Diagrid + AKS

Run any agent framework or workflow on Azure Kubernetes Service. Make every execution durable and verifiable.

Diagrid, built on the Dapr open source project, adds durable and verifiable execution to AI agents and workflows running on AKS. AKS keeps agent and workflow containers running; Diagrid keeps each run's progress, and the proof of what ran. Customers confidently move agentic and workflow workloads into production, driving more AKS consumption.

THE BUSINESS PROBLEM

A healthy cluster isn't a recovered workflow. Kubernetes restarts failed containers and reschedules pods, but it has no view of which step an in-flight agent or workflow run had reached. After a pod crash, node failure or rolling deployment, the run starts over: LLM calls are re-billed, API calls risk being duplicated and results are delayed.

HOW DIAGRID DELIVERS OUTCOMES ON AKS

Durable Execution for any Agent or Workflow

In-flight runs survive pod crashes, node failures and rolling deployments, resuming after the last completed step. Completed LLM and tool calls aren't re-issued or re-billed.

Verifiable Execution for any Agent or Workflow

Every run gets a signed, tamper-evident history tied to workload identity, so security and compliance teams can prove which steps ran, in what order and by which workload.

AKS + Diagrid

AKS keeps agent and workflow containers running. Diagrid keeps each run's progress, and the proof of what ran.

Your agents

Any framework: agent logic, prompts, tools

LangGraph · CrewAI · Microsoft Agent Framework · OpenAI Agents SDK · Claude Agent SDK · Mastra · Spring AI · Pydantic AI · Deep Agents

Your workflows

Business processes as code

Python · .NET · Java · JavaScript · Go

Diagrid — Durable, verifiable execution

Durable steps	Recovery	Coordination	Verifiability
Every LLM call, tool call and workflow activity is recorded	Replay history and resume after the last completed step	Durable timers, external events, child workflows	Signed, hash-chained history; workload identity

Azure Kubernetes Service — Runs and scales the containers

Self-healing	Rollouts	Autoscaling	Identity and ops
Restarts containers and reschedules pods	Rolling deployments and cluster upgrades	HPA, KEDA, node auto-provisioning	Entra Workload ID, Azure Policy, Container Insights

AZURE SERVICES CONSUMPTION

Azure Kubernetes Service High pull	Agents and workflows move from prototype to production on AKS, adding replicas and nodes as workloads scale.
Azure Cosmos DB Azure SQL High pull	Durable agent and workflow state.
Azure Service Bus Azure Event Hubs High pull	Events and messages that start workflows and resume agent runs waiting on external events.

IDEAL CUSTOMER PROFILE

Enterprise and Digital Native customers running AI agents and workflows on AKS, moving beyond prototypes and needing production-grade reliability, security and governance.

TYPICAL BUYERS

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

STRONG-FIT TRIGGERS

- Multi-step agents and workflows on AKS that lose progress on pod restarts or deployments.
- Needing compliance and audit guarantees for agents and workflows.

TRIPLE WIN

For Customers

- No lost runs and no rework: agents and workflows on AKS finish through failures and deployments.
- Provable agent and workflow history that helps clear compliance hurdles in regulated industries.

For Microsoft

- Accelerated AKS consumption as agent and workflow workloads reach production.
- AKS positioned as the enterprise platform for any agent framework or workflow.

For Diagrid

- Helping customers quickly generate an ROI on AI Agent strategies.
- Accelerated marketplace traction increasing Diagrid's status as a strong Microsoft partner.

CUSTOMERS

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