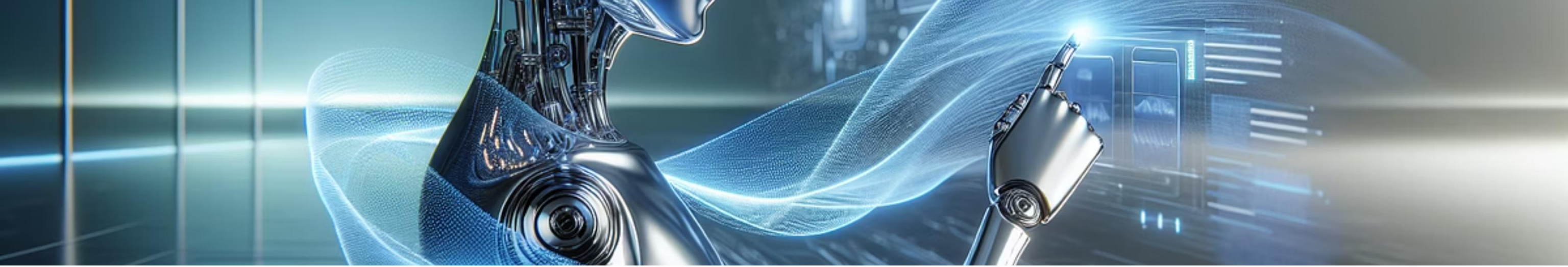


Exposing Your Logic App As An MCP Server

What, Why, and How?





Introduction

1 What MCP servers are

Understanding the fundamentals of Model Context Protocol

2 Why they're game-changing

The impact on enterprise automation and AI integration

3 How to implement in Logic Apps

Practical steps to expose Logic Apps as MCP endpoints

About Me



Stephen W. Thomas

22 Year Microsoft MVP

Recognized expert in Microsoft
technologies

YouTube: @StephenWThomas

Educational content and tutorials

Web: www.StephenWThomas.com

Learn: www.StephenWThomas.com/Learn-MCP



What is MCP?

Model Context Protocol

First open-sourced in November 2024

Released by Anthropic as a groundbreaking protocol

Universal, open standard protocol

Designed for seamless integration across platforms

Allows AI agents external access

Extends AI capabilities beyond the LLM boundaries



MCP vs Traditional APIs

MCP: AI-Native APIs

- Exposes APIs to LLMs in structured, standardized manner
- Acts as adapters/wrappers around existing processes
- Optimized for AI agent consumption

Traditional APIs

- Generic interfaces for human developers
- Broader use cases beyond AI
- Require manual integration work

Think of MCP as "AI-native APIs" - purpose-built for intelligent agent interaction

The MCP Ecosystem

Explore the rapidly growing MCP community and resources that are driving enterprise adoption worldwide.



Popular MCP Servers

[MCPServers.org](https://mcpServers.org) - Discover and explore community-built MCP servers for various use cases



