Azure Community Thailand

Introduction to Azure MCP Server

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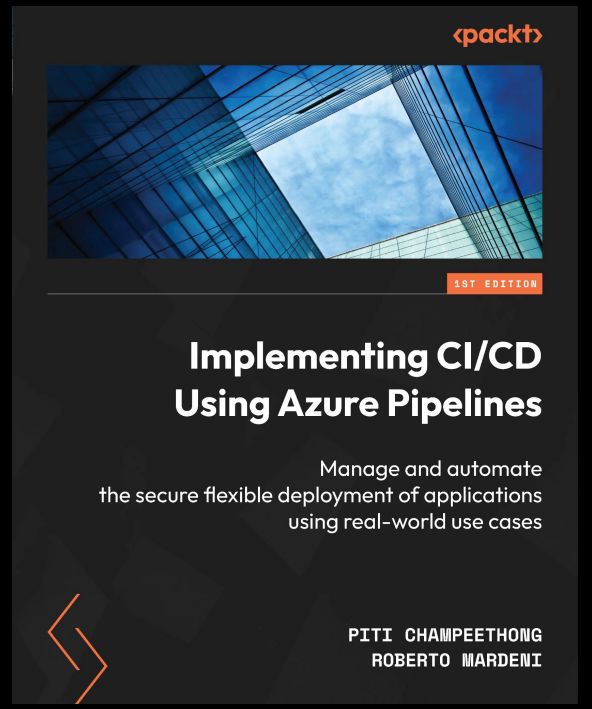
THAI TYPE

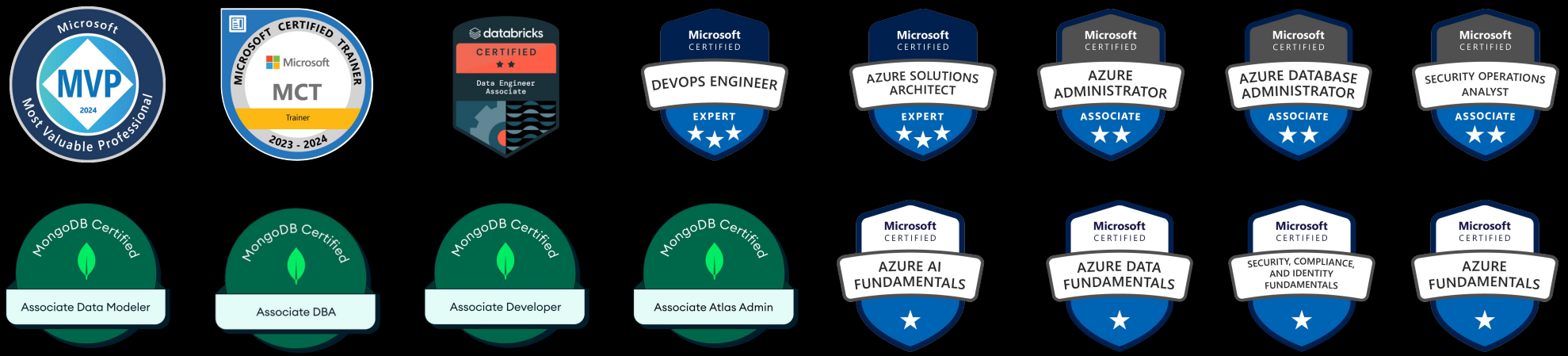
About Me

Piti (Fyi) Champeethong

Senior Consulting engineer (MongoDB)

Microsoft MVP (Developer Technologies)





