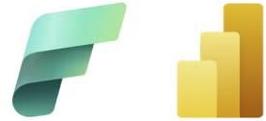




Microsoft Fabric & Power BI Türkiye  
User Group



# Microsoft Fabric meets MCP – what can we do with it

**Pawel Potasinski**

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**With great power  
comes great  
responsibility.**



# Paweł Potasiński

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FAVORITE STUFF:





# Microsoft Fabric

The unified data platform for AI transformation



Data  
Factory



Analytics



Databases



Real-Time  
Intelligence



IQ



Power BI



Copilot



OneLake



Governance

Fabric Platform

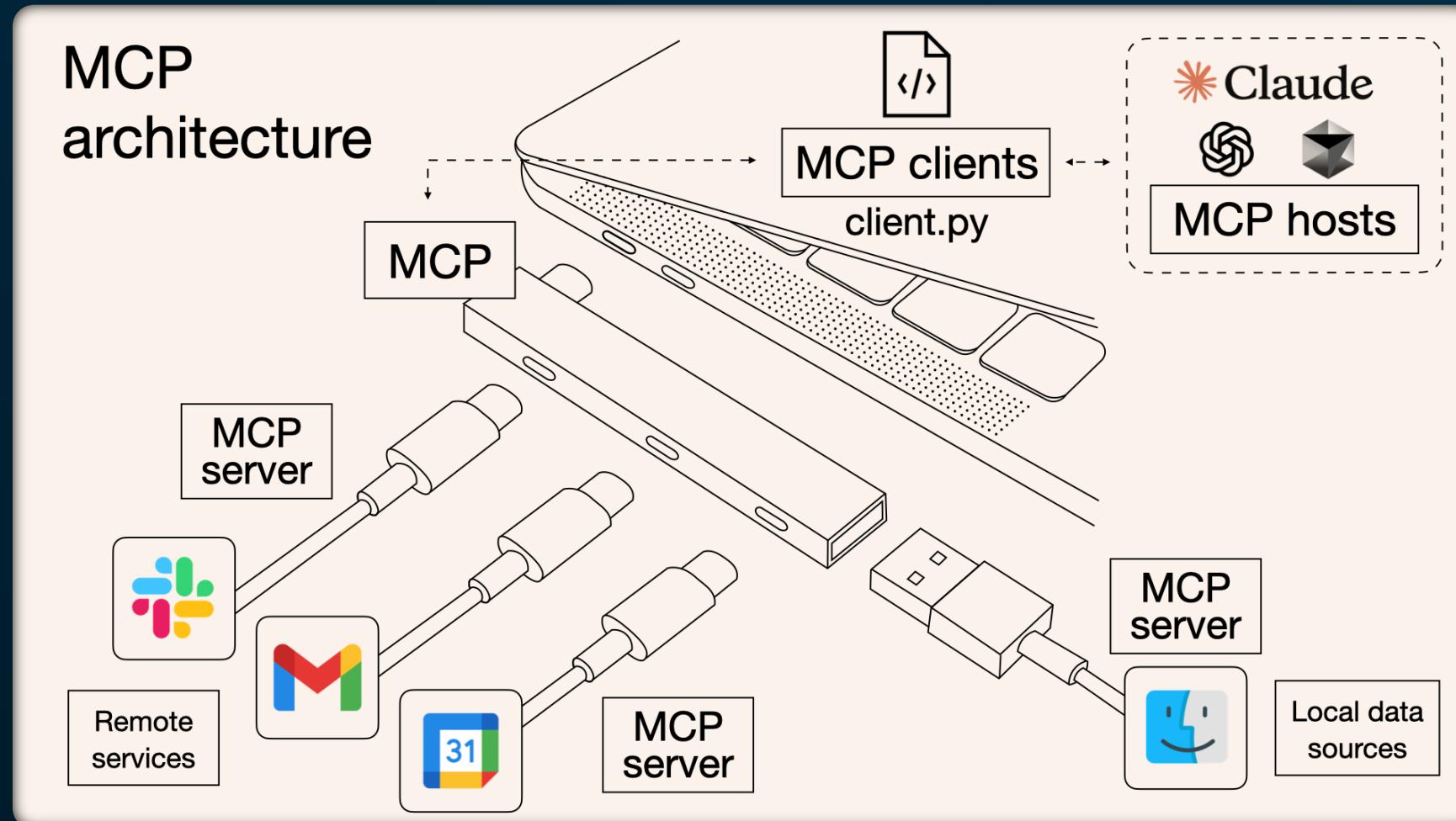
# What is MCP?