Community & Documentation

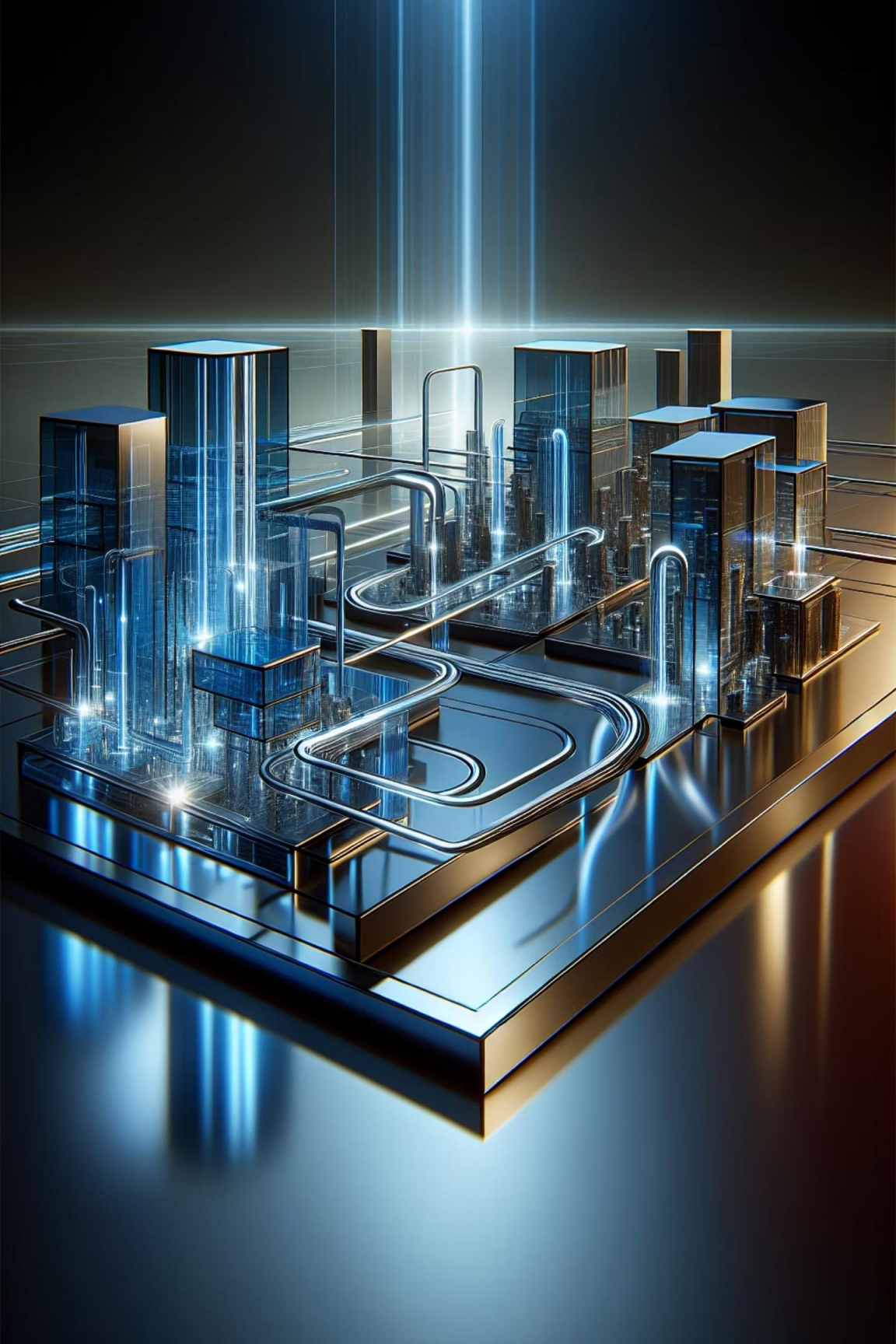
[GitHub Repository](#) - Access documentation, contribute, and connect with developers



Rapid Growth

Growing rapidly with enterprise adoption across industries and use cases





MCP Options with Logic Apps

Two approaches to integrate your Logic Apps with the MCP ecosystem, each offering unique advantages for different scenarios.

1. API Center

- Centralized catalog and discovery
- Adds Easy-auth automatically

2. Expose Existing Workflows

- Leverage current investments

Important Considerations

- ❏ Protocol-Level Shortcomings - The MCP ecosystem is evolving rapidly, but some areas need attention

1

Security Models

Security frameworks are still maturing and require careful evaluation

2

Stateful REST API Handling

Complex state management scenarios may need additional consideration

3

Error Handling Standardization

Error handling patterns are still being standardized across implementations



Security Caution

Not all MCP Servers are vetted or safe. Always review and test third-party MCP servers before deployment in production environments.

