

# LeanIX MCP Server Integration with Microsoft Copilot Studio

Setup using OAuth 2.0 or API Token authentication

**Purpose**

This guide explains how to configure the LeanIX MCP Server as a Model Context Protocol tool in Microsoft Copilot Studio and add it to an agent.

## 1. Overview

### 1.1 Purpose

This document explains how to configure the LeanIX MCP Server as a tool connection in Microsoft Copilot Studio. It provides two setup options: OAuth 2.0 authentication and API Token authentication.

Once configured, a Copilot Studio agent can use the MCP Server to query LeanIX architecture data and return results directly in conversational experiences.

### 1.2 Authentication Methods

| Method    | Recommended For                                 | Runs As                                         | Key Consideration                                                    |
|-----------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|
| OAuth 2.0 | Production and user-facing agents               | Authenticated user or maker-provided connection | Best for secure enterprise use, consent flow, and manageable access. |
| API Token | PoC, testing, or controlled service-account use | Token owner or technical user                   | Requires careful token storage, rotation, and access governance.     |

## 2. Method 1: OAuth 2.0 Authentication

### 2.1 Overview

OAuth 2.0 authentication allows Copilot Studio to connect to LeanIX through a consent-based connection. This is the preferred pattern when the setup should use an authenticated connection rather than a static token.

### 2.2 Step 1: Create the MCP Tool in Copilot Studio

1. Open Microsoft Copilot Studio.

2. Go to Tools.
3. Select New tool.

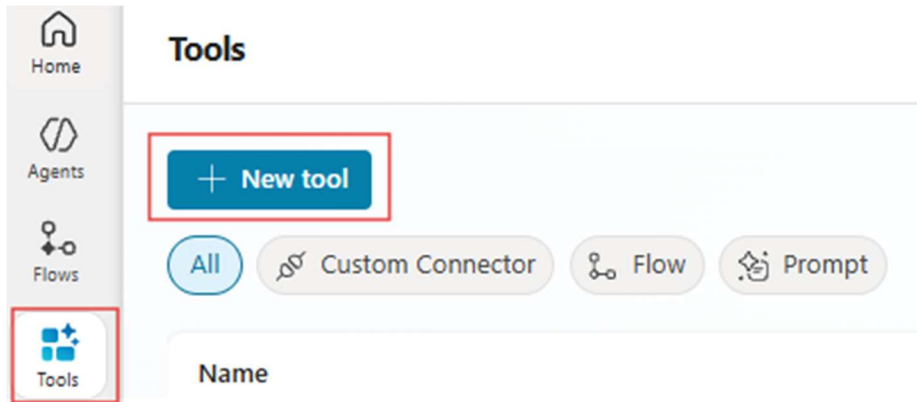


Figure 1: New tool option in Copilot Studio.

4. On the next screen, choose Model Context Protocol.

## New tool

Let your agent do more. [Learn more](#)

