



Microsoft Fabric & Power BI Türkiye  
User Group



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

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**With great power  
comes great  
responsibility.**



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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

Fabric Platform



Copilot



OneLake



Governance

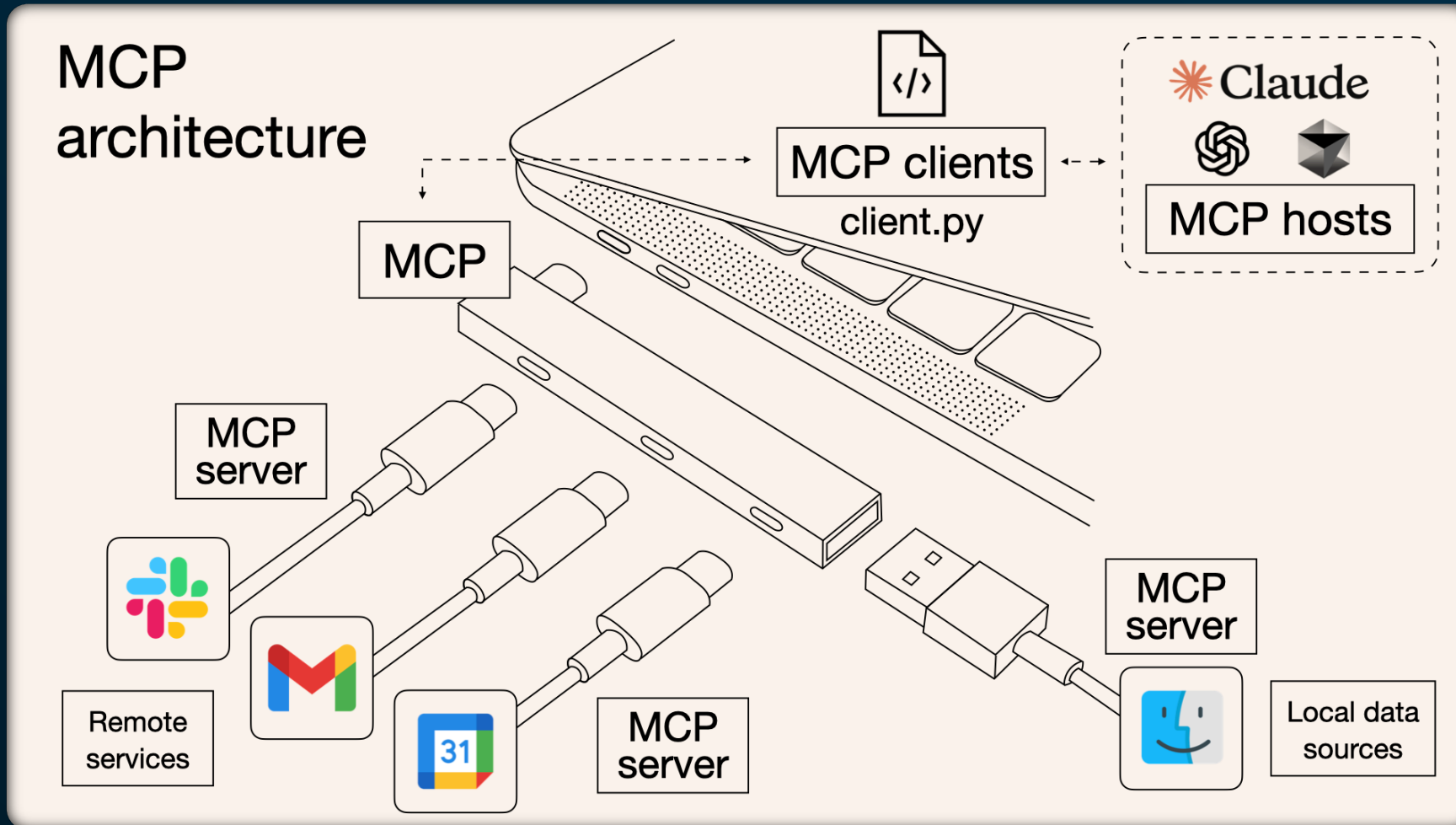
# What is MCP?

