



# Microsoft Fabric Roadshow

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# The road ahead for AI in Fabric:

Data agents and intelligent solutions



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# Agenda

A decorative graphic in the bottom-left corner of the slide. It features two large, overlapping circles. The circle in the background is a light teal color. The circle in the foreground is a darker blue color and contains a small, glowing purple sphere. The background of the slide is a light beige color.

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Data Agents Intro

2

Demo - Data Agents: How to create one and interact?

3

Data Agents: Consuming

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4

Data Agent new features



Public Preview

# Fabric data agents

Virtual analyst for deeper data insights



# Why build Fabric Data Agents?

To ground your AI solutions in Enterprise Knowledge

## Consumers



End-users



Agents



Applications



Developers



Fabric



Copilot Studio



AI Foundry

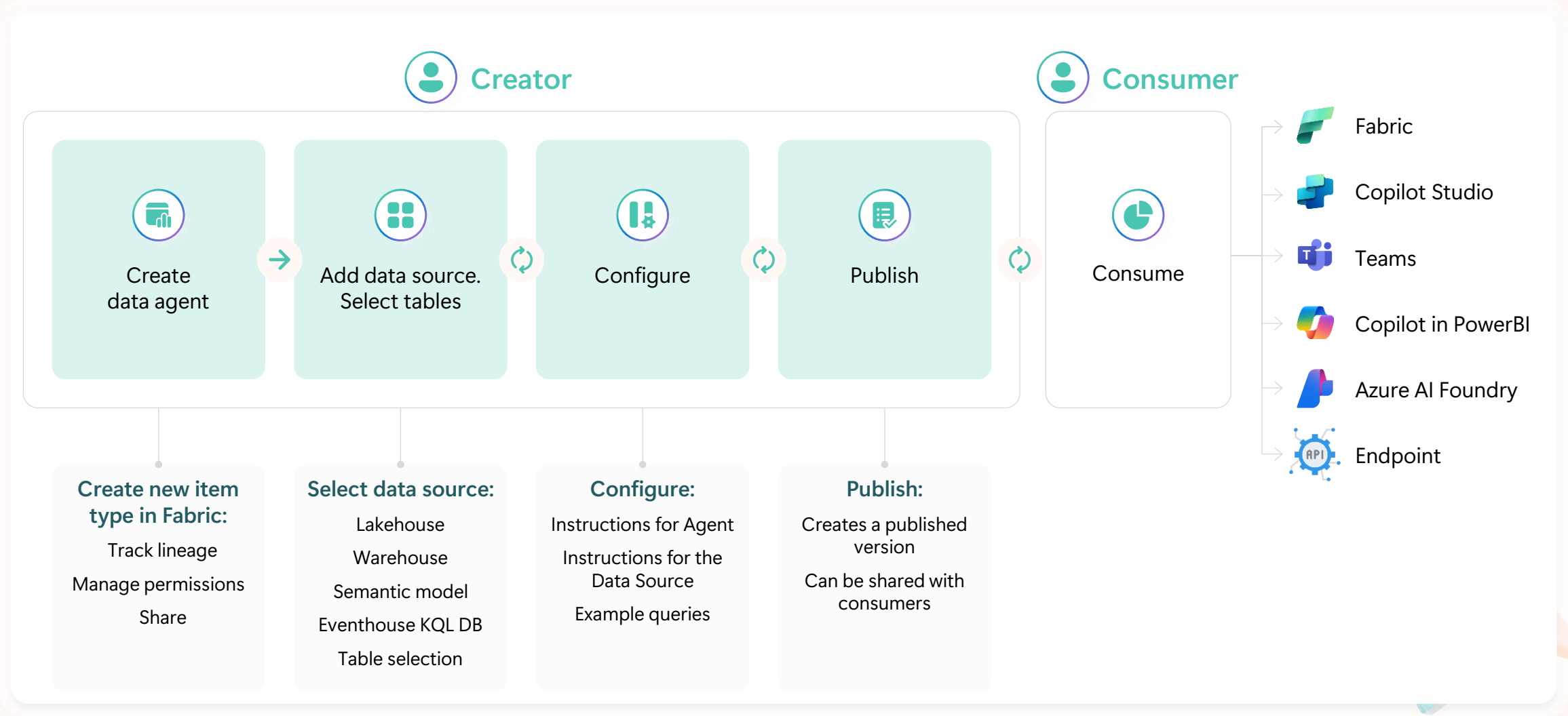


API endpoint

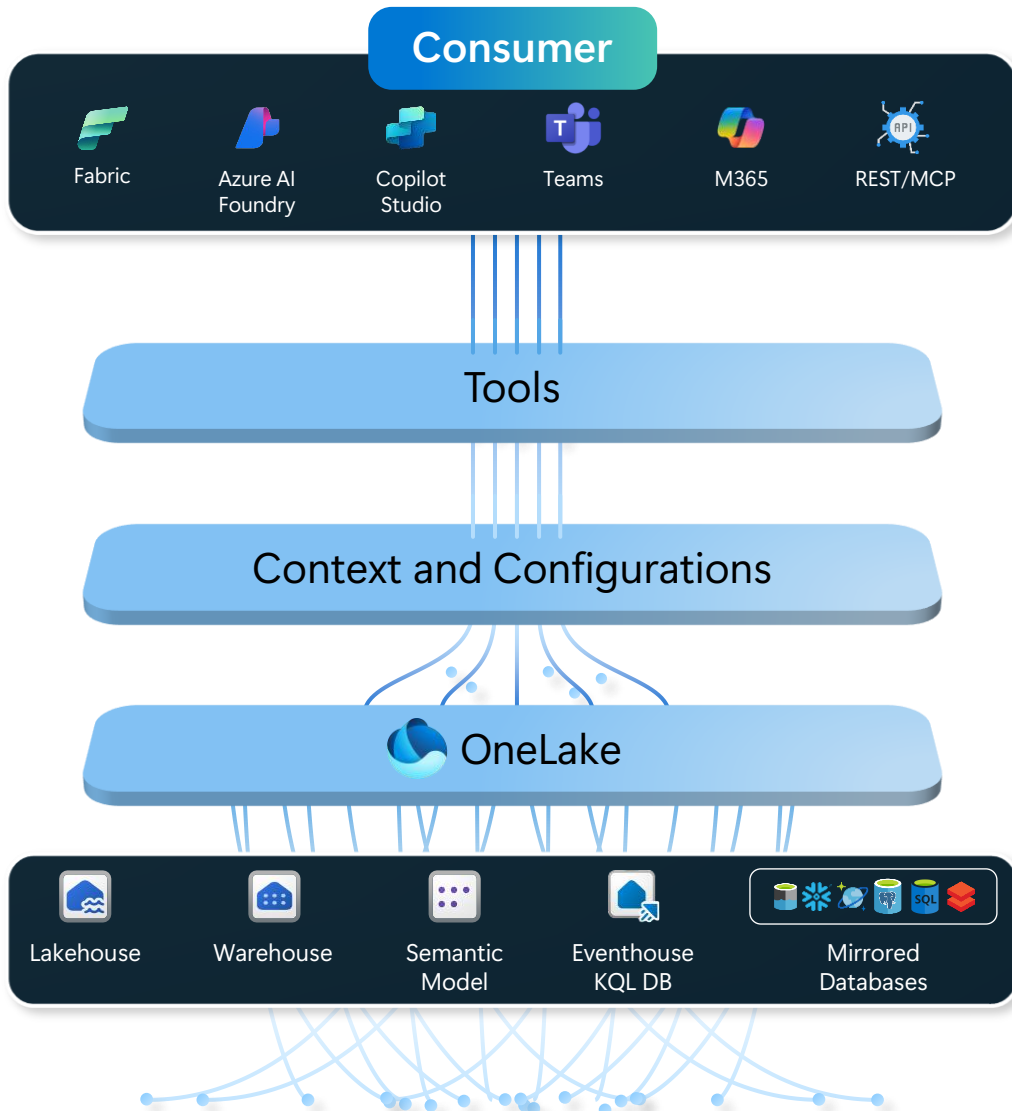
Data agents

# Data agent end-to-end flow

End-to-end scenario



# Fabric data agents



This **conversational data agent** allows users to interact with a virtual analyst.



Tooling for creators from UI and SDK, with **new debugging capabilities**, making it easier to understand and refine responses.



Seamlessly reason over data in OneLake, including **shortcuts and mirrored databases to reason over tables, files and real-time events**, to create a powerful data expert tailored to your data domain.



