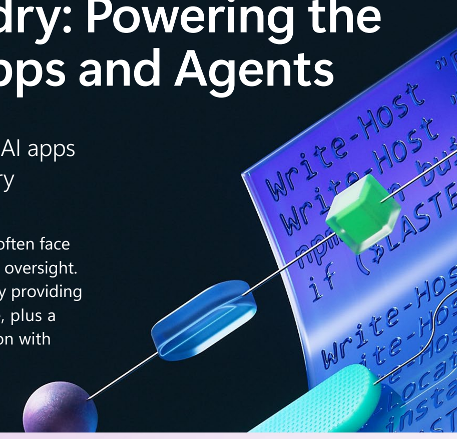
Microsoft Azure

Azure AI Foundry: Powering the Future of AI Apps and Agents



Design, customize, and manage AI apps and agents with Azure AI Foundry

Organizations aiming to move fast with AI often face hurdles around speed, trust, scalability, and oversight. Azure AI Foundry streamlines the journey by providing a portal, SDK, and API access in one place, plus a rich model catalog and seamless integration with GitHub, Visual Studio, and Copilot Studio.

The building blocks of smarter AI

Models

Access GPT-series, open-source, and small language models (SLMs) via Azure AI Foundry Models.

Agents and tools

Customize models with your own data, configurations, and distillation tools to address your use case.

Deploy and scale AI agents and multi-agents with memory, reasoning, and actions.

Trust

Connect securely to APIs and enterprise systems to automate workflows and monitor the entire AI development lifecycle.

What can developers create with Azure AI Foundry?

From embedding intelligence directly into apps to orchestrating complex workflows with agents, Azure AI Foundry provides the models, agents, and tools to move faster, automate more, and create smarter.

Technical use cases

- **Embed AI** into apps with Azure SDKs and REST APIs.
- **Orchestrate multi-step agentic workflows** using your secure knowledge and thousands of built-in actions.
- **Run reasoning pipelines** over private, streaming, or multimodal data sources.
- **Automate developer tasks** such as code generation, code review, and documentation.
- **Monitor system health, performance, and usage** with built-in observability.

Seamless integration across your stack

Azure AI Foundry integrates seamlessly across your tech stack so data flows freely, workflows stay connected, and developers can move faster.

Data and analytics	Automation and workflows	Application services
Azure AI Search Synapse	Power Platform	Azure Kubernetes Services (AKS)
Microsoft Fabric	Azure Functions	Azure App Service
Azure Databricks		Azure Container Apps
Azure Monitor		

Accelerate development with AI-powered tools

Turn repetitive coding into rapid progress. GitHub Copilot generates functions, accelerates tasks, and suggests improvements—all inside widely used IDEs:

Visual Studio Code
Build custom agents and extend Microsoft 365 Copilot with Copilot Studio.

GitHub
Streamline development with GitHub Copilot, fully integrated with Visual Studio.

Microsoft Copilot Studio
Build, scale, and deliver secure software using the GitHub AI-powered developer platform.

Real-world success with Azure AI Foundry

NFL Combine accelerates talent evaluation with real-time AI insights

Scouts and coaches were spending hours compiling reports during live drills—time lost to tedious manual work. Now, with natural-language insights delivered instantly, they can focus on evaluating talent instead of paperwork.

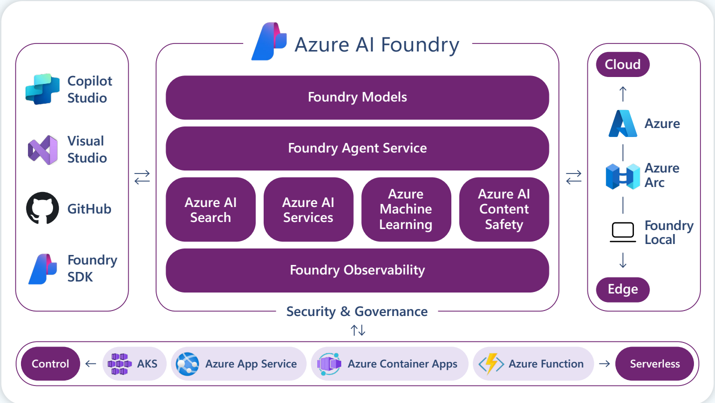
Architecture

Created with Azure AI Foundry, Azure Cosmos DB, and Azure Container Apps, and instrumented with Application Insights and Azure Monitor for real-time observability.