**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



# 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

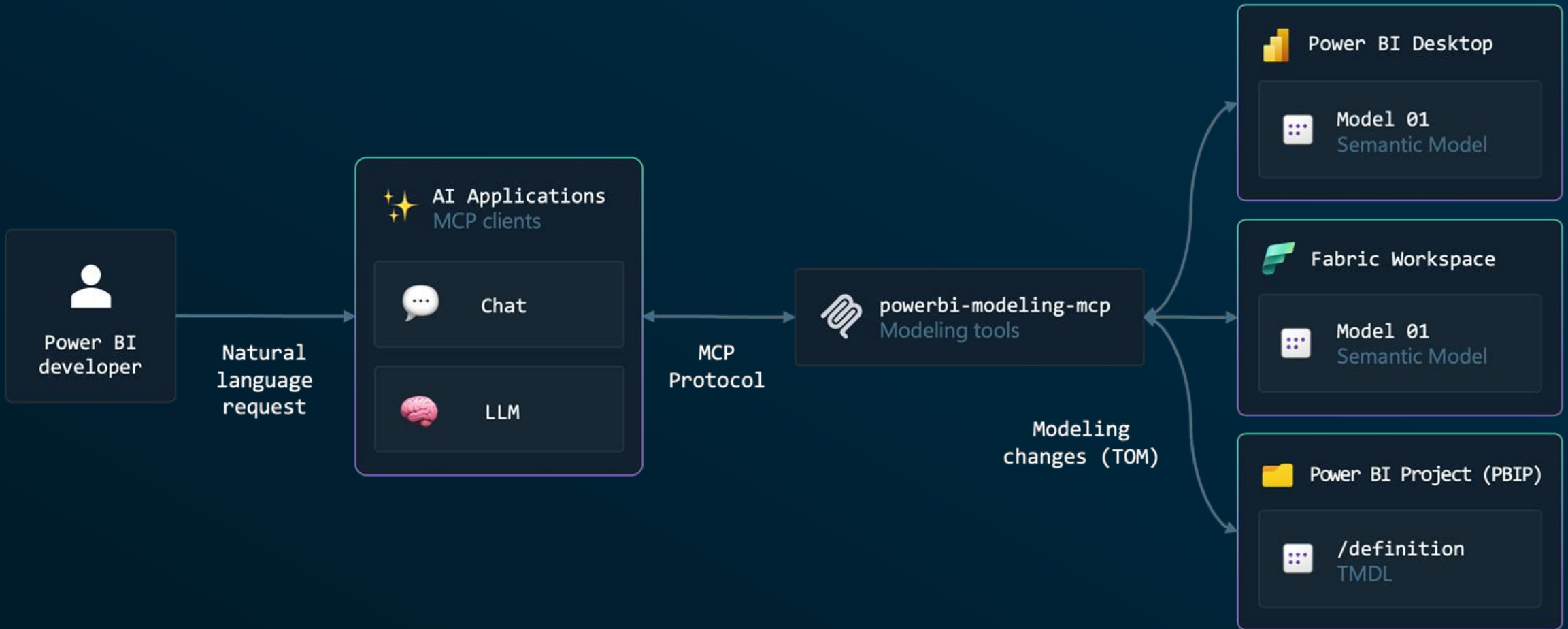
# DEMO

## 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



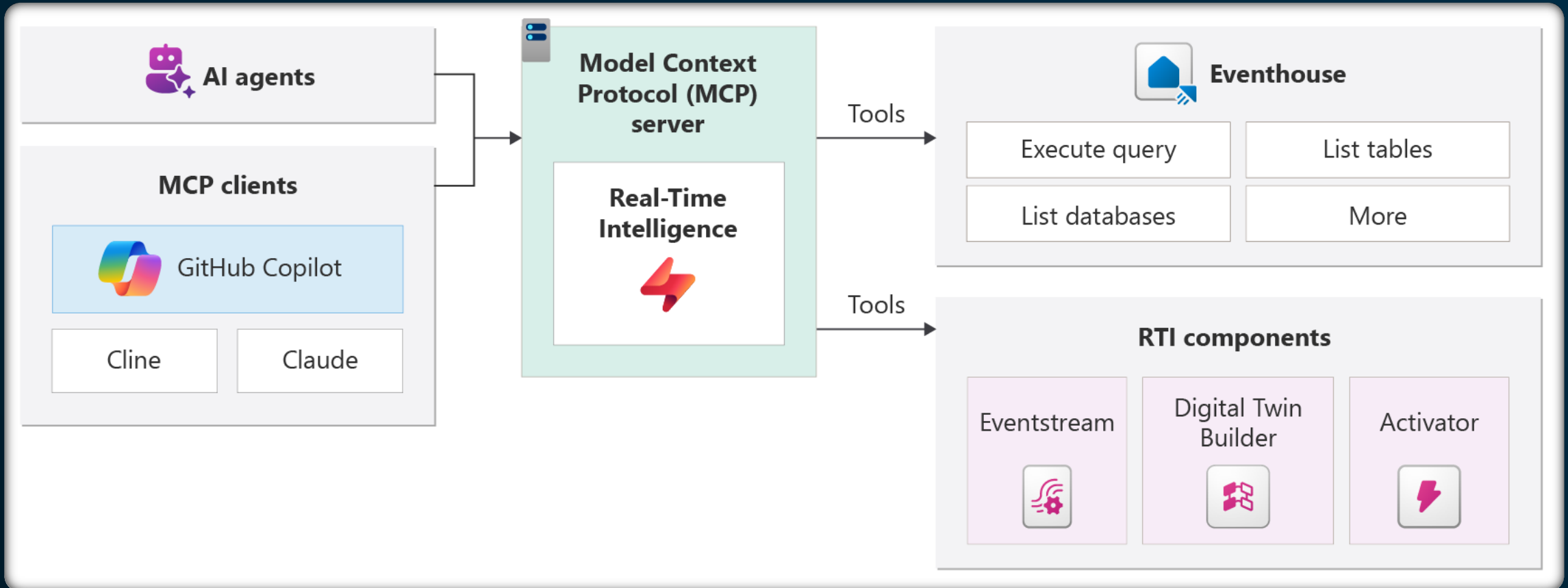
# DEMO

## 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

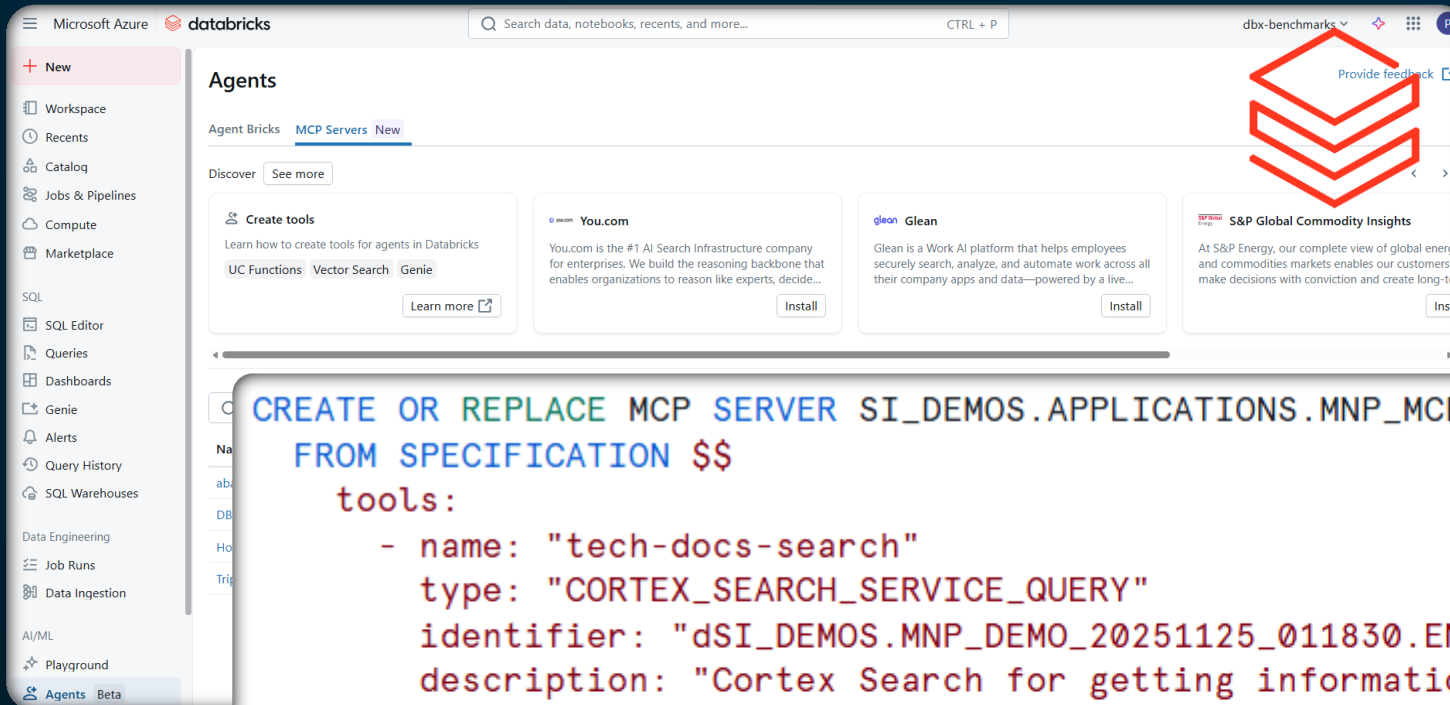
- Create new triggers with KQL source monitoring
- Set up email and Teams notifications when a condition occurs
- List Activator artifacts in workspaces

# DEMO

## Fabric RTI MCP Server



# How Fabric Compares in MCP vs Competitors?



```
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"

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# MCP Server Watchout List

- ⚠ **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 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>
- **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**