Your Data Agents can be consumed inside and outside of Fabric. Stay tuned for **upcoming integrations** with your own custom applications.

# Demo – Data Agents



# Consuming data agents



# Fabric data agent integration with Copilot Studio

Public Preview

The screenshot displays the Copilot Studio interface for a custom agent named 'Master-Sales-Agent'. The interface includes a sidebar with navigation options like Home, Create, Agents, Flows, and Tools. The main content area is divided into several sections:

- Overview:** A top banner states 'Your agent is ready! Here's what's next:' with instructions to add tools, triggers, and publish the agent.
- Details:** A section containing the agent's name, description, orchestration status (enabled), and response model (GPT-4o).
- Analytics:** A section showing key performance indicators for the last 7 days, including total sessions (9), engagement (0%), and satisfaction score (0%).
- Instructions:** A section for defining the agent's instructions.

On the right side, there is a 'Test your agent' chat window where a user can interact with the agent. The chat shows a greeting from the agent and a prompt for the user to ask a question.

Enrich custom copilots in Copilot Studio with Fabric data agents' expertise

Define actions to automate processes in Microsoft Teams and M365 Copilot (e.g., sending emails or triggering workflows)

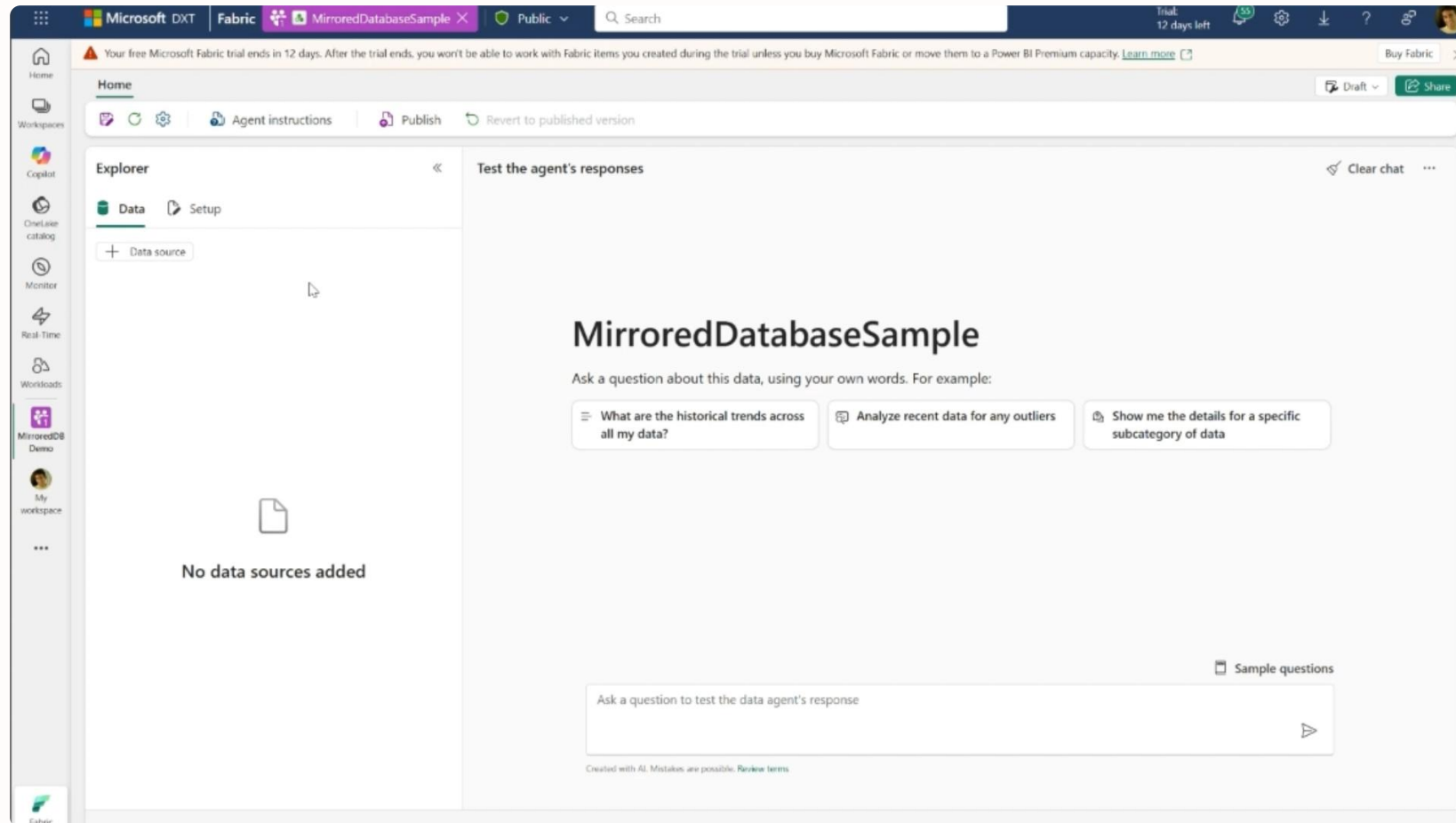
Interact with data and streamline tasks without leaving the chat experience

