



Build a Connector – Live!

Daniel Laskewitz



Daniel Laskewitz

Developer Advocate @ Microsoft



<https://twitter.com/laskewitz>



<https://linkedin.com/in/laskewitz>

Agenda

- Microsoft Power Platform
- 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

Microsoft Power Platform

What is the Microsoft Power Platform?

Microsoft Power Platform

One low-code platform that spans Office 365, Dynamics 365, Azure and standalone applications

Dynamics 365



Office 365



Azure



Your business apps & data



Power BI
Business analytics



Power Apps
Application development



Power Automate
Workflow automation



Power Virtual Agents
Intelligent virtual agents



Power Pages
Build websites



Dataverse

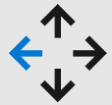


Data connectors



AI Builder

Power Platform: Everyone's platform for transformation



No Code

Drag and drop experiences that are like PowerPoint



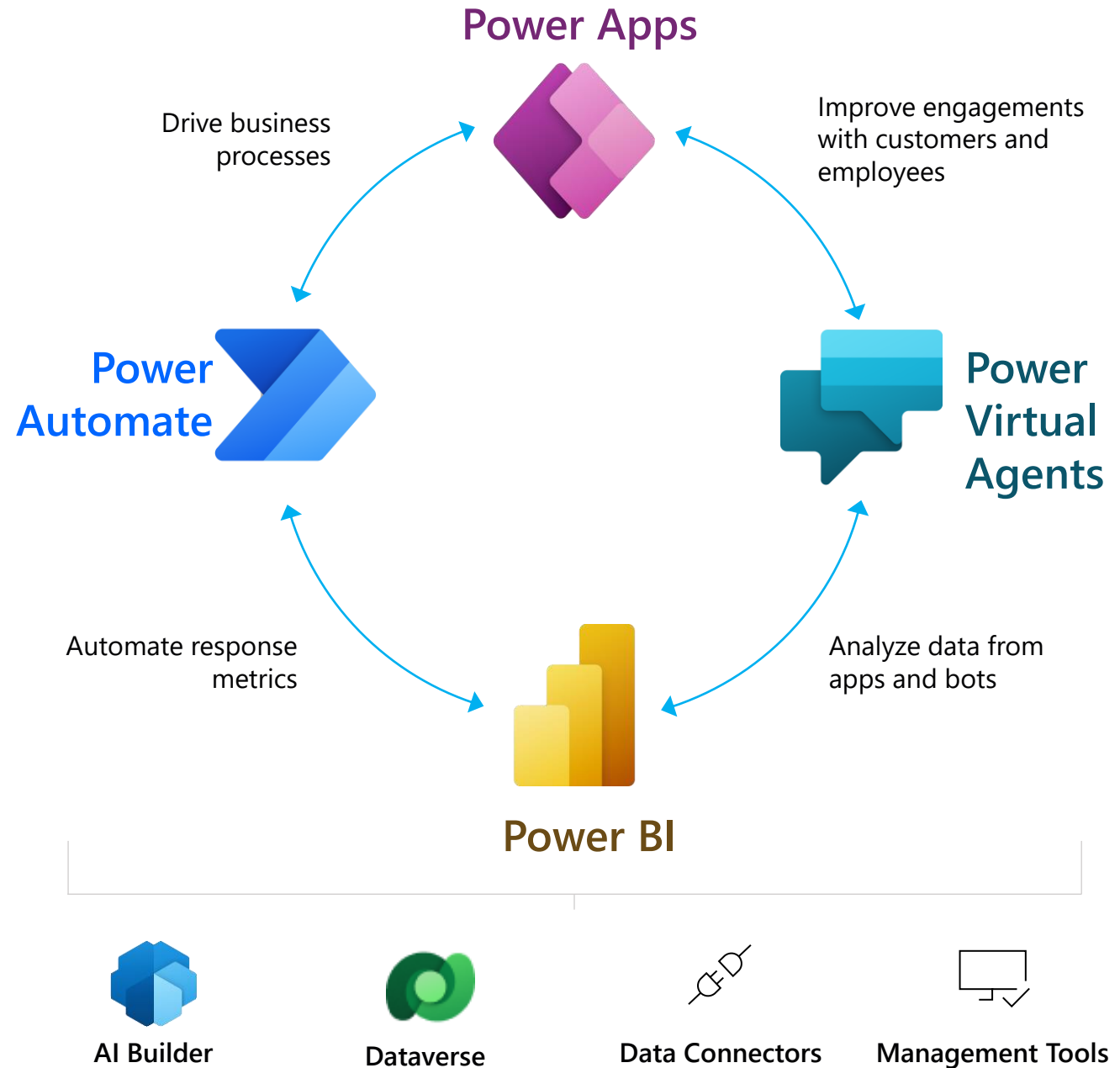
Low Code

Drag and drop plus Excel-like formulas for functionality



Code First

Professional development and extensibility across Microsoft



Microsoft Power Platform

One low-code platform that spans Office 365, Dynamics 365, Azure and standalone applications

Dynamics 365



Office 365



Azure



Your business apps & data



Power BI

Business analytics



Power Apps

Application development



Power Automate

Workflow automation



Power Virtual Agents

Intelligent virtual agents



Power Pages

Build websites



Dataverse



Data connectors



AI Builder

Connectors

What is a connector?

What is a connector?



