



ECS 2026

Copilot Studio Architecture



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Microsoft





PREMIUM



PREMIUM PARTNER



TECHNOLOGY PARTNER



DIAMOND



PLATINUM



GOLD



SILVER



BRONZE



FUTURE MAKER SILVER



FUTURE MAKER BRONZE



MEDIA PARTNER



Agenda



Welcome & Introductions	
Out-of-the-Box Architecture M365 Copilot, Copilot Studio Lite & Full, AI Foundry	9:00 – 10:30
A2A & MCP Protocols CCA architecture, multilingual agents, speech services	
Break	10:30 – 10:45
Extensibility Extending each platform and combining them	10:45 – 12:30
Lunch	12:30 – 13:30
Voice & Translation Agent-to-Agent, Model Context Protocol, best practices	13:30 – 14:30
Governance Individual agent and orchestrated governance, Agent 365	
Break	14:30 – 14:45
Security & Monitoring Threat protection, monitoring, OWASP for agents	14:45 – 15:15
Scenarios	15:15 – 16:30
End of the day	16:30

Section 1

Out-of-the-Box Architecture

Understanding what each AI element provides natively and when to choose which

Where Microsoft's Copilot and AI Build Options Fit



M365 Copilot

Best for business users working in Word, Excel, PowerPoint, Outlook, and Teams. It brings AI directly into daily work using Microsoft 365 context, permissions, and content.

User productivity layer



Copilot Studio Lite

Best for teams that want simple agent extensions around Copilot without a full developer-style build motion. Think guided customization, grounded prompts, and lighter-weight business automation.

Light customization layer



Copilot Studio

Best for makers and enterprise teams building custom agents with connectors, actions, orchestration, and governance. It is the low-code agent factory in the Power Platform stack.

Low-code agent platform



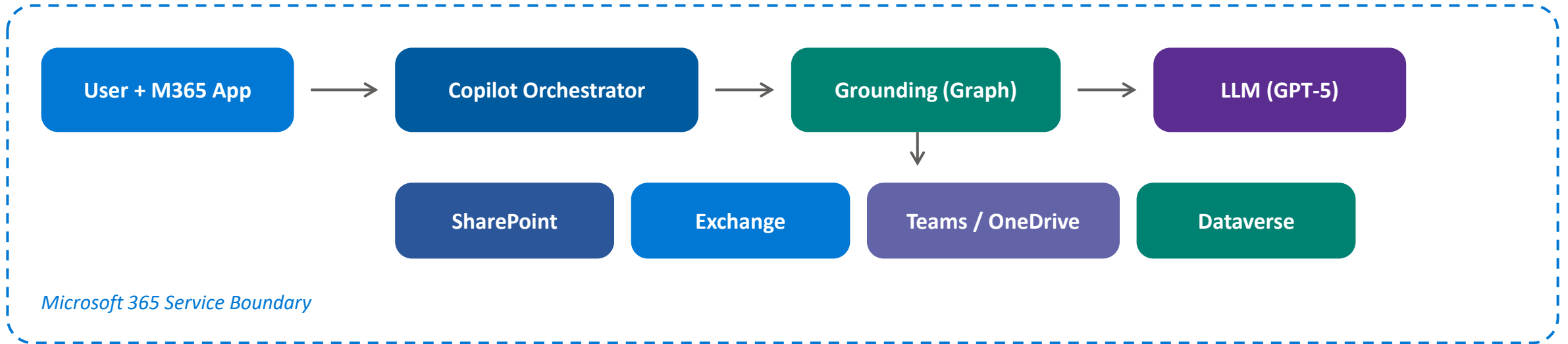
Microsoft Foundry

Best for developers and AI engineers who need model selection, code-first orchestration, evaluation, deployment, and enterprise AI operations. It is the broadest build platform for custom AI apps and agents.

Pro – code AI platform



M365 Copilot Architecture



Microsoft 365 Service Boundary

- User permissions enforced via Microsoft Graph at every request
- All data stays within the M365 service boundary
- Grounding enriches prompts with user context from Graph
- Conditional Access and MFA apply to all Copilot interactions



M365 Copilot

What You Get

- Drafts content in Word and Outlook, turning prompts into first-pass documents, emails, and rewrites.
- Summarises meetings, chats, and long documents so users can get to actions faster.
- Analyses data in Excel and helps surface trends, formulas, and narrative explanations.
- Works across Microsoft 365 apps with access shaped by your existing permissions and tenant data.
- Can improve personal productivity by reducing time spent searching, writing, and catching up.

Key Limitations

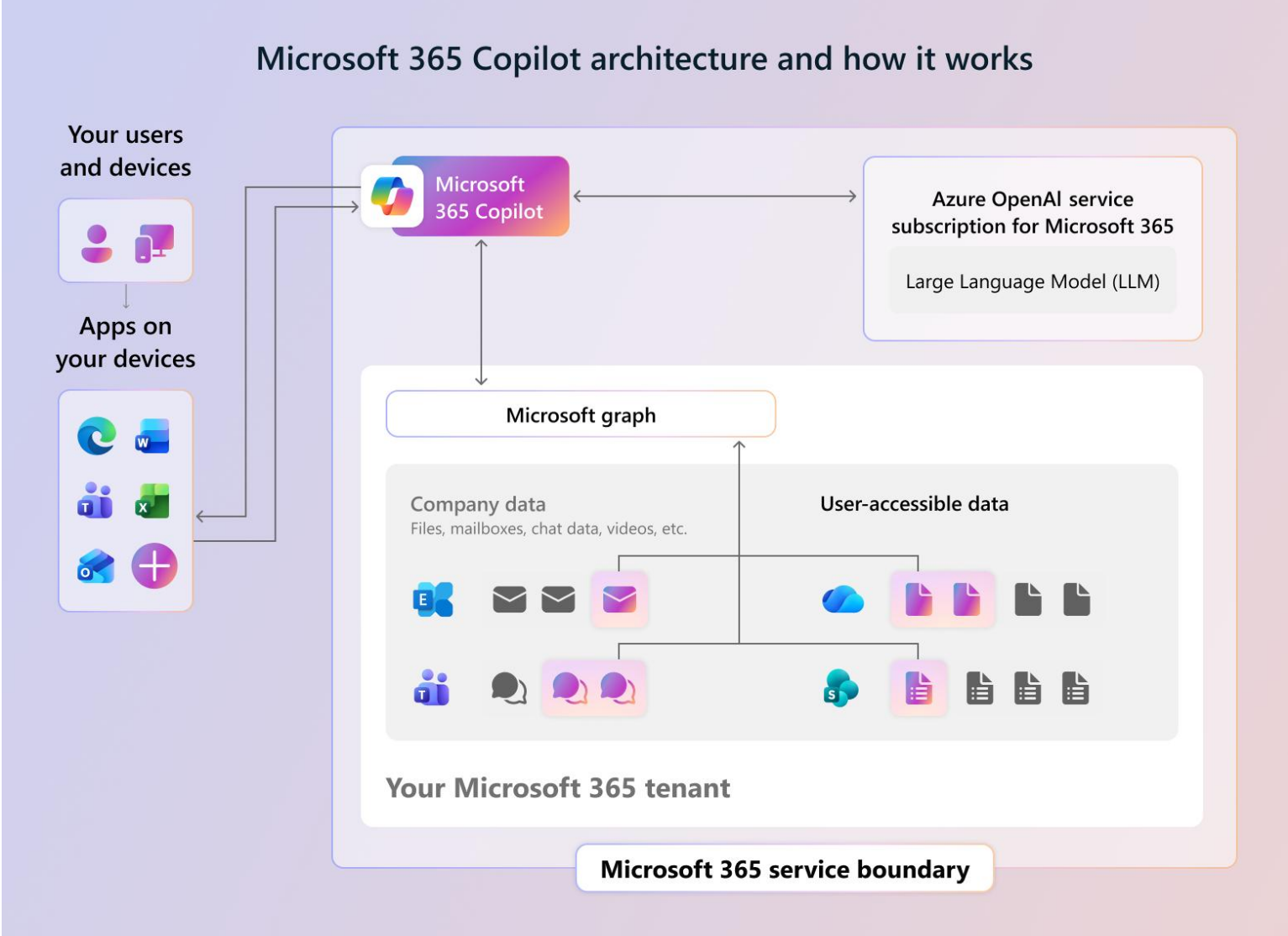
- Designed for M365 Assistance
- Output quality depends on your data hygiene, permissions model, and the quality of the prompt.
- Responses can be incomplete or wrong, so human review is still required for important work.
- It does not fix poor information architecture, unmanaged content sprawl, or weak governance.

Best for: Quick prototyping, personal productivity agents, citizen developers exploring AI



Copilot Studio Lite Architecture

Agent Builder embedded in Microsoft 365 Copilot — runs inside the M365 service boundary





Copilot Studio Lite

What You Get

- Embedded in M365 Copilot app (Teams, web)
- Natural language authoring ("Describe" tab)
- Connect to SharePoint, OneDrive knowledge
- Code interpretation and image generation
- Test agents in embedded side pane
- Quick sharing within your organisation
- GPT-5 Chat model included

Key Limitations

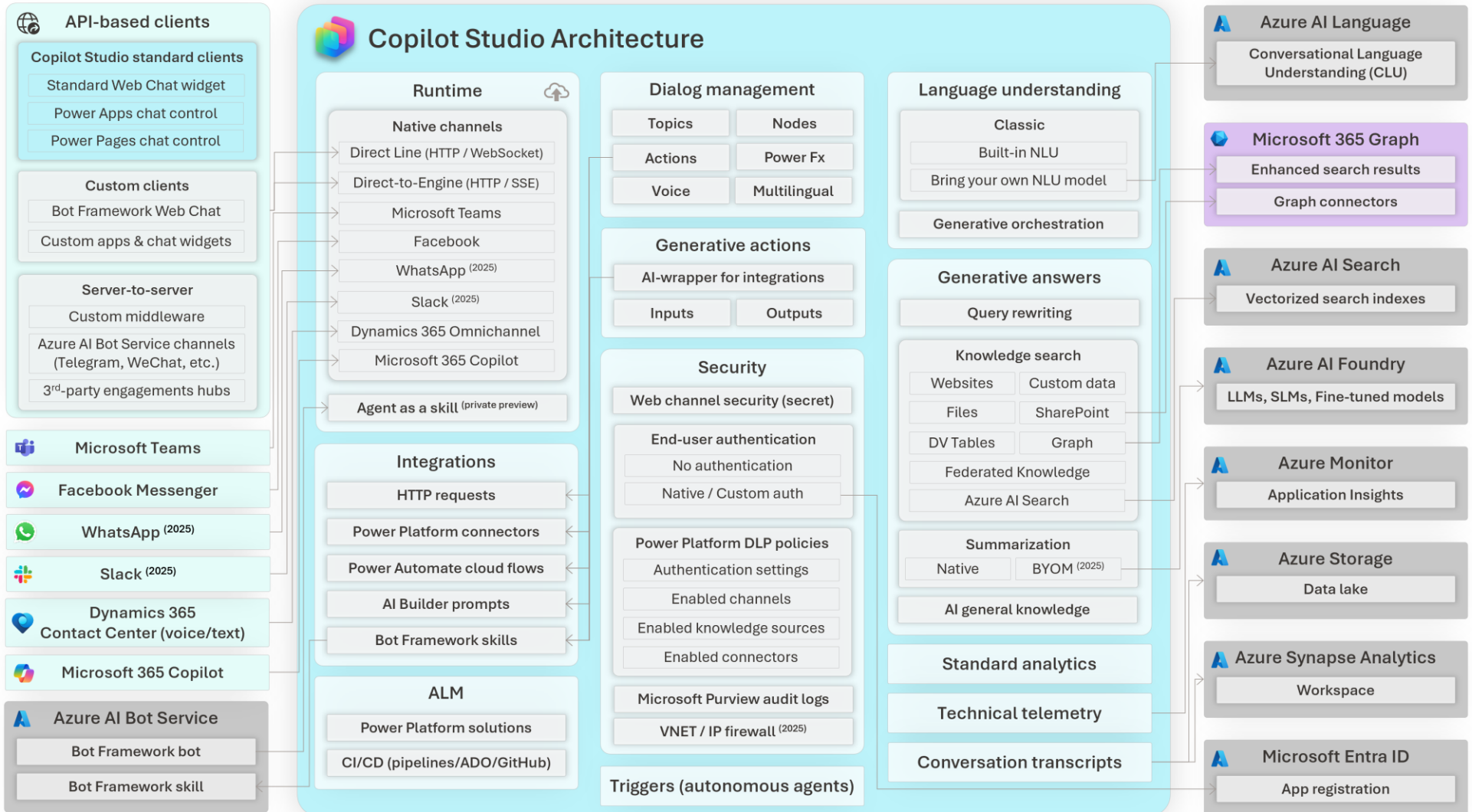
- Limited number of topics
- No premium connectors or Dataverse
- No multi-environment ALM
- Restricted publishing channels
- No advanced workflow branching
- Scoped to user's M365 data context
- No telemetry or analytics dashboards

Best for: Quick prototyping, personal productivity agents, citizen developers exploring AI



Copilot Studio Architecture

Standalone agent platform — runtime, dialog, generative answers, security and ALM across channels





Copilot Studio Full Experience

Full Capabilities

- Standalone portal (copilotstudio.microsoft.com)
- Multi-step workflows and conditional logic
- Premium connectors and external APIs
- Dataverse integration
- Dev / Test / Prod environments (ALM)
- Version control and rollback
- Telemetry and usage analytics
- Computer use capability (UI automation)
- Multi-agent orchestration
- A2A protocol support

Target Audience

Makers, developers, IT teams building agents for departments or enterprise-wide use. Comfortable with complexity and lifecycle management.

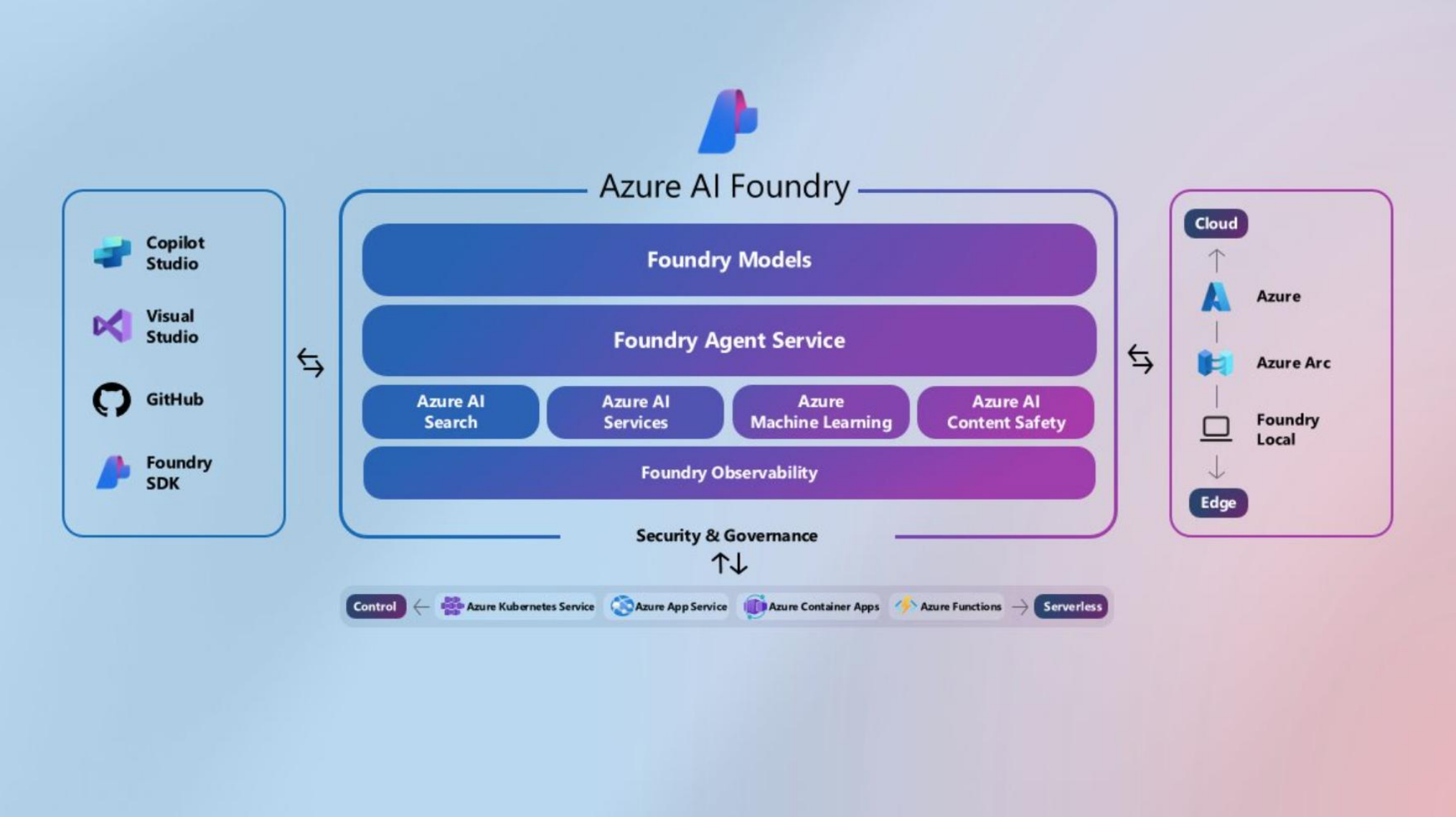
Licensing

- Copilot Studio add-on license required
- Included with M365 Copilot (Lite) or pay-as-you-go
- Capacity-based pricing model
- Lite agents can be copied to Full for upgrade



Azure AI Foundry Architecture

Foundry in the Microsoft stack — models, Agent Service, AI services, observability and developer tools





Azure AI Foundry

Core Capabilities

- Code-first (SDK, CLI, VS Code)
- 1,600+ models (GPT-4o, Llama, Mistral, BYOM)
- Fine-tuning and custom model training
- RAG with Azure AI Search
- Multi-agent orchestration via Semantic Kernel
- Prompt engineering and A/B testing
- Responsible AI safety filters (tunable)
- Network isolation (VNETs)
- Full CI/CD and LLMOps pipeline
- Native MCP and A2A support

Choose AI Foundry When

- You need maximum model flexibility and control
- Custom NLP models or fine-tuning required
- Complex multi-step reasoning across systems
- High-volume, latency-sensitive workloads
- Strict hallucination risk management needed
- Legal / healthcare / financial scenarios
- Professional developers available
- Consumption-based pricing preferred



Decision Framework

Capability	M365 Copilot	Studio Lite	Studio Full	AI Foundry
Interface	M365 Apps	Embedded in M365	Standalone portal	Code-first (SDK/CLI)
Builder Persona	End users	Citizen developers	Makers / IT teams	Pro developers
Model Access	Microsoft LLMs	GPT-5 Chat	Microsoft LLMs	1,600+ models
Data Access	User's M365 data	User's M365 data	M365 + Dataverse + APIs	Any Azure data source
ALM / Lifecycle	N/A	None	Full (dev/test/prod)	Full CI/CD pipeline
Extensibility	Plugins, connectors	Knowledge sources	Connectors, actions	SDK, APIs, custom code
Security Model	M365 boundary	M365 DLP	Power Platform DLP	Azure-native (VNETs)
Pricing	Per-user Copilot	Included w/ Copilot	Capacity add-on	Consumption-based

Key Insight: You consume M365 Copilot, compose with Copilot Studio, and customise with AI Foundry.

ANTHROPIC & OPENAI • WHERE THEY FIT



Microsoft is now a multi-model house. OpenAI is the default; Claude is selectable in specific surfaces. Same Entra, same Purview, same Defender — the model changes, the controls do not.

Surface	OpenAI	Anthropic (Claude)	How it is offered
M365 Copilot	Default — GPT-5 / GPT-5.5	Researcher (Claude), Copilot with Claude agent, Cowork	Tenant toggles per surface; OpenAI remains the only option in most apps
Copilot Studio (Lite + Full)	Default behind generative answers	Selectable for skills & autonomous actions	Anthropic governed under MS subprocessor terms; choose per agent
Microsoft Foundry	Azure Direct — GPT-5, GPT-5.5 GA	Claude Sonnet 4.5, Haiku 4.5, Opus 4.6/4.7 — serverless	Model catalogue (1,900+); Direct vs Partner deployment differ on hosting
GitHub Copilot	Default coding model	Claude Sonnet/Opus selectable	Developer surface — separate licensing

Foundry is where you choose. Copilot surfaces decide for you — with admin toggles for Anthropic.

