Diagrid + Microsoft Foundry

Build agents in Microsoft Foundry. Make their execution durable and verifiable with Diagrid.

Foundry hosts your framework code as a managed hosted agent. Diagrid, built on the Dapr open source project, preserves and proves each agent's step-by-step progress. Customers confidently run long-running agents in production, driving more Foundry consumption.

THE BUSINESS PROBLEM

Hosted agents increasingly run multi-step, long-running work, including waits of hours or days for human approval. If a run is interrupted mid-action, completed LLM and tool calls can be repeated or re-billed, and actions duplicated.

Security and compliance teams also need proof of which steps an agent ran, and in what order. Without it, regulated industries can't put agents into production.

CUSTOMER OUTCOMES ON FOUNDRY

Trust

A signed, tamper-evident record of every step a hosted agent took.

Continuity

Long-running and waiting runs resume at durable step boundaries.

Auditability

Attested lineage across delegated steps and sub-agents, verifiable offline.

Operational control

Inspect each run step by step, and re-run from a chosen event when needed.

Foundry + Diagrid

Microsoft Foundry provides

- Managed hosting, scaling, versions, lifecycle
- Dedicated Microsoft Entra agent identity
- Durable state store for framework checkpoints
- Resilient tasks: lease recovery, stream replay
- Tracing, evaluations, Application Insights

Diagrid adds

- Explicit step boundaries: each LLM and tool call recorded
- Deterministic replay: completed steps aren't re-issued
- Timers, external events, child workflows, fan-out/in
- Signed, hash-chained execution history
- Attested lineage for delegated steps and sub-agents

CUSTOMERS

ZEISS · uniphar · CopaAirlines · AVEVA · Singtel · achmea · SYNERGY

EXAMPLE: SUPPLIER-RISK AGENT ON FOUNDRY

A LangGraph agent in Foundry assesses supplier risk and acts on it; each step is a durable boundary.

STEP 1	STEP 2	STEP 3	STEP 4	STEP 5
Gather	**Analyze**	**Act**	**Approve**	**Deliver**
ERP and news via MCP tools	Risk scoring with a Foundry model	Places a procurement hold	Procurement lead; hours to days	Briefing and action record

AT STEP 3

Interrupted mid-action

Steps 1–2 replay from history. Step 3 re-runs with an idempotency key, so the hold isn't placed twice.

AT STEP 4

Waiting on a person

The workflow waits on a durable external event, holding no compute and not bound to session idle timeouts.

AT STEP 5

Deliverable with proof

A signed history records which steps ran, in what order. Auditors verify it offline.

AZURE SERVICES CONSUMPTION

Foundry Agent Service High pull	Scales hosted agents from prototypes into production.
Foundry Models High pull	Model calls from agent runs that complete, not stall.
Azure Cosmos DB Azure SQL High pull	Durable agent and workflow state.

IDEAL CUSTOMER PROFILE

Enterprise and Digital Native customers taking Foundry agents beyond prototypes, needing reliability, auditability and governance.

TYPICAL BUYERS

- VP of Engineering
- Head of AI / ML Platform
- Head of Platform Engineering

STRONG-FIT TRIGGERS

- Long-running or human-in-the-loop Foundry agents.
- Needing compliance and audit evidence for agent actions.

TRIPLE WIN

For Customers

- Foundry agents in production: runs that finish, with proof of what ran.
- Foundry stays the platform; nothing changes in hosting, models or identity.

For Microsoft

- More Foundry Agent Service and model consumption as agents reach production.
- Removes a blocker for regulated customers adopting Foundry.

For Diagrid

- Helping customers quickly generate an ROI on AI Agent strategies.
- Marketplace traction as a strong Microsoft partner.