

Neum 18-20/4/2018

NetWork **X**



How to: Create a custom connector for Microsoft Flow Dragan Panjkov K2NE, MVP



platinum sponzor



telekomunikacijski sponzor

oficijelni brend konferencije





gold sponzori



























silver sponzori















prijatelji konferencije

















zvanično craft pivo

medijski sponzori









































Dragan Panjkov

Microsoft MVP since 2014 – Office Servers and Services

Consultant at K2 Northern Europe (www.k2.com)

Website and blog: www.dragan-panjkov.com

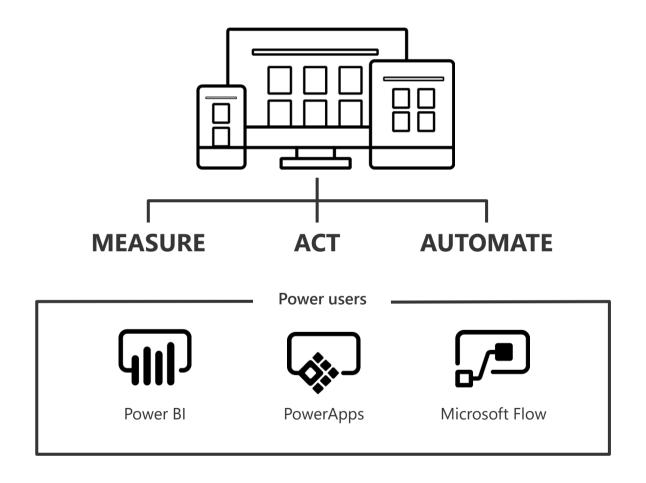
Twitter: @panjkov

Github: www.github.com/panjkov





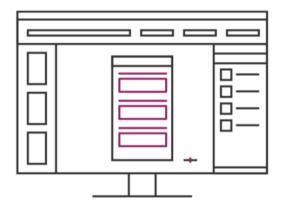
Business Application Platform



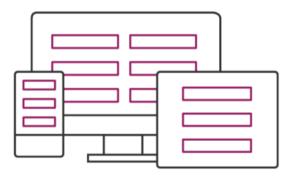
Microsoft PowerApps is a service for creating and using custom business apps across platforms



