



nordic.
summit

Extend the Power Platform with
Custom Connectors

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Agenda

- Connectors
 - What is a connector?
 - Why use custom connectors?
 - Develop a connector
 - Connector types
- Demo #1: build your first connector
- Tools
- Demo #2: download, edit & update the connector
- Resources
- Wrap up

Connectors

What is a connector?

What is a connector?



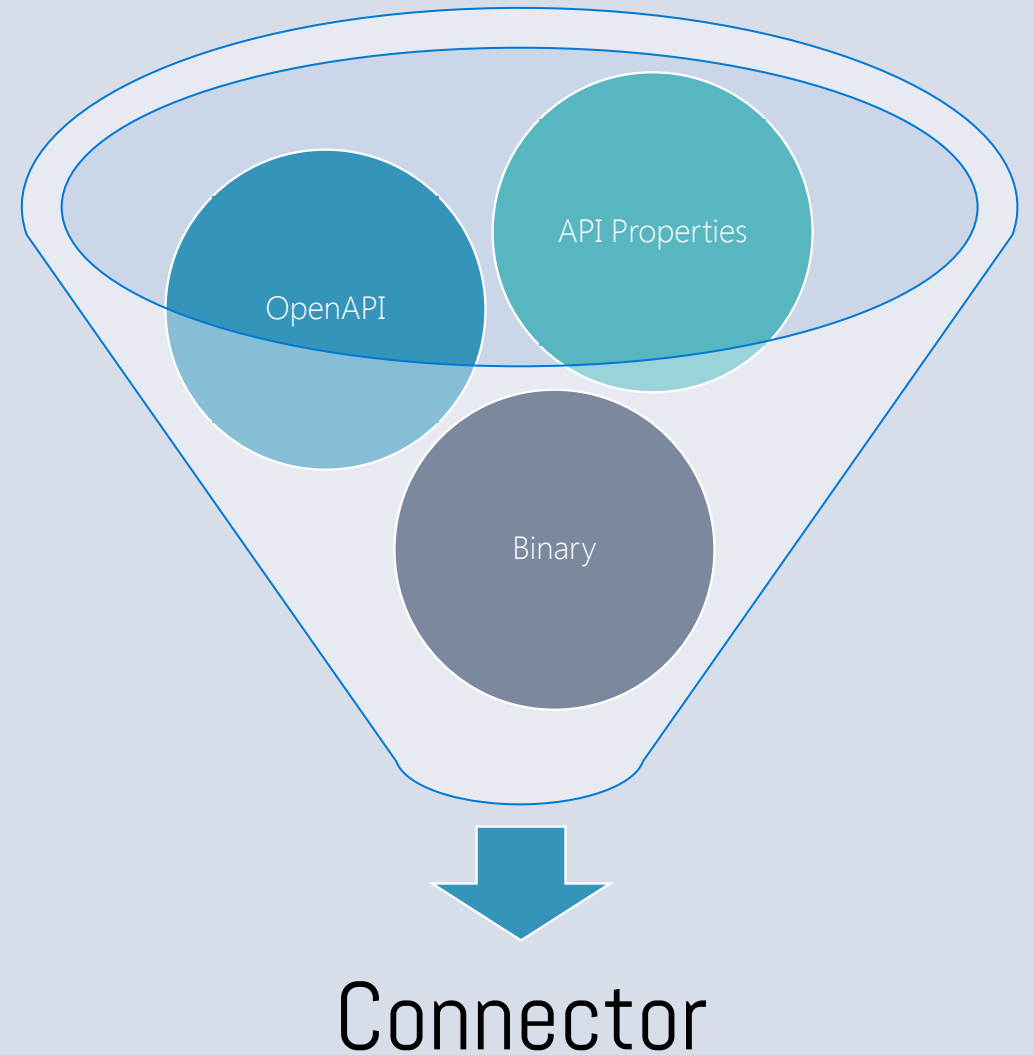
A formal definition of a REST API



Allows the **REST service** to talk to Microsoft Power Apps, Power Automate, and Logic Apps



Currently **800+** out-of-the-box connectors in the product



800+ Connectors



Why use custom connectors?



