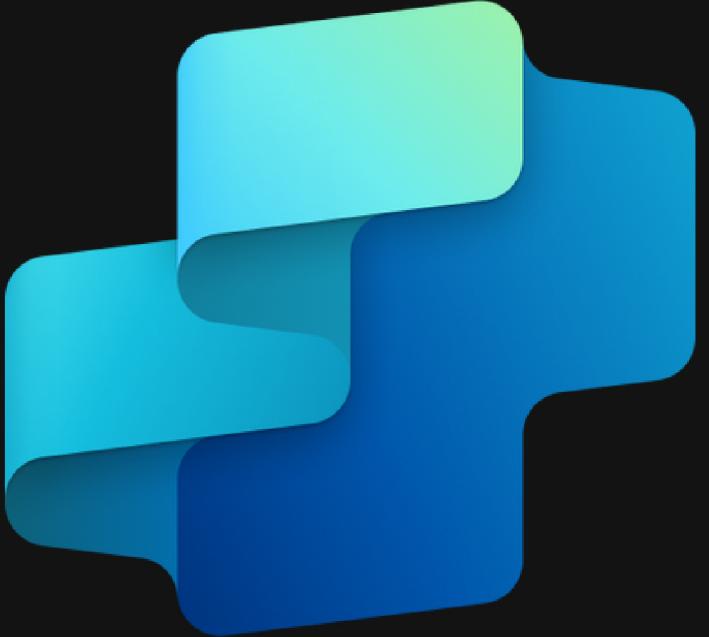


- 17 -

AI plugins Mastery
in Microsoft Copilot Studio



MONTHLY MASTERY

FEATURE-A-DAY

with Copilot Studio



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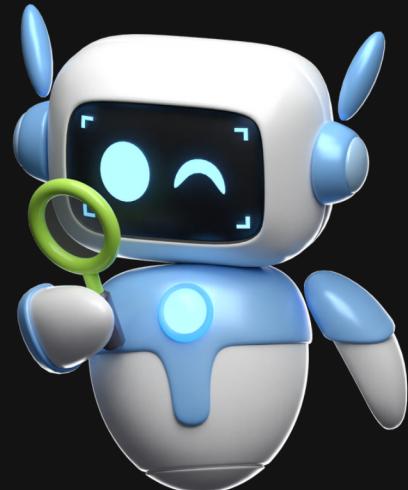


AI plugins

Introduction

AI plugins elevate your Copilot by integrating complex AI tasks, such as natural language understanding and data processing, into the chat flow.

They come in various forms, including prompt plugins utilizing AI Builder, connectors to external data sources, and custom automations with Power Automate.



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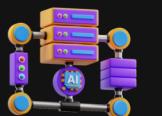
AI plugins

Types



Prompt Plugins

Harness AI Builder and natural language understanding for specific business scenarios and workflows



Flow Plugins

Utilize Power Automate flows for actions, data retrieval, and processing



Connector Plugins

Access data from external systems like Salesforce or GitHub using Power Platform connectors



OpenAI Plugins

Integrate custom OpenAI models for advanced AI interactions



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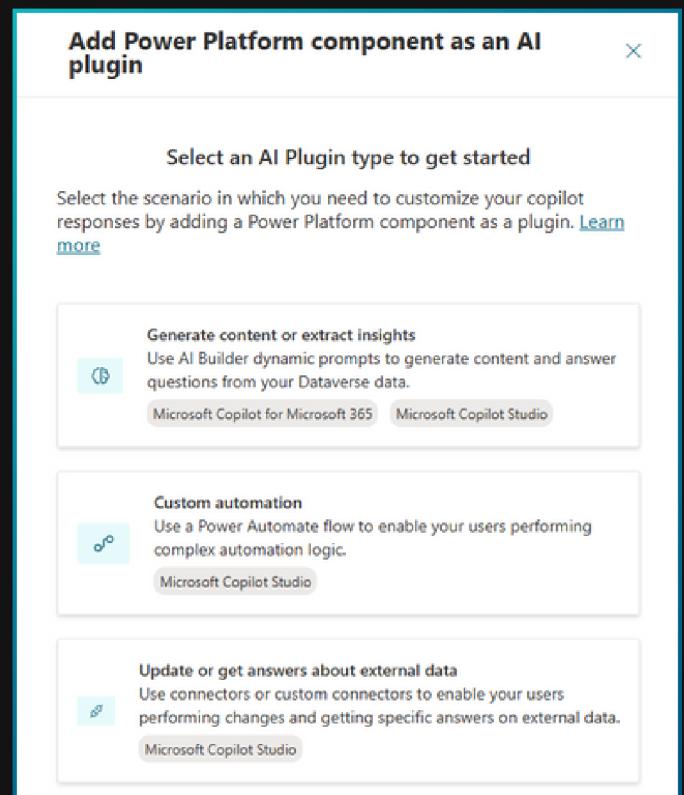
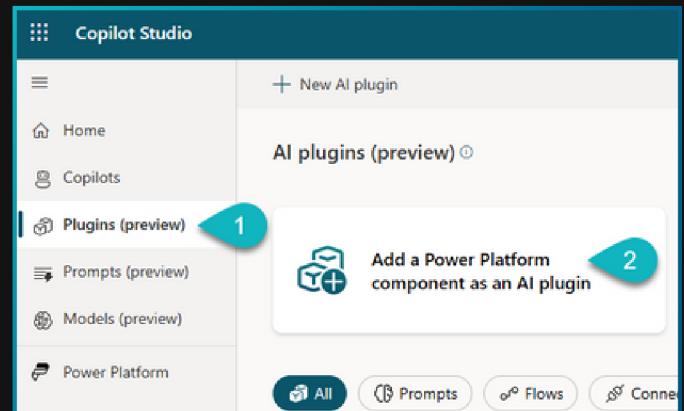
AI plugins

Create

Creating AI plugins in Copilot Studio is a straightforward process:

1. Navigate to [Plugins \(preview\)](#) within Copilot Studio
2. Select the option [Add a Power Platform component as an AI plugin](#)
3. Select the required AI Plugin type