https://github.com/ninefyi

Introduction to MCP

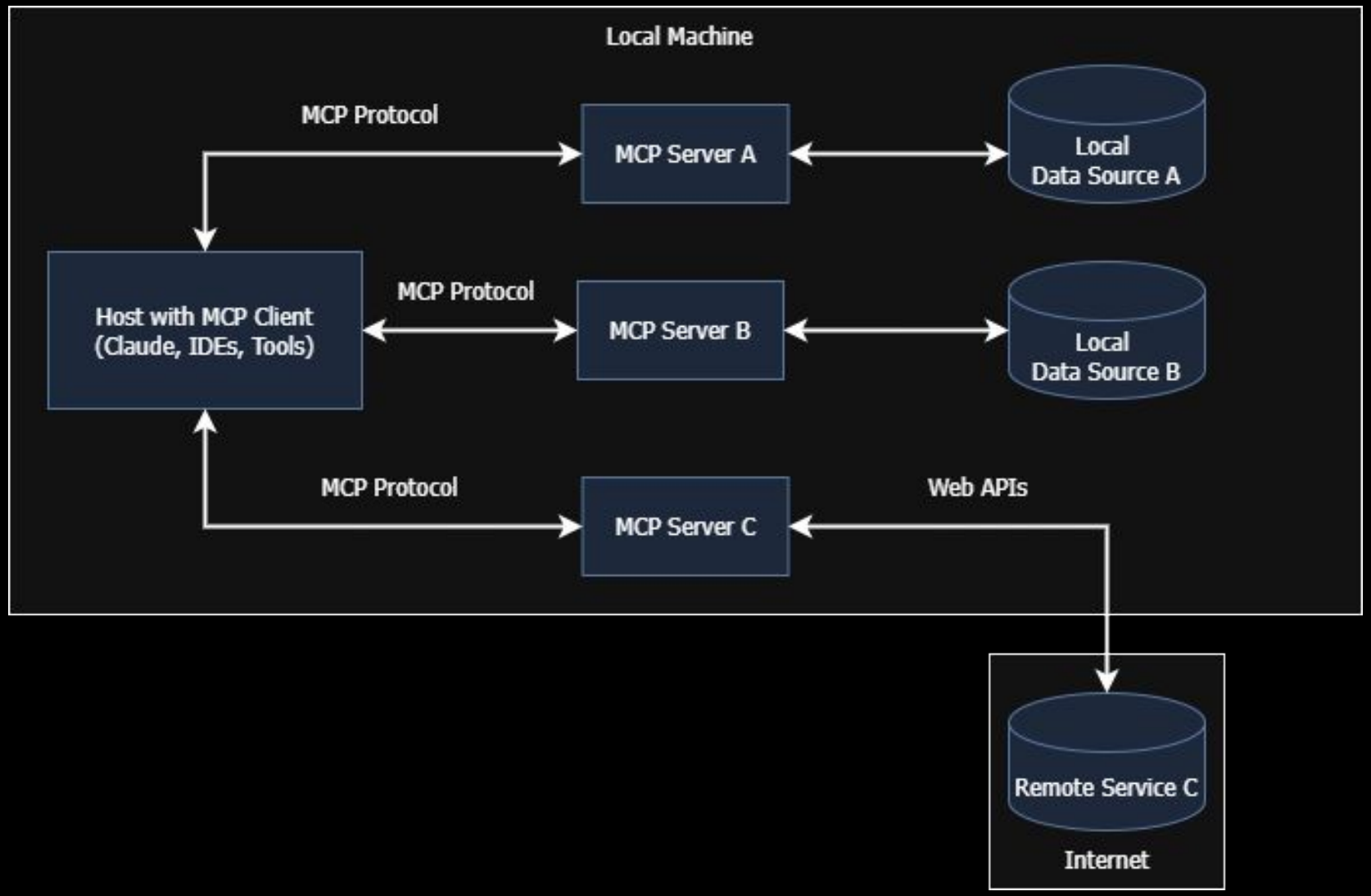
Model Context Protocol (MCP) is *an open protocol* that enables seamless *integration* between *LLM applications* and *external data sources* and *tools*. Whether you're building an AI-powered IDE, enhancing a chat interface, or creating custom AI workflows, MCP provides a standardized way to connect LLMs with the context they need.