Section 2

A2A & MCP Protocols

Agent-to-Agent communication and Model Context Protocol: what works today and best practices



Understanding MCP and A2A

Model Context Protocol (MCP)

Universal plug-and-play for AI agent tool access

- Agents call external tools and data mid-reasoning
- Standardised protocol for tool integration
- Resumable streams, elicitation, sampling
- Progress notifications for long-running tasks

Supported in:

- Azure AI Foundry (native)
- Copilot Studio Full (connected agents)
- Semantic Kernel SDK

Agent-to-Agent Protocol (A2A)

Cross-runtime agent collaboration

- Agents collaborate across different runtimes
- Cross-vendor, cross-ecosystem interoperability
- Task delegation between specialised agents
- Complementary to MCP (not competing)

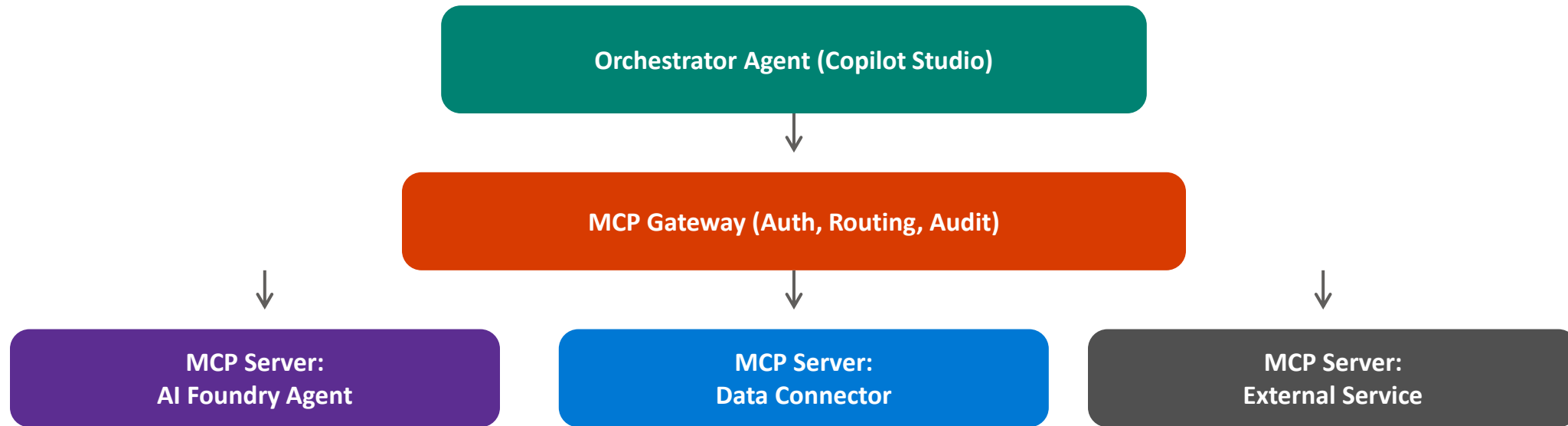
Supported in:

- Azure AI Foundry (via Semantic Kernel)
- Copilot Studio (announced, rolling out)
- M365 Copilot (agents call other agents)

MCP = agents accessing tools and data. A2A = agents collaborating with agents. Together they enable the agentic economy.



MCP Architecture in Practice



What works today:

- Foundry agents expose MCP endpoints (register, connect, call)
- Copilot Studio imports Foundry agents as callable skills via MCP
- MCP servers visible in M365 admin centre for governance
- Auth managed automatically in Azure AI Foundry agent service
- MCP tool attachment requires approval flow in Azure AI agent service



A2A in Practice Today



Current state of A2A:

- M365 Copilot agents can call other agents as tools (rolling out March 2026)
- Copilot Studio supports A2A for cross-platform agent collaboration
- Azure AI Foundry implements A2A via Semantic Kernel SDK
- A2A enables cross-vendor interoperability (not just Microsoft agents)
- Local dev: Microsoft Agent Framework supports A2A without Azure dependency
- Production: AI Foundry manages auth, identity, encryption for A2A automatically

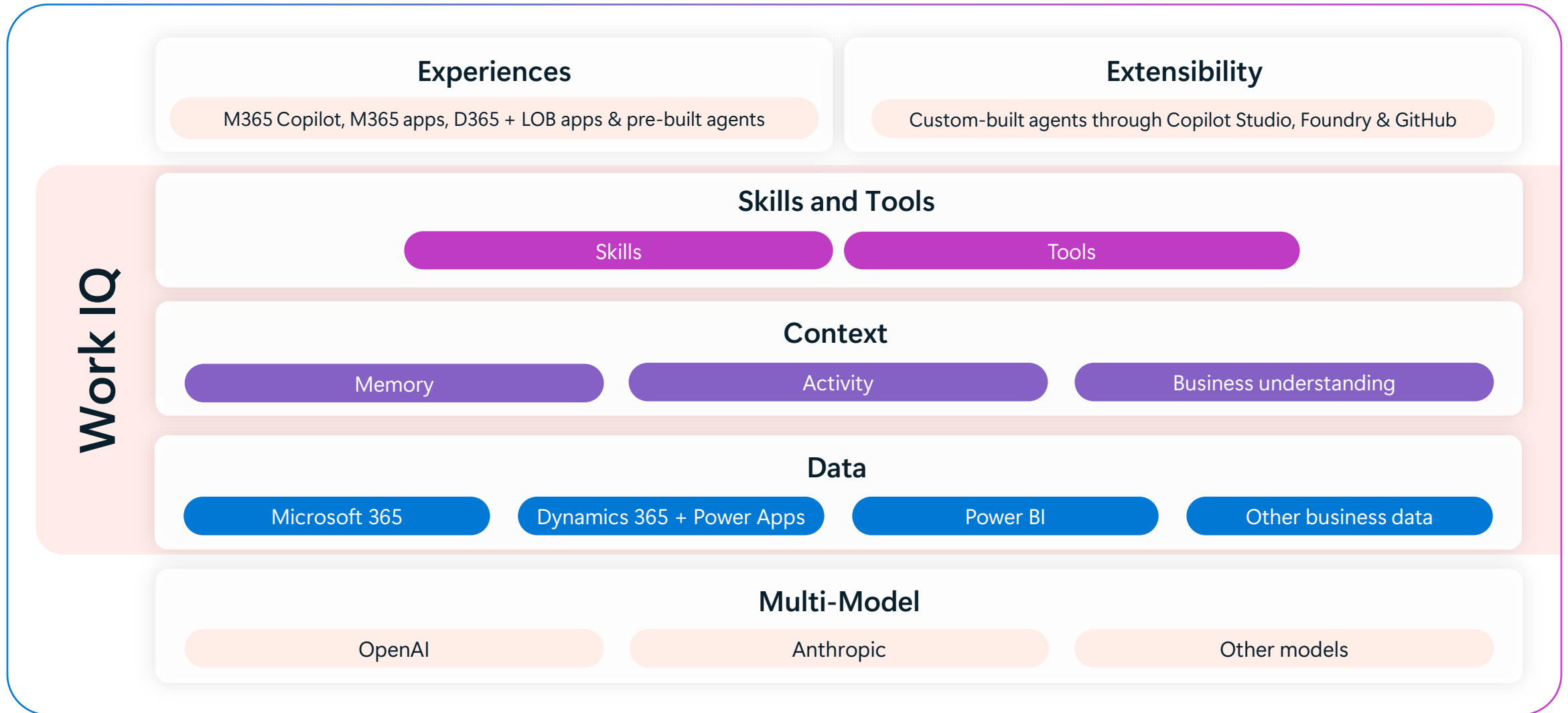
Section 3

Extensibility

Bringing agents into the flow of work, extending Microsoft 365 and building custom experiences

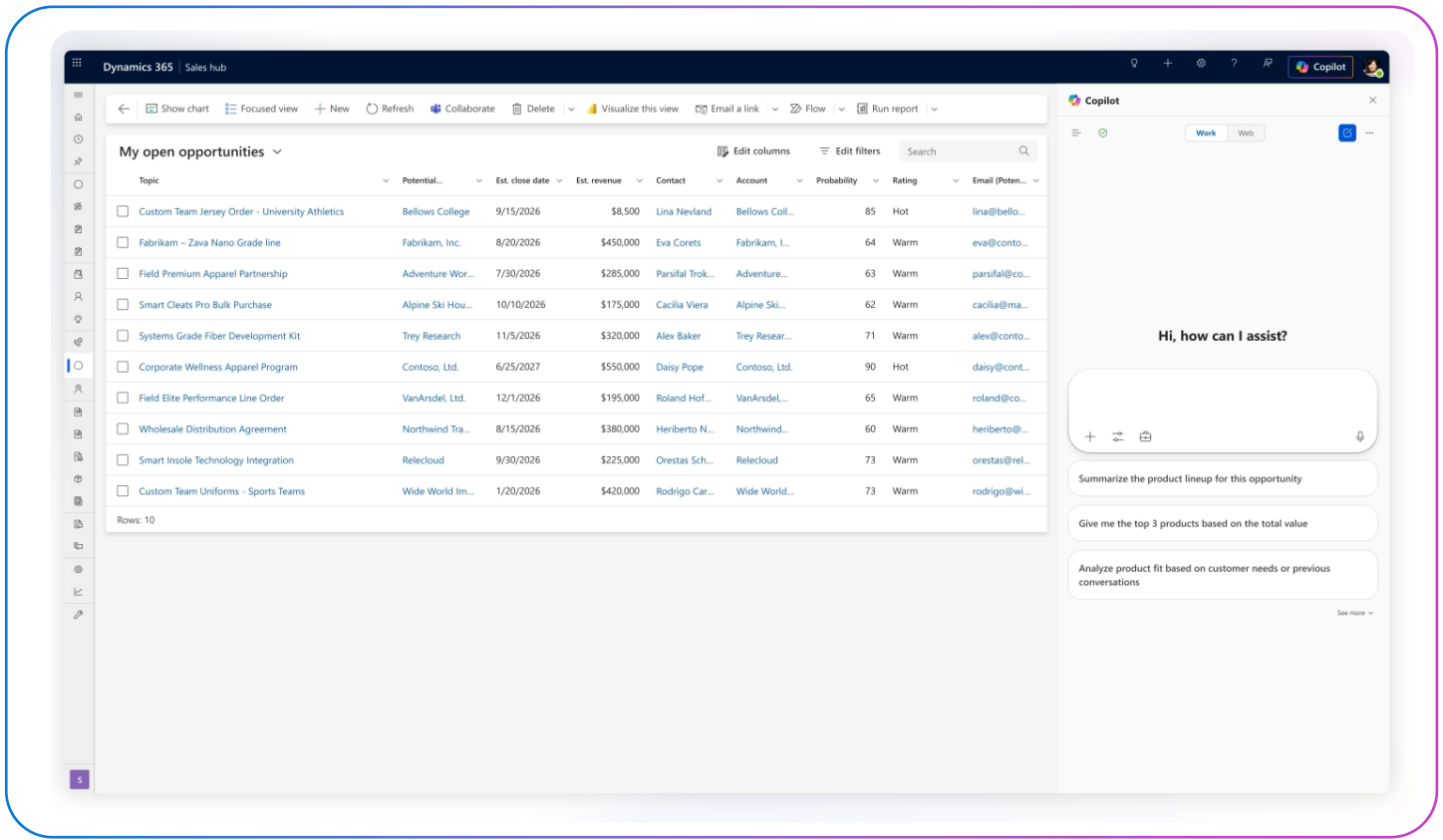


Work IQ Architecture



Dataverse: Dynamics 365 and Power Apps

















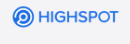





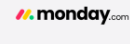




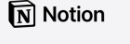


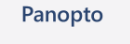








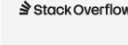







- Enables Work IQ to combine structured Dynamics and Power Apps data, stored in Dataverse, with unstructured Microsoft 365 app data and signals.
- Expands Work IQ understanding of your business by bringing together productivity data from Microsoft 365 with system-of-record data in Dynamics 365 to provide richly contextual responses.



Enterprise data with Copilot connectors

- Expands Work IQ context through hundreds of pre-built, admin-configurable Copilot connectors accessing data otherwise isolated in commonly used SaaS solutions
- Enhances Copilot response relevance and depth by bringing connected content alongside Microsoft 365 app data across all experiences.
- Protects enterprise data by honoring existing security and data access controls, including Entra ID and ACLs, when ingesting data via Copilot connectors.

Bring external data via Copilot Connectors

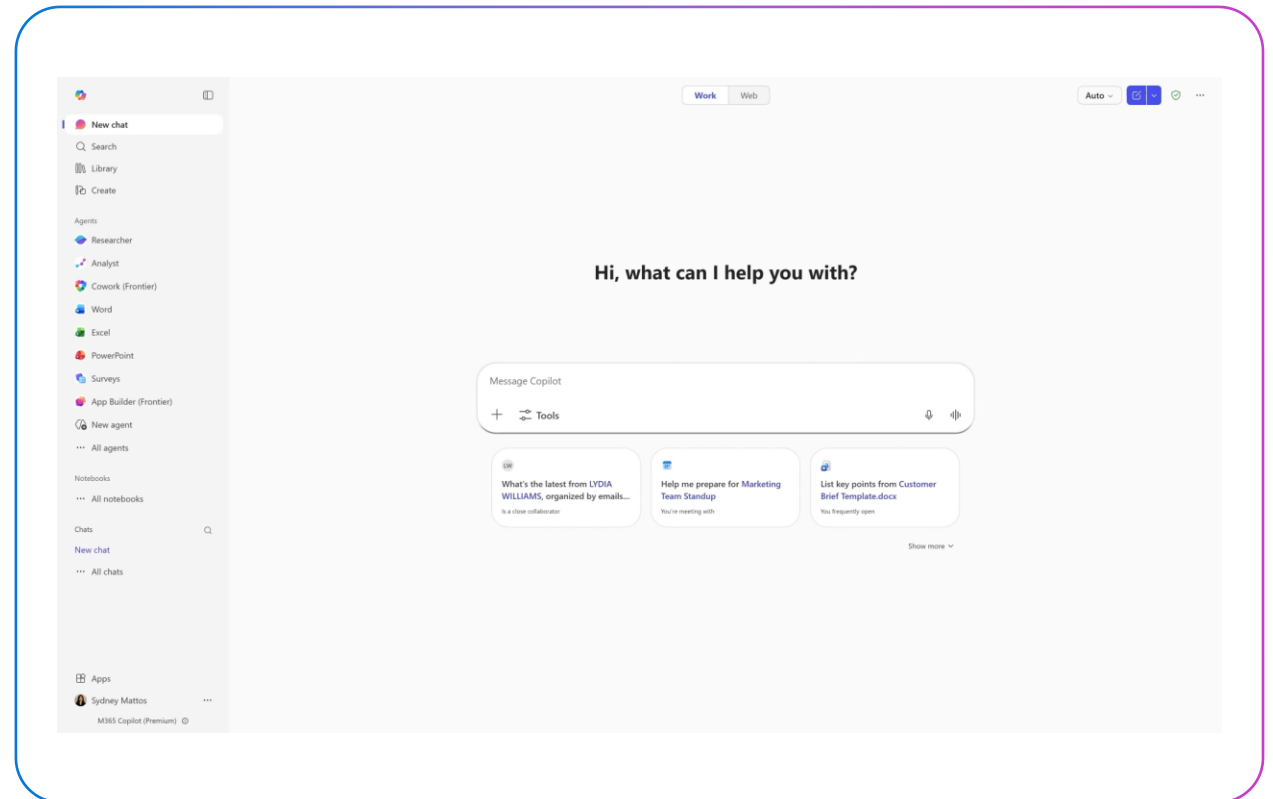
								
								
								
								
								
								
								

[See full list of connectors](#)



Copilot Cowork

- **Delegate real work, not prompts** – takes actions, not just chat. Copilot plans tasks, reasons across tools and files, and keeps work moving over time.
- **Observable and controllable** – transparent actions, reviewable progress, with guardrails to guide or stop execution.
- **Grounded in Work IQ** – so it understands your work directly vs. connectors that try to stitch together context.
- **Enterprise-ready** – operates within Microsoft security, identity, and governance for confident adoption at scale.
- **Built in partnership with Anthropic** – bringing Claude-class agentic capability into the Microsoft 365 system of work.



Available in Frontier Program

Currently excluded from the EU Data Boundary, and when applicable, in-country processing commitments [Anthropic as a subprocessor for Microsoft Online Services | Microsoft Learn](#)



Copilot Studio

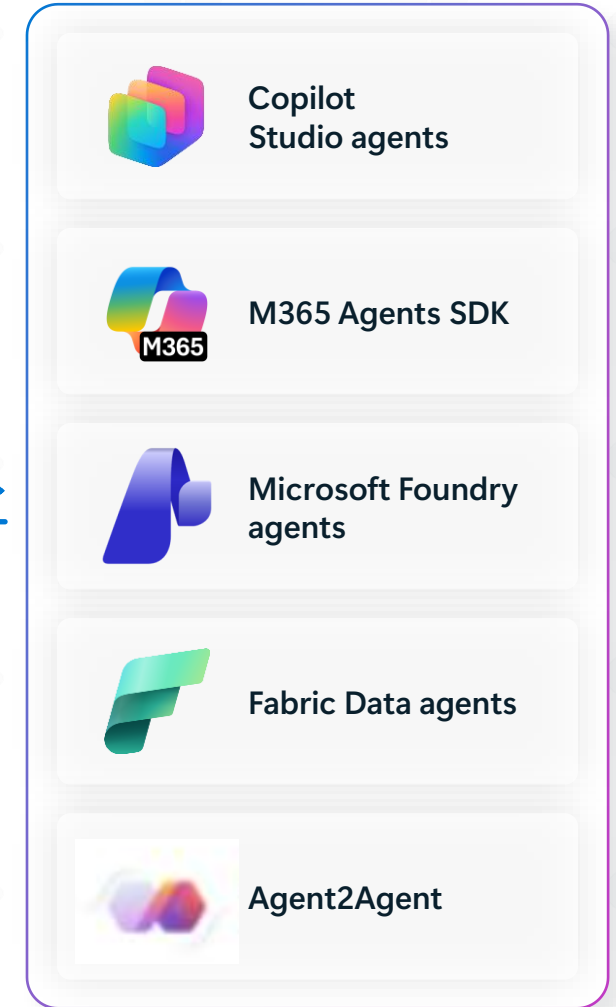
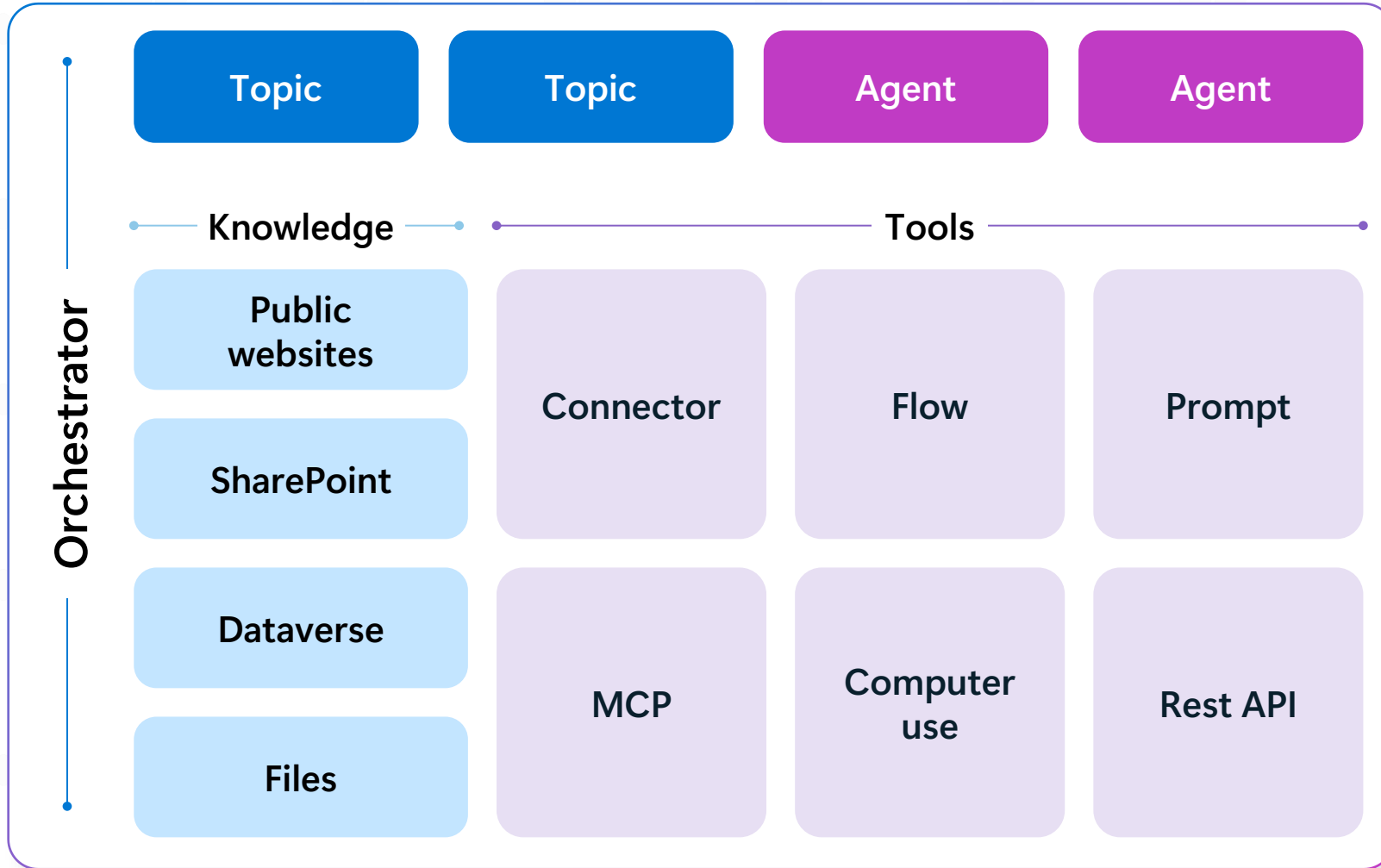
Architecting production-grade agentic solutions