Add a Power Platform component as an AI plugin

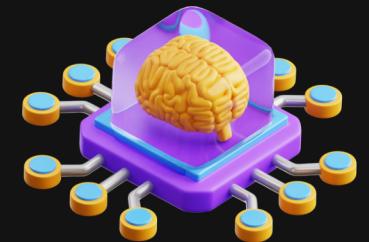


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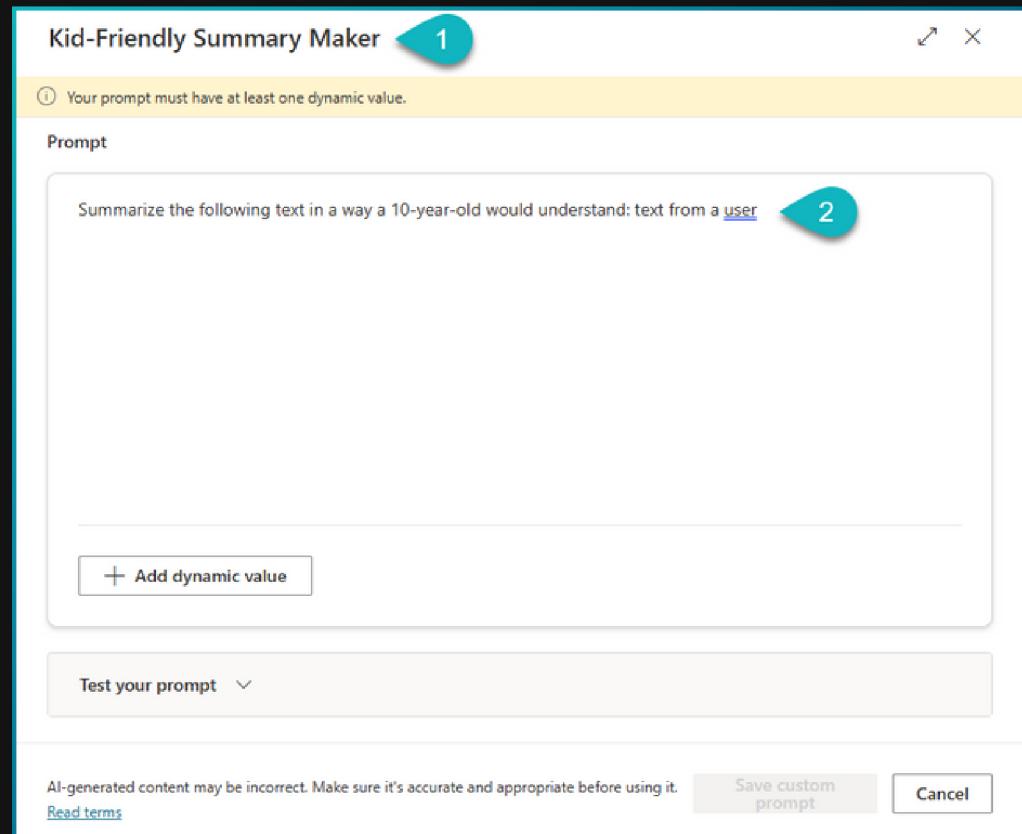


AI plugins

Prompt Plugin



In the [Add a Power Platform component as an AI plugin](#) section select [Generate content or extract insights](#).
[Name](#) your prompt and describe its function using [conversational language](#) or use prebuilt templates.



Kid-Friendly Summary Maker 1

Your prompt must have at least one dynamic value. 1

Prompt

Summarize the following text in a way a 10-year-old would understand: text from a [user](#) 2

+ Add dynamic value

Test your prompt ▾

AI-generated content may be incorrect. Make sure it's accurate and appropriate before using it.
[Read terms](#)

Save custom prompt Cancel

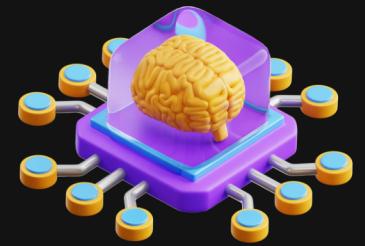


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AI plugins

Prompt Plugin



Incorporate **dynamic values** for each input required by the end user during their chat with Copilot.

Transform phrases or words in your prompt into dynamic values simply by **selecting** them or **adding** them with a custom label.

For instance,
“text from a user”
in our prompt can
be set as a
dynamic variable,
adapting to
different user inputs
in real-time.

Kid-Friendly Summary Maker

Prompt

Summarize the following text in a way a 10-year-old would understand: [text from a user]

+ Add dynamic value

Test your prompt

AI-generated content may be incorrect. Make sure it's accurate and appropriate before using it.
[Read terms](#)

Save custom prompt Cancel

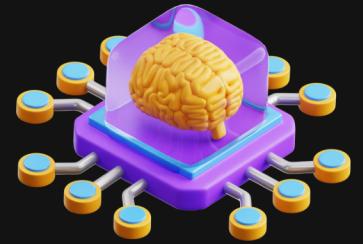


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AI plugins

Prompt Plugin



In the **Test your prompt** section, input sample data for each dynamic value you've set up.

Then, use the **Test prompt** feature to assess how effectively your prompt functions.

This step is key to ensuring your prompt works as intended.

1 Test your prompt

Use sample values to see how well your prompt works.

2 text from a user

Artificial Intelligence (AI) imitates human behavior by using machine learning to interact with the environment and execute tasks without explicit directions on what to output.

Generative AI describes a category of capabilities within AI that create original content. People typically interact with generative AI that has been built into chat applications. One popular example of such an application is ChatGPT, a chatbot created by OpenAI, an AI research company that partners closely with Microsoft.

Generative AI applications take in natural language input, and return appropriate responses in a variety of formats such as natural language, images, or code.

3 Test prompt

AI Response

Artificial Intelligence (AI) is like a computer that can act like a person. It can learn from its surroundings and do things without being told exactly what to do.

Generative AI is a special kind of AI that can make up new things. People often use generative AI in chat apps. One example is ChatGPT, a chatbot made by OpenAI, a company that works with Microsoft.

Generative AI can understand what people say and give them answers in different ways, like words, pictures, or computer code.

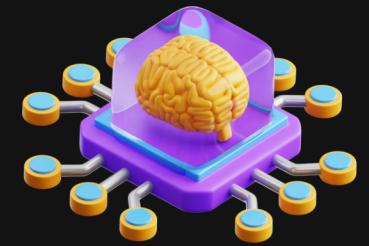


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AI plugins

Prompt Plugin



After finalizing your prompt,
simply click **Save custom prompt** to secure your changes.

