

Introducing Microsoft Agent Framework

Microsoft Agent Framework is an **open-source SDK and runtime** designed to let developers build, deploy, and manage sophisticated multi-agent systems with ease. It unifies the **enterprise-ready foundations of Semantic Kernel** with the **innovative orchestration of AutoGen**, so teams no longer have to choose between experimentation and production.

	Semantic Kernel	AutoGen	Microsoft Agent Framework
Focus	Stable SDK with enterprise connectors, workflows, and observability	Experimental multi-agent orchestration from research	Unified SDK combining innovation + enterprise readiness
Interop	Plugins, connectors, and support for MCP, A2A, OpenAPI	Tool integration supported; lacks standardized cross-runtime protocols	Built-in connectors, MCP + A2A + OpenAPI
Memory	Multiple vector store connectors and memory store abstraction (e.g. Azure SQL Elasticsearch, MongoDB)	Support for in-memory / buffer history + external vector store memory options (ChromaDB, Mem0, etc)	Pluggable memory across stores (first-party and third-party), persistent & adaptive memory stored with retrieval, hybrid approaches
Orchestration	Deterministic + dynamic orchestration (Agent Framework, Process Framework)	Dynamic LLM orchestration (debate, reflection, facilitator/worker, group chat)	Deterministic + dynamic orchestration (Agent Orchestration, Workflow Orchestration)
Enterprise readiness	Telemetry, observability, compliance hooks	Minimal	Observability, approvals, CI/CD, long-running durability, hydration

With Microsoft Agent Framework, you get:

- **Open standards & interoperability** — MCP, A2A, and OpenAPI ensure agents are portable and vendor-neutral.

- **Pipeline for research-to-production** — bleeding-edge orchestration patterns from Microsoft Research are now ready for enterprise use.
- **Community-driven extensibility** — modular by design, with connectors, pluggable memory, and declarative agent definitions.
- **Enterprise readiness** — built-in observability, approvals, security, and long-running durability.

Microsoft Agent Framework doesn't replace Semantic Kernel and AutoGen — it builds on them. By consolidating their strengths, it gives developers one foundation to move from experimentation to enterprise deployment without compromise. Microsoft Agent Framework supports both **Agent Orchestration** (LLM-driven, creative reasoning and decision-making) and **Workflow Orchestration** (business-logic driven, deterministic multi-agent workflows). Together, they allow teams to choose the right approach for the problem: flexible collaboration for open-ended tasks, or structured workflows for repeatable enterprise processes.