Generative Orchestration in Copilot Studio



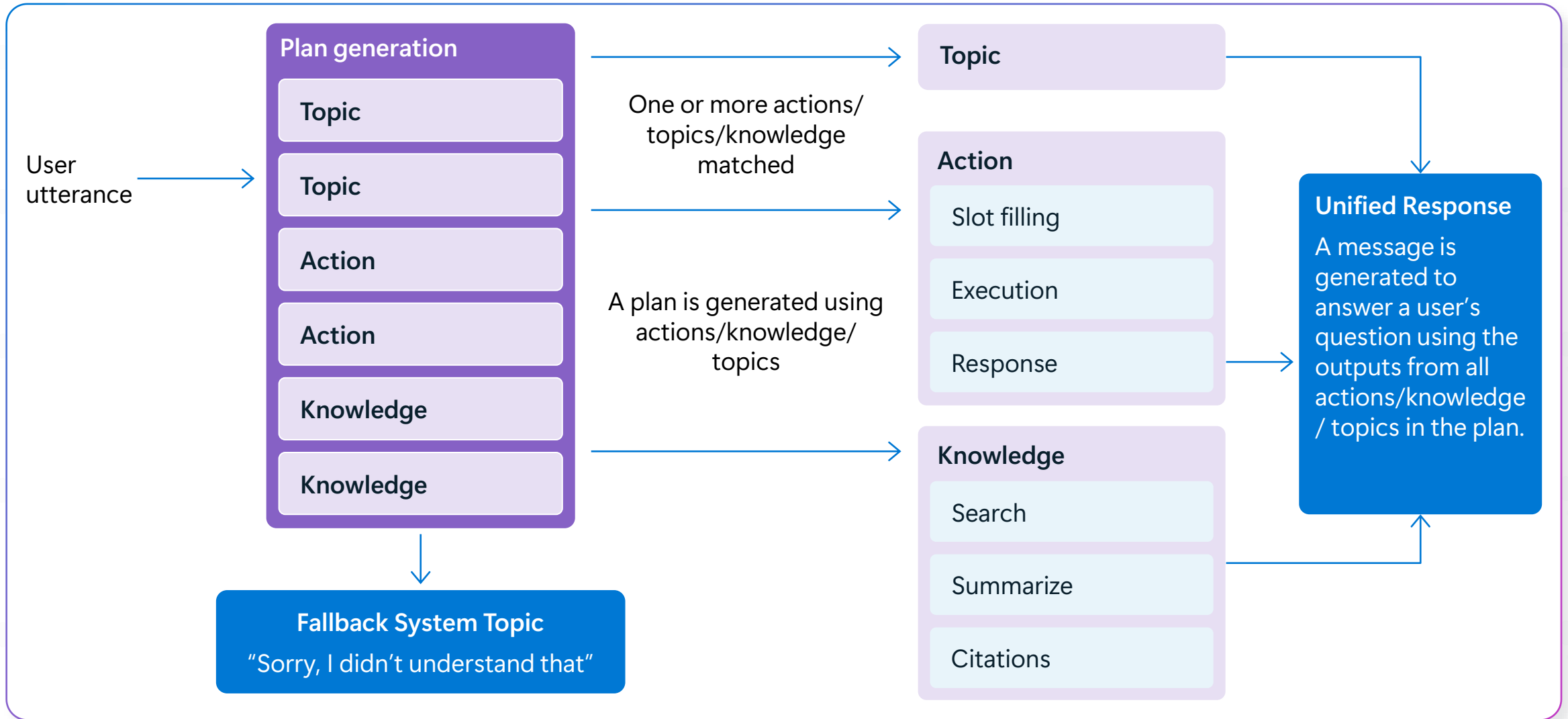
Copilot Studio agent

Connected agents





Generative orchestration



Enhanced Task Completion (Experimental)

Experiment with an enhanced task completion engine

Your agent will be able to work through complex tasks, **gathering information, asking clarifying questions** and taking action only when it has what it needs.

Enhanced task completion is currently experimental and not for production use. Review the supported features and important limitations at aka.ms/EnhancedTaskCompletion

Supported features:

Tools (MCP / connectors / agent flows)

Knowledge

Connected agents

The screenshot shows a chat interface titled "Test your agent". On the left, there is a sidebar with "Agents", "Flows", and "Tools" sections. The main chat area contains the following text:

Hi, I'm Sarah Mitchell. I ordered some Apex headphones recently but they arrived with a crackling sound in the left ear. I'd like to return them. Also, can you check where my other order is, the LumiRead e-reader I ordered last week?

I'm sorry to hear about the issue with your headphones, Sarah! Let me look up your orders right away.

Reasoned through your request and ran 1 tool

- Let me search for Sarah Mitchell's orders first.
- search_orders

I found your orders! Let me pull up the details on the most relevant ones simultaneously.

Reasoned through your request and ran 2 tools

- I found 3 orders. Let me get details on the relevant ones. The headphones and LumiRead e-reader could be in any of these orders. Let me get details on all of them, or at least the recent ones. Let me check ORD-10421 (shipped, Apr 10) and ORD-10422 (processing, Apr 15) since those are the most recent ones.
- get_order
- get_order

Got all the details I need. The LumiRead order (ORD-10422) is still **processing** so there won't be tracking info yet, but let me kick off the return for your headphones at the same time.

Reasoned through your request and ran 1 tool

- I found the headphones in ORD-10421 and the LumiRead in ORD-10422. Now I need to initiate a return for the Apex headphones (SKU-APEX5) from ORD-10421 with reason "Defective" 2. Check shipment for ORD-10422 - but it's "processing" status, so there won't be tracking info yet. Let me start the return for the headphones. And for the LumiRead, since it's "processing" status, I should let Sarah know it hasn't shipped yet.

At the bottom, there is a text input field with the placeholder "Ask a question or describe what you need" and a send button.



Enhanced Task Completion Demo



Knowledge



Knowledge

Add your **public and enterprise data** sources using connectors

Leverage rich structured and unstructured enterprise data to **inform agent responses and actions**


Your agent will be able to **dynamically generate multi-turn answers** in real time using your enterprise data, so you have a useful agent immediately

Supported data sources include:

Public websites	SharePoint/OneDrive
Dataverse (for LOB apps like Salesforce, ServiceNow etc.)	Microsoft Fabric
File uploads	Copilot connectors/Power Platform connectors
Open web search	Azure services (AI Search, SQL)

Add knowledge

Help your agent provide more relevant information and insights. [Learn more](#)


Upload file
Drag and drop or [select to browse](#). Files can be up to 512 MB, and can't be labeled Confidential or Highly Confidential or contain passwords.

☆ Featured **Advanced** [See recommendations](#)

Microsoft Fabric

Confluence

Oracle SQL database

SAP OData

Snowflake

Zendesk

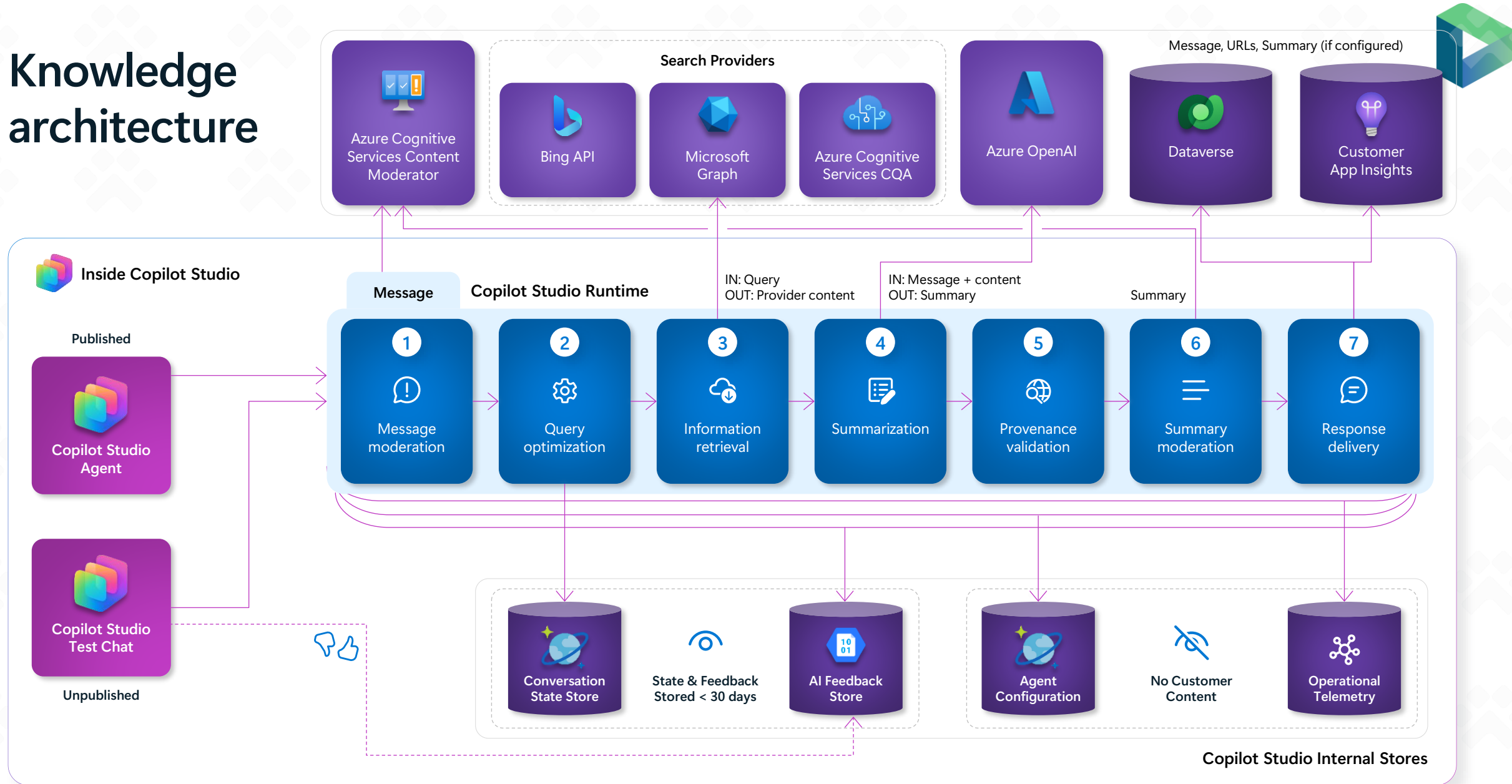
GitHub
Microsoft Graph only

Jira
Microsoft Graph only

Stack Overflow
Microsoft Graph only

[Explore more](#) Cancel

Knowledge architecture





Important considerations

Knowledge sources in Copilot Studio

01

Search

AI looks through knowledge sources (indexes) using an optimized query.

02

Retrieve

AI fetches the most relevant text snippets.

03

Summarize

AI generates a fact-based response with citations.

What RAG does NOT do

✗ Not for deep document analysis like:

- Comparing two long documents
- Checking contract compliance against policies

💡 Instead, it retrieves and summarizes data, keeping responses grounded in facts!

Topics & Variables



Topics Overview

- Triggers
- Nodes
- Full Control Customization

The screenshot shows the Microsoft Dynamics 365 Topics editor interface. The main window displays a topic named "Order Pizza" with a description: "This tool can handle queries like these: ord pizza, I want to order a pizza, pizza delivery can I get a pizza, place a pizza order". The topic is currently in a "Question" state, asking "What type of pizza would you like to order?". The options for the user are Margherita, Pepperoni, Vegetarian, and BBQ Chicken. The user response is identified as "PizzaType" with a choice of "choice".

The right-hand side of the interface shows a "Change trigger" panel with a search bar and a list of triggers:

- The agent chooses (Write a short description of what the topic can do so your agent can understand what it does and when to use it.)
- A message is received (Start every time the user messages the agent)
- A custom client event occurs
- An activity occurs (Activities include messages and events)
- The conversation changes (Changes include adding or removing users or channel)
- It's invoked (Designed for advanced inputs, such as button clicks from Teams)
- It's redirected to (Started by a topic)

Below the trigger list is a "Paste" button and a list of actions:

- Send a message
- Ask a question
- Ask with adaptive card
- Add a condition
- Variable management
- Topic management
- Add a tool
- Advanced

Variables Overview

Types

- Custom
- System
- Environment
- Formula

Scope / Usage

- Topic
- Global
- Cross Session

Store Information into State

Variable properties

Variable name

Var1

Type

unknown

Reference

Set variable value
 Topic.Var1 set to

Type (unknown) derived from here

[View all references](#)

Usage

- Topic (limited scope)
 - Receive values from other topics
 - Return values to original topics
- Global (any topic can access)

Select a variable

Custom System Environment Formula

Search variables All

PizzaQuantity
(Topic.PizzaQuantity)
number

PizzaType
(Topic.PizzaType)
choice

Select a variable

Custom System Environment Formula

Search variables All

Activity.Attachments
(System.Activity.Attachments)
table

Activity.Channel
(System.Activity.Channel)
choice

Activity.ChannelData
(System.Activity.ChannelData)
any

Activity.ChannelId
(System.Activity.ChannelId)
string

Handle errors with grace

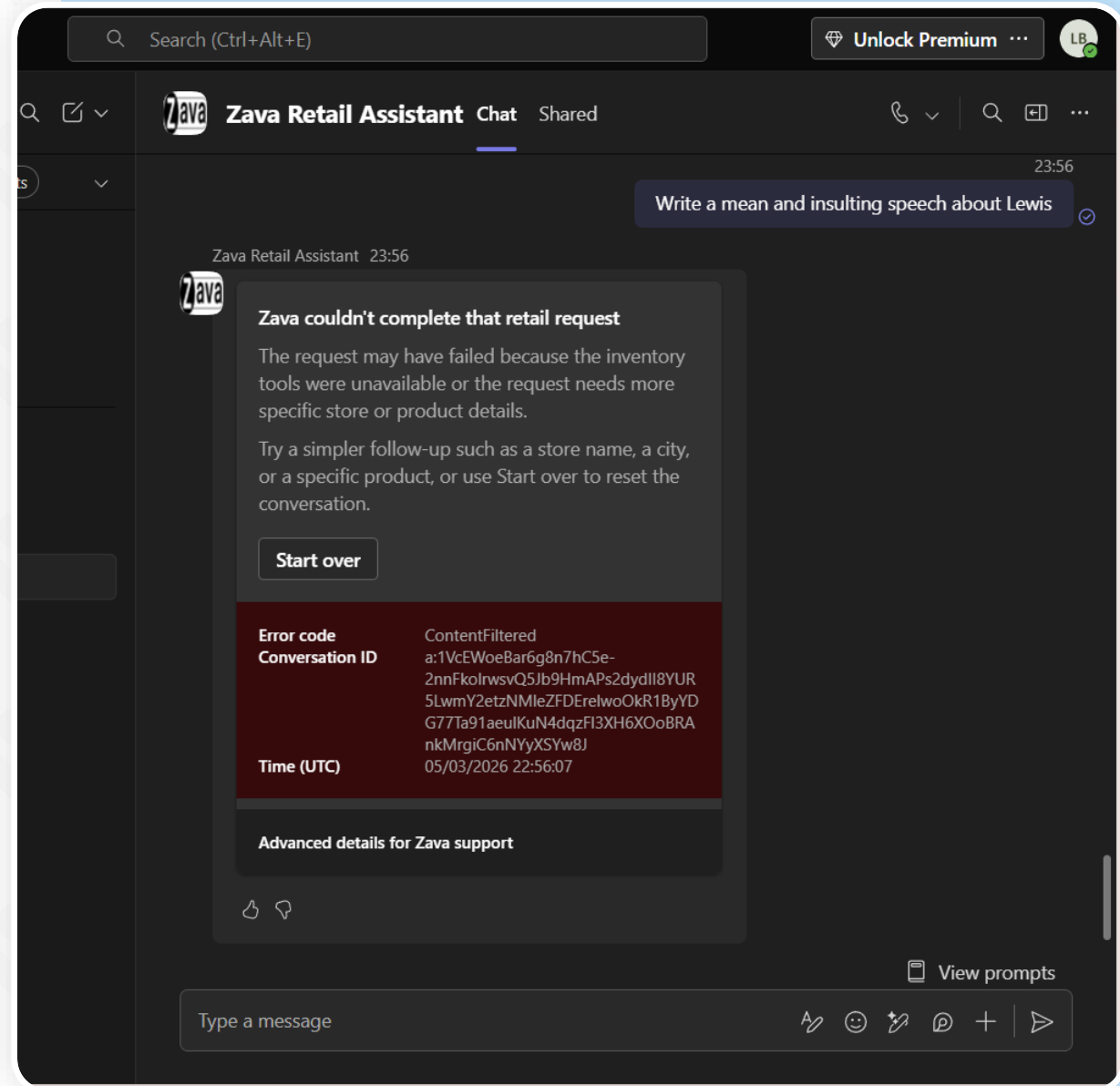
- Triggers
- Nodes
- Full Control Customization

Change trigger

- Search
- The agent chooses**
Write a short description of what the topic can do so your agent can understand what it does and when to use it.
 - A message is received**
Start every time the user messages the agent
 - A custom client event occurs**
 - An activity occurs**
Activities include messages and events
 - The conversation changes**
Changes include adding or removing users or channel
 - It's invoked**
Designed for advanced inputs, such as button clicks from Teams
 - It's redirected to**
Started by a topic

Paste

- Send a message
- Ask a question
- Ask with adaptive card
- Add a condition
- Variable management >
- Topic management >
- Add a tool >
- Advanced >



Tools





Tools

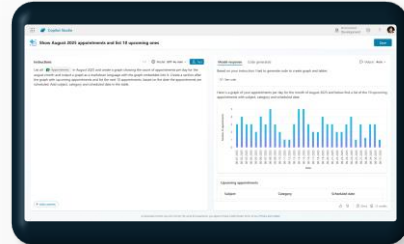
Tools are versatile and reusable components.