# What's new in Data agents?



# Mirrored DB in Data agents

## Public Preview FabCon Vienna



Add **Mirrored Databases** as sources to data agents

Select Tables to scope the input to the Data Agent for your Data Source

Leverage our built in NL2SQL tool to **generate contextual queries** to answer questions over your mirrored data artifacts

Supported Mirrored DBs:  
**Oracle, Snowflake, SQL Server, Databricks UC, Azure SQL DBs, and more!**

# Creator tooling improvements

## Public Preview FabCon Vienna

The screenshot displays the GamingAssistant web application. The top navigation bar includes 'Home', 'Agent instructions', 'Publish', and 'Revert to published version'. The left sidebar contains various icons for navigation. The main content area is divided into two sections: 'Explorer' on the left and 'Test the agent's responses' on the right. The 'Explorer' section shows a list of data sources: 'Gaming Compete Re...', 'ContosoGamingFeed', and 'ContosoGamingChurn'. The 'Test the agent's responses' section shows a chat interface with a message: 'The average user review rating for Contoso Sports is approximately 3.87.' Below this message, a 'Query code' section displays a KQL query: 

```
IndustryRatingsFeed
| where name == "Contoso Sports"
| summarize avgUserReviewRating = avg(user_review)
```

 The 'Query output' section shows a table with one row: 

avgUserReviewRating
3.866666666666667

 Below the query output, there is a section for 'Example queries' with a 'Question 1' asking 'What is the average rating for Wii sports in September 2024?'. At the bottom, there is a text input field for asking a question to test the data agent's response.