01

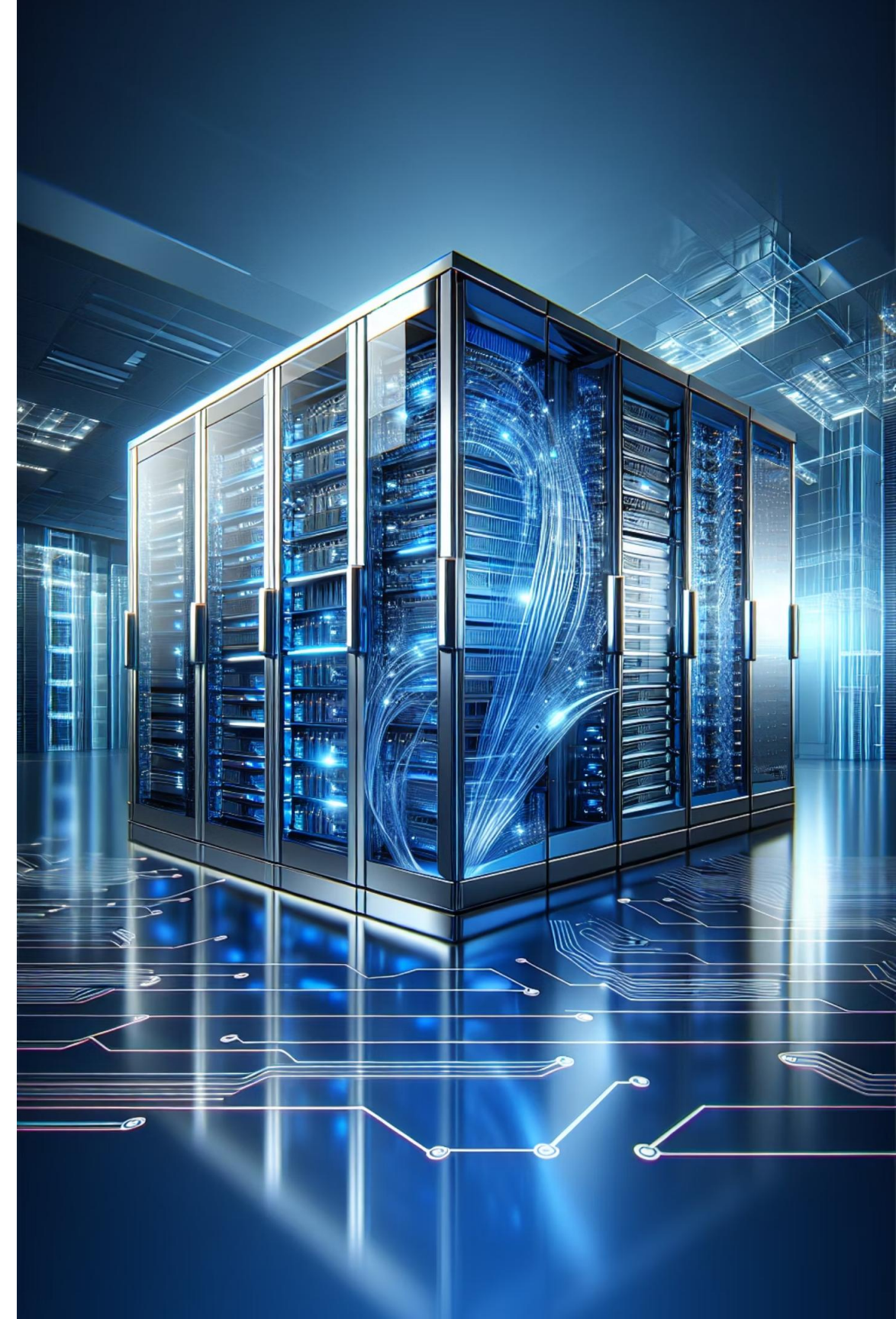
Know your Source

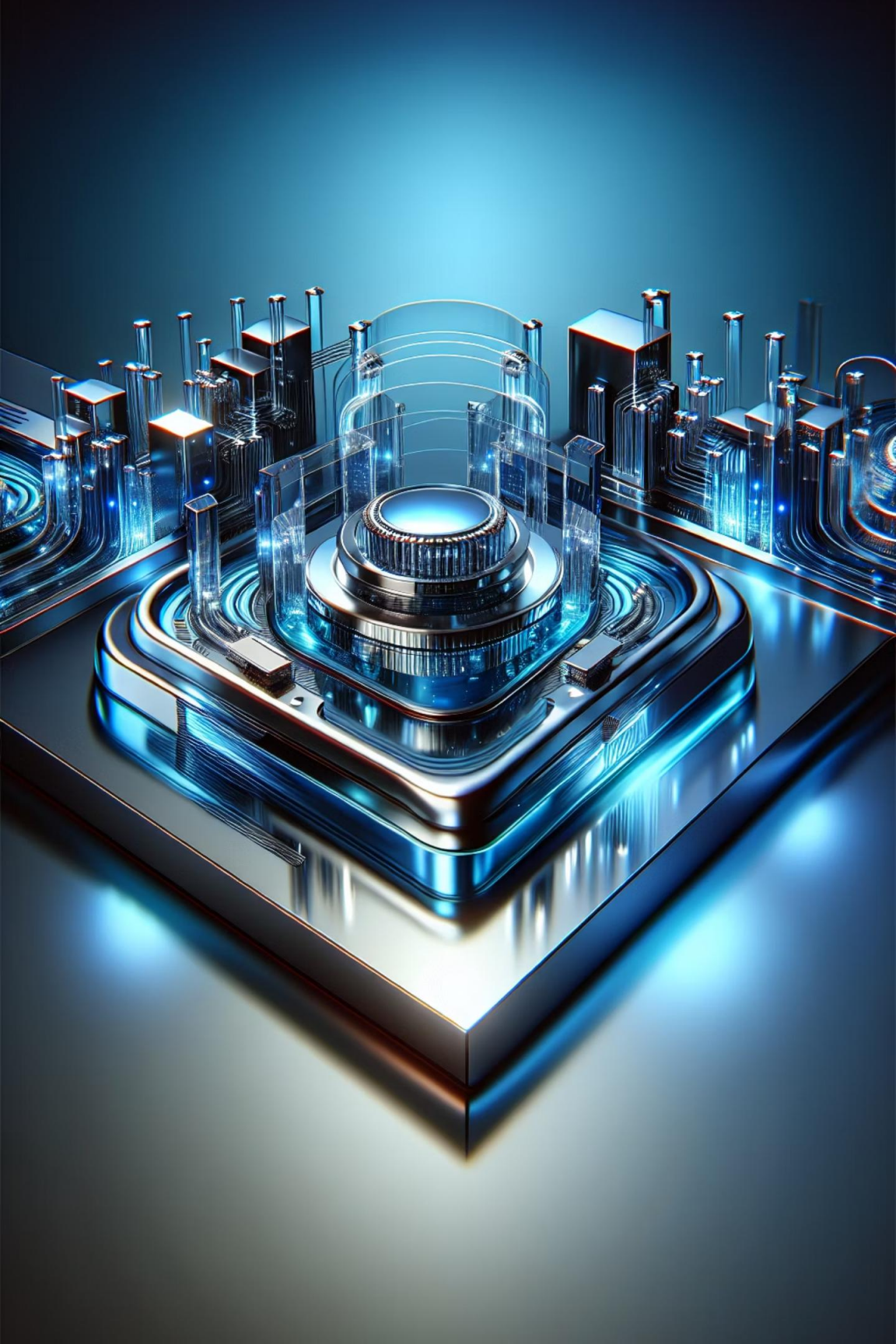
Know the companies you are working with

02

Avoid sending PII & Secrets

Avoid sending sensitive personal or company data





Why Use MCP with Logic Apps?