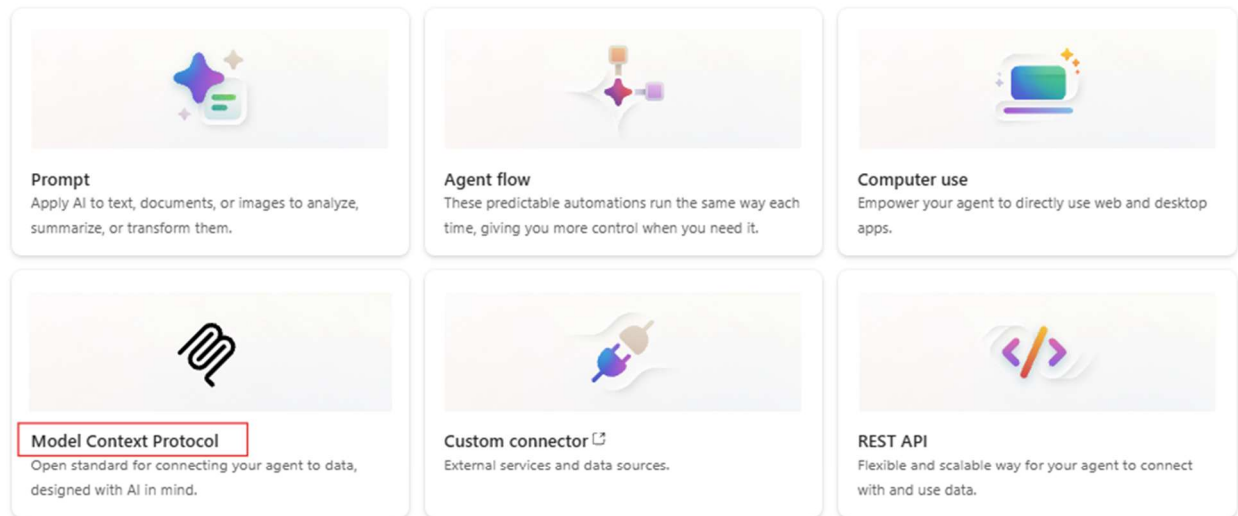


Figure 2: Model Context Protocol option in the new tool dialog.

5. Enter the MCP Server details and select OAuth 2.0 with Dynamic Discovery.



## Model Context Protocol

Server name \*

Server name...

Server description \*

Describes the purpose of the server...

Server URL ⓘ \*

Streamable endpoint

Enter the complete server path to continue

Authentication

☐ None

☐ API key

☒ OAuth 2.0

Type

☒ Dynamic discovery

☐ Dynamic

☐ Manual

Your MCP server must support OAuth 2.0 Dynamic Client Registration (DCR) to enable Dynamic Discovery Authentication.

If DCR is not supported, authentication may fail. Please verify that your server exposes a valid *registration\_endpoint* in its OpenID configuration. [Learn more](#)

Create

Figure 3: OAuth 2.0 configuration for the MCP Server.

| Field              | Value                                                                                                                                   |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Server Name        | LeanIX MCP Server                                                                                                                       |
| Server Description | Connect external AI applications to SAP LeanIX using the Model Context Protocol server to securely access enterprise architecture data. |
| Server URL         | https://mcp.leanix.net/services/mcp-server/v1/mcp                                                                                       |
| Authentication     | OAuth 2.0                                                                                                                               |
| Type               | Dynamic Discovery                                                                                                                       |

Once all details are filled in, click Create. This adds a new tool named “LeanIX MCP Server.”

## 2.3 Step 2: Add the Tool to Your Agent

1. Go to the Agents tab and open your agent.
2. Under the agent, go to the Tools tab and select Add a tool.

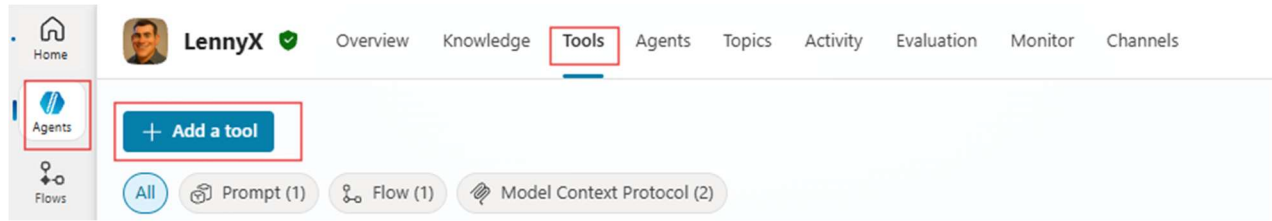


Figure 4: Add a tool from the agent Tools tab.

