



Microsoft Fabric Roadshow

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The road ahead for AI in Fabric:

Data agents and intelligent solutions



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Agenda



1

Data Agents Intro

4

Data Agent new
features

2

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

3

Data Agents:
Consuming

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

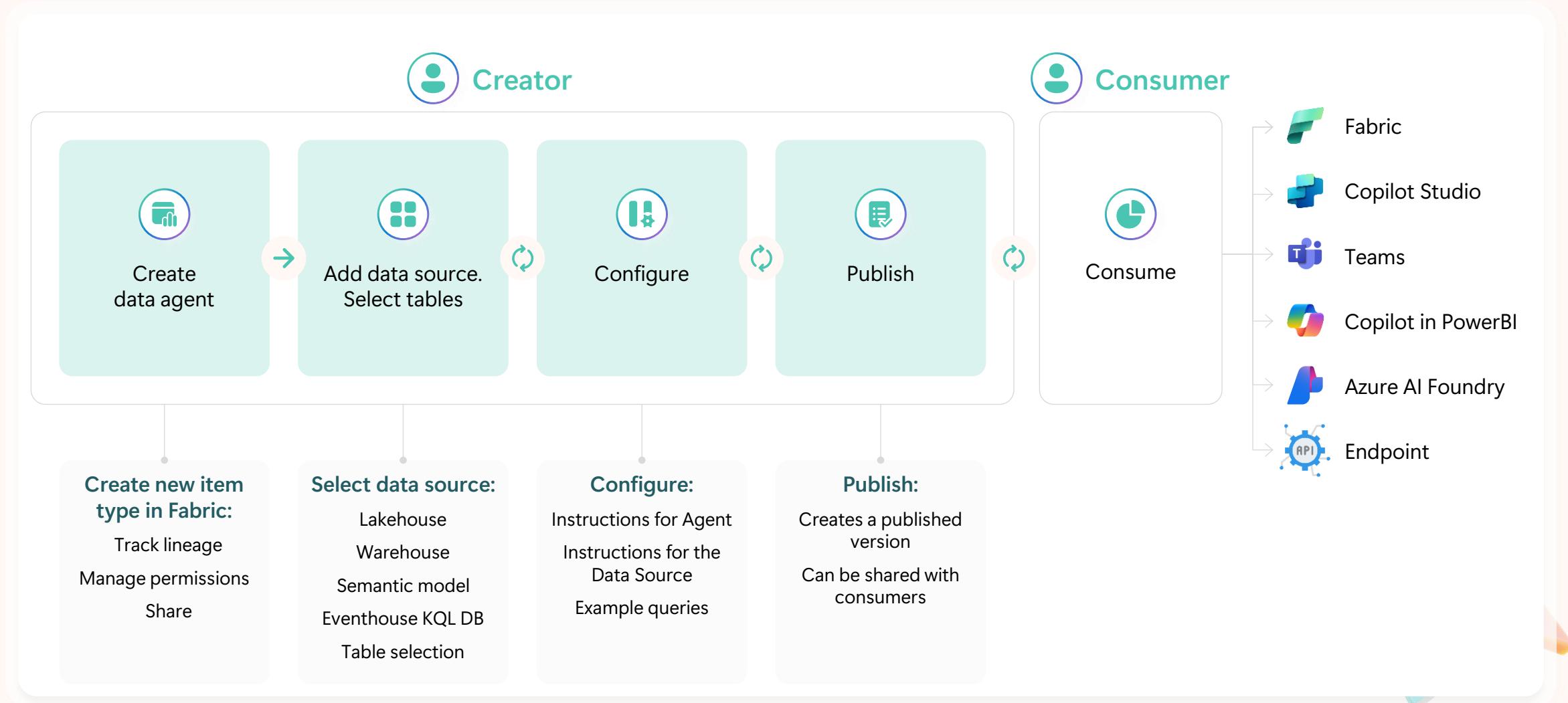


API endpoint

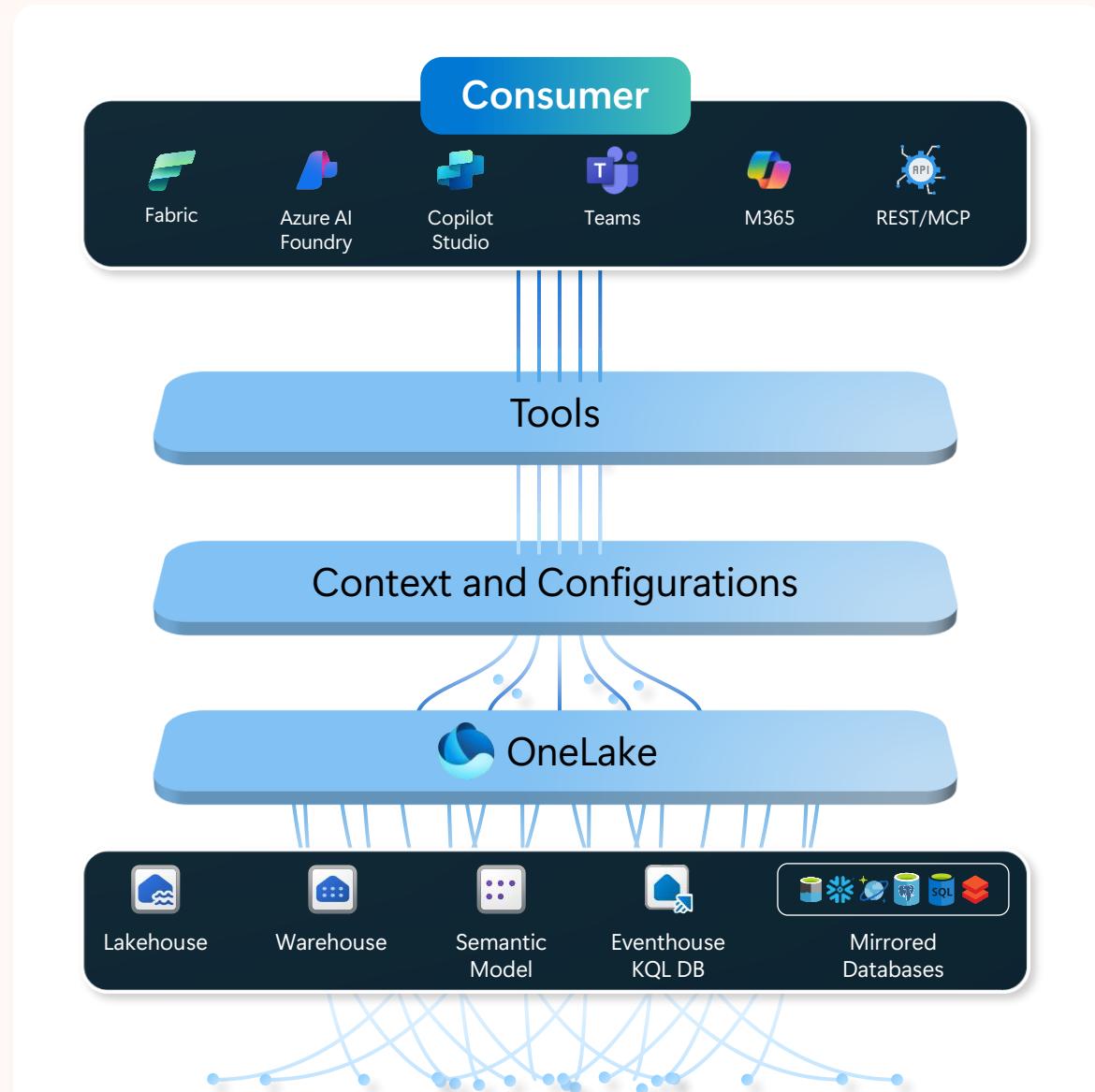
Data agents

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 shows the Microsoft Copilot Studio interface with the title bar "Copilot Studio" and the subtitle "Master-Sales-Agent". The main content area displays the following sections:

- Your agent is ready! Here's what's next:**
 - Add tools so your agent can do things for you
 - Add trigger so your agent can be activated by an event
 - Publish your agent so others can use it
- Details**
 - Name: Master-Sales-Agent
 - Description: Master Agent that answers queries about customer sales and their behavioral habits.
 - Orchestration: Enabled (switch)
 - Response model: GPT-4o (default)
- Analytics**
 - Total sessions: 9
 - Engagement: 0%
 - Satisfaction score: --
- Instructions**

Type your instructions here...