**MCP (Model Context Protocol)** is an open protocol designed to standardize how applications provide context to Large Language Models (LLMs).

MCP was started as a project by Anthropic to make it easier for AI models - like Claude - to interact with tools and data sources.

Learn more: <https://modelcontextprotocol.io>

# MCP Architecture



Source: Norah Sakal's blog - [What is Model Context Protocol \(MCP\)? How it simplifies AI integrations compared to APIs | AI Agents That Work](#)

# MCP Glossary

- **MCP Hosts:** These are applications (like Claude Desktop or AI-driven IDEs) needing access to external data or tools
- **MCP Clients:** They maintain dedicated, one-to-one connections with MCP servers
- **MCP Servers:** Lightweight servers exposing specific functionalities via MCP, connecting to local or remote data sources
- **Local Data Sources:** Files, databases, or services securely accessed by MCP servers
- **Remote Services:** External internet-based APIs or services accessed by MCP servers

# Fabric & Power BI MCP Servers by Microsoft

- **Microsoft Fabric MCP Server**

<https://github.com/microsoft/mcp/tree/main/servers/Fabric.Mcp.Server>

- **Fabric Admin MCP Server**

<https://github.com/microsoft/fabric-admin-mcp>

- **Power BI MCP Modeling Server**

<https://github.com/microsoft/powerbi-modeling-mcp>

- **Microsoft Fabric RTI MCP Server**

<https://github.com/microsoft/fabric-rti-mcp>

# Microsoft Fabric MCP Server

## Use Cases

- ⚙️ Generate or scaffold Fabric resource definitions
- 📄 Retrieve official OpenAPI specs and JSON schema for validation and code generation
- 📄 Get example request/response payloads to accelerate integration
- ✅ Query curated best-practice guidance (pagination, LROs, authentication patterns)