3. Search for the tool created earlier, in this example LeanIX MCP Server, and select it.

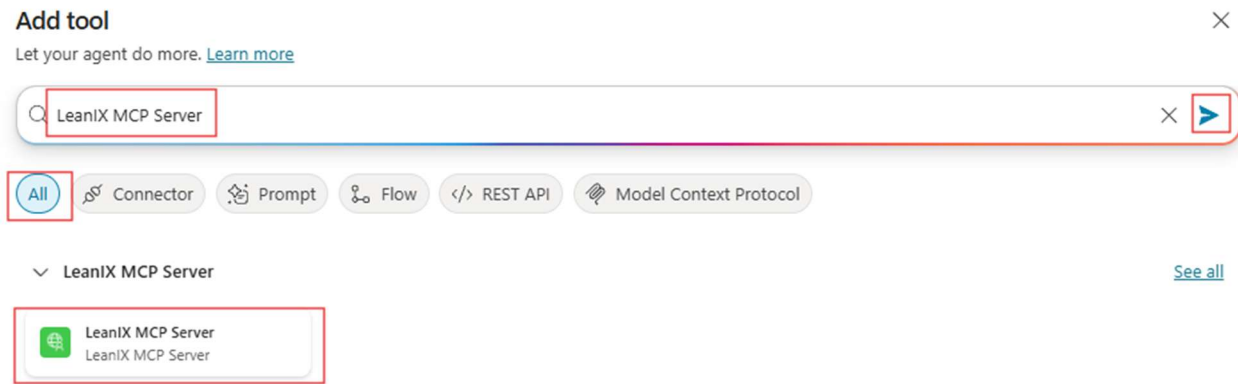


Figure 5: Search and select the LeanIX MCP Server tool.

4. Create or select a connection that will be used by the agent.

**Add tool**Let your agent do more. [Learn more](#)**LeanIX MCP Server**

Connect external AI applications to SAP LeanIX using the Model Context Protocol (MCP) server to securely access enterprise architecture data.

Connection

Not connected

Connections

LennyX

Create new connection

Back

Add and configure

Cancel

Figure 6: Create a new connection for the OAuth-based LeanIX MCP Server.

5. Provide an optional display name, click Create, consent to the requested permissions, and enter your production LeanIX instance when prompted.

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### LeanIX MCP Server

Connect external AI applications to SAP LeanIX using the Model Context Protocol (MCP) server to securely access enterprise architecture data.

**Display name (optional)**

**Create** **Cancel**

Figure 7: Create the OAuth connection and provide a display name.

- After the connection succeeds, confirm the green check mark appears next to the connection. If end users should not be prompted to authenticate when using the agent, set Credentials to use to Maker-provided credentials.

**Details**  
Inputs  
Tools  
Resources

#### Details

What it is, how it operates, and how the orchestrator identifies it. [Learn more](#)