1400+

Connectors Available

Instantly accessible to AI agents through MCP integration



Massive Trusted Connector Library

1400+ connectors instantly available to AI agents without additional development



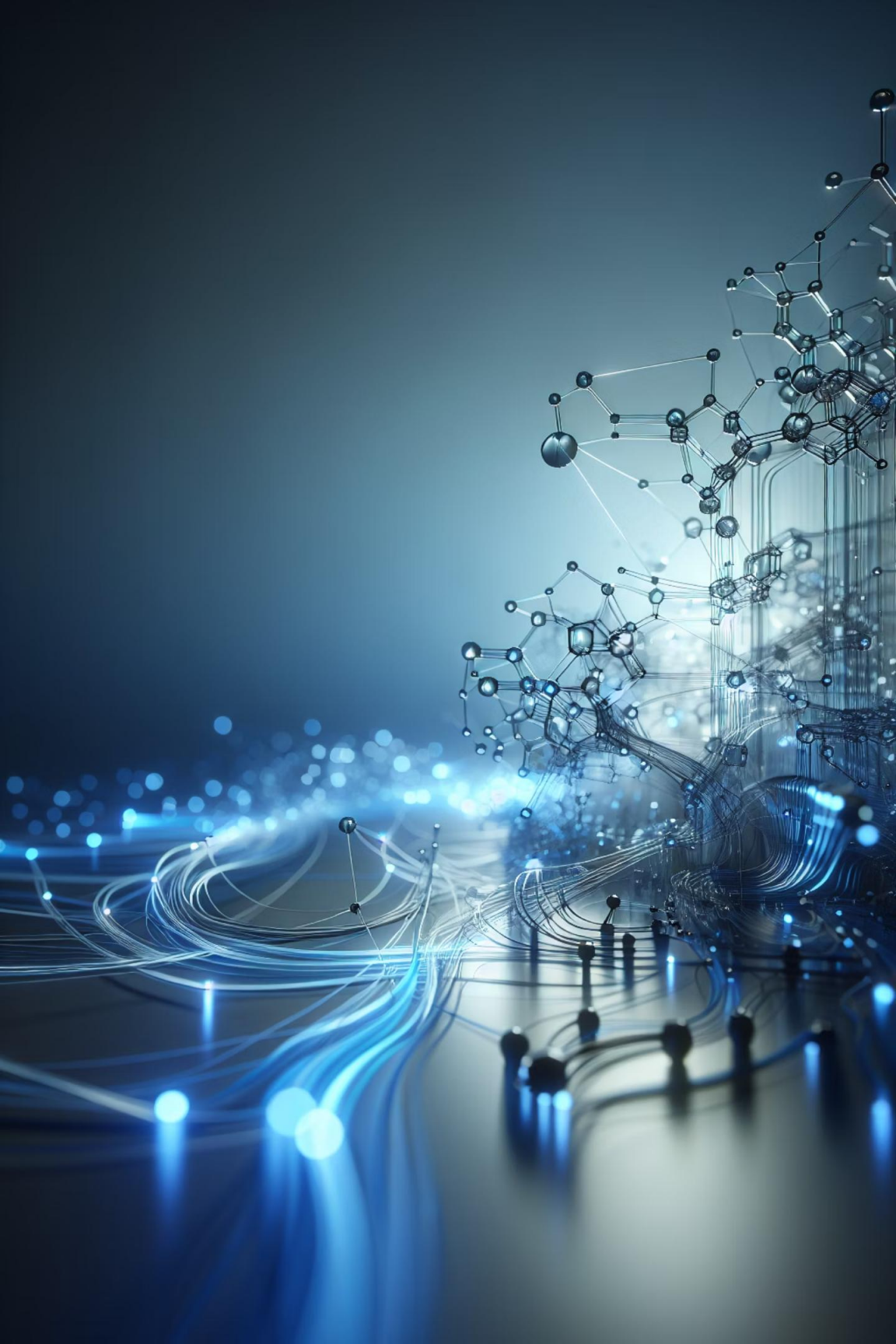
Reuse Tested Workflows

Leverage existing, battle-tested workflows without rewriting code or logic



We know Logic Apps Dev Ops!