<u>Connect</u> to data & systems you're already using; create the data you need

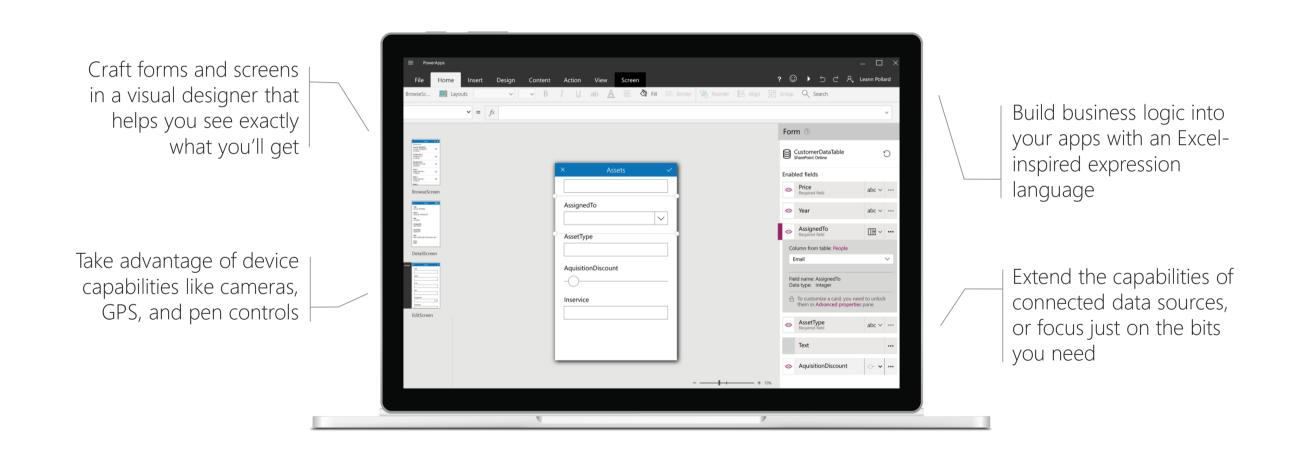


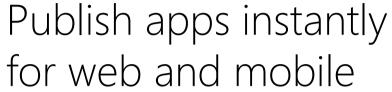
<u>Create</u> apps, forms, and workflows without writing code



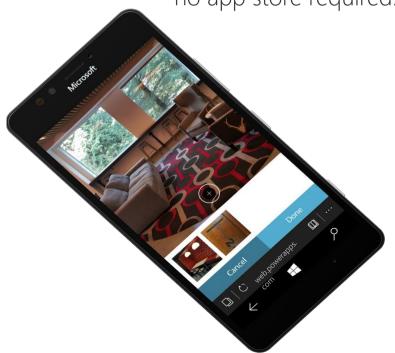
<u>Use</u> apps on web and mobile

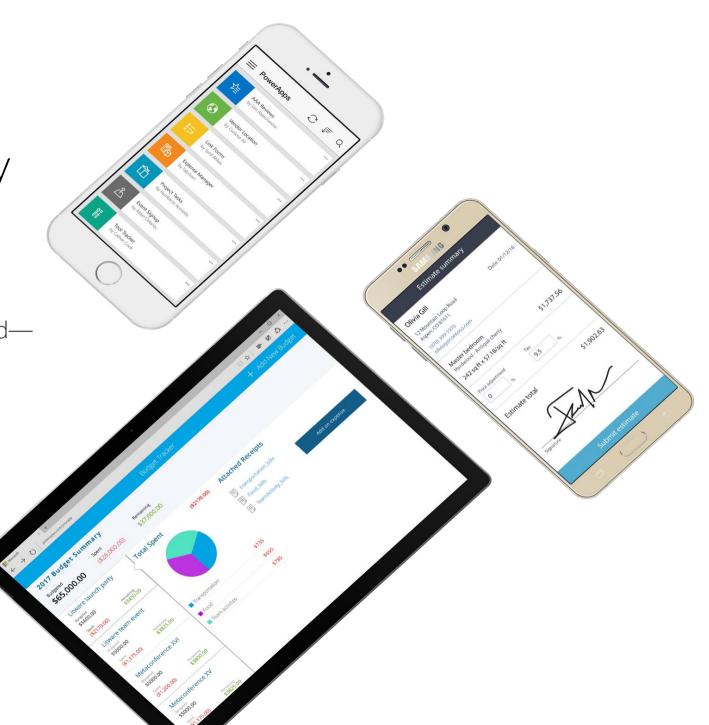
Build useful apps without writing code



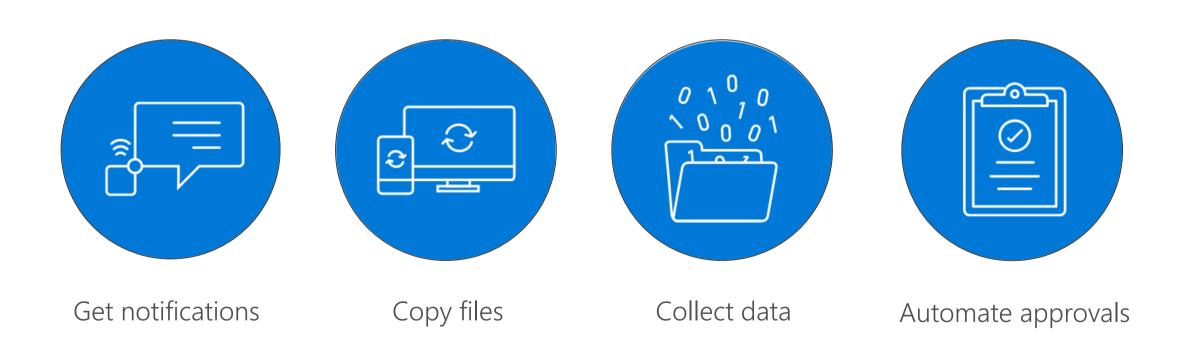


Get apps to your team when and where they're needed, whether that's on the web, Windows, iOS or Android—no app store required.