Add services that are not currently supported



Expand connectors that currently don't have the trigger/action you want



Custom connectors are simple to build, don't require a lot of coding



Can be built using the wizard, a postman collection, or with your favourite IDE (for instance VS Code)



Can be shared, packaged and certified via GitHub

Step by step: Build a connector



Read the docs / know the API you want to build the connector for



Start in one of the products (Power Apps, Power Automate or Logic Apps)



Set up the authentication



Define the operations (triggers / actions) for your connector



Add code if needed (for now, C# code is supported)



Save and test your connector

Start in one of the products



Create from blank



Create from Azure Service (Preview)



Import an OpenAPI file



Import an OpenAPI from URL










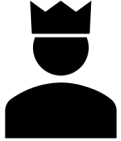



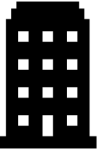




Import a Postman collection



Import from GitHub

Types of connectors

 <p>Connector Type</p>	 <p>Custom Connector</p>	 <p>Certified Connector</p>	 <p>Independent Publisher Connector</p>
 <p>API Availability</p>	 <p>Public or private</p>	 <p>Public</p>	 <p>Public</p>
 <p>Service Owner</p>	 <p>Connector developer or someone else</p>	 <p>Connector developer</p>	 <p>Someone else</p>
 <p>Audience</p>	 <p>Internal</p>	 <p>Everyone</p>	 <p>Everyone</p>



Demo

Build your first custom connector.

Tools

Help with building your custom connectors.

Tools (1/2)

- Power Platform CLI (preview)
 - Helps with the ALM story of Custom Connectors
 - You can deploy, download and update your connectors with the CLI through the following commands:
 - `pac connector list`
 - `pac connector init`
 - `pac connector create`
 - `pac connector download`
 - `pac connector update`

Microsoft Power Platform CLI Command Groups

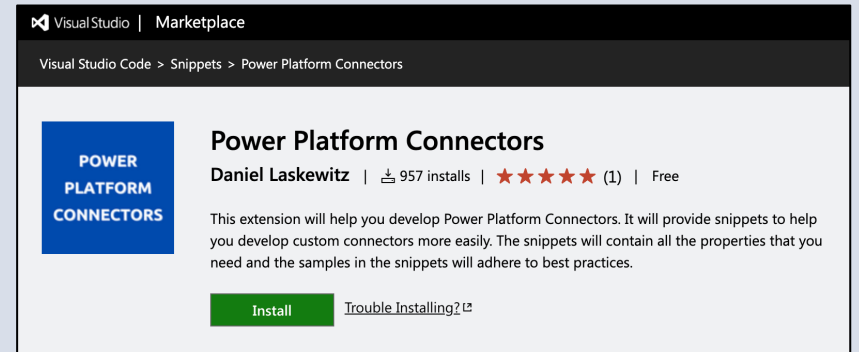
Article • 09/16/2022 • 2 minutes to read • 2 contributors



Command Group	Description
pac admin	Work with your Power Platform Admin Account
pac application	Commands for listing and installing available Dataverse applications from AppSource
pac auth	Manage how you authenticate to various services
pac canvas	Operating with Power Apps .msapp files
pac connector	(Preview) Commands for working with Power Platform Connectors
pac data	Import and export data from Dataverse.
pac help	Show help for the Microsoft Power Platform CLI
pac org	Work with your Dataverse Organization
pac package	Commands for working with Dataverse package projects
pac paportal	Commands for working with Power Apps portal website
pac pcf	Commands for working with Power Apps component framework projects
pac plugin	Commands for working with Dataverse plug-in class library
pac solution	Commands for working with Dataverse solution projects
pac telemetry	Manage telemetry settings

Tools (2/2)

- Power Platform CLI (preview)
 - 'pac canvas create' command generates a canvas app from a custom connector
 - This is great for pro code dev hand-off to citizen dev / makers
- Power Platform Connectors (VS Code Extension)
 - Helps you to easily add properties and other objects in Visual Studio Code by providing snippets





Demo #2

Download, edit & update the connector.

Resources

Handy links that will help you.

Resources (1/2)

- Docs
<https://aka.ms/connectors>
- Get your connector certified
<https://aka.ms/ConnectorCertification>
- Power Platform Connectors GitHub repository
<https://github.com/Microsoft/PowerPlatformConnectors>
- Extend an OpenAPI Definition
<https://docs.microsoft.com/en-us/connectors/custom-connectors/openapi-extensions>
- Custom code in custom connectors
<https://docs.microsoft.com/en-us/connectors/custom-connectors/write-code>

Resources (2/2)

- Create a connector from a Postman Collection
<https://docs.microsoft.com/en-us/connectors/custom-connectors/define-postman-collection>
- Custom Connectors Coding Standards
<https://docs.microsoft.com/en-us/connectors/custom-connectors/coding-standards>
- Policy support in Custom Connectors
<https://docs.microsoft.com/en-us/connectors/custom-connectors/policy-templates>
- Paconn CLI
<https://docs.microsoft.com/en-us/connectors/custom-connectors/paconn-cli>
- Power Platform Connectors (VS Code Extension)
<https://aka.ms/ppc-vscode>
- Power Platform CLI
<https://aka.ms/powerplatformcli>

Wrap-up

What now?

Wrap-up

- Check out the top connector asks on GitHub and pick one
- Go build your first connector
- Test, test, test!
- Spread the word about custom connectors

Thanks!

Please give me feedback

- Remember to give my session feedback!
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