Kid-Friendly Summary Maker

Prompt

Summarize the following text in a way a 10-year-old would understand: text from a user

+ Add dynamic value

Test your prompt

AI-generated content may be incorrect. Make sure it's accurate and appropriate before publishing.
[Read terms](#)

Save custom prompt Cancel

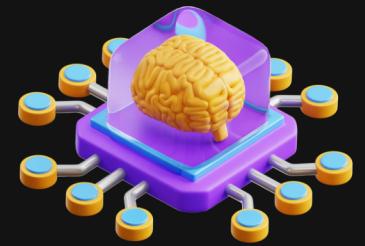


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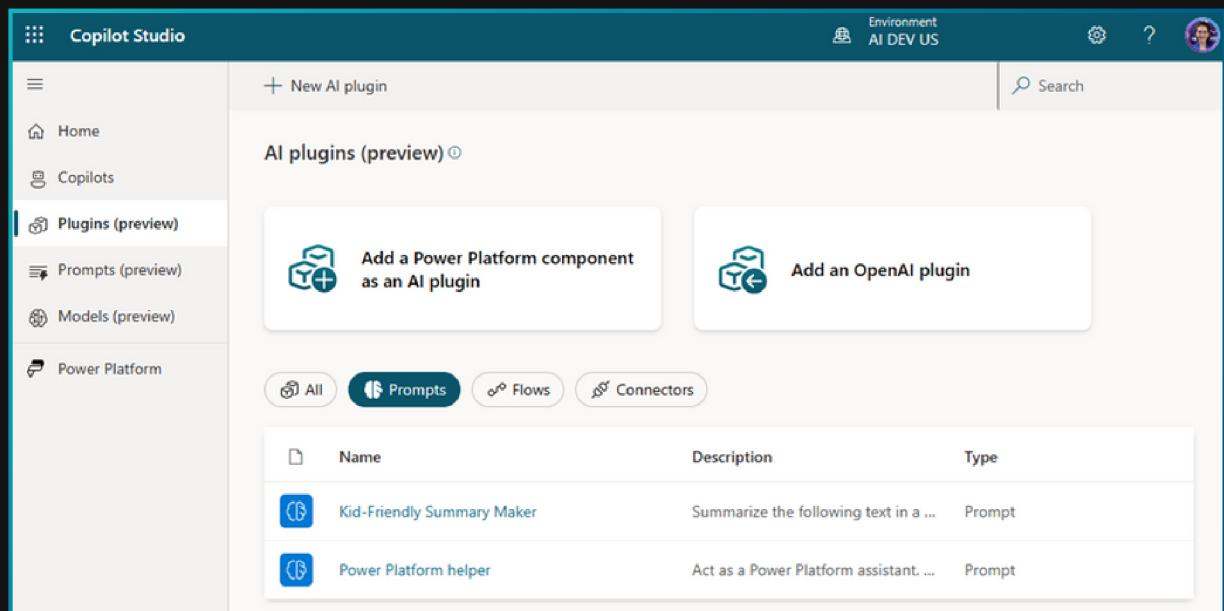


AI plugins

Prompt Plugin



Your crafted Prompt Plugins are like treasure maps, easily found in two spots: the [Prompts \(preview\)](#) page and under the [Prompts](#) tab in the [Plugins \(preview\)](#) section. It's your go-to spot for overseeing all your creative prompts.



| Name | Description | Type |
|----------------------------|--|--------|
| Kid-Friendly Summary Maker | Summarize the following text in a ... | Prompt |
| Power Platform helper | Act as a Power Platform assistant. ... | Prompt |

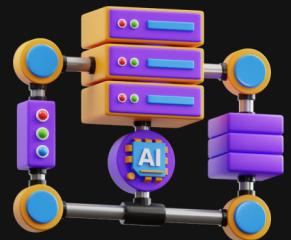


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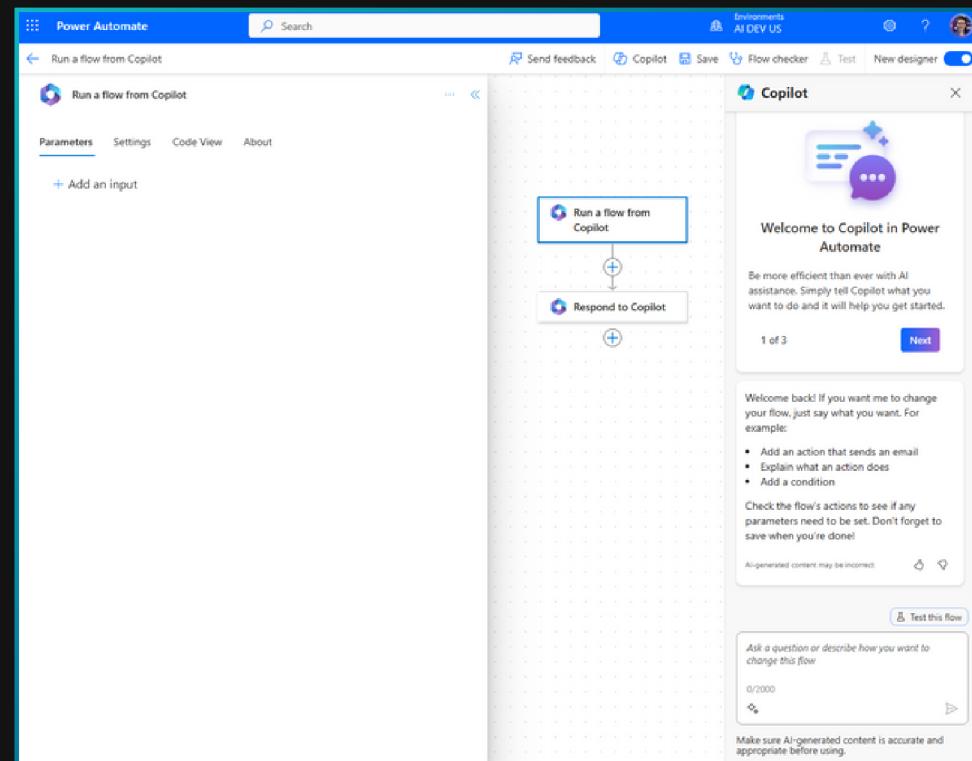
AI plugins

Automation Plugin



In the [Add a Power Platform component as an AI plugin](#) section select [Custom Automation](#).