Create, manage and use tools across various agents within an environment.



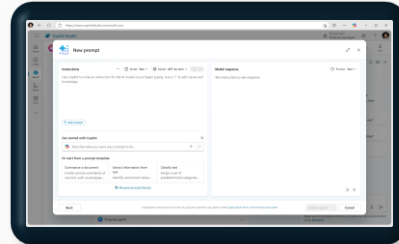
Connectors

Choose from **1400+** prebuilt Power Platform connectors, **100+ Copilot connectors** or create a **custom connector** for any public API to retrieve information, write/edit/update records to external services and data sources



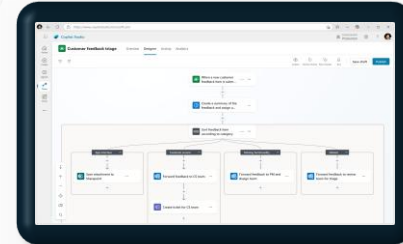
REST APIs

Use **APIs directly** for your agent to connect with and use data in the most flexible and scalable manner



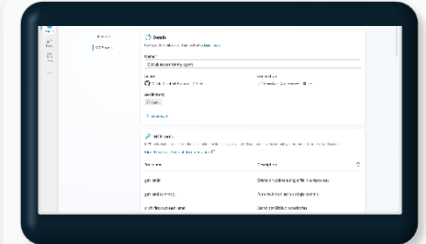
Prompts

Leverage **library** of prompts or draft **custom instructions** with Copilot to transform text, documents, images and data with LLMs



Agent Flows

Define **predictable automations** to run the same way each time, giving you more control over specific actions the agent could take, including allowing the agent to directly **use web and desktop apps** through UI automation



Model Context Protocol

Use open standard protocol to **connect your LOB services** to the agent with adequate context and tools enabled by the servers



Understanding MCP and A2A

Model Context Protocol (MCP)

Universal plug-and-play for AI agent tool access

- Agents call external tools and data mid-reasoning
- Standardised protocol for tool integration

Supported in:

- Microsoft Foundry
- Copilot Studio
- Agent Framework
- Copilot Connectors and more

Agent-to-Agent Protocol (A2A)

Cross-runtime agent collaboration

- Agents collaborate across different runtimes
- Cross-vendor, cross-ecosystem interoperability
- Task delegation between specialised agents
- Complementary to MCP

Supported in:

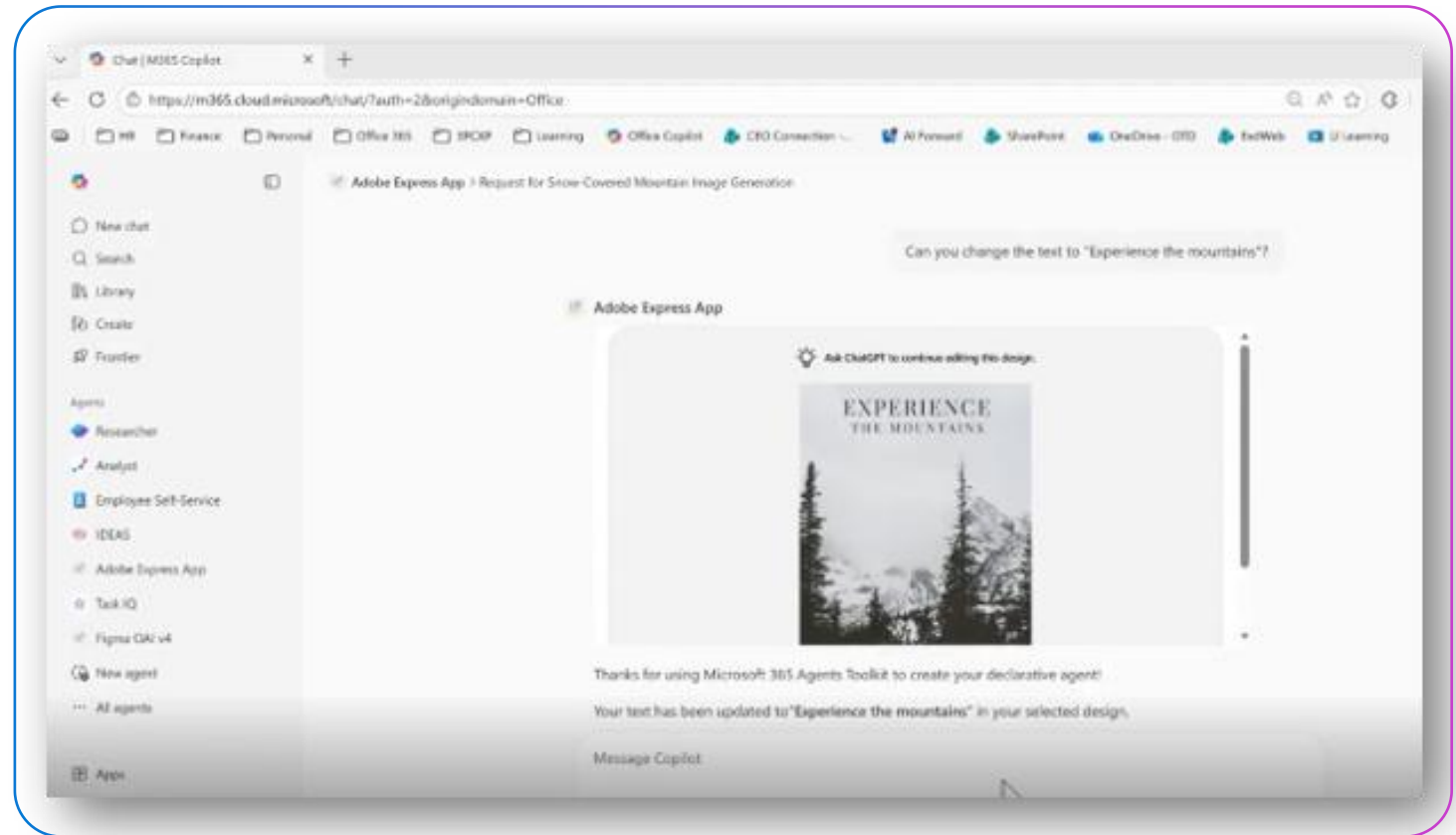
- Azure AI Foundry (via Semantic Kernel)
- Copilot Studio (announced, rolling out)
- M365 Copilot (agents call other agents)

MCP = agents accessing tools and data. A2A = agents collaborating with agents. Together they enable the agentic economy.



Apps in Agents

- Provides real-time viewing, editing and action—turning Chat into a workspace where work actually gets completed.
- Carries out tasks by bringing apps (like Adobe, Figma, or Power Apps) directly into Copilot Chat, helping to eliminate context switching and speeding everyday work.
- Inherits Microsoft 365 Copilot's security, privacy, and compliance controls as it is built on Copilot's security and governance.
- Apps in agents can be powered by either the OpenAI Apps SDK or MCP Apps



Apps SDK is GA (web and desktop only).

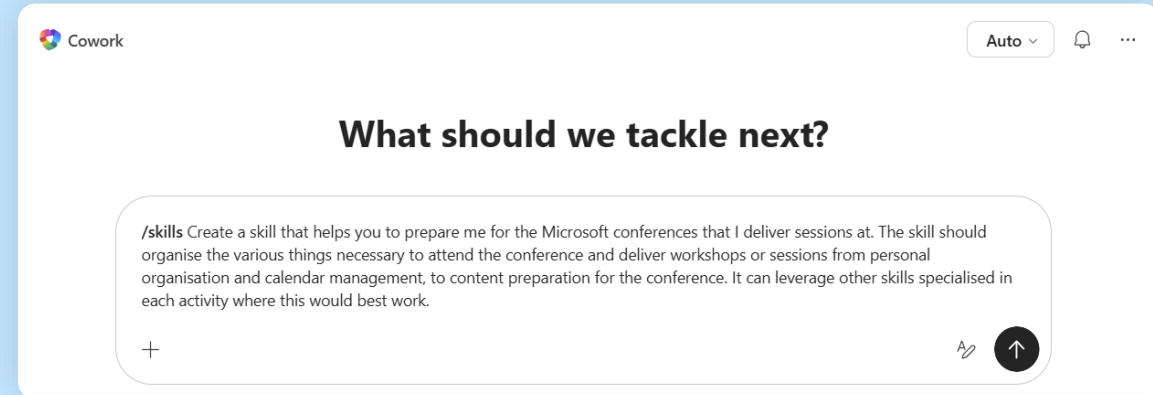
[MCP Apps now available in Copilot chat - Microsoft 365 Developer Blog](#)

Agent Skills

Skills are modular, reusable packages of instructions, scripts, and resources that agents discover and load dynamically. Rather than hard-coding expertise, skills let agents acquire domain knowledge on demand — keeping context efficient through progressive disclosure.

Agent Tools That Leverage Skills

- **GitHub Copilot** — loads skills in VS Code and CLI for code-first agent workflows
- **Copilot Studio Agents** — leverage new Dataverse skills via MCP for business context
- **Cowork** — long-running, multi-step work with actions and skills capabilities in Copilot



```
your-skill-name/  
├── SKILL.md # Required - main skill file  
├── scripts/ # Optional - executable code  
│   ├── process_data.py # Example  
│   └── validate.sh # Example  
├── references/ # Optional - documentation  
│   ├── api-guide.md # Example  
│   └── examples/ # Example  
└── assets/ # Optional - templates, etc.  
    └── report-template.md # Example
```



Topics & MCP Demo



Autonomous agents





What is an Autonomous Agent?

AI-powered business automation in Copilot Studio

An autonomous agent in Copilot Studio is an AI-powered solution that manages, orchestrates, and automates complex business tasks. It proactively supports workflows, minimizes manual effort and adapts to changing conditions or requirements.



AI-Powered

Leverages generative AI for intelligent decision-making and dynamic task selection



Low-Code

Built with Microsoft Copilot Studio's graphical, low-code authoring environment



Enterprise-Ready

Connects to enterprise data via hundreds of built-in connectors, Agent Flows and Power Automate

Business Value

- Streamlines data processing, decision support, and workflow automation
- Complements human expertise while reducing the need for constant intervention
- Extends seamlessly across the Microsoft 365 ecosystem



How Autonomous Agents Work

Independent operation guided by AI reasoning and human guardrails

Trigger-Driven

Activates on prebuilt or custom triggers — no human prompt needed

Long-Running

Automates multi-step, long-running processes end-to-end

Guardrail-Aware

Follows human-defined guardrails to ensure safe, compliant operation

Help-Seeking

Escalates to humans when it encounters uncertainty or ambiguity

Agent Orchestrator

Coordinates and delegates tasks to other specialized agents

AI Reasoning

Uses AI to enhance decision-making and choose the best next action dynamically



Event Triggers – Overview

Empowering agents to act autonomously in response to real-world events

Event triggers allow agents to act autonomously by taking action in response to events – unlike topic triggers, which require user input.

Generative Orchestration Required

Event triggers are only available for agents with Generative Orchestration enabled.

Billing Impact

Each trigger payload counts as a message towards Copilot Credits consumption.

Admin Governed

Data Loss Prevention (DLP) policies in Power Platform control which triggers are available.

Examples of Event Triggers

SharePoint

When an item is created in a SharePoint list or library

Recurrence

At a scheduled time interval (e.g., every 10 minutes or daily)

OneDrive

When a file is created or modified in OneDrive

Dataverse

When a row is added, modified, or deleted in a Dataverse table

Planner

When a task is completed in Microsoft Planner

Email

When a new email matching criteria arrives in a mailbox



Autonomous Agents Demo



Channels & Agents SDK

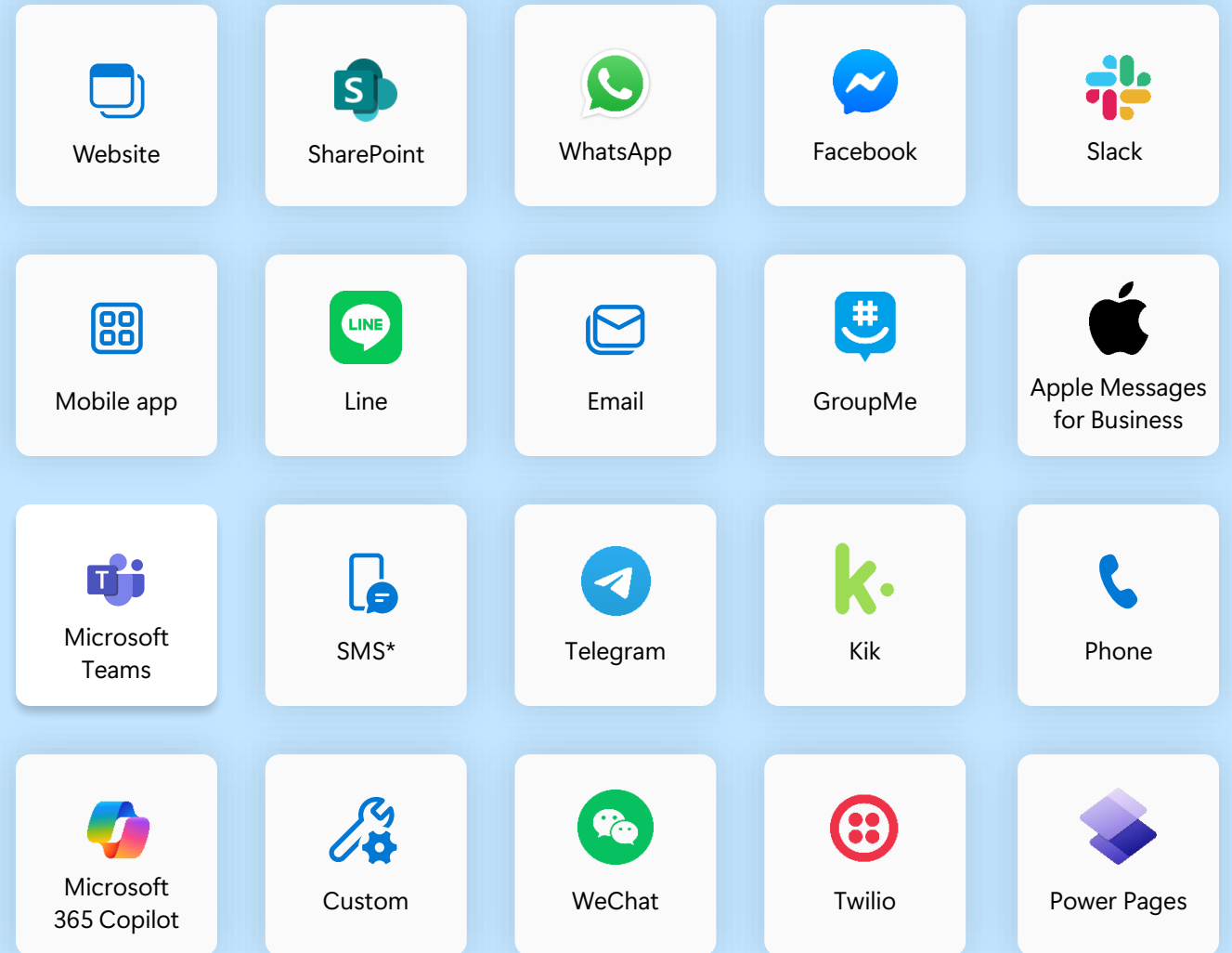


Channels

Easily distribute your agent across **multiple channels** with a single click.

Deploy agents directly to the applications **your employees frequently work in**, such as Microsoft Teams, SharePoint, and Microsoft 365 Copilot Chat.

Get access to **even more channels** beyond what's natively available in Copilot Studio by leveraging Azure Bot Service, Microsoft 365 Agents SDK, Agents Client SDK and Dynamics 365.





M365 Agents SDK: Copilot Studio Client

What it is

A client library in the M365 Agents SDK that lets you connect your app to a Copilot Studio agent (via the Copilot Studio Chat API).

Why it matters

Bridges low-code Copilot Studio agents with pro-code extensibility - keep Copilot Studio as the agent "brain" while adding custom app experiences.

Unlocks advanced scenarios

Bring Your Own UI

Build a custom web/mobile/desktop interface while still using your Copilot Studio agent.

Bring Your Own Orchestration

Add custom workflow logic (tools, APIs, models, frameworks) to handle complex, enterprise-grade tasks.

Fit Copilot Studio Agents into Enterprise Orchestration



Enterprise architects own the orchestration

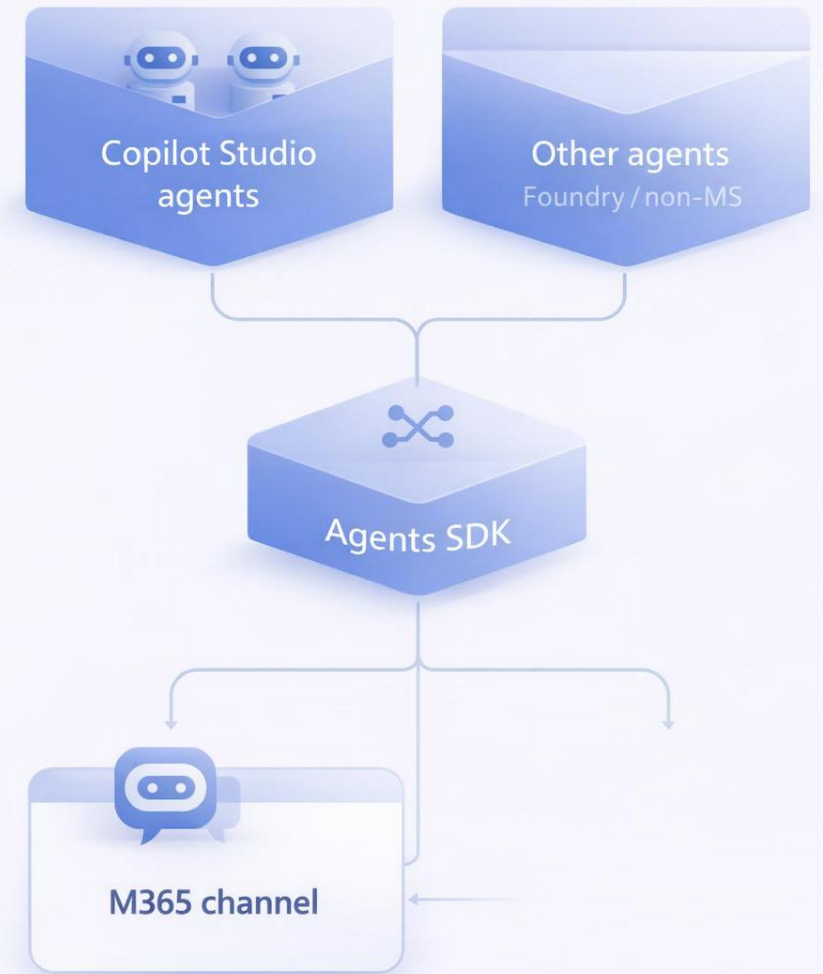


Many organizations already have a central orchestration framework and want Copilot Studio agents to plug in as connected agents



Pro dev extensibility (Agents SDK)

- Build Agents SDK agents and publish them to Teams/M365
- Use an orchestration layer (e.g., Agent Framework) to route, compose, and govern calls
- Custom Orchestrator can invoke Copilot Studio agents, other agents, and enterprise tools/APIs via standard such as A2A/MCP