Microsoft Flow helps non-developers work smarter by automating workflows across apps and services



What makes up a Flow?

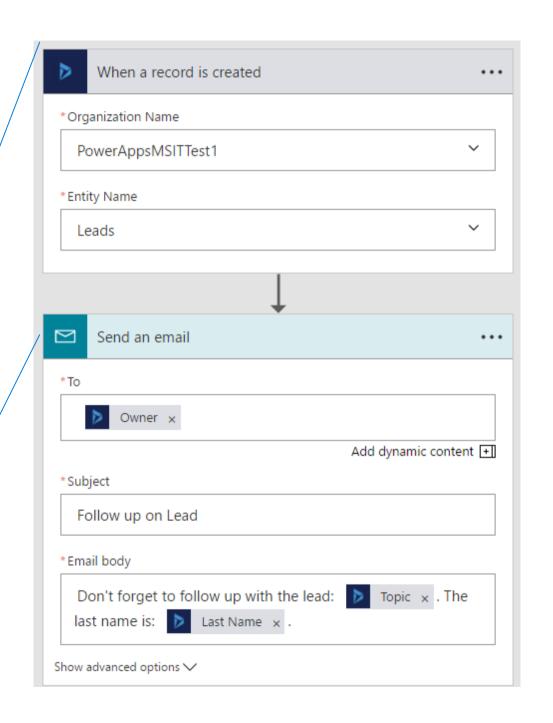
Example: Notification Flow

Trigger—the event that kicks off the flow:

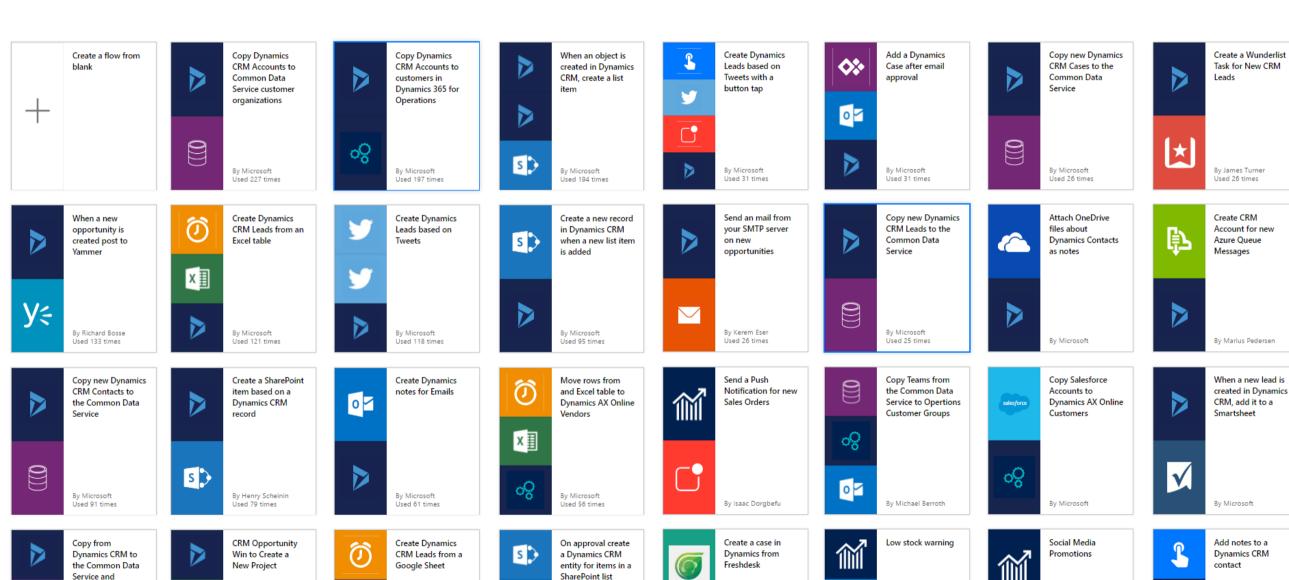
- Manually
- · On a schedule
- · On an event in the cloud