In the flow editor, which pops up ready with the [Run from Copilot](#) trigger and [Respond to Copilot](#) action, you've got the power to customize.

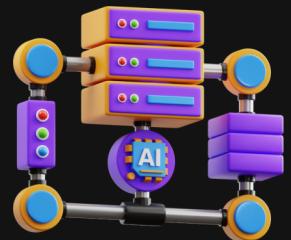


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AI plugins

Automation Plugin



Add [inputs](#) to your trigger based on what info you want from users, and don't forget to sprinkle in descriptive text. This helps the AI smartly pick out the right bits from user inputs, like a detective finding clues in a mystery.

Run a flow from Copilot

Parameters Settings Code View About

| | | |
|--|-------------|---|
| | TaskName | Title of the task to be assigned. |
| | Email | Responsible person's email address. |
| | Description | Description of the task to be assigned. |

Choose the type of user input

X

| | | | | | |
|------|--------|------|-------|--------|------|
| | | | | | |
| Text | Yes/No | File | Email | Number | Date |

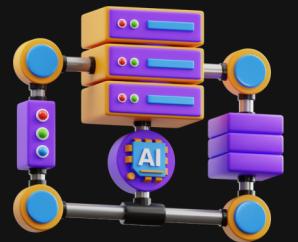


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AI plugins

Automation Plugin



To build your flow, you can add actions like [Create a work item](#) and [Post a message to Teams chat](#) for setting up a task assignment process.

The screenshot shows the Microsoft Flow builder interface. On the left, a 'Create a work item' action is configured with the following parameters:

- Organization Name: ALMSpaceExplorer
- Project Name: AI Demo
- Work Item Type: Task
- Title: TaskName
- Description: Description

Below these, under 'Advanced parameters', there is a dropdown showing 'Showing 1 of 11' items, and a 'Assigned To' field set to 'Email'. On the right, the workflow canvas displays the following sequence of actions:

```
graph TD; A[Run a flow from Copilot] --> B[Create a work item]; B --> C[Post message in a chat or channel]; C --> D[Respond to Copilot]
```

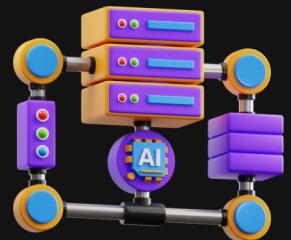


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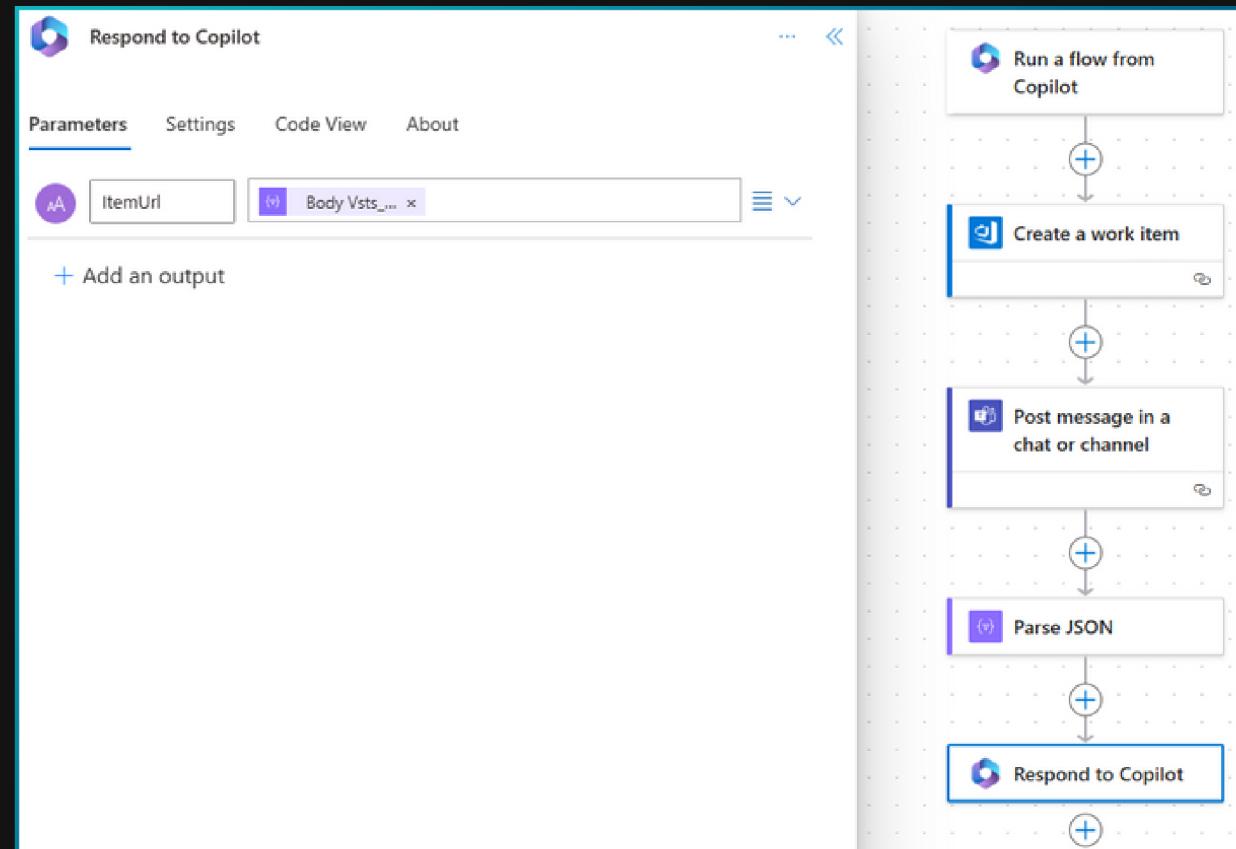


AI plugins

Automation Plugin



If you want to send back specific [outputs](#) to the bot, consider adding parameters to the [Respond to Copilot](#) action. This step tailors your flow to be more responsive and interactive with the Copilot.