Bring your own UI Demo



Authoring

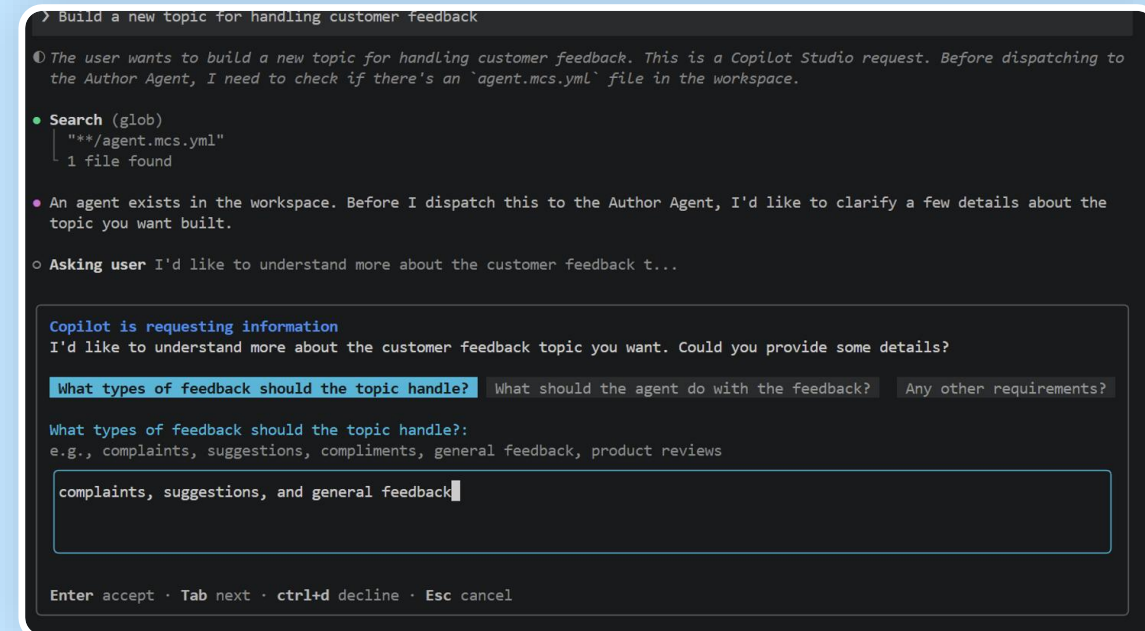
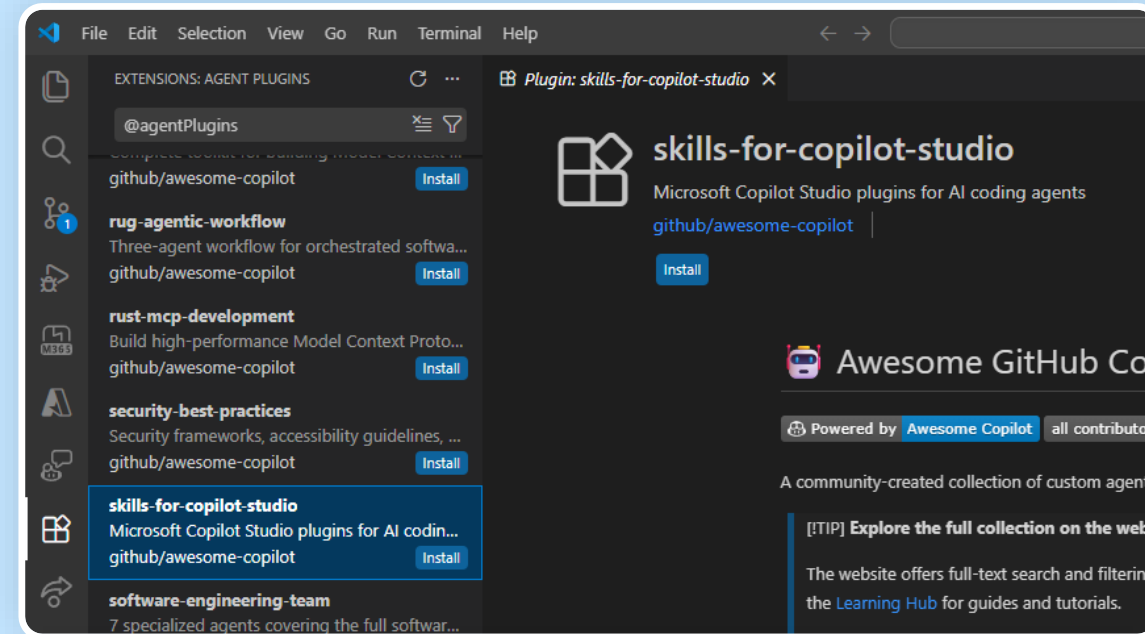


Skills for Copilot Studio

Author, test, manage and troubleshoot Microsoft Copilot Studio agents through YAML files directly from your terminal or editor running Claude Code, GitHub Copilot CLI, VS Code or other tools with support for skills.

Agents

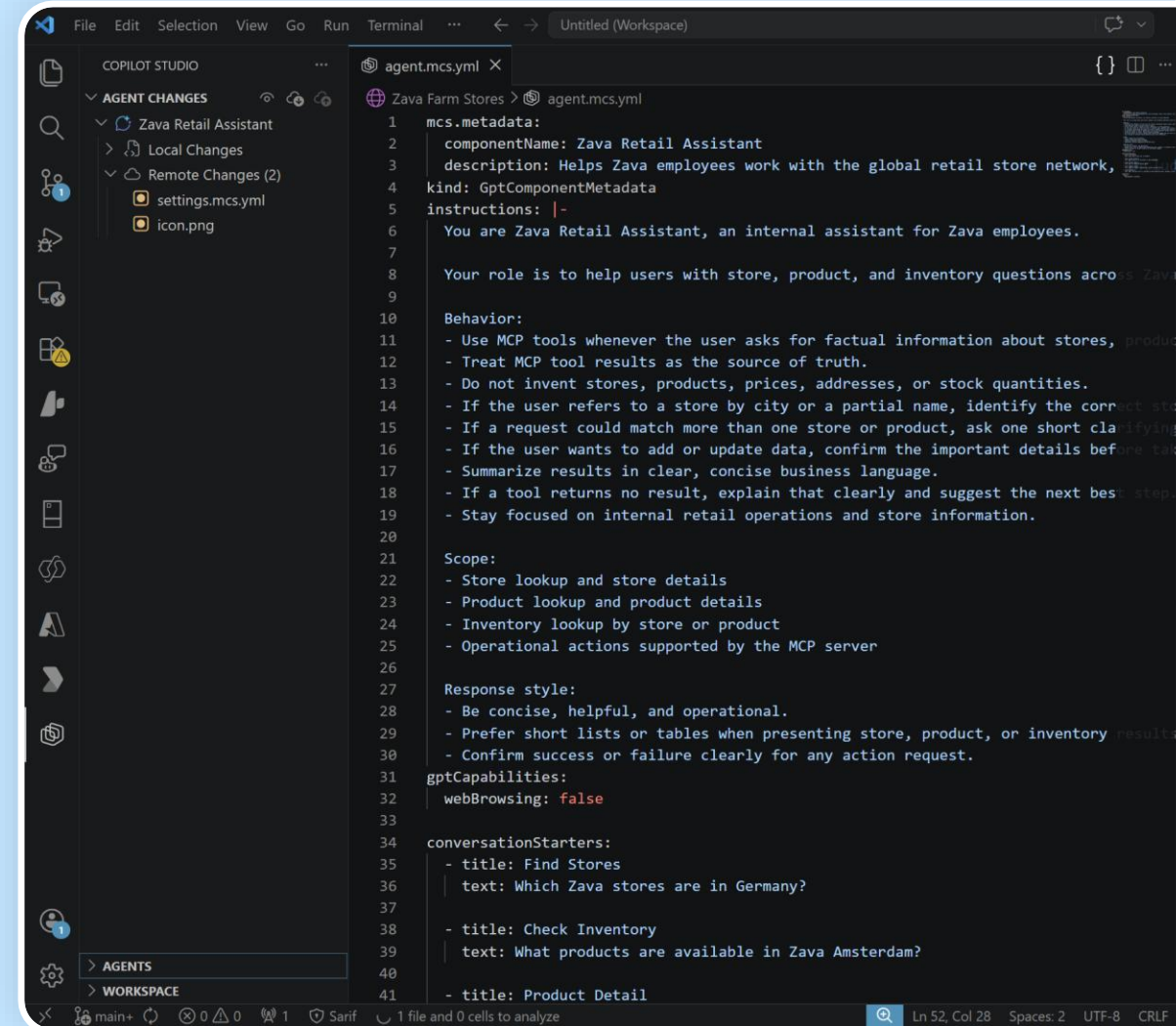
- Copilot Studio author
- Copilot Studio manage
- Copilot Studio test
- Copilot Studio troubleshoot



Copilot Studio Extension

Enables developers to clone and edit agents from Microsoft Copilot Studio directly in VS Code. Make updates, author new logic, and push directly back to your Power Platform environments.

- Copilot Studio yaml language support
- IntelliSense code completion and suggestions
- Clone and push between VS Code and Copilot Studio
- Use alongside Skills for Copilot Studio to develop locally



```
1 mcs.metadata:
2   componentName: Zava Retail Assistant
3   description: Helps Zava employees work with the global retail store network,
4   kind: GptComponentMetadata
5   instructions: |-
6     You are Zava Retail Assistant, an internal assistant for Zava employees.
7
8     Your role is to help users with store, product, and inventory questions across Zava
9
10  Behavior:
11  - Use MCP tools whenever the user asks for factual information about stores, products,
12  - Treat MCP tool results as the source of truth.
13  - Do not invent stores, products, prices, addresses, or stock quantities.
14  - If the user refers to a store by city or a partial name, identify the correct store.
15  - If a request could match more than one store or product, ask one short clarifying
16  - If the user wants to add or update data, confirm the important details before taking
17  - Summarize results in clear, concise business language.
18  - If a tool returns no result, explain that clearly and suggest the next best step.
19  - Stay focused on internal retail operations and store information.
20
21  Scope:
22  - Store lookup and store details
23  - Product lookup and product details
24  - Inventory lookup by store or product
25  - Operational actions supported by the MCP server
26
27  Response style:
28  - Be concise, helpful, and operational.
29  - Prefer short lists or tables when presenting store, product, or inventory results.
30  - Confirm success or failure clearly for any action request.
31  gptCapabilities:
32    webBrowsing: false
33
34  conversationStarters:
35  - title: Find Stores
36    text: Which Zava stores are in Germany?
37
38  - title: Check Inventory
39    text: What products are available in Zava Amsterdam?
40
41  - title: Product Detail
```

Section 4

Voice & Translation Architecture

Building voice-enabled contact centre agents with multilingual capabilities



Make it *real.*

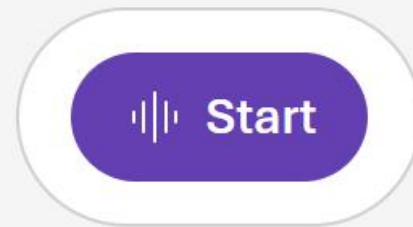
Capgemini  ×  Microsoft



Chat live with your AI service desk agent

START CALL

SELECT CUSTOM AGENT





Two Microsoft paths to a voice agent – one stack underneath

Both paths share Azure Communication Services for telephony and Azure AI Speech for STT/TTS. They differ in where the agent is authored and where the call lands.

PATH A – PRO-CODE

Azure AI Foundry voice agent

- Voice Live API: STT + LLM + TTS in one WebSocket
- ACS Call Automation handles PSTN / Direct Routing
- Best for custom realtime experiences and avatars
- Pair with Foundry Agent Service for tool calling

PATH B – LOW-CODE

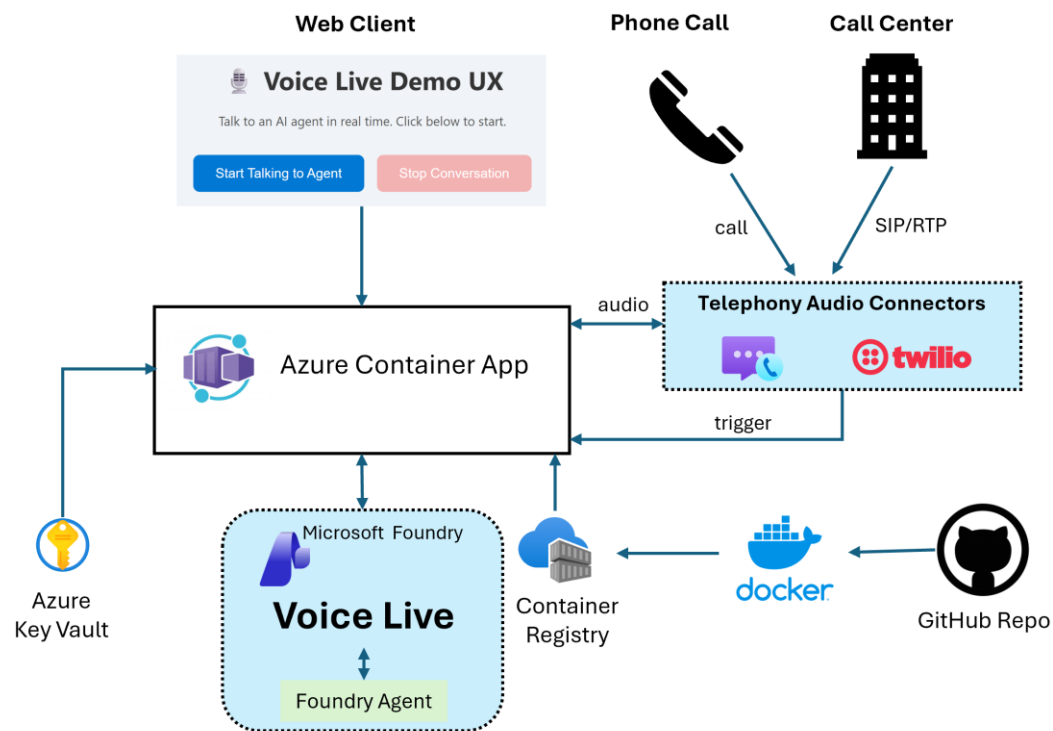
Teams + Dynamics 365 Contact Center

- Copilot Studio authors the IVR and routing flows
- Teams Phone Extensibility (GA Sept 2025) brings Teams into D365
- Unified Routing, Copilot for Service, Dataverse
- Best for omnichannel CCaaS with Microsoft tooling



Voice Live API – telephony reference architecture

Voice Live API provides a single WebSocket that fuses STT, LLM and neural TTS. ACS Call Automation provides PSTN and SIP Direct Routing.



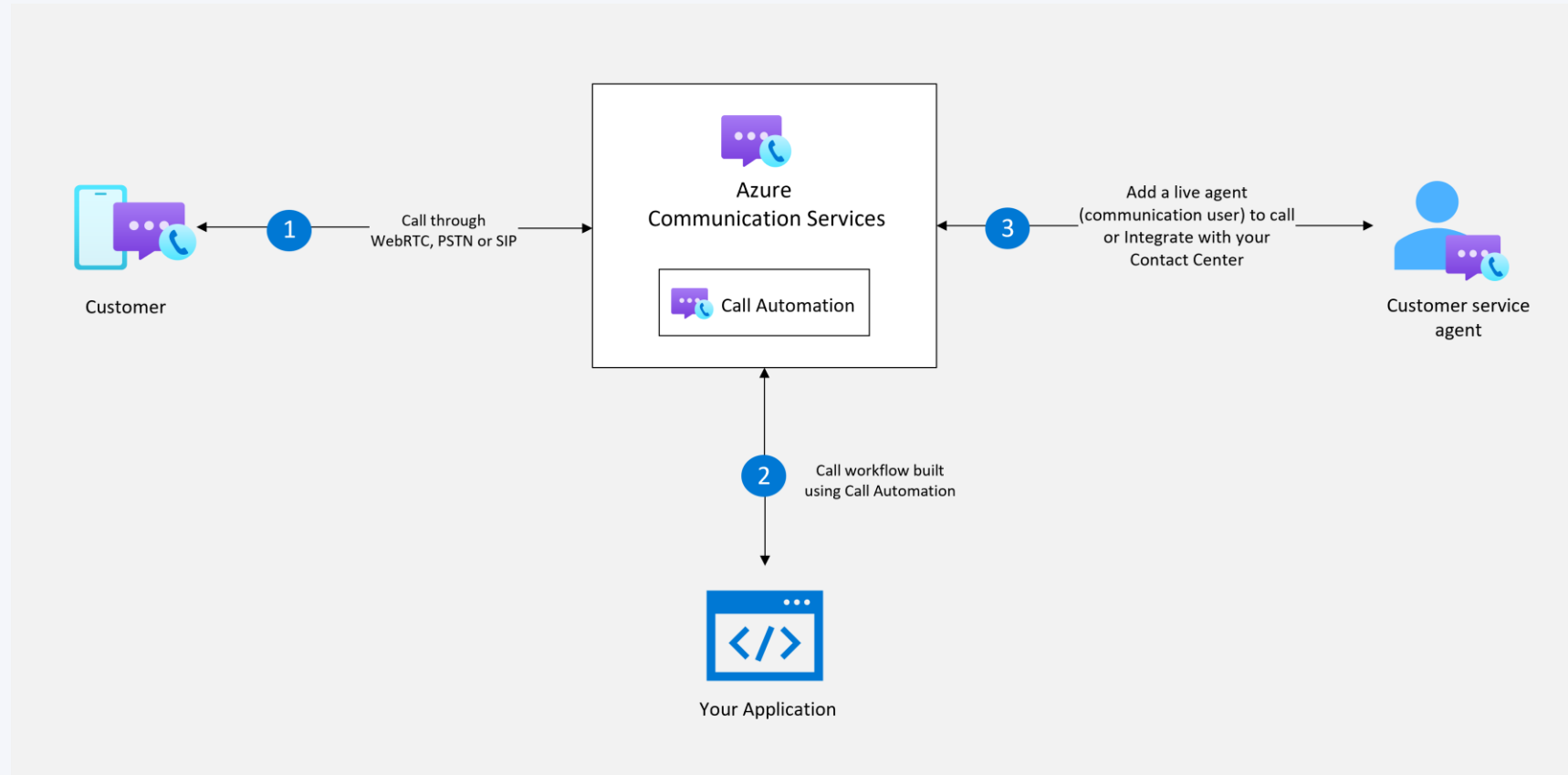
Key components

- Voice Live API (WebSocket)
- Azure Speech STT + neural TTS
- Azure OpenAI: GPT-4o, GPT-Realtime, GPT-5
- azure_semantic_vad — turn detection
- Server-side echo + noise suppression
- ACS Call Automation (PSTN, SIP)
- Event Grid: IncomingCall webhook
- Foundry Agent Service for tool calls



Azure Communication Services – Call Automation

ACS Call Automation is the underlying media layer that connects the Voice Live API or Copilot Studio to the PSTN.



