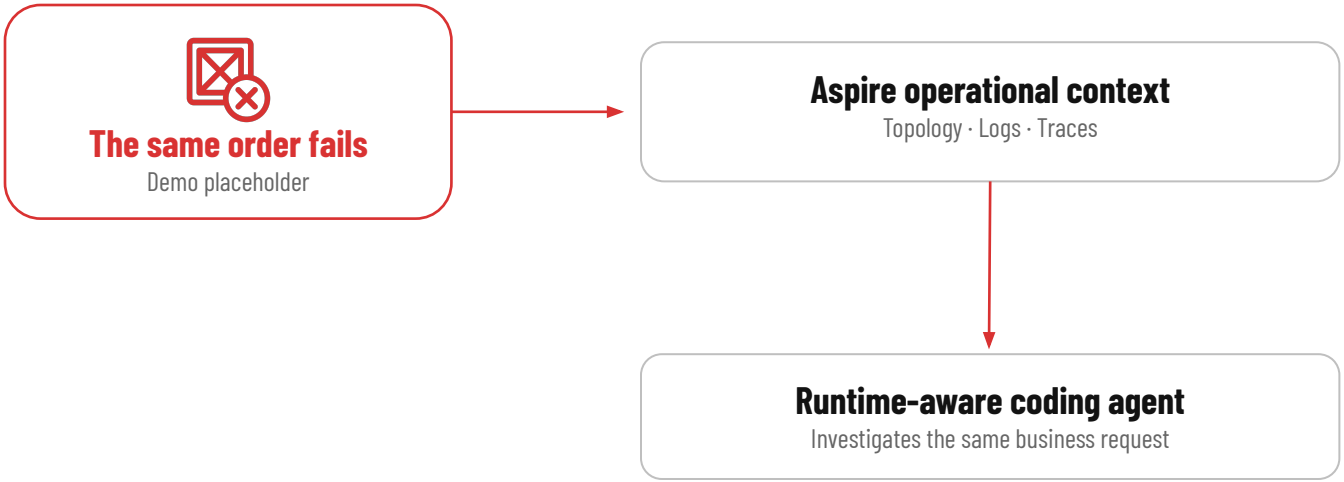


DEMO



I never knew how serious Fed Ex was when they said they deliver straight to your door...


Repository
Build passed · Tests passed
Running application
Order failed


The same order fails
Demo placeholder
Aspire operational context
Topology · Logs · Traces
Runtime-aware coding agent
Investigates the same business request

Observe.

Diagnose.

Fix.

Verify.




A ROOT CAUSE YOU MUST FIND
IF A PROBLEM YOU WANT TO FIX...
memegenerator.net

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Slide e materiale su
https://aspit.co/netconf-26



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Grazie!

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