Impact
“We transformed hours of tedious, manual effort into seconds of grab-and-go data,” says Jeff Foster, President of National Football Scouting.

Read the full customer story

How does Azure AI Foundry fit into your stack?


Azure AI Foundry

Copilot Studio
Visual Studio
GitHub
Foundry SDK

⇄

Foundry Models
Foundry Agent Service
Azure AI Search
Azure AI Services
Azure Machine Learning
Azure AI Content Safety
Foundry Observability

Security & Governance
↑↓

⇄

Cloud
↑
Azure
Azure Arc
Foundry Local
↓
Edge

Control ← AKS | Azure App Service | Azure Container Apps | Azure Function → Serverless

Powerful new capabilities to advance your AI

Azure AI Foundry is evolving fast, with new features designed to help you create more intelligent agents, streamline development workflows, and unlock richer, multimodal user experiences:

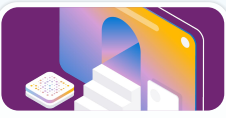
Capability	Advantage
Multi-agent orchestration and chaining Coordinate multiple agents to work together on complex tasks	Automate tasks and improve efficiencies
Automatic model upgrades Upgrade to the latest model to support your business goals and use cases	Enable smarter performance and cost efficiency
Multimodal support Expand beyond text with AI support for images, audio, graphs, and more	Unlock richer, more natural user experiences
Fine-tuning and safety tools Customize models to your needs while keeping them responsible	Innovate with peace of mind
Model Context Protocol (MCP) Connect external tools directly into your workflows	Extend capabilities without added complexity

Azure AI Foundry Labs: Where bold ideas meet real-world impact

Azure AI Foundry Labs gives you early access to experimental models and tools from Microsoft Research, helping you prototype faster, collaborate directly with engineers, and shape the future of AI before it hits production.

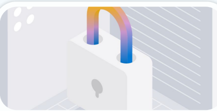
Create AI apps and agents you can trust from day one

Azure AI Foundry provides a trustworthy foundation for building AI with confidence.



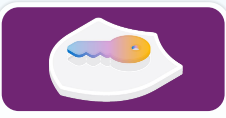
Safety:
Develop AI responsibly

Built-in AI safety tooling helps you detect and filter harmful human and AI-generated content, protect PII, and safeguard applications against threats.



Security:
Your data is yours

Enterprise-grade identity, compliance, and network protections ensure your information stays secure and trustworthy.



Privacy:
Comply with ease

Comprehensive compliance lets you easily comply with privacy laws and meet diverse regulatory requirements.

Give teams full visibility for AI applications

From prototype to production, Azure AI Foundry Observability helps teams monitor, evaluate, and govern their AI systems with confidence. It integrates with CI/CD pipelines and governance tools to ensure AI stays reliable, safe, and compliant at every stage.

End-to-end tracking
Monitor models, AI apps, and agents across development, deployment, and production

Built-in evaluation
Measure coherence, safety, and reliability of outputs

Governance ready
Stay aligned with compliance frameworks like the EU AI Act

Real-time debugging
Trace and resolve issues quickly

Model comparison
Use leaderboards to choose models by cost, quality, and performance

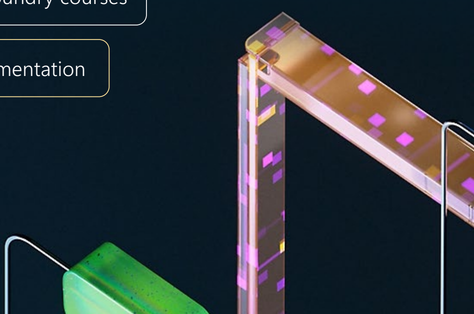
Start your Azure AI Foundry journey

Create with Azure AI Foundry

Download the SDK and start building

Build your skills with Azure AI Foundry courses

Explore Azure AI Foundry documentation



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