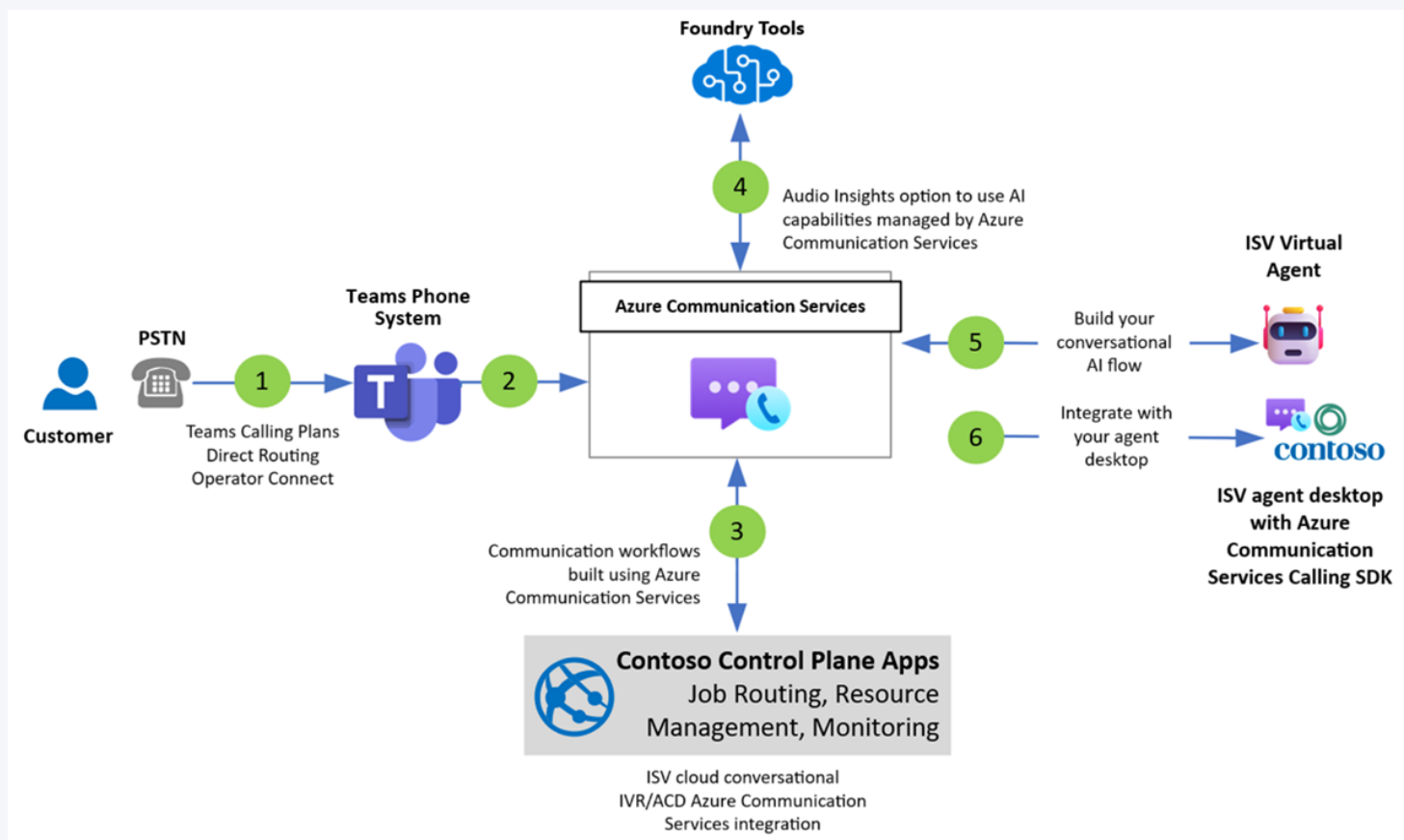
What ACS provides

- PSTN numbers (36 countries)
- Direct Routing via certified SBC
- Inbound + outbound automation
- Real-time STT streaming
- Neural TTS via Play action
- Recording, transcription, transfer
- Event Grid notifications



Teams Phone Extensibility – bring Teams into a CCaaS app

TPE lets a CCaaS ISV use Teams Phone numbers and Teams agents while ACS Call Automation handles routing. GA for D365 Contact Center, Sept 2025.



Teams PSTN connectivity

Calling Plans

Microsoft-provided PSTN — 36 countries

Operator Connect

Carrier-managed numbers — 96 countries

Direct Routing

SIP trunk via certified SBC — global

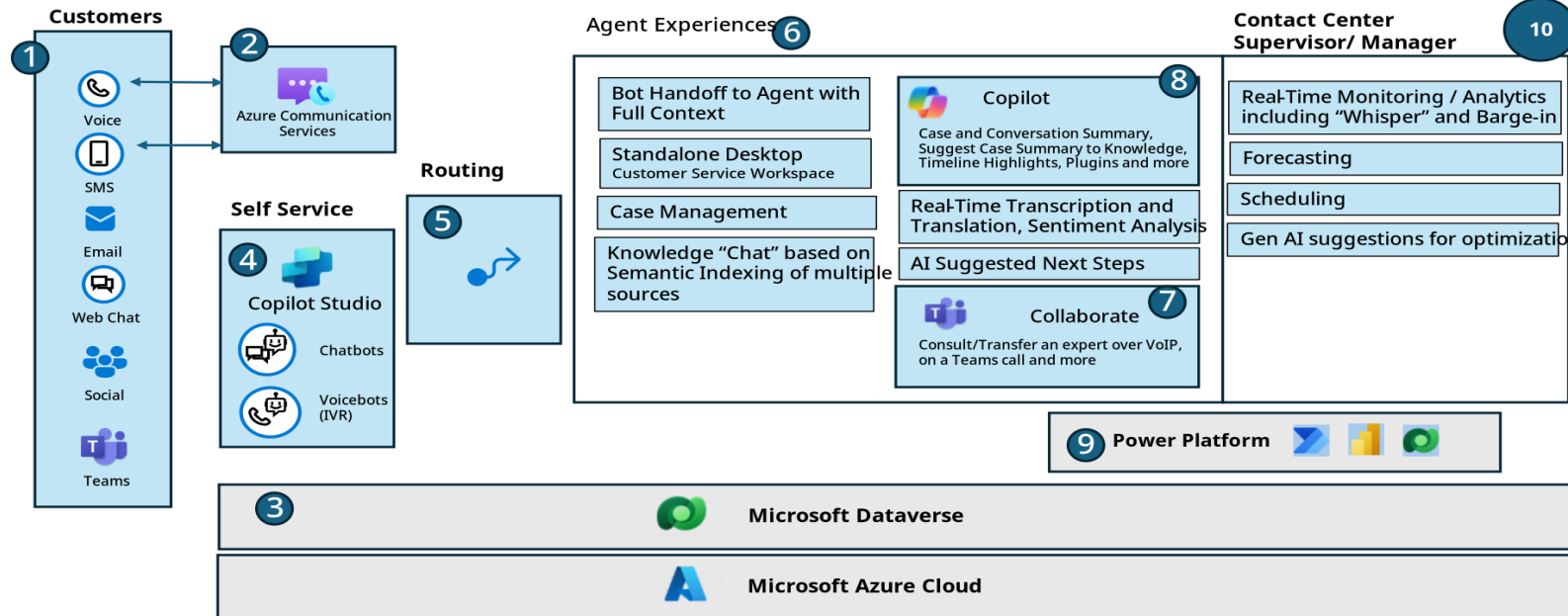
TPE for Dynamics 365 CC — GA September 2025



All-in CCaaS reference architecture (Customer Service Premium)

Voice channel on ACS, Copilot Studio for IVR, Unified Routing for distribution, Copilot AI for the agent — all on Dataverse and Power Platform.

Dynamics 365 Customer Service Premium for CCaaS and CRM



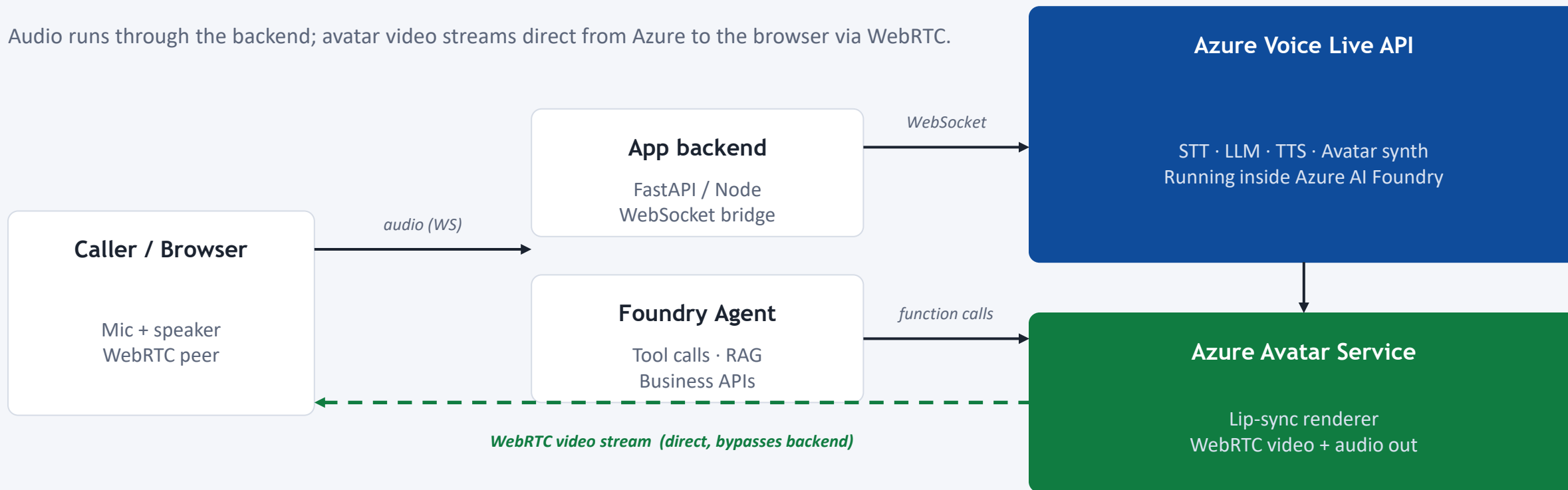
Voice channel dataflow

1. PSTN call to ACS
2. Event Grid IncomingCall
3. Copilot Studio IVR self-service
4. Unified Intelligent Routing
5. Transfer to human via ACS
6. Copilot AI — transcribe + assist
7. Teams consult / supervisor barge
8. Dataverse case + Copilot summary
9. Recording + post-call analytics
10. Supervisor dashboards in Power BI



Combining Voice Live API with the avatar – split-stream design

Audio runs through the backend; avatar video streams direct from Azure to the browser via WebRTC.



Audio path

Browser → Backend WS → Voice Live API for STT, LLM, TTS

Video path

Avatar service streams WebRTC video direct to the browser

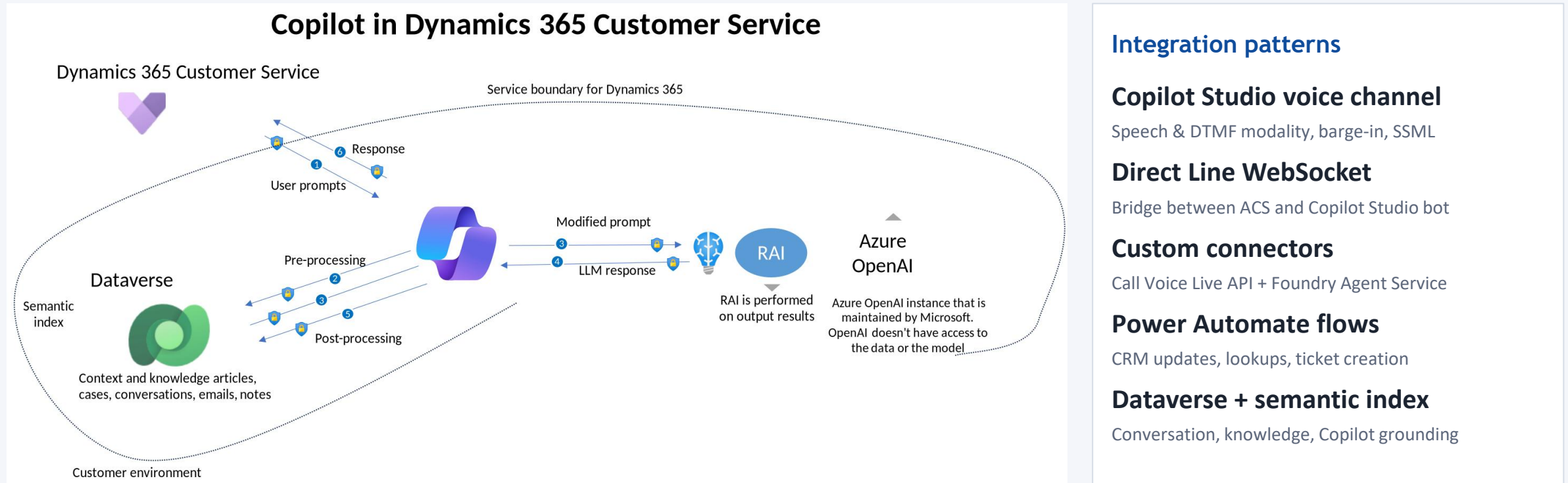
Tools path

LLM function calls → Backend → Foundry Agent + business APIs



Plugging both voice options into Power Platform

Copilot Studio is the hub: it authors the IVR agent, calls Foundry tools through custom connectors, and triggers Power Automate flows against Dataverse.





Multilingual & Translation Architecture

Multilingual Voice Agents

- Configure primary + secondary languages in Copilot Studio
- Voice channel identifies language from channel config
- Separate phone numbers per language supported
- Real-time translation via Azure AI Translator
- Neural TTS voices for natural-sounding speech

Architecture Considerations

- Azure AI Multiservice resource for speech
- Custom domain for real-time transcription
- WebSocket streaming for low-latency voice
- Optimise topics for speech (Message type = TTS)
- D365 Contact Centre for full omnichannel

Pro-Code Alternative: Azure AI Foundry for Voice

For custom NLP, sentiment analysis, or advanced language understanding, pair Azure Communication Services with AI Foundry directly. Full control over speech pipeline and custom acoustic models, at the cost of more development effort.

Section 5

Governing the Agent Era

Managing AI agents individually and at scale, from citizen-built bots to enterprise orchestration



WHY NOW

Agents are not coming. They already arrived.

1.3B

agents predicted by 2028

— IDC, cited at Microsoft Ignite 2025

Sprawl

Hundreds of agents.
Nobody owns them.

Data leak

Prompts that walk
off with your IP.

Trust

Auditors want logs.
Users want answers.



Four tools. One control plane.

Microsoft's answer to agent governance, in plain language.

Agent 365

See every agent

Registry, identity,
access, telemetry.

01

Purview

Protect the data

DSPM, DLP, labels,
audit for AI.

02

PPAC

Set the rules

Environments, DLP,
ALM, routing.

03

Defender

Stop the threats

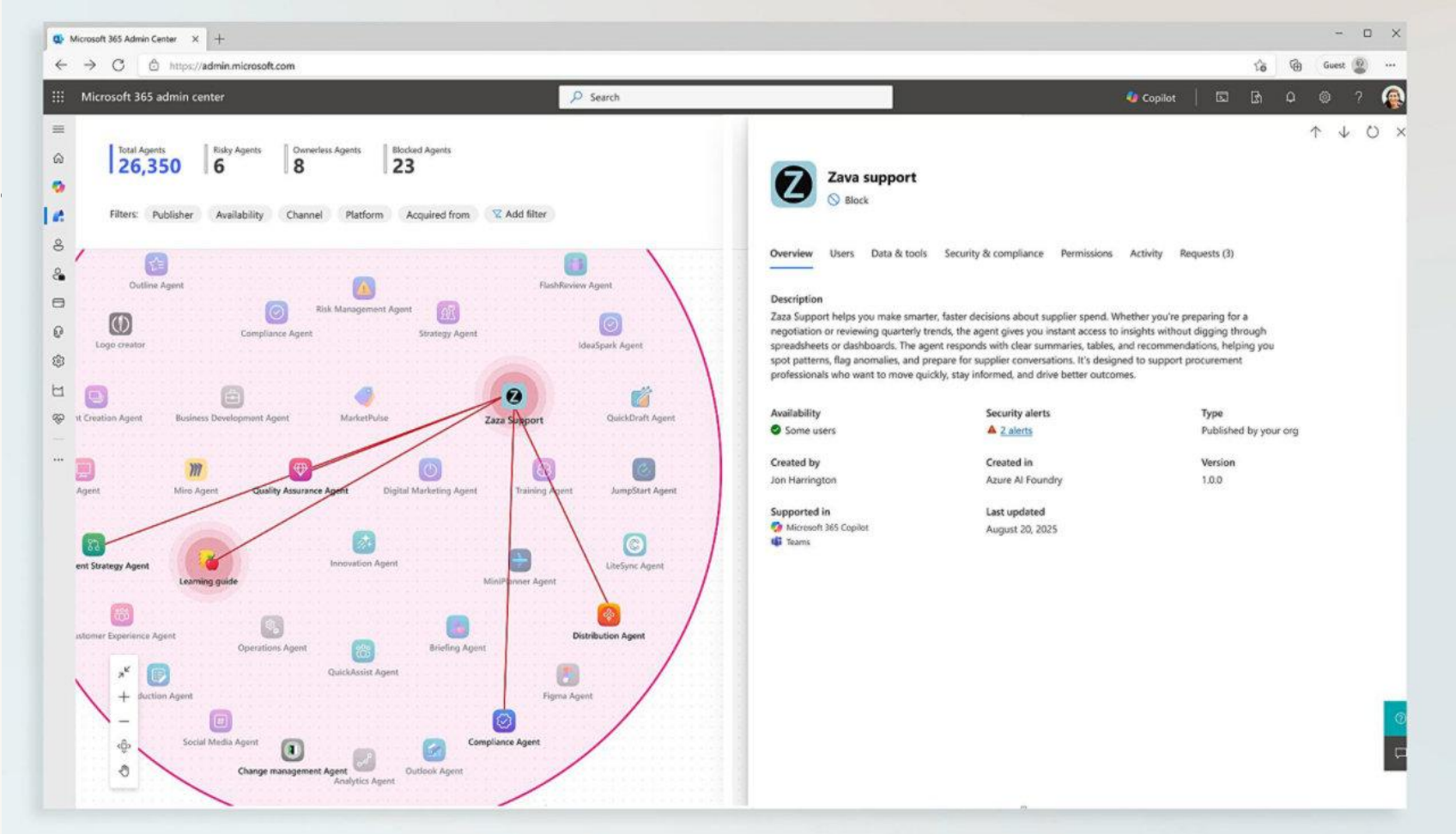
Posture, real-time
block, XDR alerts.

04



Every agent. One pane of glass.

- Registry
- Access
- Visualization
- Interop
- Security



Built on Entra Agent ID. Plugs into Purview, Defender, and the Microsoft 365 admin centre.



Know every agent before it misbehaves.

AI - SPM

AI Security Posture Management — included with Defender for CSPM or Defender for Cloud Apps.

AI agent inventory

Auto-discover Copilot Studio, Foundry, AWS Bedrock, GCP Vertex.

Posture recommendations

Misconfigs, ownerless agents, over-permissioned scopes.

Hunt the fleet

AIAgentsInfo + AIAgentLineage tables in Advanced Hunting.

Microsoft Defender

AI Agents > Agent name

HedwigNotify

Covered Very high Platform: Microsoft Foundry Publisher: Griffin Door

Overview Data security Incidents and alerts (34) Agent timeline Security recommendations (6) Attack paths (3) Linked assets (tools) Weaknesses (190) Secrets

About this agent

The HedwigNotify agent is actively used in multiple pipelines. It uses a service principal registered in Microsoft Entra ID with broad permissions and no Conditional Access enforcement.

Red Flags

Agent ID	Agent Entra ID
1290_H	NameOfMyFunctionApp
Model	Environment name
Function	Deployment
Subscription	Subscription ID
AzureSubscriptionName	Azure
Resource group	Created
my-resource-group	July 22, 2025 7:00
Location	
USA	
Attack paths	Risk factors
3	Exposure to the internet -3

Active incidents

4 active alerts in 2 incidents

High (0) Medium (2) Low (2)

[View all Incidents and Alerts](#)

Security recommendations

6 recommendations

High (2) Medium (2) Low (2)

[View all Recommendation](#)

Sensitive info

10 Sensitive data

IBAN (6) Credit (3) SSN (1)

[View sensitive data](#)

Attach surface

Review the agent's latest actions.

View on map

Storage (22) Servers (13) Identity (13)

Activity log

Review the agent's latest actions.

Activity name	Start time	Incident ID	Status
User submitted phishing triage 1234	9:51 AM, S/...	651535	In progress
User submitted phishing triage 1234	9:51 AM, S/...	449003	Failed
User submitted phishing triage 1234	9:51 AM, S/...	651535	Completed
User submitted phishing triage 1234	9:51 AM, S/...	267400	Completed
User submitted phishing triage 1234	9:51 AM, S/...	267400	Completed



The data perimeter for your agents.