# Fabric Admin MCP Server

## Use Cases

 List Fabric capacities

 Get capacity details

 Pause capacity

 Resume capacity

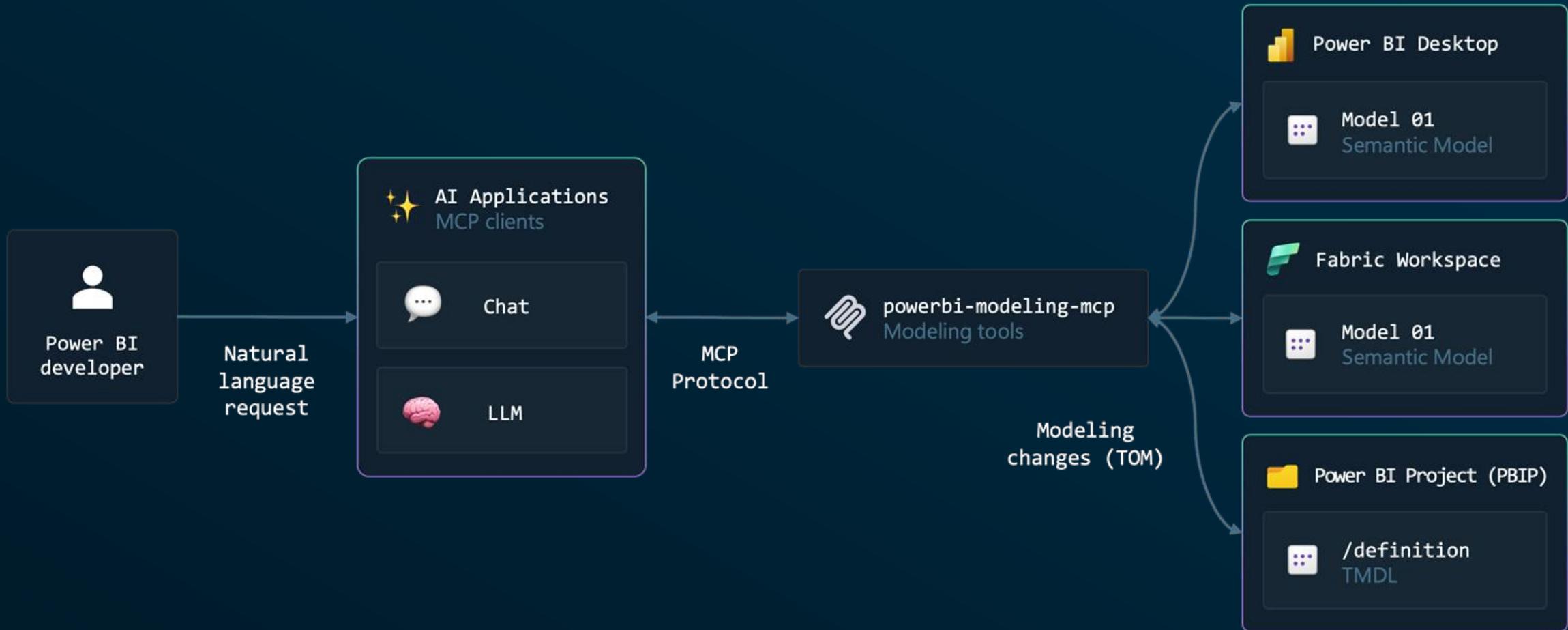
# DEMO

## Microsoft Fabric MCP Server



# Power BI Modeling MCP Server

## Architecture



# Power BI Modeling MCP Server

## Use Cases

-  Build and modify semantic models with natural language
-  Bulk operations at scale
-  Apply modeling best practices
-  Agentic development workflows
-  Query and validate DAX

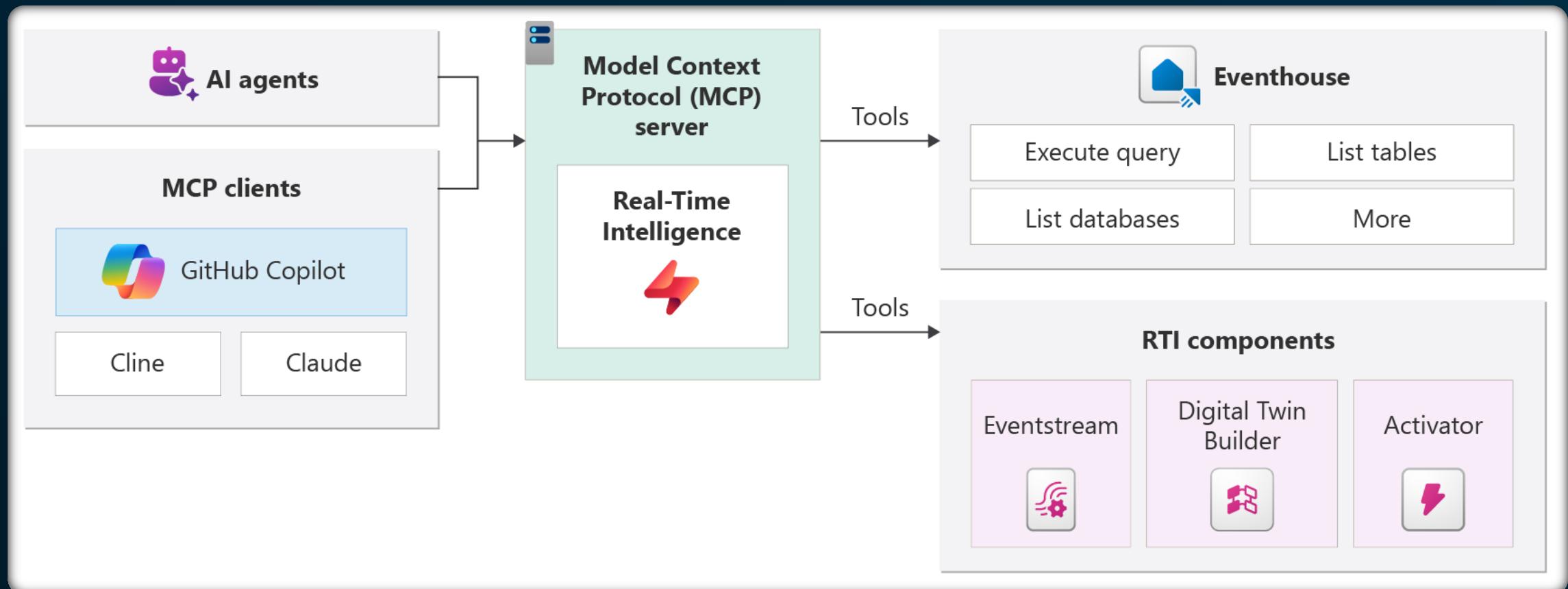
# DEMO

## Power BI Modeling MCP Server



# Fabric RTI MCP Server

## Architecture



# Fabric RTI MCP Server

## Use Cases



**Eventhouse:** Execute KQL queries against Fabric Eventhouse and ADX



**Eventstreams:** Manage Eventstreams for real-time data processing

- List Eventstreams in workspaces
- Get Eventstream details and definitions
- Create new Eventstreams
- Update existing Eventstreams
- Delete Eventstreams