References: https://modelcontextprotocol.io/specification/2025-03-26

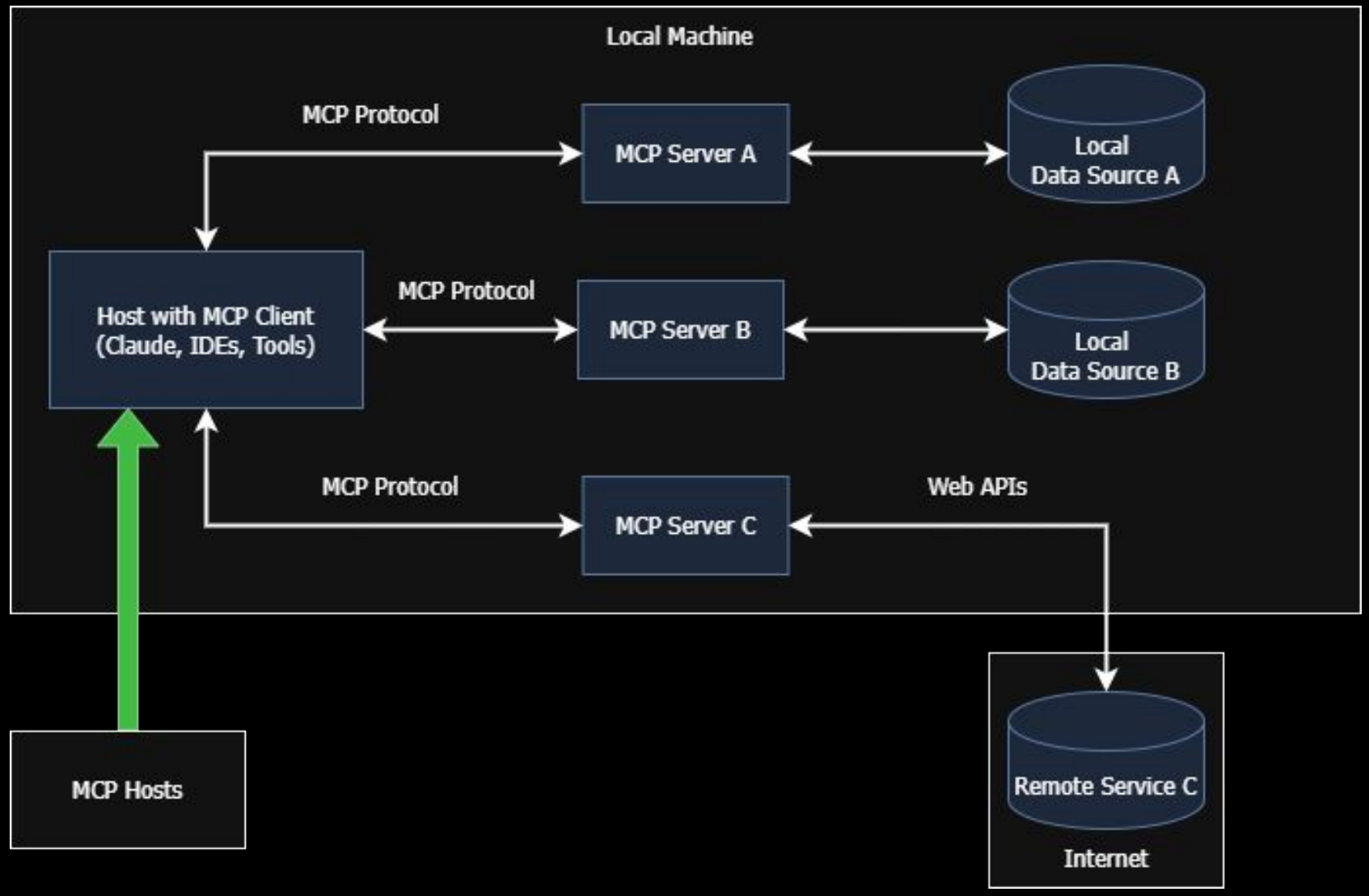
Key components of MCP

- MCP Hosts
- MCP Servers
- MCP Clients
- Local Data Sources
- Remote Services

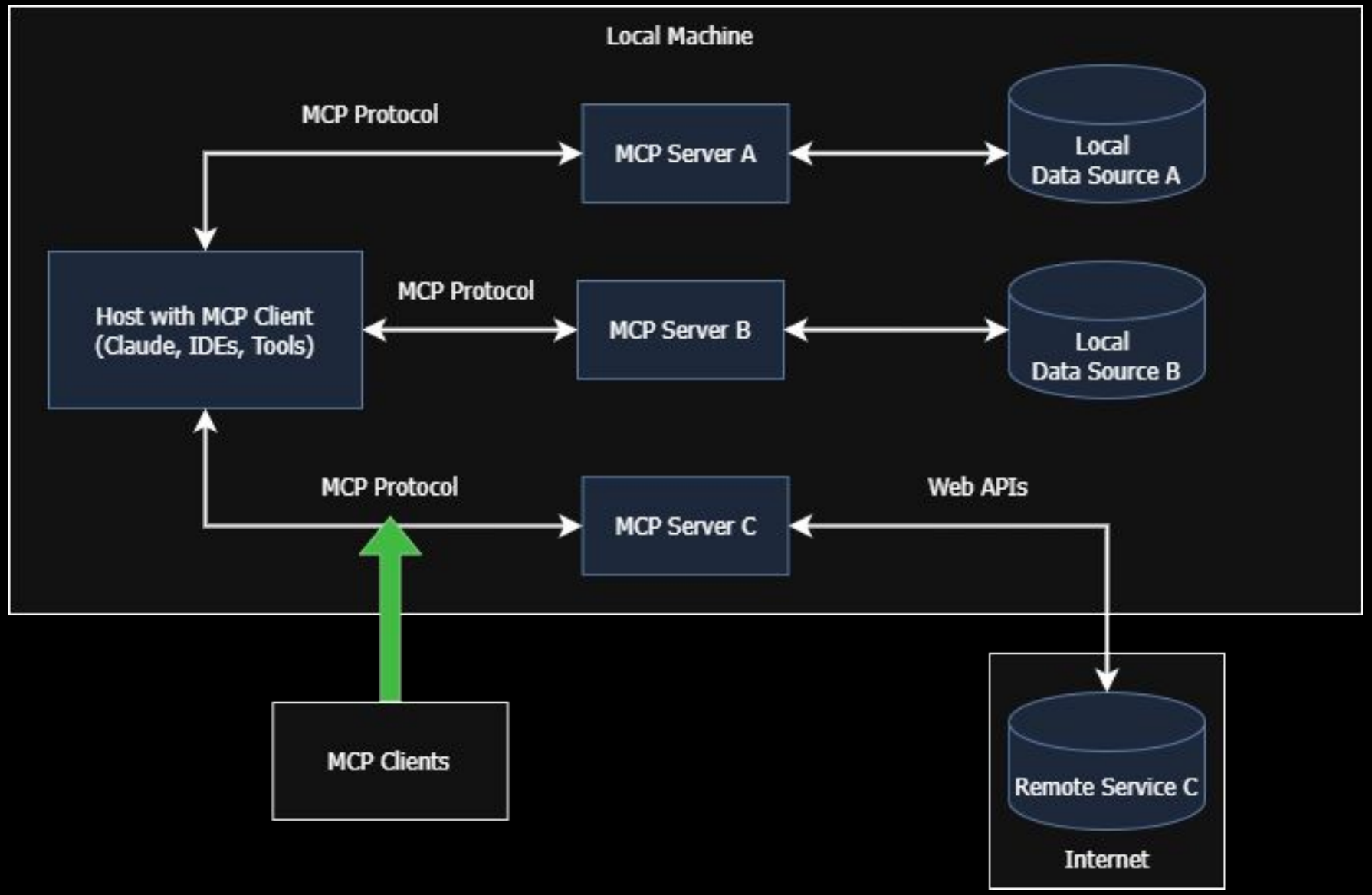
Key components of MCP



MCP Hosts


Local Machine
MCP Protocol
MCP Server A
Local
Data Source A
Host with MCP Client
(Claude, IDEs, Tools)
MCP Protocol
MCP Server B
Local
Data Source B
MCP Protocol
MCP Server C
Web APIs
MCP Hosts
Remote Service C
Internet