Add **datasource instructions** to communicate table usage and join logic

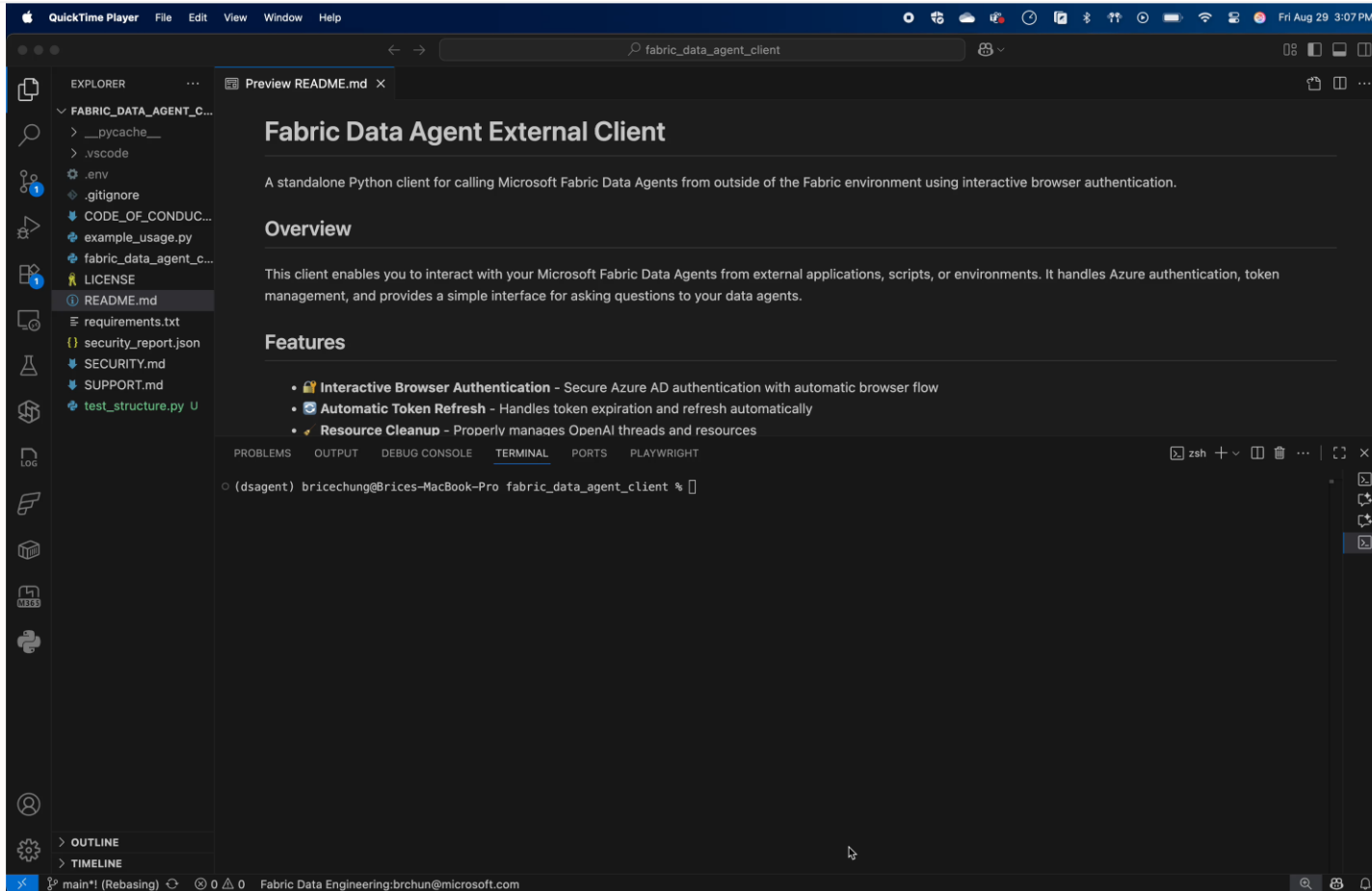
Use the new **multi-tasking experience** for side-by-side authoring and testing

Use **markdown editor** for clear, organized instructions

Leverage **diagnostics tools** to trace referenced example queries and underlying steps