**Name \***

**Server**  
 LeanIX MCP Server LeanIX MCP Server

**Available to**  
 LennyX

**Connection**  
 LennyX 

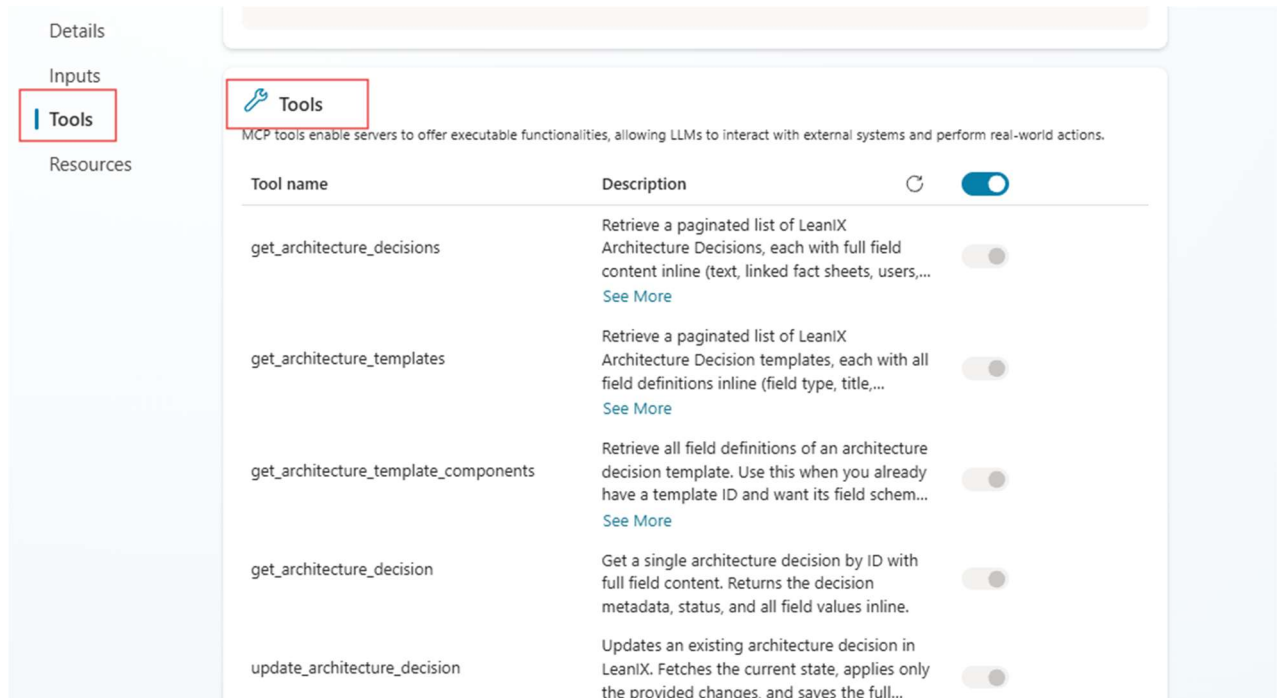
**Additional details**

**Ask the end user before running**  
Recommended for sensitive or regulated domains or when making changes for the user

**Credentials to use**  
Control whether this action uses credentials you provide, or those of the end user.

*Figure 8: Successful OAuth connection and maker-provided credential option.*

7. Verify that the tools are available, enable the required tools, and test the agent. It may take some time for all tools to appear.

*Figure 9: Available MCP tools after successful configuration.*

## 3. Method 2: API Token Authentication

### 3.1 Overview

API Token authentication uses a static LeanIX token instead of an interactive user sign-in. This can be useful for controlled testing, proof-of-concept work, or service-account based scenarios.

### 3.2 Step 1: Generate a LeanIX API Token

- Open LeanIX administration and generate a new Technical User token with the minimum permissions required. In this example, Viewer permissions are used.
- Store the token securely according to your organization's credential handling process.

### 3.3 Step 2: Create the MCP Tool in Copilot Studio

1. Open Microsoft Copilot Studio.
2. Go to Tools.
3. Select New tool.
4. Choose Model Context Protocol.
5. Enter the MCP Server details and select API key authentication.

X



### Model Context Protocol

Server name \*

Server name...

Server description \*

Describes the purpose of the server...

Server URL ⓘ \*

Streamable endpoint

Enter the complete server path to continue

Authentication

☐ None

☒ API key

☐ OAuth 2.0

Type

☒ Header

☐ Query

Header name \*

Authorization

Create

Figure 10: API Key configuration for the MCP Server.

| Field              | Value                                                                                                                                   |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Server Name        | LeanIX MCP API                                                                                                                          |
| Server Description | Connect external AI applications to SAP LeanIX using the Model Context Protocol server to securely access enterprise architecture data. |
| Server URL         | https://{YOUR_DOMAIN}.leanix.net/services/mcp-server/v1/mcp                                                                             |
| Authentication     | API Key                                                                                                                                 |
| Header name        | Authorization                                                                                                                           |

Once all details are filled in, click Create. This adds a new tool named “LeanIX MCP API.”

### 3.4 Step 3: Add the API Token Tool to Your Agent

1. Go to the Agents tab and open your agent.
2. Under the agent, go to the Tools tab and select Add a tool.
3. Search for the tool created earlier, in this example LeanIX MCP API, and select it.