Actions—what the flow does

Uses data from the trigger



Templates help users to get started



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Operations

P↓

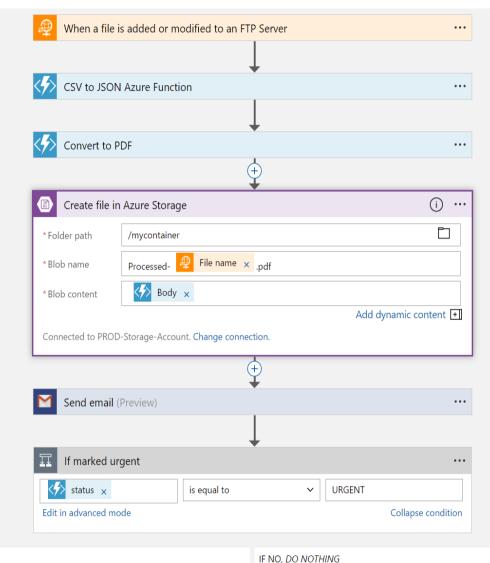
Logic Apps

Visually design workflows in the cloud

Express logic through powerful control flow

Connect disparate functions and APIs

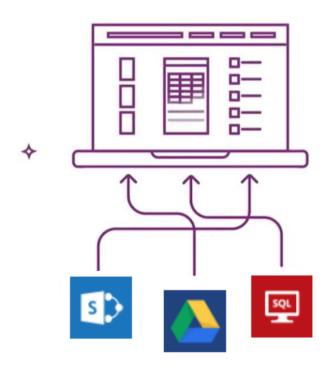
Utilize declarative definition to work with CI/CD

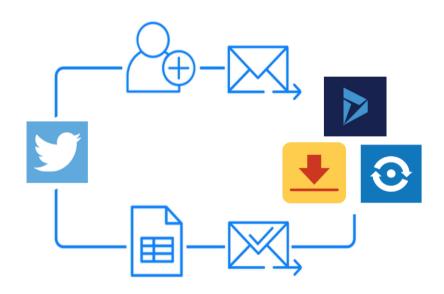


Send SMS notification ...

Connectors

A connector is a wrapper around an API that allows the underlying service to talk to Logic Apps, Microsoft Flow and PowerApps





Connect to cloud AND on-premises data



Quickly generate and customize apps based on Excel files, SharePoint Online lists, Dynamics 365, Salesforce records and more. You can even connect custom APIs.

Even connecting to data in your local systems through the common on premises data gateway.

Your apps will be able to fully interact with underlying sources and will respect the permissions you've already established in them.

190+ connectors today

Public connectors available to all users

Custom connectors you can build for your organization

Popular connectors









Office 365 Outl...

OneDrive for B...

Office 365 Users

SharePoint

Recently added or updated connectors







MailChimp PREMIUM



Trello



Project Online

Custom connectors



AppreciateWeb...



GitHub Demo

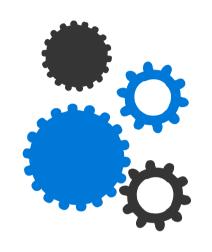


HolidayApi



AppServiceApi

Why build a connector?