With Logic Apps we get tracking, management, and deployment out of the box



How to Implement

in Logic Apps

Demo 1: Create Google Drive MCP Server

Using API
Center(APIC)

01

Connect to Google Drive

Establish secure connection to Google Drive services

02

Configure MCP endpoints

Set up MCP-compatible endpoints for AI agent access

03

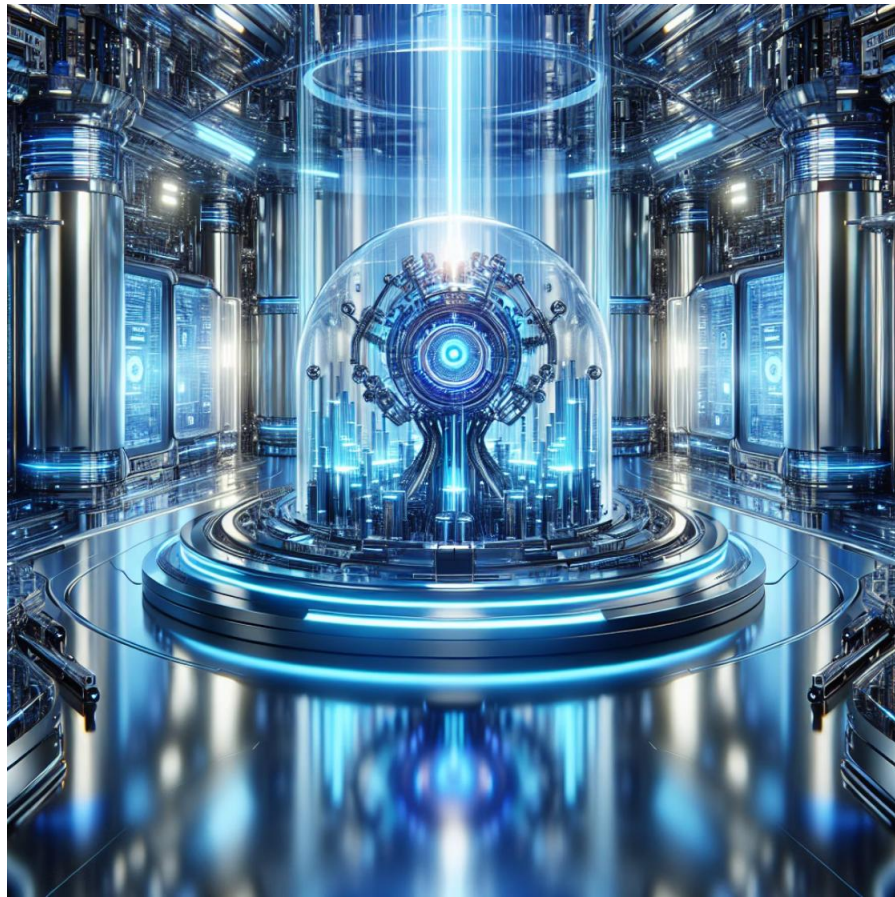
Test with AI agent

Validate functionality through AI agent interaction



Demo 2: Expose Existing Workflow

Image Generation as MCP Endpoint



1

Use existing Logic App workflow

Leverage your current Logic Apps

2

Configure as MCP tool

Transform the workflow into an MCP-compatible endpoint

3

Make available to AI agents

Enable AI agents to trigger image generation through natural language



Demo 3: End-to-End Integration

AI Agent Chat → Auto-create images

1

Local Agent Chat Interface

Start with natural language conversation

2

Generate Images

AI processes request and creates images through Logic Apps

Questions & Discussion

Let's Connect

 Email

Stephen@StephenWThomas.com

 YouTube

@StephenWThomas

 Website

www.StephenWThomas.com

Thank you for your attention! I'm excited to hear your questions and discuss how MCP can transform your Logic Apps into powerful AI-accessible tools.