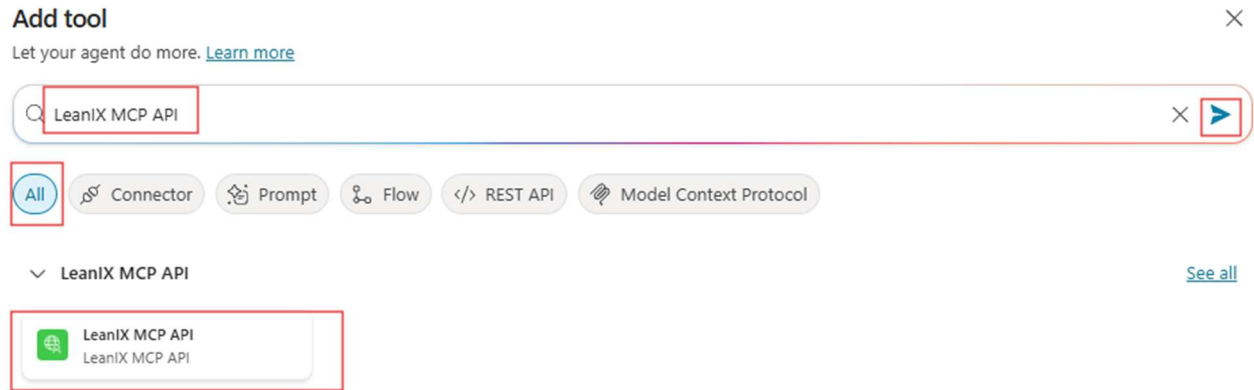


Figure 11: Search and select the LeanIX MCP API tool.