Enterprise developers

Looking for connectivity to a service we don't currently support Need connectivity to a custom or internal service



Partners and ISVs

Expand the number of services you integrate with Provide the extensibility your customers need Increase exposure and adoption

Building a Custom Connector



Develop

Build, secure and describe your API

Import from existing artifacts (Open API, Postman) or build from scratch

Test

Validate your API calls

Use in Flow and PowerApps for E2E testing

Share

Allow other users within your organization to use your connector

Develop a connector

- Start from scratch
- Start from Postman collection
- · Start from Swagger(Open API) definition

Configure authentication type

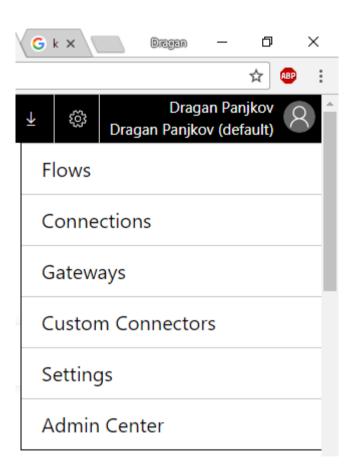
- No Authentication
- Basic authentication
- API Key
- OAuth 2.0

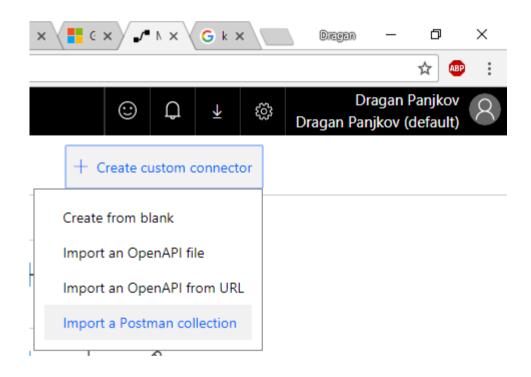
Configure actions, triggers and references

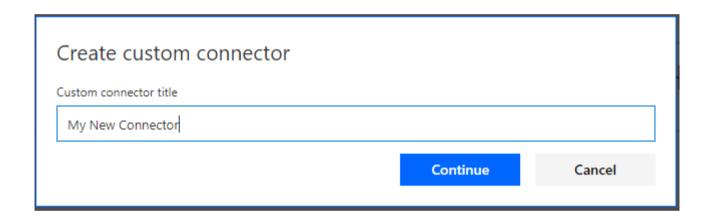
- Model request and response
- Import from sample
- Triggers: Webhooks or polling
- Validation