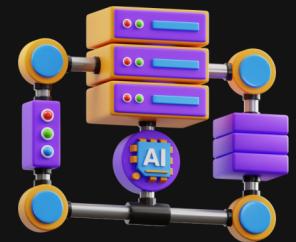


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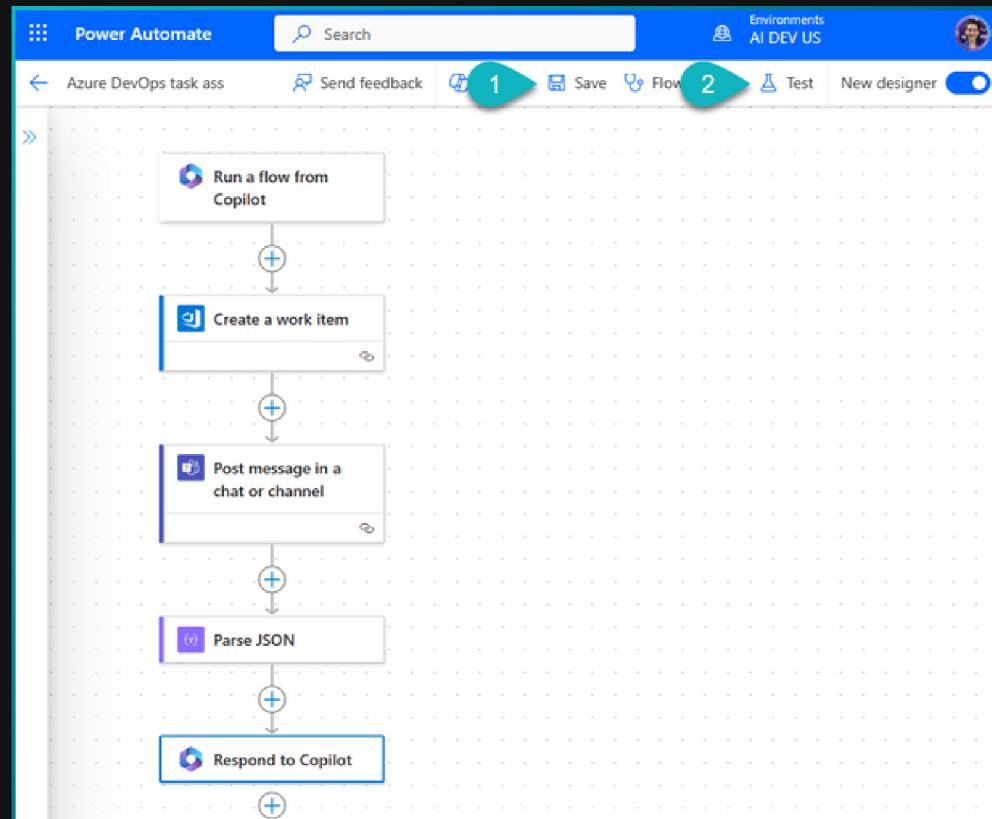


AI plugins

Automation Plugin



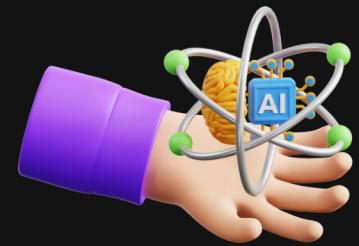
Name your flow thoughtfully and give it a test run at least once. The title and description are crucial for the AI to know when to use your flow plugins. Plus, only tested flows will show up as available plugins in Microsoft Copilot, so make sure they run smoothly!



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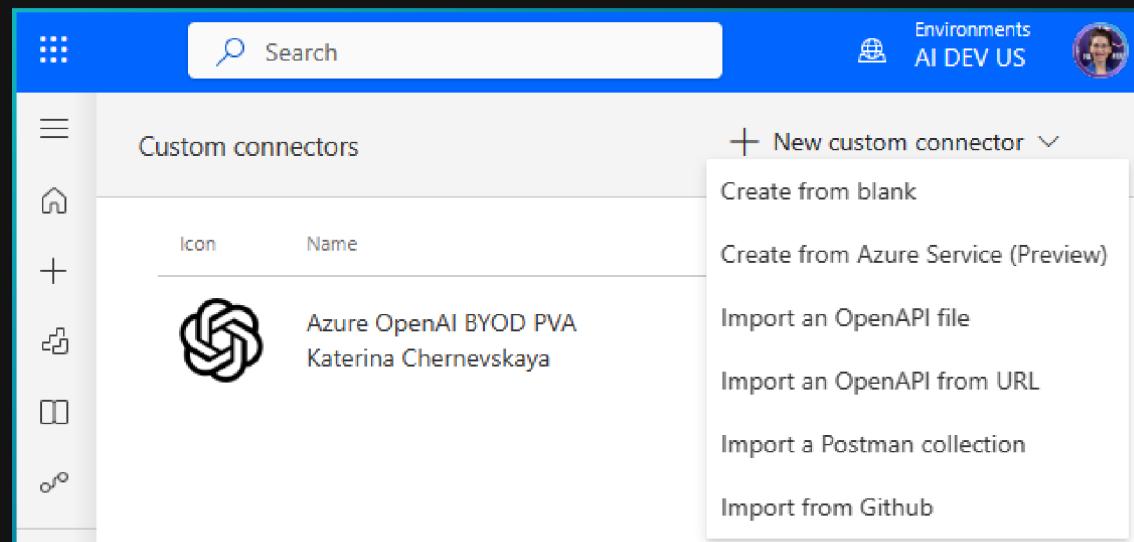


AI plugins Connector Plugins



In the [Add a Power Platform component as an AI plugin](#) section select [Update](#) or get answers about external data.

Once the [Custom Connector editor](#) opens, you're presented with two options: [pick](#) an existing connector from the list or [create](#) a new one. This flexibility allows for easy customization and integration of connectors into your Copilot flow.