**Activator:** Create and manage Activator triggers for real-time alerting

- Create new triggers with KQL source monitoring
- Set up email and Teams notifications when a condition occurs
- List Activator artifacts in workspaces

# DEMO

## Fabric RTI MCP Server



# How Fabric Compares in MCP vs Competitors?

The screenshot shows the Databricks MCP Servers interface. On the left, a sidebar lists various Databricks services like Workspace, Catalog, and Compute. The main area is titled "Agents" and shows a tab for "MCP Servers". Below this, there's a "Discover" section with a "Create tools" option and several cards for "You.com", "Glean", and "S&P Global Commodity Insights". A red box highlights the "S&P Global Commodity Insights" card. In the foreground, a large white box contains a code snippet:

```
CREATE OR REPLACE MCP SERVER SI_DEMOS.APPLICATIONS.MNP_MCP_SERVER  
FROM SPECIFICATION $$  
tools:  
- name: "tech-docs-search"  
  type: "CORTEX_SEARCH_SERVICE_QUERY"  
  identifier: "dSI_DEMOS.MNP_DEMO_20251125_011830.ENGINE_TECHNICAL_DOCS_CHUNKS_SEARCH_SERVICE"  
  description: "Cortex Search for getting information from technical documentation."  
  title: "Technical Documentation Search"  
  
- name: "ticket-analytics-view"  
  type: "CORTEX_ANALYST_MESSAGE"  
  identifier: "SI_DEMOS.MNP_DEMO_20251125_011830.NEW_SEMANTIC_VIEW_SEMANTIC_MODEL"  
  description: "Semantic view for JIRA ticket and SAP order data."  
  title: "Semantic view for tickets and orders"  
$$
```



\$\$

# MCP Server Watchout List

## ⚠ Make sure you trust the LLM (MCP host)

Are you OK with the LLM reading your data and/or metadata?

## ⚠ Don't fully rely on AI

It's still LLM that does the job and it can hallucinate or misinterpret your prompts!

## ⚠ Understand available tools

Your MCP server will be as good as the set of tools it provides.

## ⚠ Set up security beforehand

Make sure you control data access and allowed commands before letting MCP tools in.

## ⚠ Never trust a 3rd party MCP

MCP servers can contain harmful tools. Make sure you get them from trusted sources.

## ⚠ Watch out for costs and resource consumption

Your interactions with MCP servers will consume tokens, Fabric CUs and other resources.

# MCP and MCP for Fabric

## Useful resources

- **MCP for beginners**  
<https://github.com/microsoft/mcp-for-beginners>
- **Microsoft MCP servers**  
<https://github.com/microsoft/mcp>
- **Microsoft Fabric MCP Server**  
<https://github.com/microsoft/mcp/tree/main/servers/Fabric.Mcp.Server>
- **MCP GraphQL Server**  
<https://github.com/microsoft/fabric-samples/tree/main/docs-samples/data-engineering/GraphQL/MCP>
- **Power BI Modeling MCP server**  
<https://marketplace.visualstudio.com/items?itemName=analysis-services.powerbi-modeling-mcp>  
<https://github.com/microsoft/powerbi-modeling-mcp>
- **Fabric RTI MCP Server**  
<https://github.com/microsoft/fabric-rti-mcp/>

# MCP and MCP for Fabric

## Useful resources from Fabric community

- **Kurt Buhler: Control Power BI and Fabric by using AI tools (with MCP servers)**  
<https://www.youtube.com/watch?v=03WjmMKooFM>
- **Kurt Buhler: Learn MCP Servers & AI for Data and Analytics (playlist)**  
[https://www.youtube.com/playlist?list=PLXa38gbQxdE1WM3RuU02v\\_4timu7dnIXr](https://www.youtube.com/playlist?list=PLXa38gbQxdE1WM3RuU02v_4timu7dnIXr)
- **Guy in a Cube: Chat with your Eventhouse using Fabric's MCP Server**  
<https://www.youtube.com/watch?v=vMyh4S8zrZY>
- **Injae Park: Official Power BI MCP - Quick Start Guide [Nov 2025]**  
<https://www.youtube.com/watch?v=0ZRDTZm1ial>
- **Kurt Buhler: Agentic orchestration of Fabric by using the Fabric CLI (not MCP but super useful)**  
<https://tabulareditor.com/blog/agentic-orchestration-of-fabric-by-using-the-fabric-cli>



Download this presentation from [GitHub.com/pawelpo/presentations](https://GitHub.com/pawelpo/presentations)