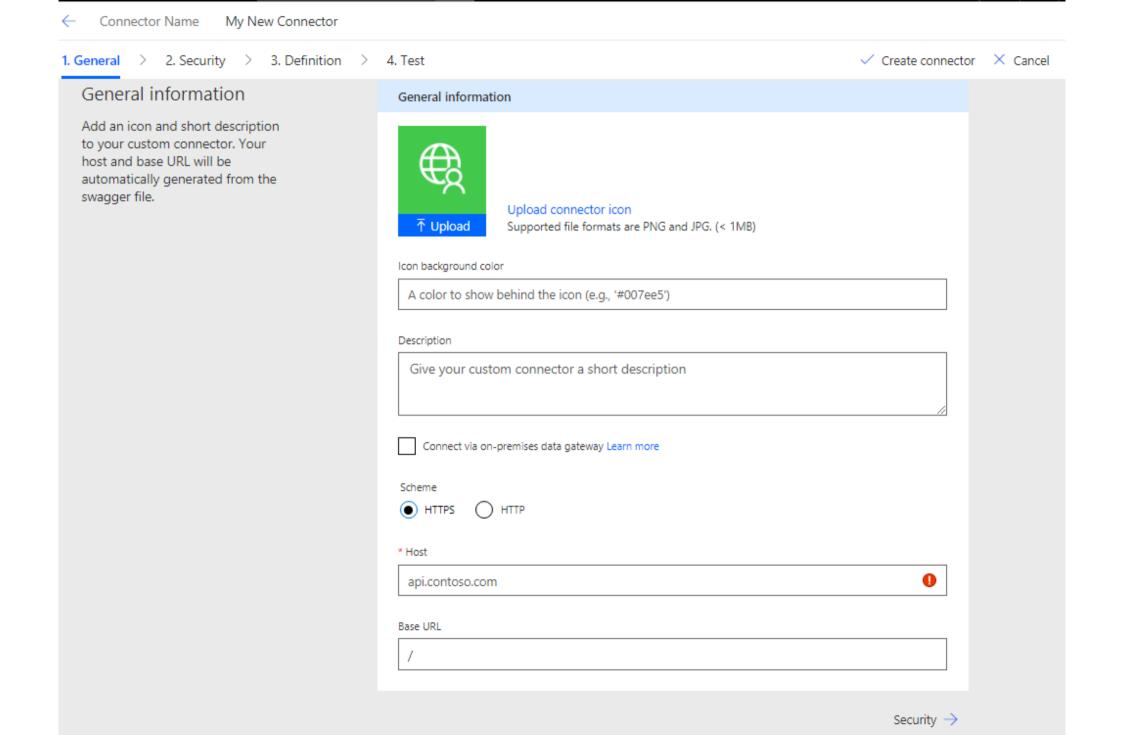
Building Connectors

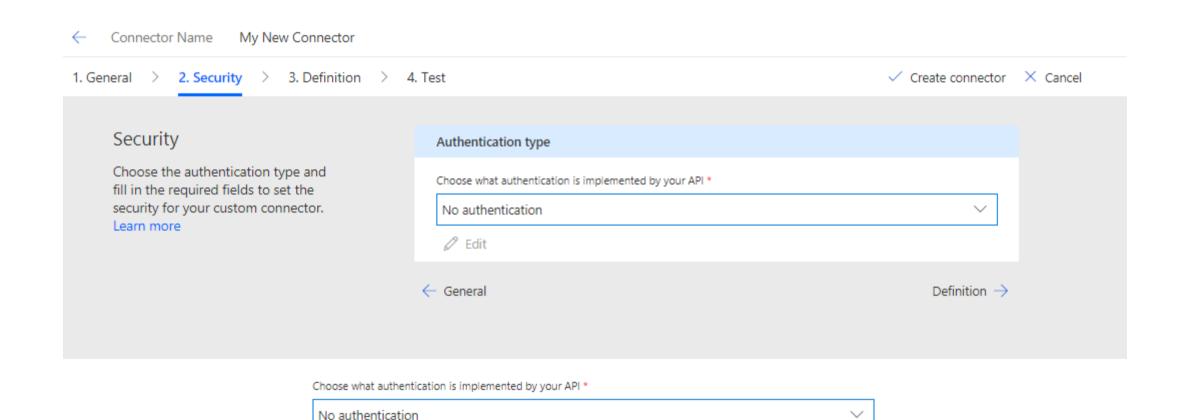
demo





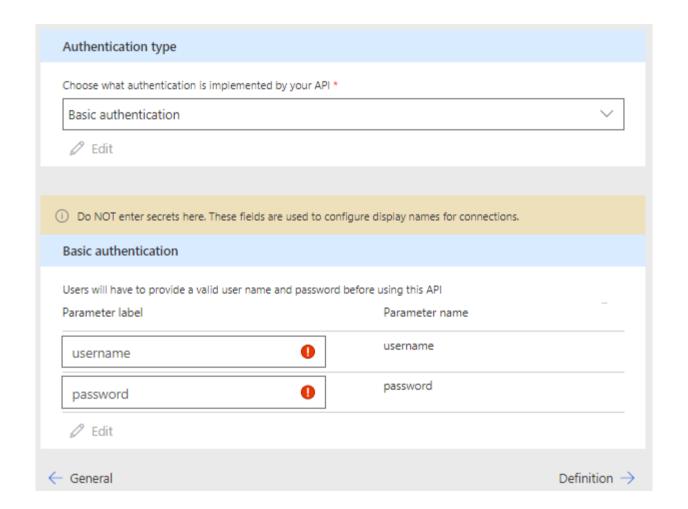