The screenshot shows the 'Custom connectors' blade in the Power Platform Admin Center. On the left, there's a sidebar with icons for Home, New, Import, and Export. The main area has a search bar at the top. Below it, a table lists existing connectors:

| Icon | Name |
|--|--|
|  | Azure OpenAI BYOD PVA Katerina Chernevskaya |

To the right of the table is a dropdown menu titled '+ New custom connector':

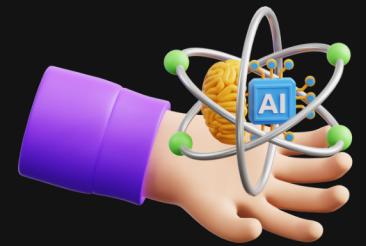
- Create from blank
- Create from Azure Service (Preview)
- Import an OpenAPI file
- Import an OpenAPI from URL
- Import a Postman collection
- Import from Github



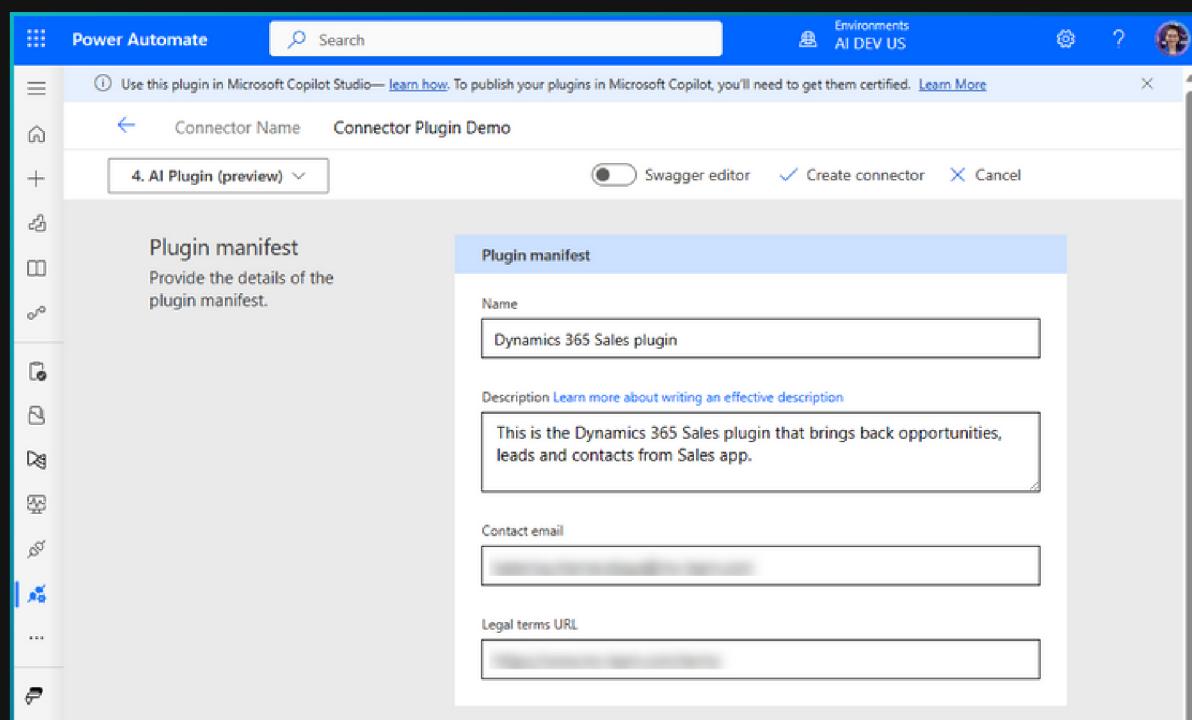
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AI plugins Connector Plugins



Creating a Connection Plugin is similar to making a [custom connector](#), with a twist: there's an [AI plugin](#) tab. In this tab under the [Plugin manifest](#) details, add your plugin's [name](#), [description](#), [Contact email](#) and [Legal terms URL](#).



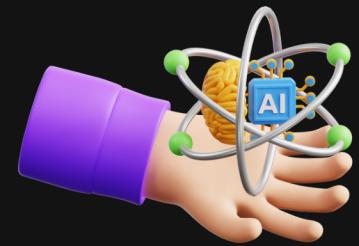
The screenshot shows the '4. AI Plugin (preview)' step in the Power Automate interface. On the left, there's a sidebar with various icons. The main area has a title bar with 'Connector Name' and 'Connector Plugin Demo'. Below that, a dropdown menu shows '4. AI Plugin (preview)'. To the right, there are tabs for 'Swagger editor' (disabled), 'Create connector' (selected), and 'Cancel'. The 'Create connector' tab contains a 'Plugin manifest' section with fields for 'Name' (set to 'Dynamics 365 Sales plugin'), 'Description' (containing a placeholder text about bringing back opportunities, leads, and contacts from the Sales app), 'Contact email' (empty), and 'Legal terms URL' (empty).