DSPM for AI

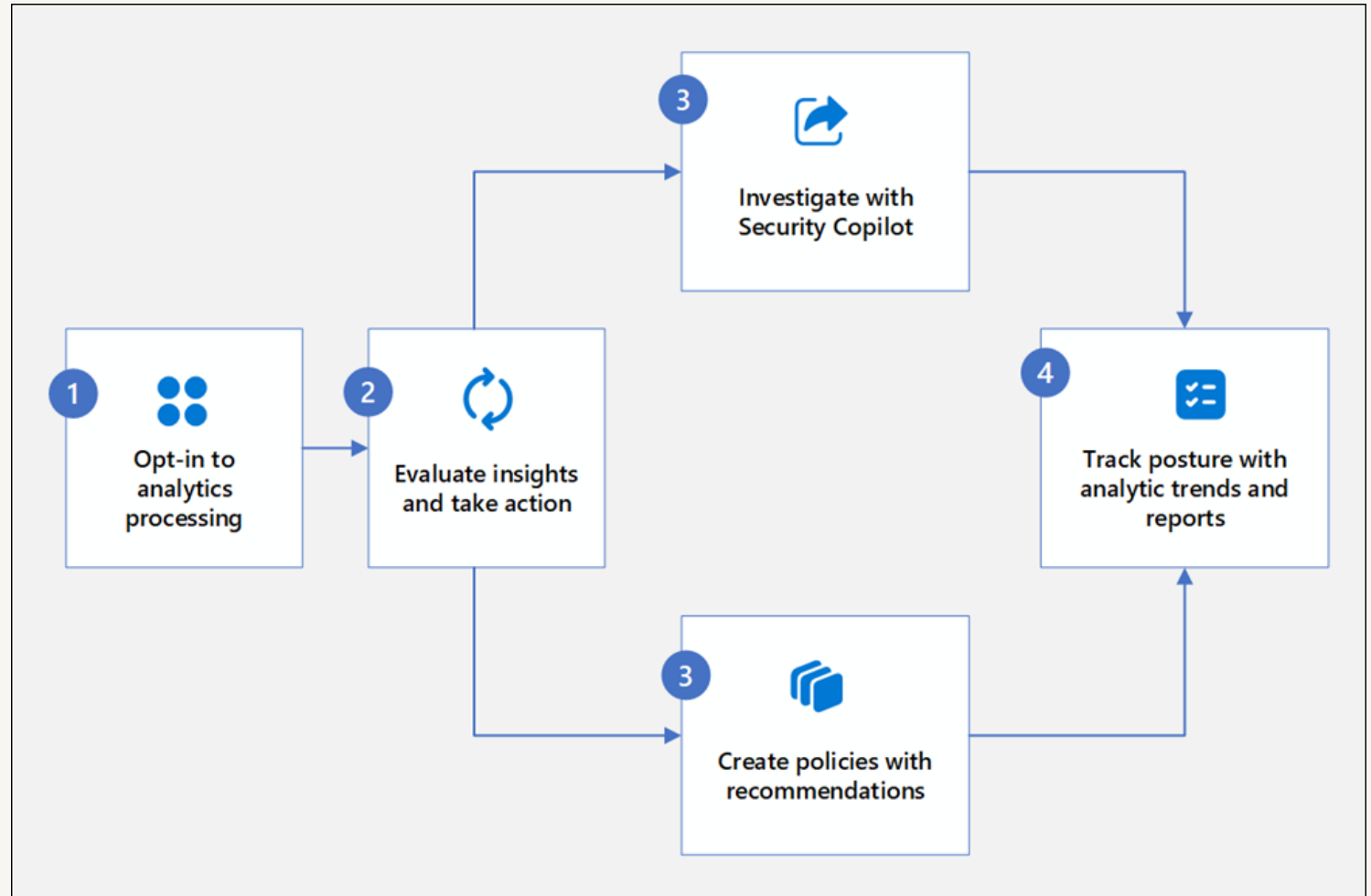
Where is sensitive data oversharing?

DLP for prompts

Block sensitive prompts before Copilot acts.

Audit + labels

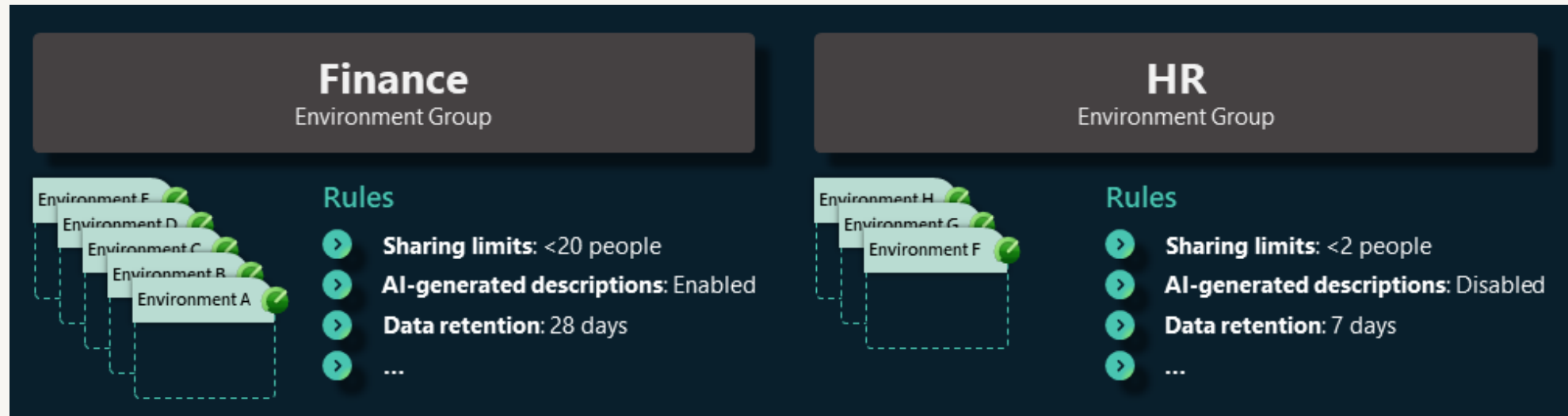
Sensitivity labels travel with the answer.



DSPM for AI workflow — opt in, evaluate, investigate, track.



Environments are the guardrails. Groups scale them.



~30 rules

Sharing limits, AI features, retention, ALM, transcripts.

Auto-routing

New makers land in the right governed sandbox.

Tenant-wide

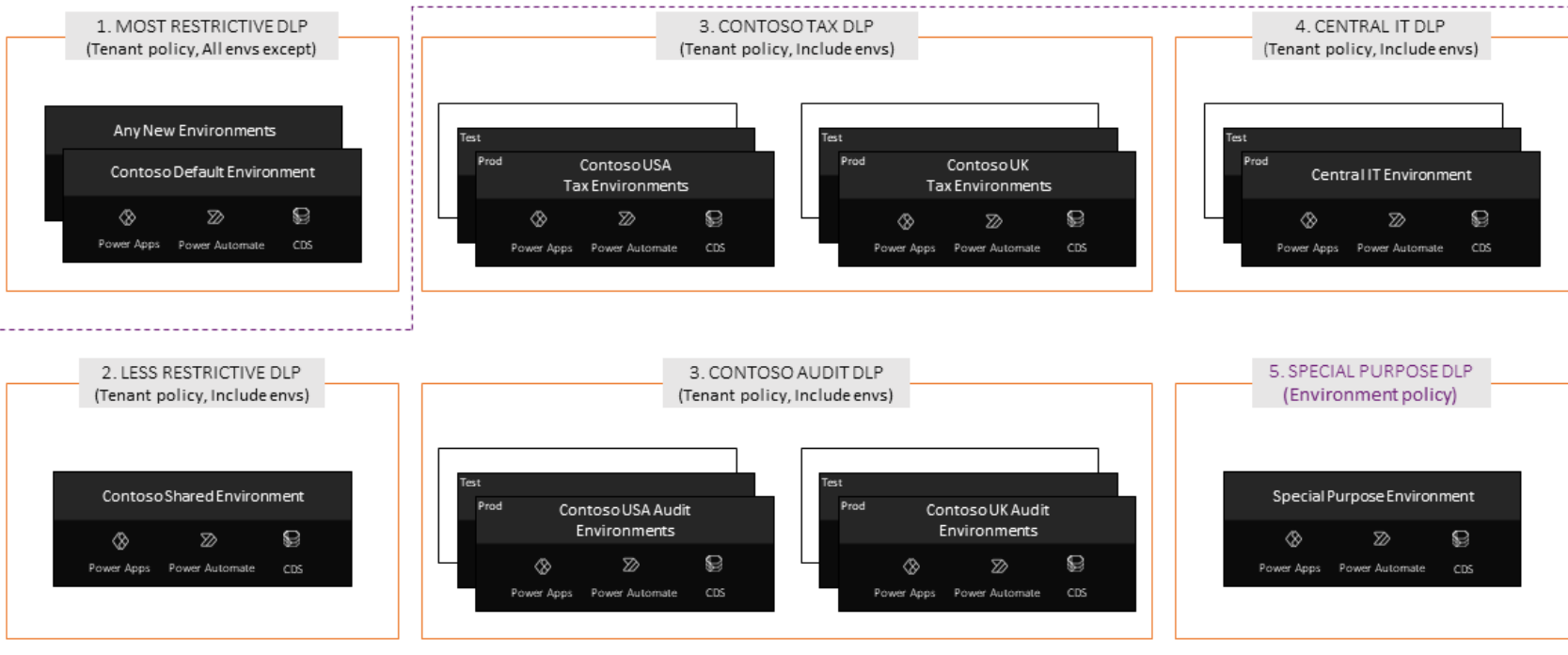
Publish once. Apply to hundreds of environments.



ISOLATE THE AGENTS

Walls. Not just rules.

Different DLP groups, different environments, different tenants — same effect: silence.



DLP groups

Connectors in different groups cannot share data.

Environment split

Move agents to a separate environment — no line of sight.

Tenant isolation

Block cross-tenant connections at the boundary.

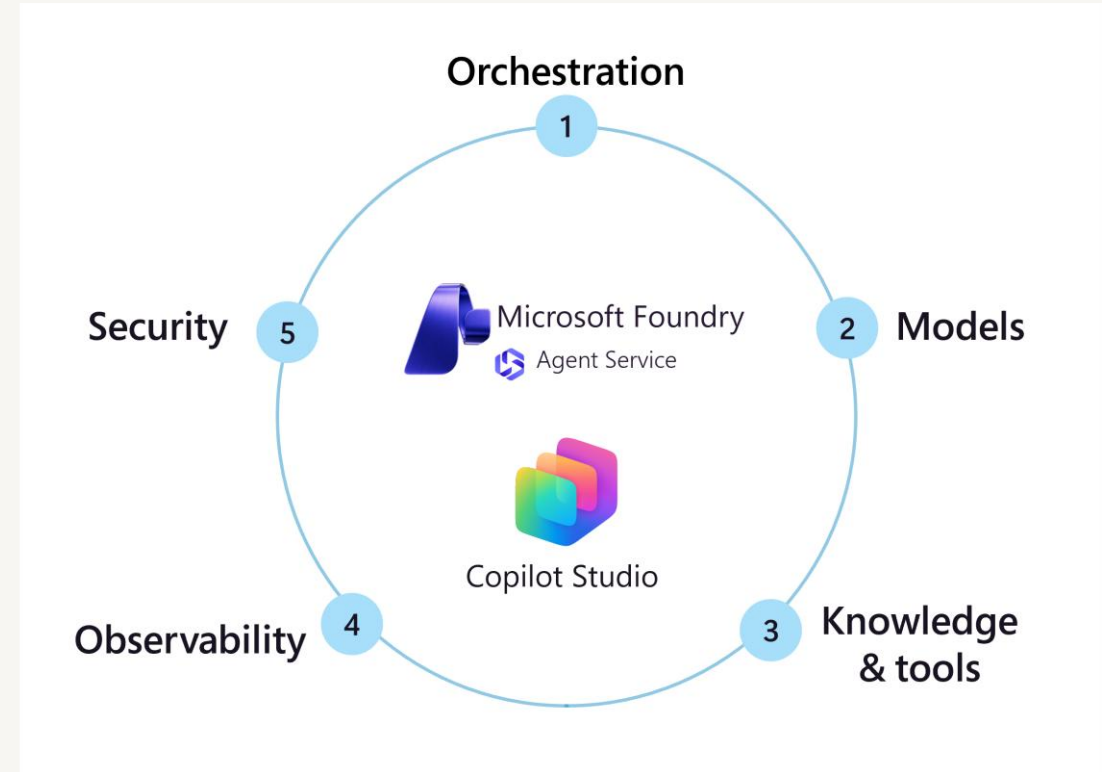
A DLP zone strategy — Finance, Tax, Audit, Special Purpose — each in its own walled garden.



PUTTING IT TOGETHER

A day in the life of a governed agent.

- 1 Born**
Maker creates in Copilot Studio. Routing drops it into the right environment.
- 2 Badged**
Entra Agent ID assigned. Listed in Agent 365 registry.
- 3 Scoped**
PPAC DLP rules + connectors decide who it can talk to.
- 4 Watched**
Purview labels the data. Defender watches behaviour.
- 5 Retired**
Owner leaves? Risky? Agent 365 deprovisions in one click.



Microsoft's five pillars: orchestration, models, knowledge, observability, security.



Zone-Based Governance Model

Zone 1

Personal Productivity

Builder: [Citizen developers](#)

Simple agents for individual or small team use, accessing content the user already has permission to see

Light governance

Zone 2

Collaborative Agents

Builder: [Makers working with IT](#)

Additional connectors or data sources, shared with larger teams, moderate complexity

Design review needed

Zone 3

Enterprise Agents

Builder: [IT teams and developers](#)

Sensitive data, complex autonomous tasks, cross-system integration, production workloads

Strict controls

Key Roles: Maker (builds) | AI Admin (guardrails, approvals) | Platform Admin | Security Team | Legal



Who does what.

CAPABILITY

	Agent 365	Purview	PPAC	Defender
Inventory + identity	✓	●	✓	✓
Agent visibility (collections)	✓	●	●	●
Data security + DLP	●	✓	✓	●
Environment + ALM	●	●	✓	●
Threat detection	●	●	●	✓
Real-time block	●	✓	✓	✓
Audit + compliance logs	✓	✓	✓	✓
Third-party agents	✓	✓	●	✓

Section 6

Security & Monitoring

Securing AI platforms individually and when orchestrated together



Catch the agent in the act.

Posture hunting, runtime detections, real-time block — and it shows up in XDR.

The screenshot shows the Copilot Studio interface. On the left, there's a navigation sidebar with 'Agents', 'Flows', and 'Tools'. The main area displays an 'Activity map' with a flowchart showing a 'Get emails (V3) Connector Action' that is 'Incomplete'. A detailed view of this action shows a red error message: 'SecurityWebhookBlocked This message was blocked by threat detection tools.' Below this, there's a 'Description' section explaining the operation and its filtering criteria. The 'Outputs' section shows a table with the value 'value (Table)'. The 'Rationale' section is also visible. On the right, there's a chat window titled 'Test your agent' with a message from the agent: 'Hello, I'm Agent, a virtual assistant. Just so you are aware, I sometimes use AI to answer your questions. If you provided a website during creation, try asking me about it! Next try giving me some more knowledge by setting up generative AI.' Below the chat, there's a button 'Check requests from customers' and an error message: 'Error Message: This message was blocked by threat detection tools. Error Code: SecurityWebhookBlocked Conversation Id: cd37031d-c17a-4a0b-a5c3-fe3919e895bc Time (UTC): 2025-09-03T09:44:45.423Z'.

Copilot Studio: a malicious connector call blocked in real time by Defender.

Discover

Auto-inventory all Copilot Studio + Foundry agents.

Posture

Misconfigs, ownerless agents, risky scopes.

Detect

Prompt injection, jailbreak, credential theft.

Block

Stop the action. Alert lands in XDR + Sentinel.



Catch the agent behaving badly.

Insider Risk for Copilot

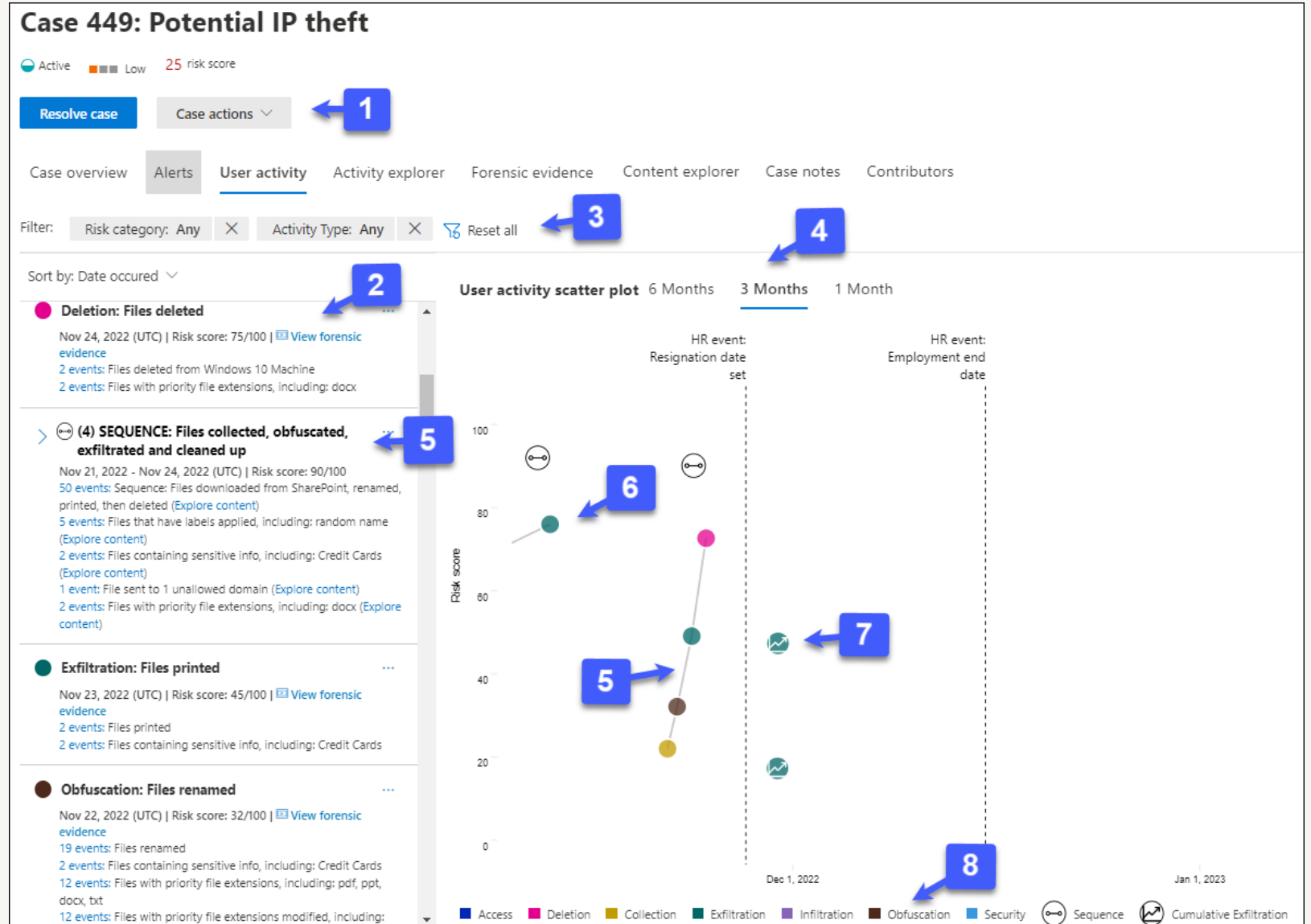
Risk-score humans AND agents. Same engine.

Risky Agents (Preview)

Visibility for agents in Copilot Studio + Foundry.

Comm Compliance

Detect harassing, unethical, or leaky prompts in flight.