To the right, there is a sidebar titled "Test your agent" with a message from the agent and a text input field for users to ask questions.

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

The screenshot shows the Microsoft Fabric Data Agent interface. The top navigation bar includes 'Microsoft DXT' and 'Fabric' tabs, with 'MirroredDatabaseSample' selected. A trial message indicates 12 days left. The main workspace is titled 'MirroredDatabaseSample' and contains a sub-section 'Test the agent's responses'. It features a text input field 'Ask a question about this data, using your own words. For example:' followed by three buttons: 'What are the historical trends across all my data?', 'Analyze recent data for any outliers', and 'Show me the details for a specific subcategory of data'. Below this is a larger text input field 'Ask a question to test the data agent's response' with a 'Sample questions' button. On the left sidebar, under 'Workspaces', there is a section for 'MirroredDB Demo' which is currently selected.

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 shows the Microsoft Creator tooling interface. On the left is a sidebar with various icons and sections like Home, Copilot, Create, Browse, OneLake catalog, Apps, Metrics, Monitor, Learn, Real-Time, Workloads, Workspaces, MD-Gaming..., and GamingAssistant. The main area has a title "Test the agent's responses". It displays a response from a "GamingCompete" Kusto agent: "The average user review rating for Contoso Sports is approximately 3.87." Below this, a "1 step completed" message shows the analyzed query: "Analyzed ContosoGamingFeed Kusto for: 'Find the average user review rating for the game Contoso Sports.'". The query code is shown in KQL:

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

. A "Query output" section shows the result: "avgUserReviewRating" with the value "3.8666666666666667". At the bottom, there are "Example queries" and a "Question 1" section asking "What is the average rating for Wii sports in September 2024?". A "KQL" section and a "Sample questions" button are also present. A search bar at the top and a "Draft" button are visible in the header.