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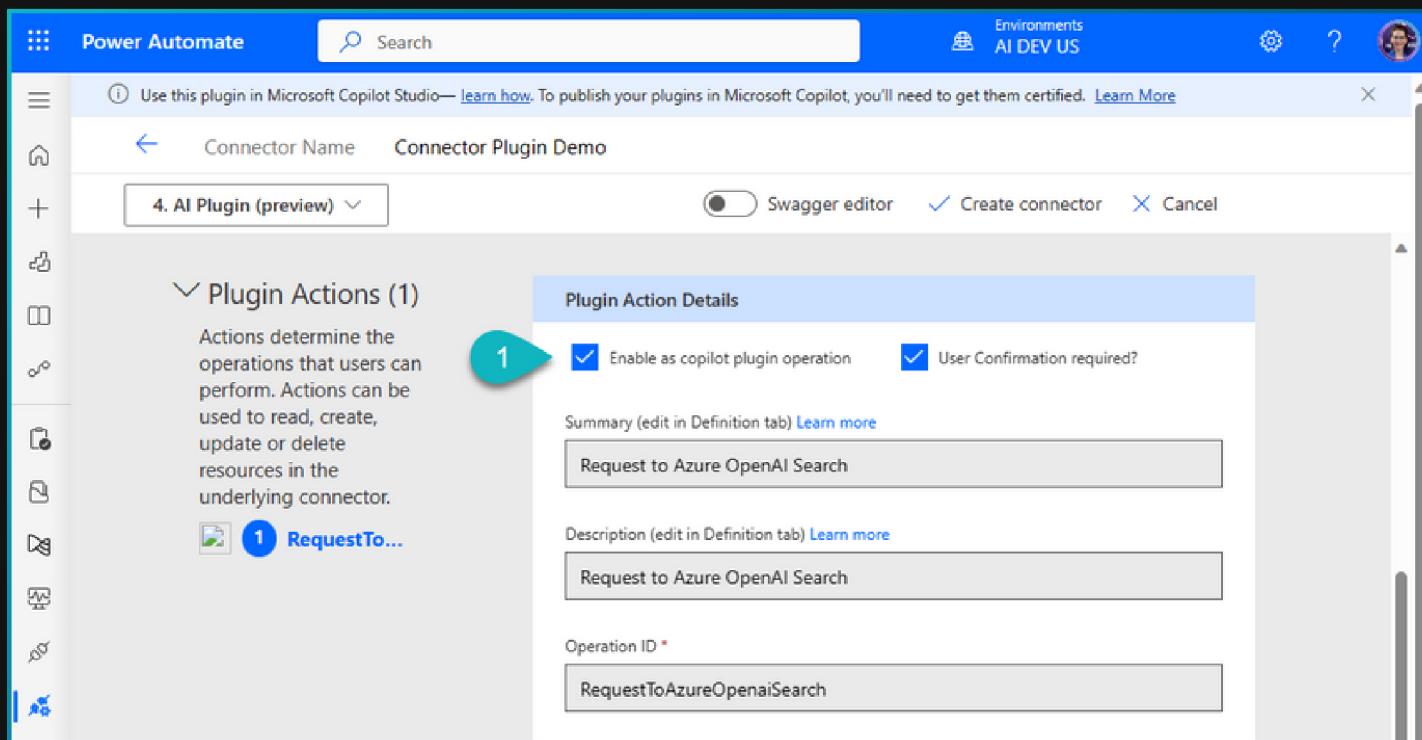


AI plugins Connector Plugins



Under the **Plugin Actions** details, select the actions you wish to enable.

Remember to include text descriptions for each action and parameter, as this helps Copilot identify and effectively use them.



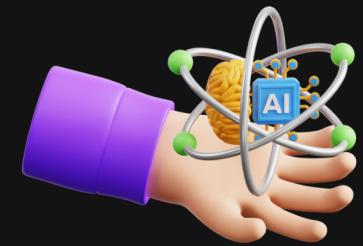
The screenshot shows the Microsoft Power Automate interface for creating a connector plugin. The top navigation bar includes 'Power Automate', 'Search', 'Environments AI DEV US', and a user profile icon. The main area displays a 'Connector Name' of 'Connector Plugin Demo' and a '4. AI Plugin (preview)' section. A teal callout with the number '1' highlights the 'RequestTo...' action under 'Plugin Actions (1)'. The 'Plugin Action Details' panel on the right contains settings for enabling the action as a copilot plugin operation and requiring user confirmation. It also includes fields for 'Summary', 'Description', and 'Operation ID'.



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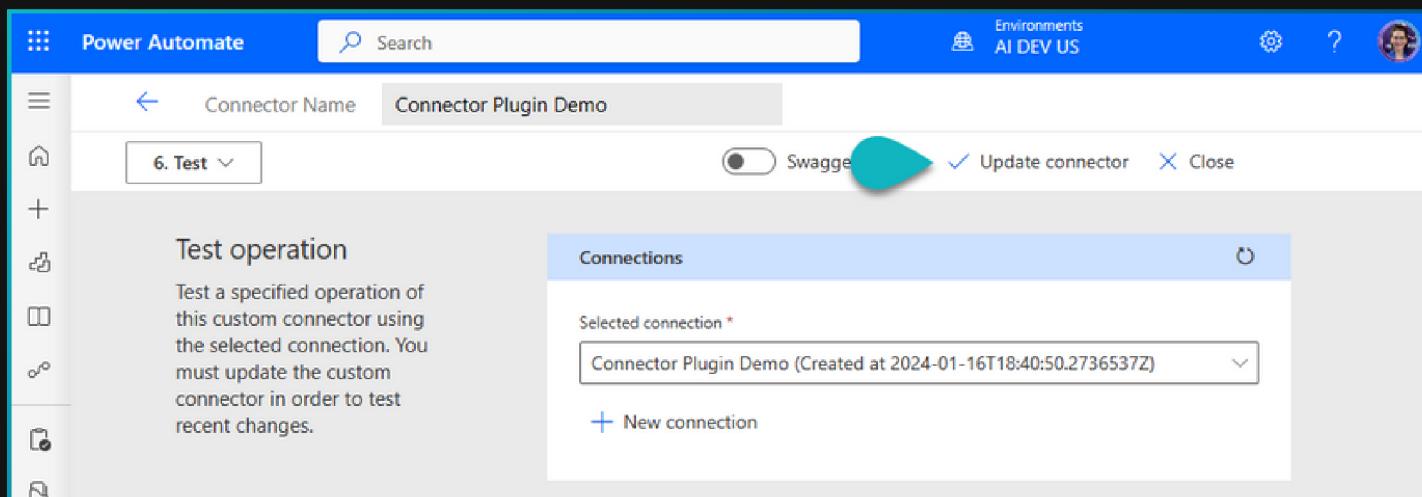


AI plugins Connector Plugins



When you select [Create/Update Connector](#), it automatically updates the connector's Swagger file with the necessary annotations.

This step is essential for ensuring that your connector has all the required information and configurations for optimal performance.



The screenshot shows the Power Automate interface for a 'Connector Plugin Demo'. The top navigation bar includes 'Power Automate', a search bar, environment dropdown ('AI DEV US'), and user profile. The main area is titled 'Connector Name: Connector Plugin Demo' and shows a 'Test operation' section with instructions to test a specified operation using a selected connection. A teal arrow points to the 'Swagger' button in the top right of the toolbar, which is currently selected. Other buttons include 'Update connector' and 'Close'. To the right, there's a 'Connections' panel with a dropdown set to 'Selected connection *' showing 'Connector Plugin Demo (Created at 2024-01-16T18:40:50.273653Z)'. A 'New connection' button is also present.