MCP Clients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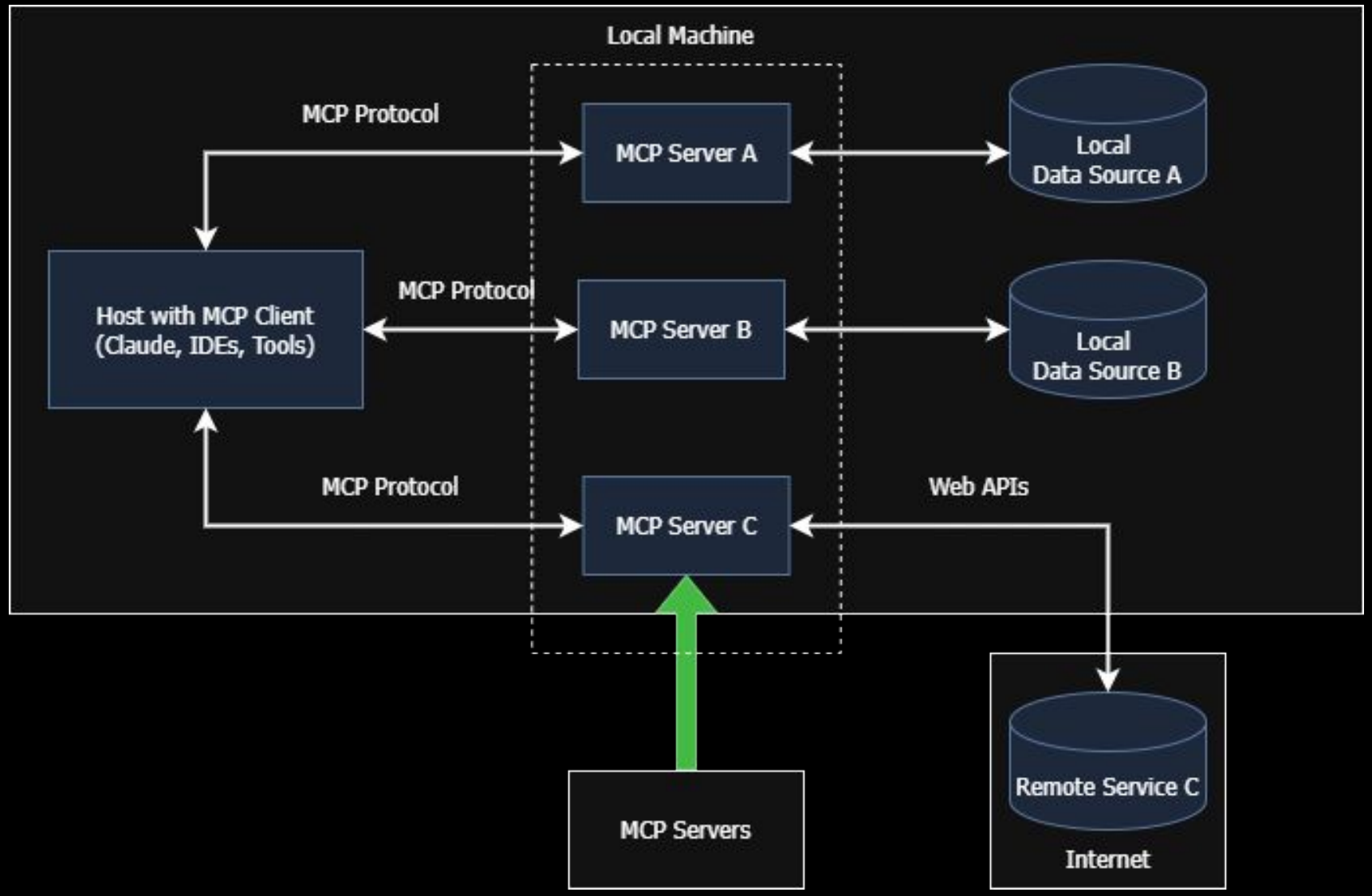
MCP Servers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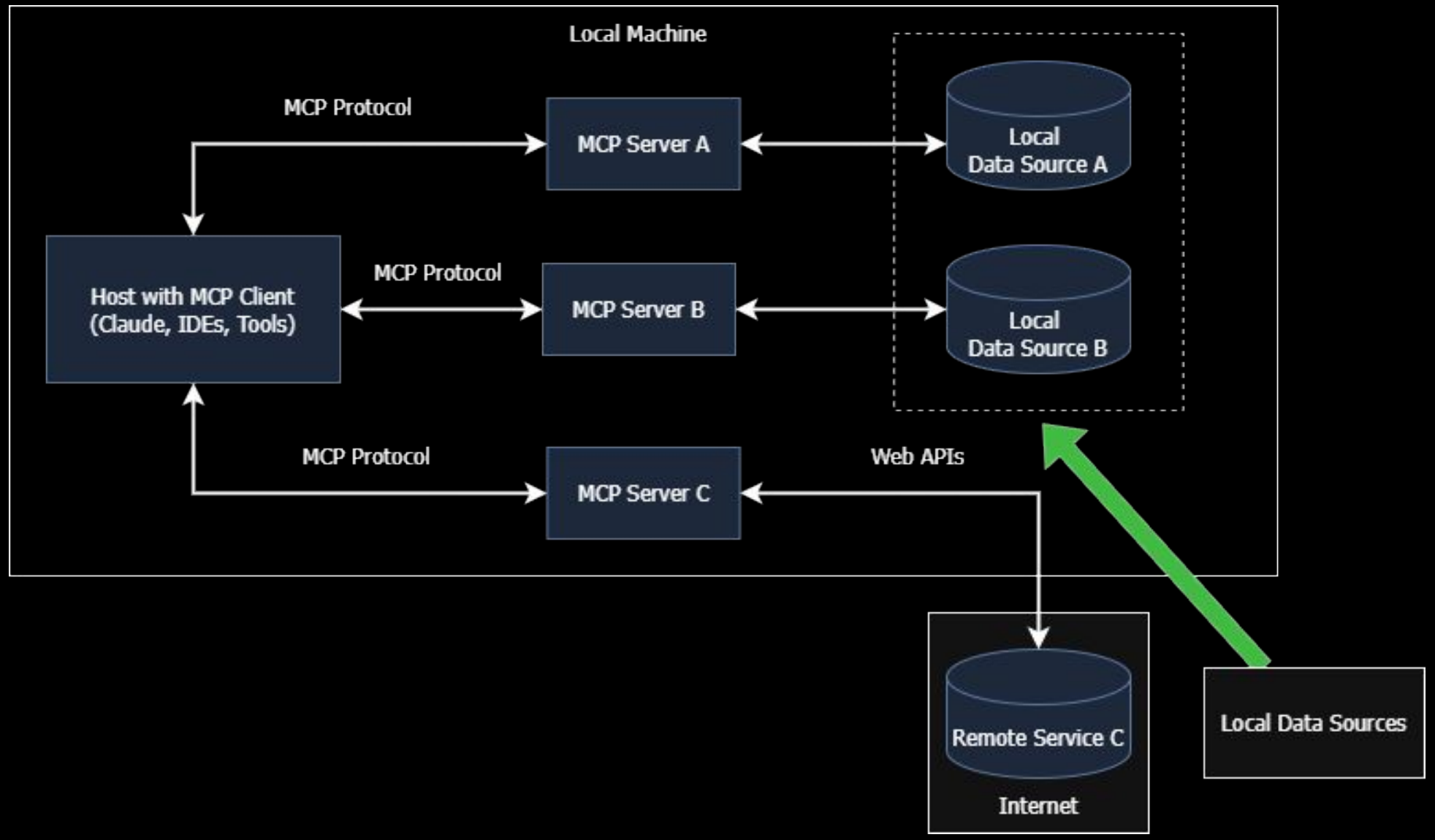
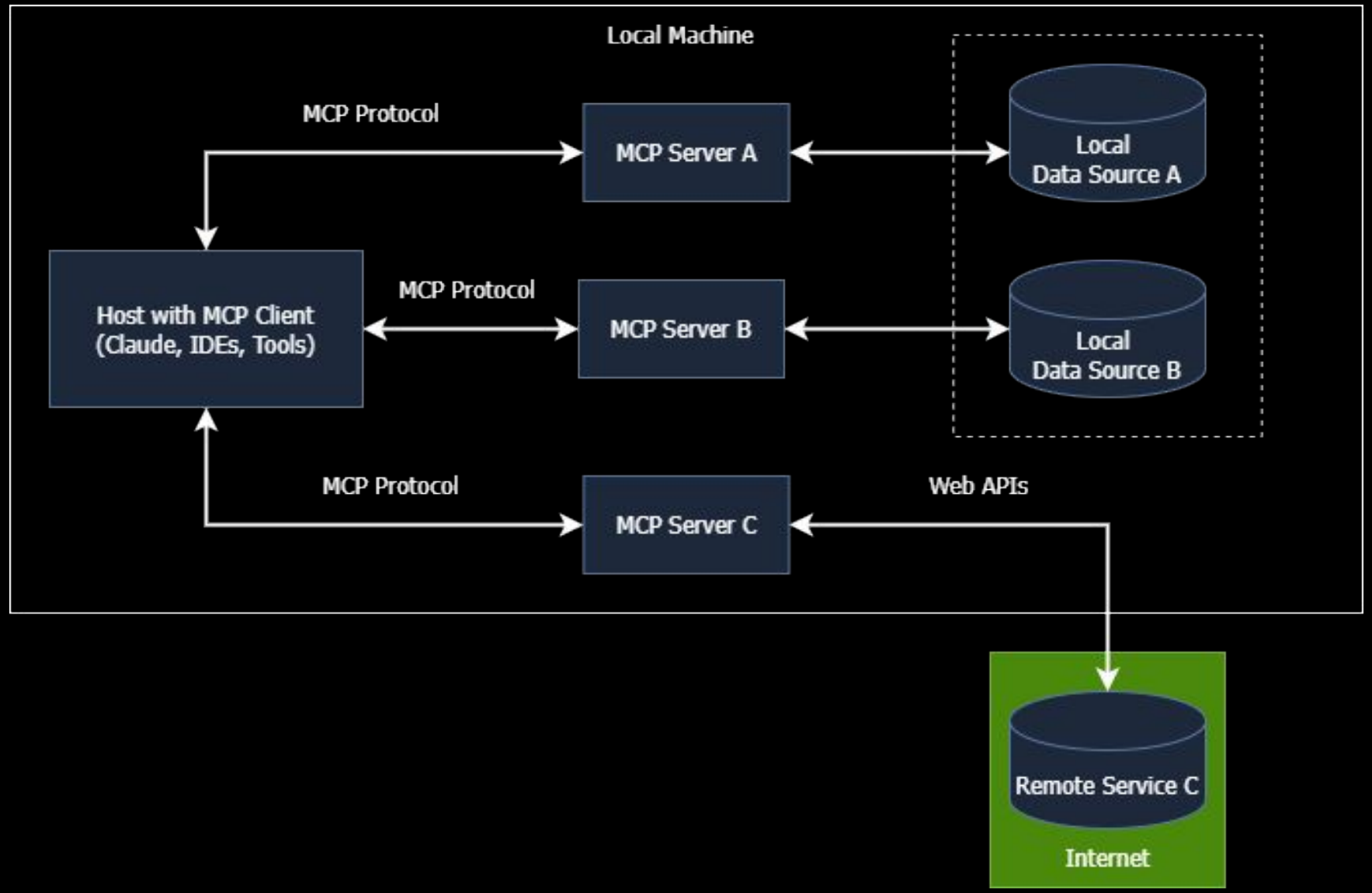