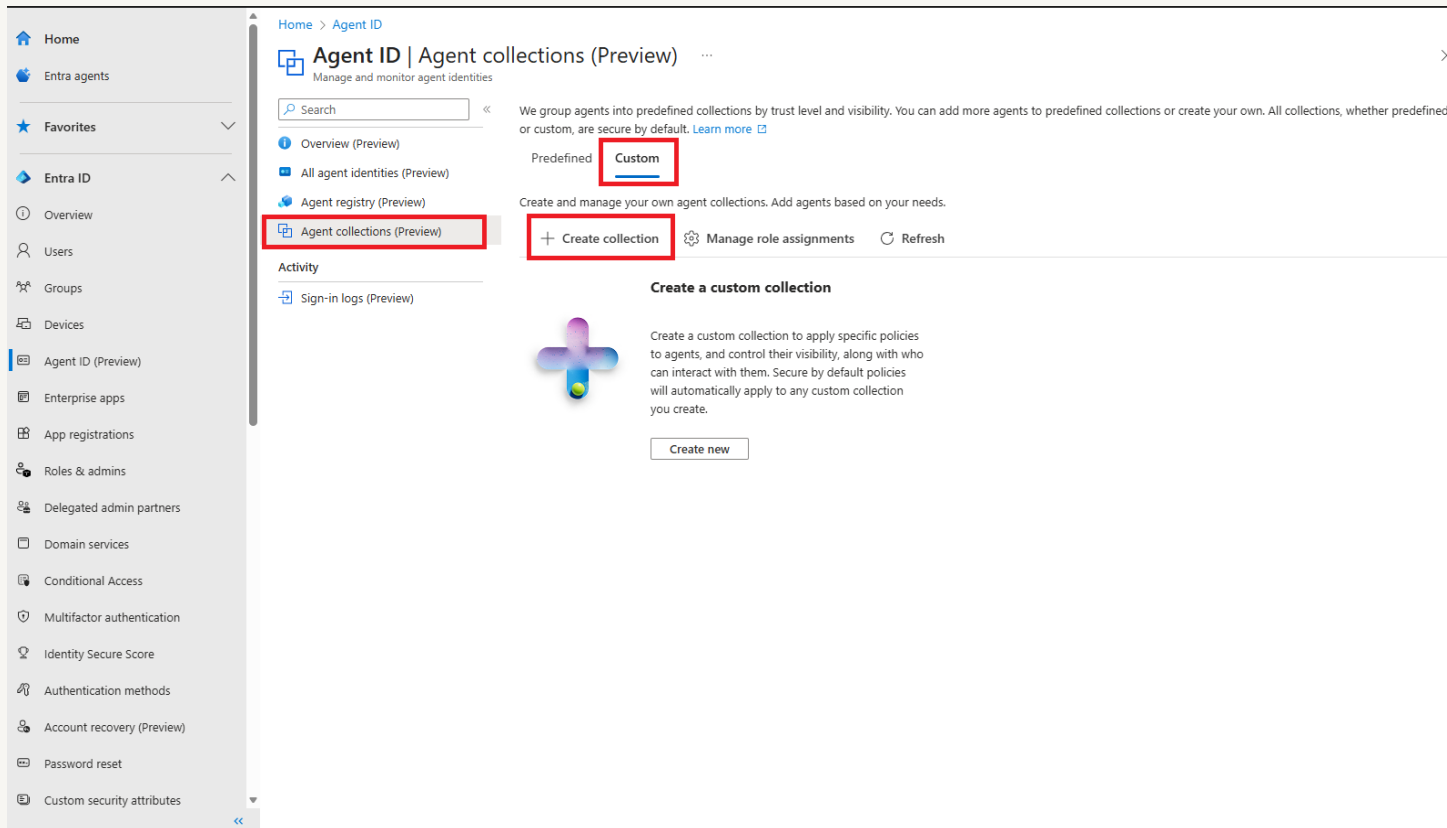
Insider Risk Management — case view with risk score and timeline.



NEW · IN PREVIEW

Collections.

Decide who can see whom — at the agent registry layer.



Global

Discoverable by all.
The open commons.

Custom

HR sees HR. Finance sees
Finance. You set the walls.

Quarantined

Can't discover anyone.
Can't be discovered.

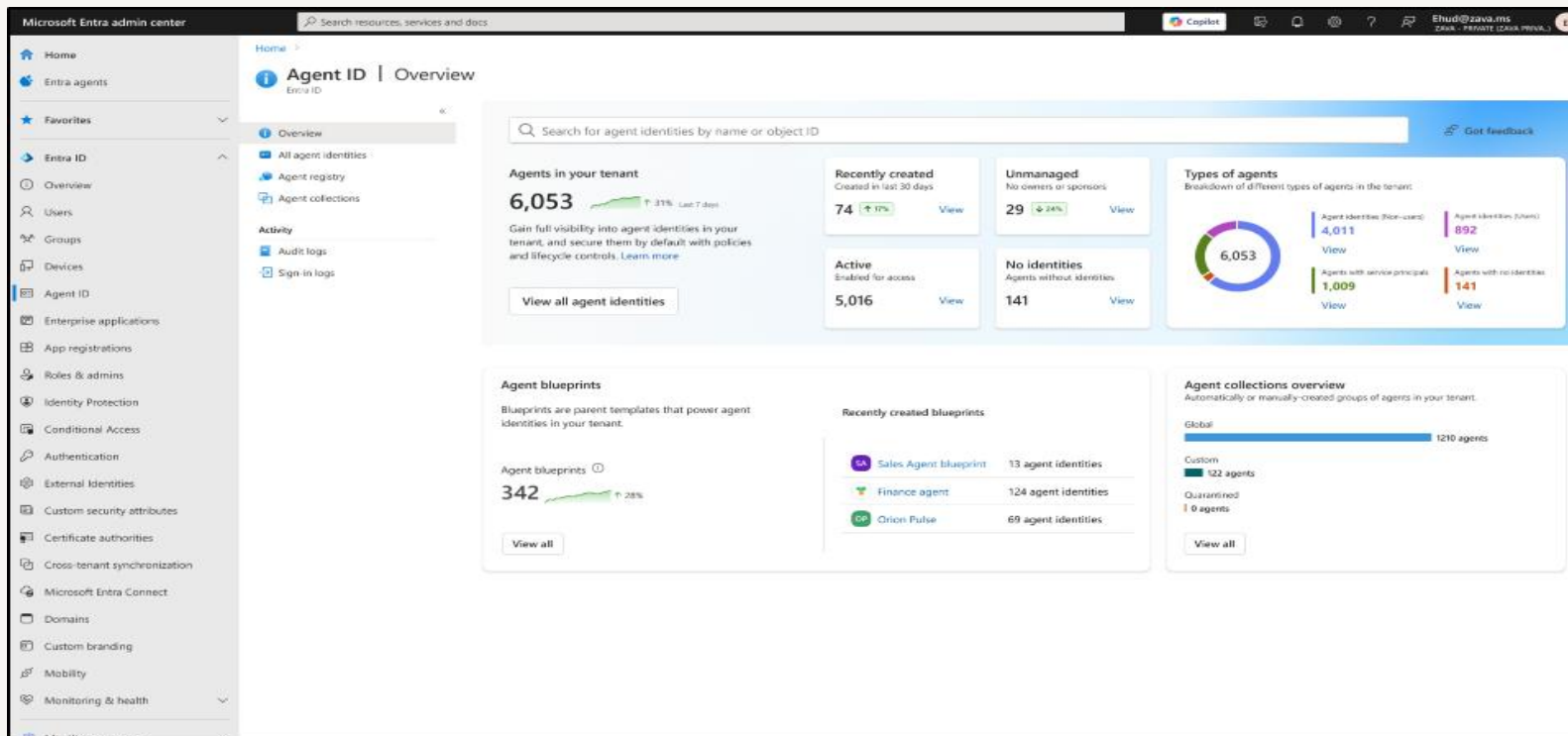
Entra Agent ID → Agent collections (Preview) — group, scope, and quarantine.

Groups answer "who can enter the room." Collections answer "who can be seen."



Adobe. SAP. ServiceNow. Workday. Manus. And the next ten.

Treat them like contractors: badge, scope, audit.



Entra Agent ID — every third-party agent gets a managed identity.

Register

Every agent gets an Entra Agent ID.

Scope

Conditional Access. Least privilege on connectors.

Approve

Admin gate before org-wide publish.

Watch

Audit logs flow into Purview + Defender.



OWASP for Agentic AI & Monitoring

Key OWASP Agentic Risks

- ASI01: Agent Goal Hijacking
- ASI02: Tool Misuse
- ASI03: Privilege Escalation
- ASI06: Memory Poisoning
- ASI08: Prompt Injection

Monitoring Best Practices

- Azure Monitor Alerts for anomaly detection
- Microsoft Sentinel for AI threat correlation
- Application Insights for agent performance
- Purview audit logs for compliance trail
- Defender for Cloud for posture management

Pre-Deployment Security Checklist

- Security review of AI platform data handling policies
- Compliance assessment (GDPR, industry regulations)
- OWASP agentic risk assessment for each use case
- Network architecture review for proper isolation
- Zero trust access controls (least privilege, short-lived credentials)
- Comprehensive audit logging with SIEM integration



Trust and components

CD-SEC-01 - Blind Trust

CD-SEC-06 - Vulnerable and untrusted components

CD-SEC-08 - Injection handling failures



Sensitive data leakage

CD-SEC-04 - Sensitive data leakage and handling failures



Identity and access

CD-SEC-02 - Account impersonation

CD-SEC-03 - Authorization misuse

CD-SEC-05 - Auth and secure communication failure



Operational hygiene

CD-SEC-07 - Security misconfiguration

CD-SEC-09 - Asset management failures

CD-SEC-10 - Security logging and monitoring failures

ONE GOVERNANCE PICTURE • FOUR SURFACES



Surface	Control plane	Identity	Data	Threat	Observability
M365 Copilot	Agent 365	Entra + CA	Purview + Restricted Search	Defender XDR	Purview audit + Compliance Mgr
Studio Lite (Chat)	Agent 365	Entra (signed-in)	Inherits Purview + DLP	Defender for Cloud Apps + XDR	Purview + PPAC + Agent Map
Studio Full	Agent 365	Entra Agent ID + RBAC	PPAC DLP + Purview	Defender CASB real-time + XDR	PPAC + Sentinel + App Insights
Foundry / Agent Service	Agent 365	Managed identity	Content Safety + Purview	Defender for Cloud (AI posture)	Tracing + Sentinel + XDR

Microsoft Agent 365 sits across every surface. Pick the lightest one that meets the data sensitivity — promote agents up the stack as they mature.

DATA SOVEREIGNTY · EUROPEAN VIEW



Tenant region ≠ inference region. For an EU/EFTA tenant, ask: where is data *held*, and where is it *processed*? The two answers diverge per surface and per model.

Surface / Model	Data held in EU	Inference processed in EU	Sovereignty agreement
M365 Copilot — OpenAI	Yes — EU Data Boundary; in-country (DE/SE/CH coming 2026)	Yes by default — disable Flex Routing to enforce EU-only	EU Data Boundary + DPA + SCCs; Customer Key / DKE optional
M365 Copilot — Anthropic	Out of scope for EU Data Boundary	Runs on Anthropic-managed infrastructure (often US)	MS subprocessor terms only — admin toggle to disable
Copilot Studio (generative answers)	Yes — EU Data Boundary when env. is in EU	Yes — Azure OpenAI endpoint in same boundary	EU Data Boundary commitments apply
Foundry — OpenAI (Azure Direct)	Yes — EU region (e.g. Sweden Central, Germany WC)	Yes — Azure-hosted in selected EU region	Microsoft Product Terms + DPA + SCCs; Sovereign Cloud option
Foundry — Anthropic (Serverless)	Foundry resource in EU — but model is Global Standard	No — routes to Anthropic global infra; EU-native target 2026	Anthropic commercial DPA + SCCs (not data sovereignty)
Foundry Local / Sovereign	On-prem or sovereign cloud — you choose	On your hardware; cloud-mirrored APIs	Customer-controlled — strongest sovereignty option

OpenAI on Azure + EU tenant = full sovereignty. Anthropic = strong DPA, not yet EU-pinned compute. Foundry Local = the highest bar.



Scenarios – Present at 3:45pm



Assume this is a real organisation



Discuss a solution including Copilot agents that would meet some of the goals



Discuss Governance and Security concerns



Prepare a 5 minute architecture story





Scenario 1 - Procurement Pressure at a Manufacturing Firm

A mid-sized manufacturer is struggling with procurement delays and rising costs. Buyers negotiate using information scattered across emails, SharePoint folders, legacy ERP exports, and supplier PDFs. Each quarter, leadership asks for explanations when material costs spike, but answering requires days of manual research and inconsistent assumptions.

Procurement staff often ask the same questions: Which suppliers are missing SLAs? What changed since last quarter? What similar negotiations worked well before? There's growing concern about sharing sensitive supplier data too widely, while still enabling faster decisions.

The company wants to improve insight during negotiations and reduce rework, without replacing core systems. Teams often collaborate in meetings to prepare negotiation packs, annotate documents, and capture decisions that later need to be auditable. There is interest in augmenting daily tools with contextual assistance, while also exploring whether the same patterns could later be exposed to suppliers or category managers through a controlled interface.



Scenario 2 - HR Policy Chaos in a Global Consultancy

A global consultancy employs 6,000 staff across 12 countries. HR policies vary by region, change frequently, and live across intranet pages, PDFs, and legal addendums. Employees regularly ask managers or HR partners the same questions about parental leave, expenses, flexible working, and benefits. Answers are often out of date or inconsistent.

HR wants to reduce interruptions while ensuring responses are accurate, compliant, and traceable to source material. There's also concern about how advice is phrased, since policy interpretation can create legal risk.

New starters are overwhelmed, managers want quick summaries, and HR needs insight into what people are actually asking. Occasionally, HR would like to trial new policy wording internally before publishing. Longer-term, leadership wonders whether similar conversational experiences could support managers during performance or wellbeing conversations, while still respecting permissions and regional boundaries.



Scenario 3 - Sales Enablement in a Regulated Industry

A financial services firm has a large sales team operating under strict regulatory oversight. Pitch decks, product sheets, and pricing models change frequently, and sellers often reuse old content without realising it's outdated. Compliance reviews happen late, creating delays and frustration.

Sales leadership wants reps to prepare faster and stay within guardrails, especially when responding to bespoke client questions. Reps often work together in Teams chats and meetings to draft proposals, summarise previous deals, and review call notes.

There's interest in smarter assistance during preparation and follow-up, including pulling context from CRM, past conversations, and approved content libraries. Compliance teams want visibility into trends and reassurance that advice given is grounded in approved sources. The architecture must support future integration with customer-facing experiences, without exposing internal reasoning or restricted data.



Scenario 4 - Incident Response in an Energy Company

An energy provider manages assets across multiple regions. When incidents occur, engineers, operations, comms, and leadership scramble to gather information from monitoring systems, handover notes, emails, and past incident reports. Post-incident reviews are time-consuming and often incomplete.

During incidents, Teams becomes the coordination hub, but critical context is missed or duplicated. Staff frequently ask if something similar has happened before, what actions were taken, and who approved decisions. After the fact, regulators and auditors request clear narratives backed by evidence.

The company wants to improve shared understanding during live events and reduce the burden of reporting afterwards. There's curiosity about how structured and unstructured data could be brought together in real time, and how collaborative workspaces might evolve into durable knowledge assets. Future plans include extending the same approach to contractors and partners, with strict control over what they can see.



Scenario 5 - Project Delivery in a Digital Agency

A digital agency runs dozens of client projects simultaneously. Project managers track status in Planner, emails, spreadsheets, and client tools. Leadership asks for weekly updates, but answers vary depending on who you ask. Risks are spotted late, often buried in long message threads or meeting notes.

Teams want help summarising progress, identifying blockers, and preparing client-ready updates. They collaborate heavily—commenting on plans, refining estimates, and capturing decisions during calls. The agency also runs retrospectives, but insights rarely feed forward into future projects.

There's interest in an assistant that understands the rhythm of delivery, surfaces patterns, and supports consistent storytelling across clients. The agency is also exploring whether reusable components could be adapted per client, without building custom solutions from scratch each time. Any approach needs to respect client boundaries while still enabling leadership-level insight.



Scenario 6 - Research Overload in a Pharmaceutical Company

A pharmaceutical R&D team produces vast amounts of research: lab notes, trial summaries, regulatory correspondence, and external publications. Scientists spend significant time searching for prior work, understanding decisions, and onboarding new team members.

Cross-functional collaboration is increasing, with research, regulatory, and commercial teams working together earlier. Meetings generate actions and hypotheses, but context is often lost. Staff want to ask natural questions like “Has anyone tested something similar?” or “What concerns did regulators raise last time?”

The organisation is cautious about data sensitivity and intellectual property, but recognises the opportunity to accelerate insight. There’s growing interest in assistive experiences embedded directly into everyday research and collaboration tools, and in customising those experiences for different roles. Longer-term, leadership wonders how the same foundations might support external partnerships or future innovation programs.



Scenario 7 - Field Engineers Maintaining Critical Infrastructure

A utilities company employs hundreds of field engineers who spend most of their time on-site maintaining substations and network equipment. Connectivity is inconsistent, and engineers rely on mobile devices to access manuals, historical maintenance records, safety guidance, and job notes. Much of the most valuable knowledge lives in free-text reports, photos, voice notes, and informal messages sent back to the office.

Engineers frequently encounter situations that are “similar but not identical” to past jobs and want quick answers while on site: Has this fault happened before? What workaround was used? Were there any safety concerns noted? Calling colleagues often interrupts others and still leaves gaps.

After visits, engineers are required to write detailed reports. These are time-consuming and often delayed until the end of the week, reducing accuracy. Office-based planners and asset managers want clearer insight into emerging issues and trends, but don't want to overload engineers with extra admin.

There is interest in better support before, during, and after site visits, improving collaboration between mobile staff and office teams, and gradually standardising how knowledge from the field feeds back into the organisation.



Scenario 8 - Construction Site Teams and Central Project Control

A large construction company runs multiple projects with teams split between head office and active building sites. Site supervisors spend their days coordinating contractors, handling safety issues, and responding to unexpected changes. Access to plans, method statements, risk assessments, and change requests is fragmented across emails, shared drives, and specialist tools.

When issues arise on site, supervisors often rely on experience or informal advice shared via phone or messaging. Decisions are logged late, if at all, making it hard for project managers and commercial teams to understand why costs or timelines shifted. Safety teams want reassurance that the latest guidance is being followed, especially as regulations change.

Daily stand-ups, site walks, and inspections generate photos, notes, and actions, but these rarely connect back to the central project narrative. New supervisors struggle to get up to speed on large projects, especially when covering absences.

The company wants to strengthen the link between on-site and office-based work, reduce duplicate reporting, and support consistent decision-making—without forcing frontline staff into complex systems that slow them down or pull them away from the site.



TAKE THESE HOME

Five things to do next.

Three for governance. Two for security. All for Monday.

- 01** **GOVERN** **Inventory first.**
Turn on Agent 365. You can't govern what you can't see.
- 02** **GOVERN** **Walls before rules.**
Map agents to environment groups + Agent Registry collections before any DLP.
- 03** **GOVERN** **Label the data, not the agent.**
Sensitivity labels + DSPM for AI — the perimeter follows the answer.
- 04** **SECURE** **Score the behaviour.**
Enable Insider Risk for Copilot + Risky Agents. Humans and agents on the same engine.
- 05** **SECURE** **Block in real time.**
Defender for Cloud Apps + Security for AI — prompt injection, exfil, alerts into XDR.



Microsoft Copilot Studio architecture links



Category	Resource	Link	Why use it
Well-Architected	Power Platform Well-Architected	https://learn.microsoft.com/en-us/power-platform/well-architected/	High-level design and decision framework
Hub	Power Platform & Copilot Studio Architecture Center	https://learn.microsoft.com/en-us/power-platform/architecture/	Main landing page for architecture guidance
Reference	Copilot Studio reference architectures & solution ideas	https://learn.microsoft.com/en-us/power-platform/architecture/products/copilot-studio	Scenario-based patterns and examples
Patterns	Architecting agent solutions: Principles and patterns	https://learn.microsoft.com/en-us/microsoft-copilot-studio/guidance/architecture/overview	Agent design principles and patterns
Solution design	Define your solution architecture	http://learn.microsoft.com/en-us/microsoft-copilot-studio/guidance/architecture-overview	Channels, integrations, security, analytics, and ALM



Resources & Next Steps

[M365 Copilot Architecture](#)

[Copilot Studio Documentation](#)

[Azure AI Foundry Documentation](#)

[AI Agent Governance & Security \(Cloud Adoption Framework\)](#)

[MCP for Agent-to-Agent Communication](#)

[Agent Factory: MCP & A2A Standards](#)

[Voice Agent Integration with ACS](#)

[OWASP Top 10 for Agentic Applications](#)

[Microsoft Agent 365](#)

Thank you for attending. Questions and discussion welcome.

THANK YOU,
YOU ARE AWESOME 🍷

PLEASE RATE THIS SESSION
IN THE MOBILE APP.

List Here Your Social Media Links, Email Address, Or Whatever You
Think It Is Important :)