4. Create or select a connection that will be used by the agent.

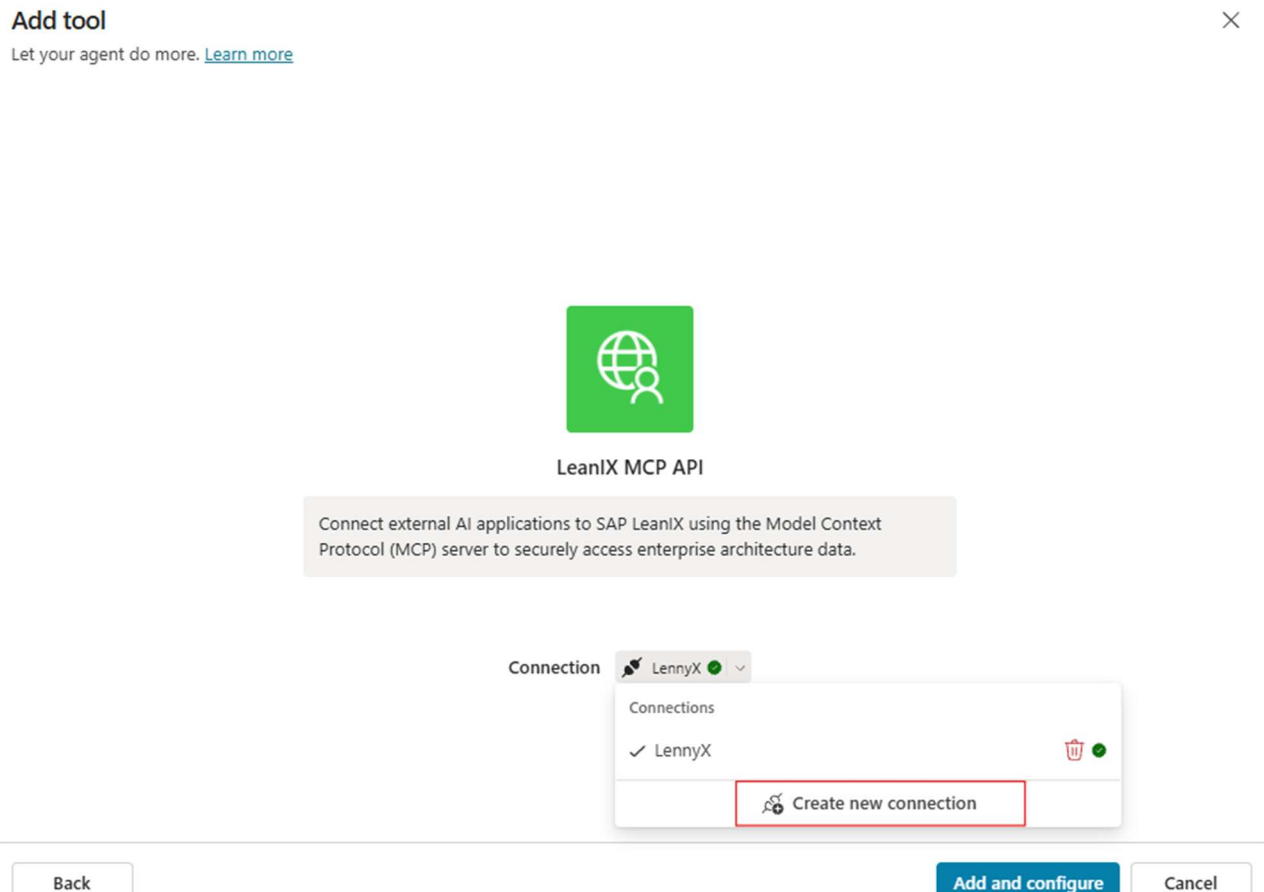
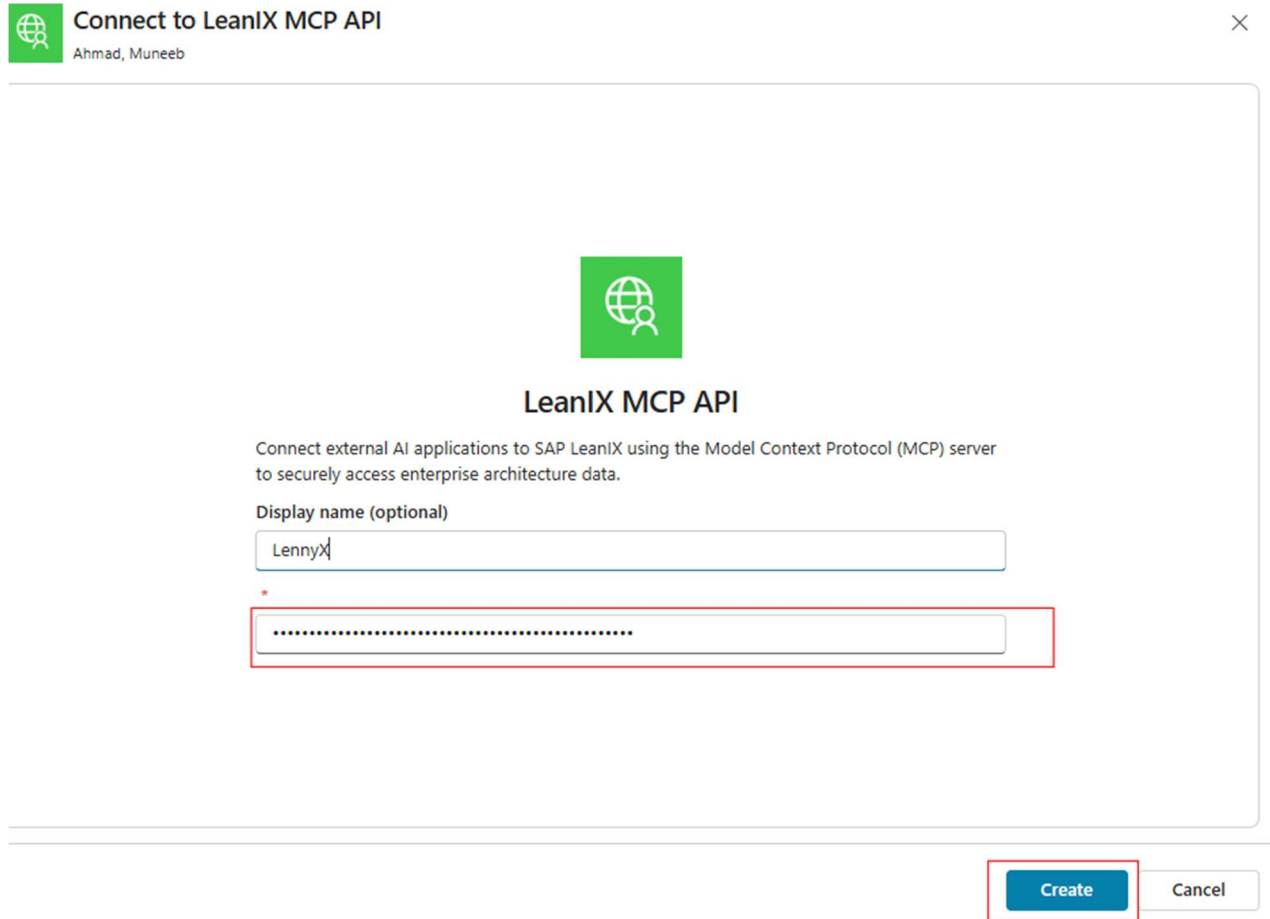