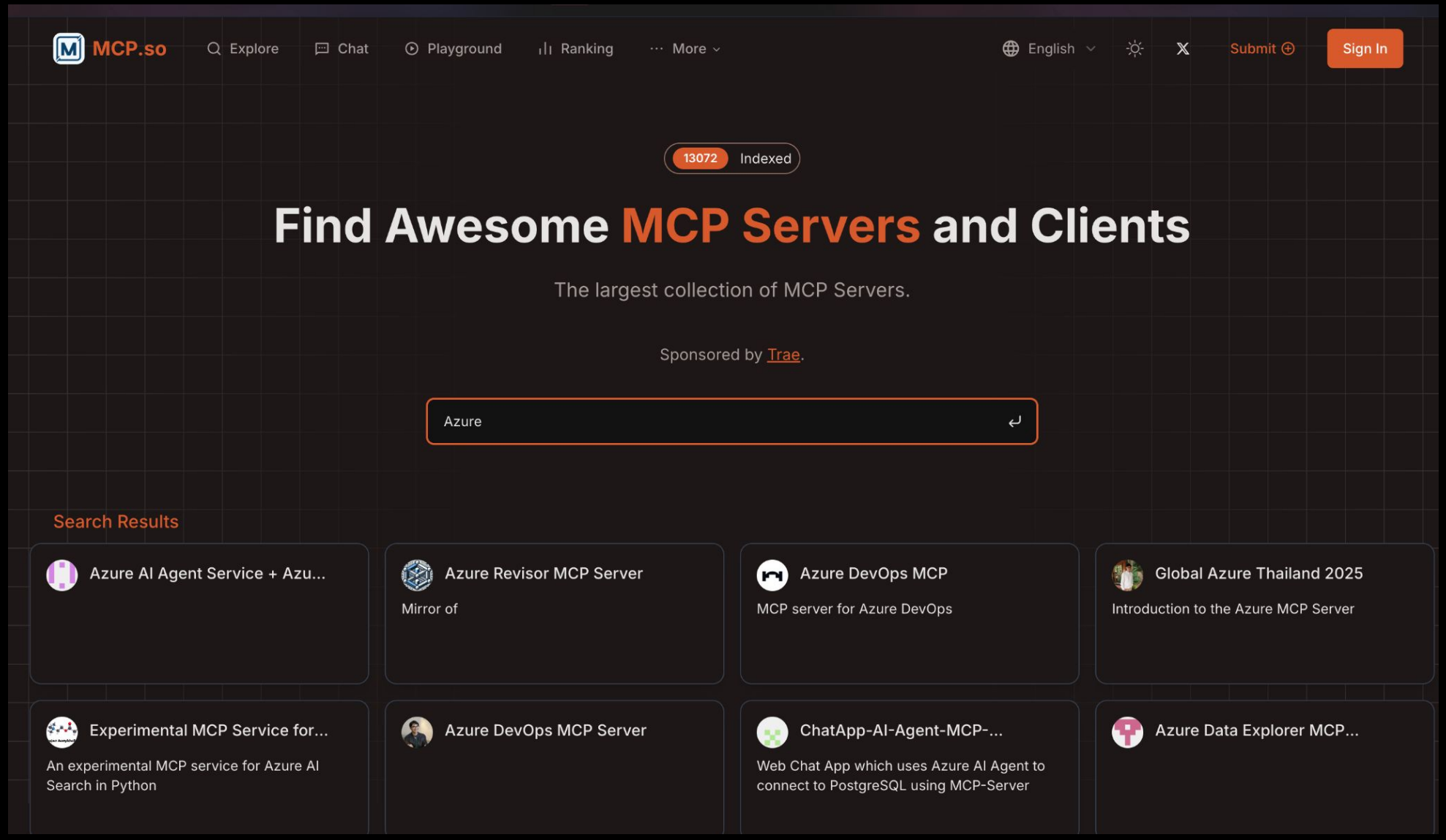
Local Data Sources



Remote Services



MCP Servers and Clients



Azure MCP Server

- Azure Cosmos DB (NoSQL databases)
- Azure Storage
- Azure Monitor (Log Analytics)
- Azure App Configuration
- Azure CLI
- Azure Developer CLI (azd)

Azure OpenAI service

- Intelligent contact centers.
- Content generation.
- Workflow automation.
- Data-driven insights
- Accessibility

Demo..demo..demo

References

- https://github.com/ninefyi/global-az-thailand-25
- https://devblogs.microsoft.com/azure-sdk/introducing-the-azure-mcp-server/
- https://modelcontextprotocol.io/introduction
- https://www.gradio.app/guides/building-an-mcp-client-with-gradio
- https://medium.com/@vkrishnan9074/mcp-clients-stdio-vs-sse-a53843d9aabb
- https://mcp.so

Thank you!