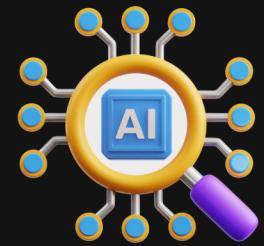


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AI plugins

OpenAI Plugin



Navigate to the [Plugins \(preview\)](#) section in the Microsoft Copilot Studio. Select the option [Add an OpenAI plugin](#). This simple process sets the stage for integrating advanced AI functionalities into your Copilot.

The screenshot shows the Microsoft Copilot Studio interface. The left sidebar has a navigation menu with Home, Copilots, Plugins (preview), Prompts (preview), Models (preview), and Power Platform. The main area is titled 'AI plugins (preview)' and contains two buttons: 'Add a Power Platform component as an AI plugin' and 'Add an OpenAI plugin'. Below the buttons is a table listing four existing AI plugins: Connector Plugin Demo - Power Platform Co..., Kid-Friendly Summary Maker, Power Platform helper, and Azure DevOps task assignment. The table columns are Name, Description, and Type. The 'Add an OpenAI plugin' button is highlighted with a blue border.

| Name | Description | Type |
|--|--------------------------------------|-----------|
| Connector Plugin Demo - Power Platform Co... | Default plugin with all skills en... | Connector |
| Kid-Friendly Summary Maker | Summarize the following text i... | Prompt |
| Power Platform helper | Act as a Power Platform assist... | Prompt |
| Azure DevOps task assignment | Run a flow from Copilot and s... | Flow |

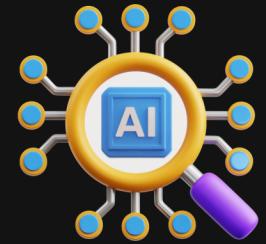


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AI plugins

OpenAI Plugin



For the OpenAI plugin, you'll need to provide its [manifest](#). This can be done by either [linking](#) to the manifest file's location or by manually [uploading](#) it from your local machine. After selecting your preferred method and uploading or linking the manifest, simply hit [Next](#) to proceed.

Add an OpenAI plugin

Add an OpenAI plugin

Adding an Open AI plugin will create the plugin for Copilot experience and will also create a custom connector to be used in low code application dev.

1 Add using URL
Manifest file <https://raw.githubusercontent.com/Katerina-Chernevska>

2 Add from your local files
Max file size up to 5 MB
Select manifest file Browse manifest file
Select OpenAPI file Browse OpenAPI file

3 [Next](#)

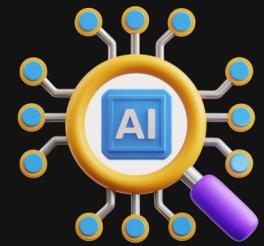


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AI plugins

OpenAI Plugin



Choose the appropriate [authentication type](#) for your plugin from the given options. If needed, be prepared to input specific authentication details to establish the connection. Once done, simply click on [Add Plugin](#) to finalize the process.

Once you create your Copilot plugin and its corresponding custom connector, they both become available for use across your organization.

These can also be included in any solutions you plan to export, enhancing their functionality and reach.

Add an OpenAI plugin

Add an OpenAI plugin

Adding an Open AI plugin will create the plugin for Copilot experience and will also create a custom connector to be used in low code application dev.

Plugin title: Retrieval Plugin

Plugin description: Sets Specific, Measurable, Achievable, Relevant, Time-bound goals.

Choose authentication implemented by your API: API key (1)

Users will be required to provide the API key when creating a connection.

Parameter label: api-key (2)

Parameter name: API Key

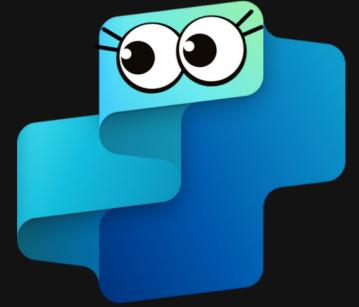
Parameter location: Header

Add plugin (3)

A screenshot of a software interface titled "Add an OpenAI plugin". The form includes fields for "Plugin title" (set to "Retrieval Plugin"), "Plugin description" (set to "Sets Specific, Measurable, Achievable, Relevant, Time-bound goals."), and "Choose authentication implemented by your API" (set to "API key"). A note below states, "Users will be required to provide the API key when creating a connection." There are three numbered callouts: 1 points to the "API key" dropdown; 2 points to the "Parameter label" field containing "api-key"; and 3 points to the "Add plugin" button at the bottom right.

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Today's Task: Harnessing the power of AI Plugins

1. Prompt Plugin

Build a Prompt Plugin. Test its ability to understand and respond to natural language inputs.

2. Flow Plugin

Develop a Flow Plugin using Power Automate. Test the plugin to ensure it functions correctly.

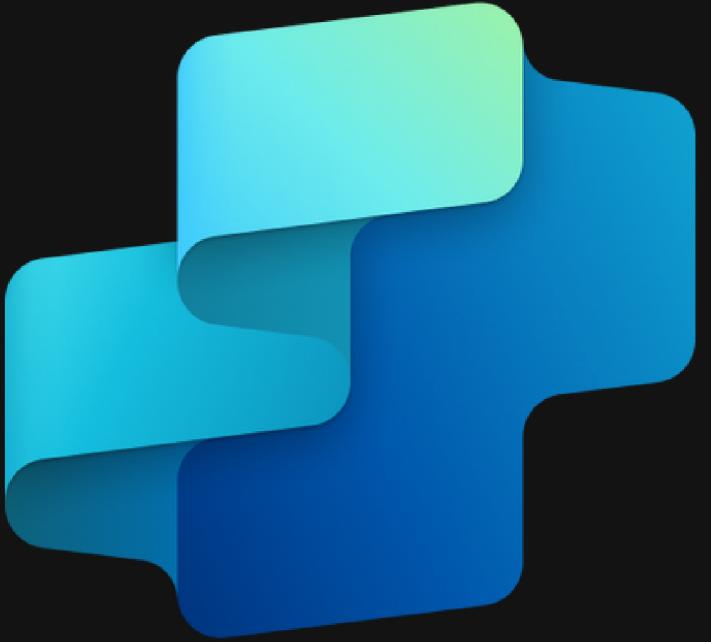
3. Connector Plugin

Set up a Custom Connector Plugin and test it.



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