Figure 12: Create a new connection for the API Token-based LeanIX MCP tool.

5. Provide an optional display name.
6. In the token field, enter the value using the format: Token {Your token}. This means the word Token, followed by a space, followed by your token.
7. Click Create.



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**LeanIX MCP API**

Connect external AI applications to SAP LeanIX using the Model Context Protocol (MCP) server to securely access enterprise architecture data.

Display name (optional)

LennyX

\*

.....

**Create** Cancel

Figure 13: Enter the token value for the API Token connection.

8. After the connection succeeds, confirm the green check mark appears next to the connection.
9. Set Credentials to use to Maker-provided credentials so end users are not prompted for a token.

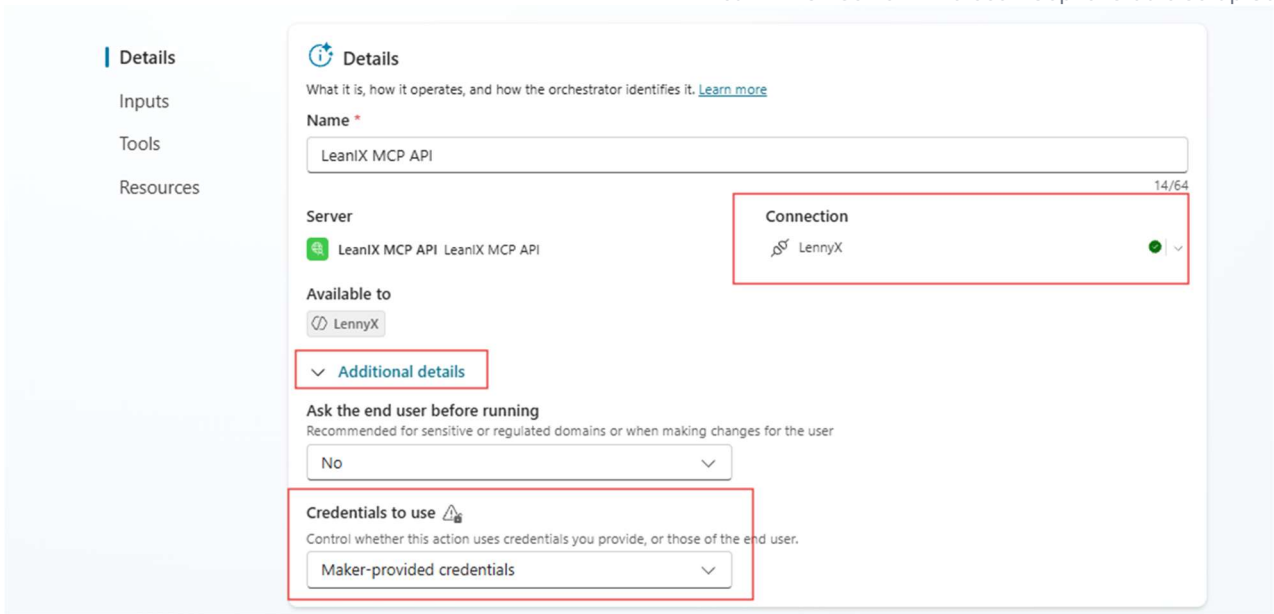


Figure 14: Successful API Token connection and maker-provided credential option.

10. Verify that the tools are available, enable the required tools, and test the agent. It may take some time for all tools to appear.

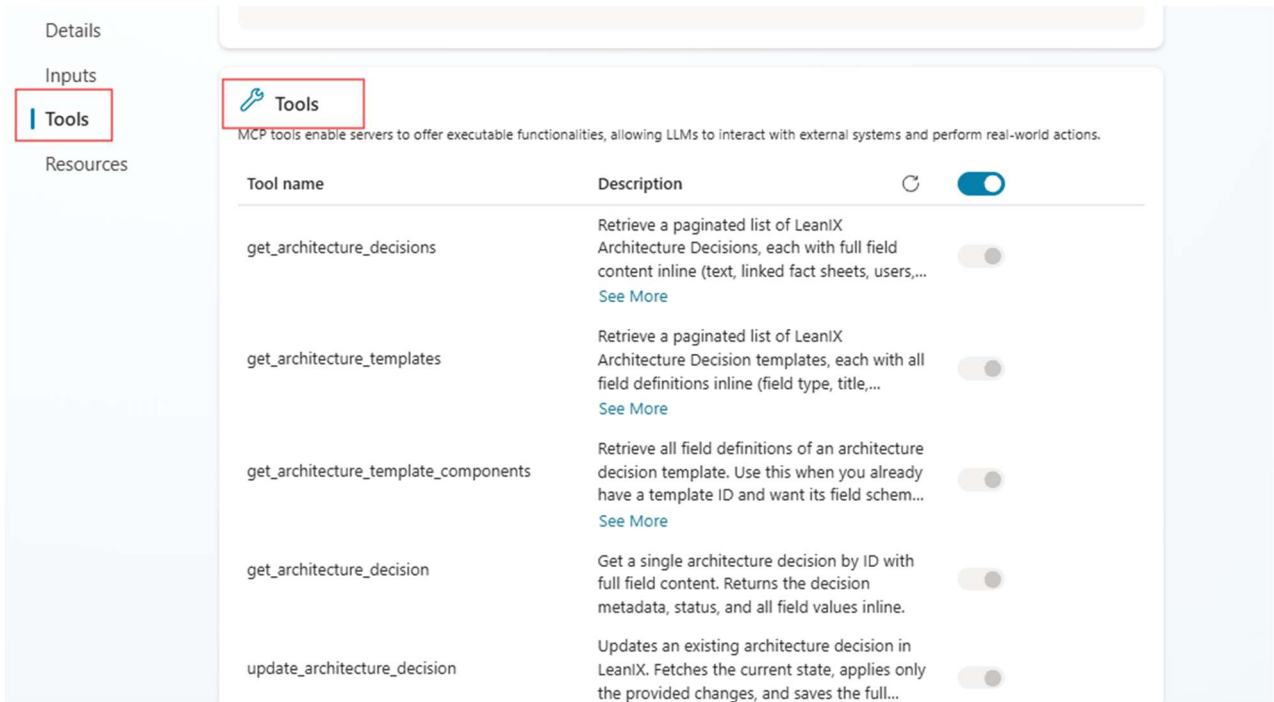


Figure 15: Available MCP tools after successful configuration.