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

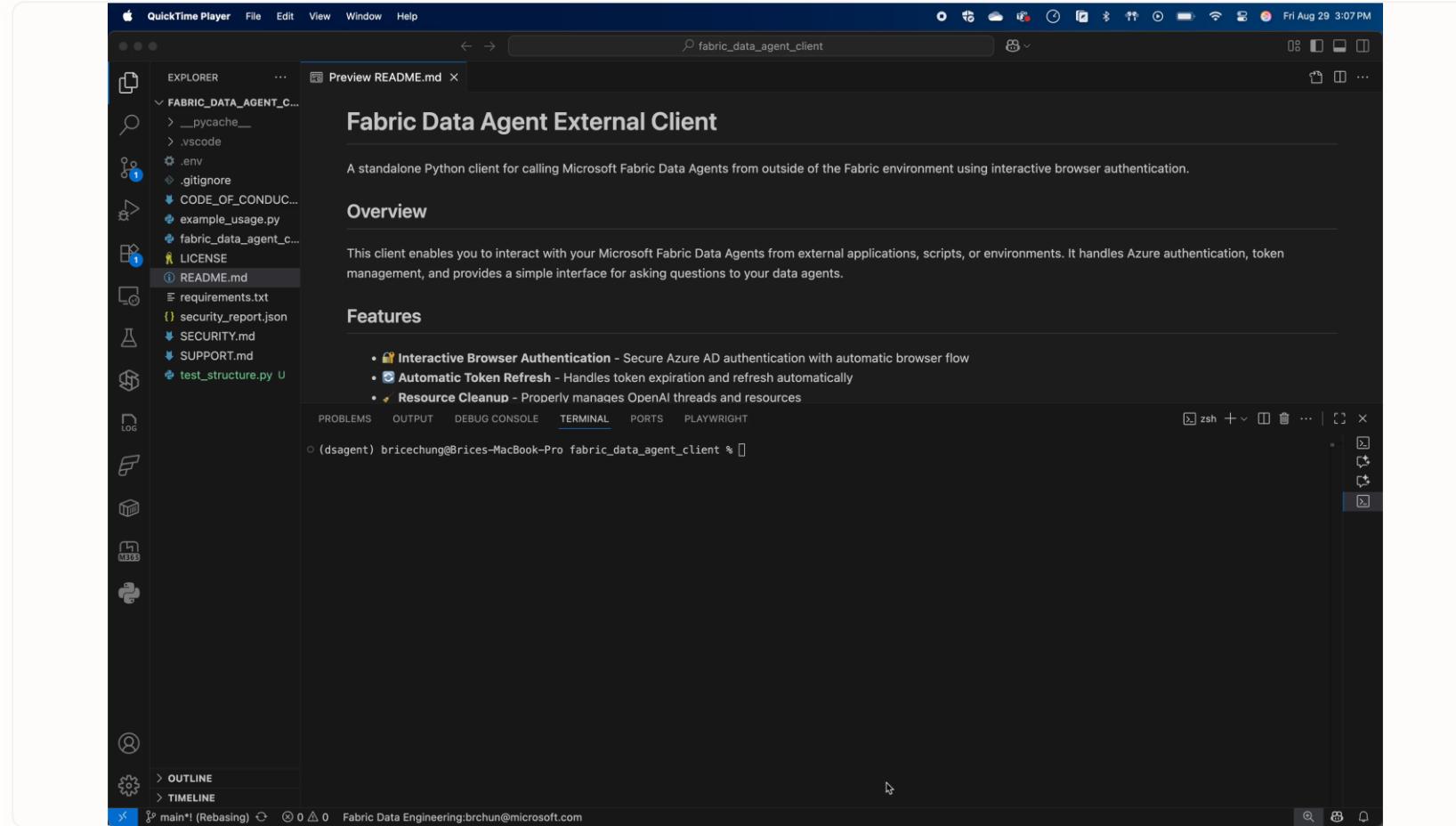
Use the new **multi-tasking experience** for side-by-side authoring and testing

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

The screenshot shows a VS Code interface with the following elements:

- Left Sidebar:** Includes icons for file operations, search, symbols, and more.
- File Explorer:** Shows a file named `mcp.json`.
- Code Editor:** Displays the `mcp.json` configuration file with the following content:

```
.vscode > {> mcp.json > ...> 1 {> 2 | "servers": {> 3 | "dataagent-mcs": {> 4 | "type": "http",> 5 | "url": "https://pbipdailyeus2euap-daily.pbidedica-> 6 | "headers": {> 7 | "Content-Type": "application/json",> 8 | "x-ms-workload-resource-moniker": "ab103a9c-f75d-> 9 | "Authorization": "Bearer eyJ0eXAiOiJKV1QiLCJhbGc-> 10 | }> 11 | }> 12 | }> 13 | }
```
- Terminal:** Shows the command `> Ran DataAgent_game_review - dataagent-mcs (MCP Server)` and the output:

What are the top selling games?

The top selling video games by total sales are:

 1. Wii Sports – 82.7 million copies
 2. Grand Theft Auto V – 55.9 million copies
 3. Super Mario Bros. – 45.3 million copies
 4. Tetris – 35.8 million copies
 5. Mario Kart Wii – 35.8 million copies
 6. Wii Sports Resort – 33 million copies
 7. Pokémon Red/Blue – 31.4 million copies
 8. Call of Duty: Black Ops – 31 million copies
 9. Call of Duty: Modern Warfare 3 – 30.8 million copies
 10. New Super Mario Bros. – 30 million copies

Let me know if you want details by region or platform.
- Bottom Status Bar:** Shows file statistics (Ln 13, Col 2, Spaces: 4, UTF-8, LF), a JSON comment indicator, and other status icons.

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



Thank you

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