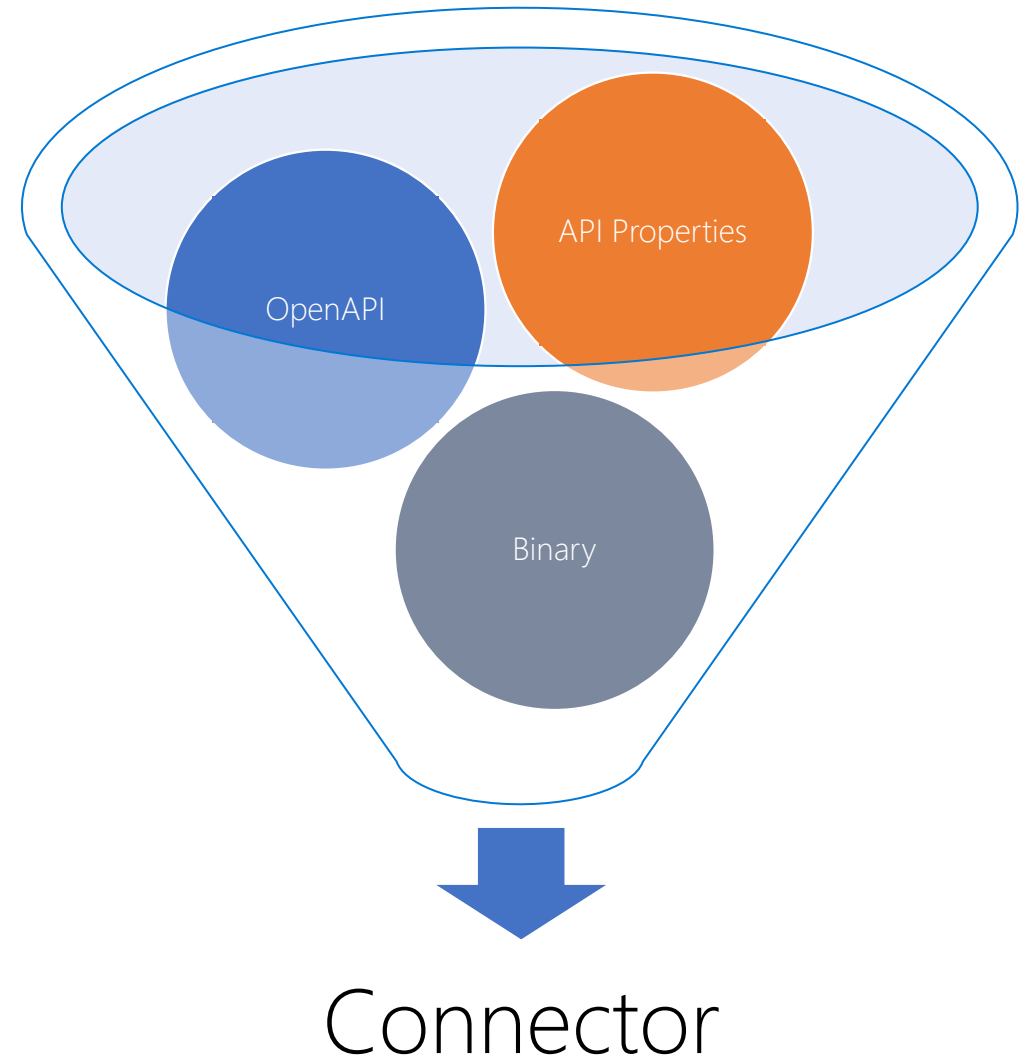
A formal definition of a **REST API**



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



Currently **800+** 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










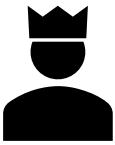



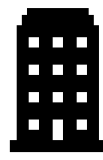




Import a Postman collection



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.

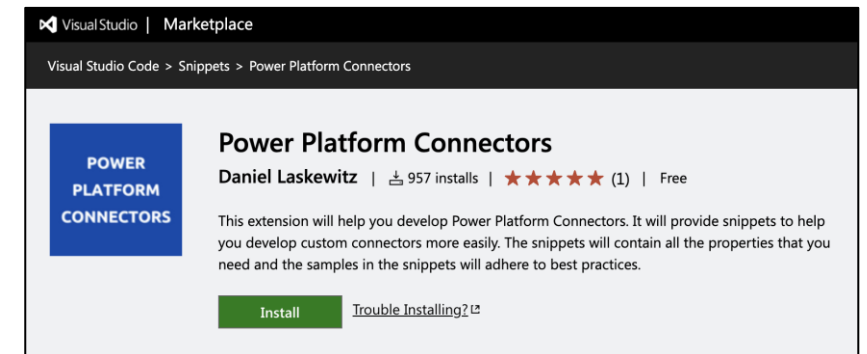
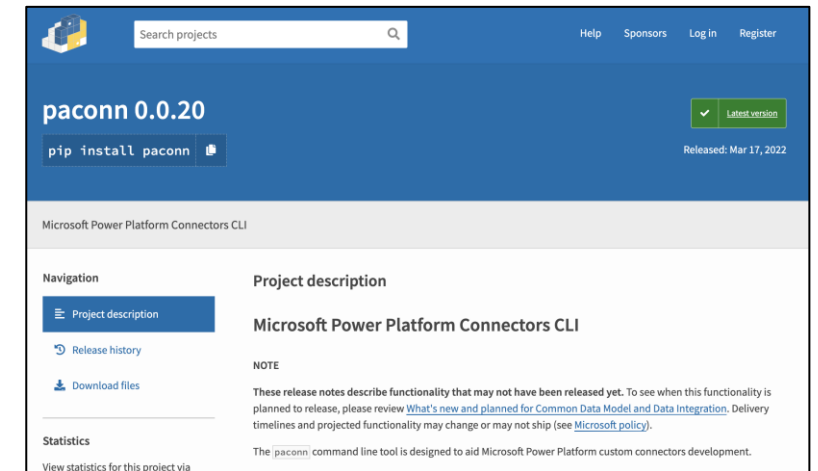


Tools

Help with building your custom connectors.

Tools (1/2)

- Paconn CLI
 - Helps with the ALM story of Custom Connectors
 - You can deploy, download and update your connectors with the CLI through the following commands:
 - Paconn login
 - Paconn download
 - Paconn create
 - Paconn update (*)
- Power Platform Connectors (VS Code Extension)
 - Helps you to easily add properties and other objects in Visual Studio Code by providing snippets



Tools (2/2)

- Power Platform CLI
 - '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

Demo

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

Questions?

Thanks!