# Fabric data agent public endpoint

## Public Preview



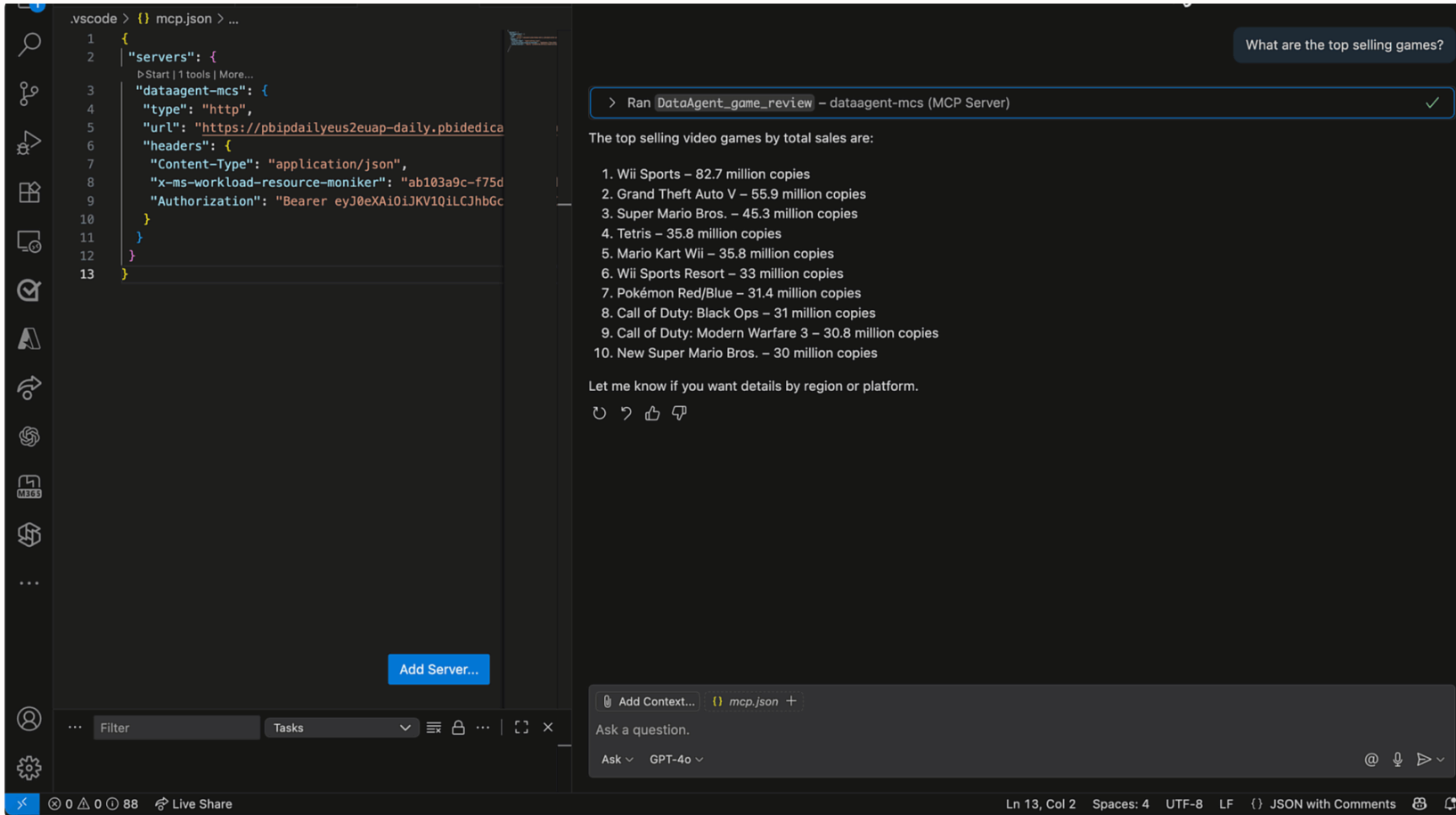
Connect from VSCode or external applications with secure authentication

Use familiar OpenAI client patterns

Query your data agents externally with detailed responses including SQL query execution steps

# Data Agent MCP Server

# Coming Soon



Enable users to consume Fabric data agent from other AI systems VS Code using MCP

Allows AI systems to “plug in” to enterprise data on demand, accelerating AI adoption and ensuring secure, and auditable access to Fabric analytics

# Roadmap



# Roadmap

## AI



### Data agents

- Unstructured data in data agents
- MCP support
- GA data agents
- Visualizations
- Creator/Consumer feedback loop



### AI Functions

- AI functions in Dataflows Gen2
- AI functions in Fabric SQL Data Warehouse

## Data Science

- MIFlow 3
- Cross workspace logging Models and Experiments
- Log models from outside Fabric
- Import models
- Model monitoring

## Learn more

- Explore **Copilot** in Fabric
  - [aka.ms/fabric-copilot-docs](https://aka.ms/fabric-copilot-docs)
- Explore **AI functions** in Fabric
  - [aka.ms/ai-functions](https://aka.ms/ai-functions)
  - [aka.ms/ai-functions/blog](https://aka.ms/ai-functions/blog)
- Explore **data agents** in Fabric
  - [aka.ms/fabric/data-agent/blog/updates](https://aka.ms/fabric/data-agent/blog/updates)
  - [aka.ms/Fabric-data-agent-AI-integration](https://aka.ms/Fabric-data-agent-AI-integration)
  - [aka.ms/fabric/data-agent/get-started](https://aka.ms/fabric/data-agent/get-started)
  - [aka.ms/fabric/data-agent/sdk/docs](https://aka.ms/fabric/data-agent/sdk/docs)
  - [aka.ms/data-agent-evaluation-sample](https://aka.ms/data-agent-evaluation-sample)
- **GitHub AI samples:**
  - [aka.ms/fabric/GenAI/quickstart](https://aka.ms/fabric/GenAI/quickstart)
- **RAG in Fabric blog:**
  - [aka.ms/fabric/GenAI/RAG/blog](https://aka.ms/fabric/GenAI/RAG/blog)
- **Feature request?**
  - [ideas.fabric.microsoft.com](https://ideas.fabric.microsoft.com)



# Thank you

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