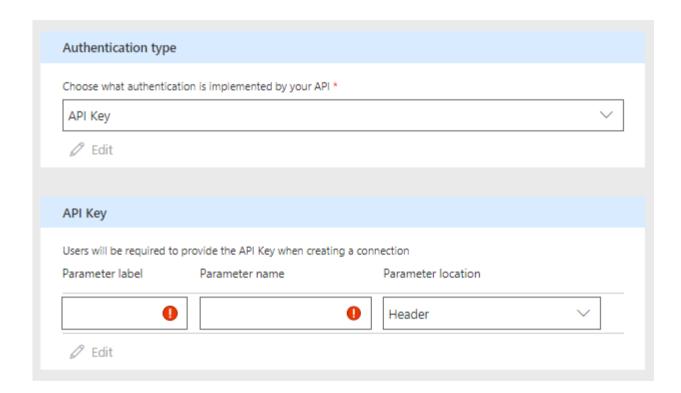


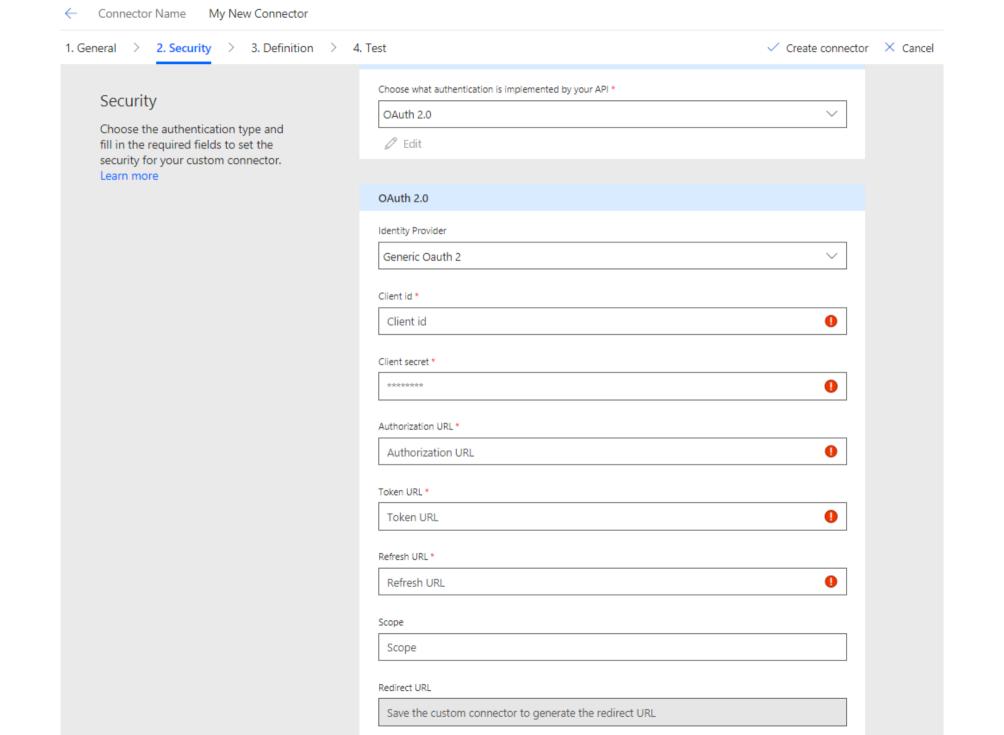


No authentication
Basic authentication

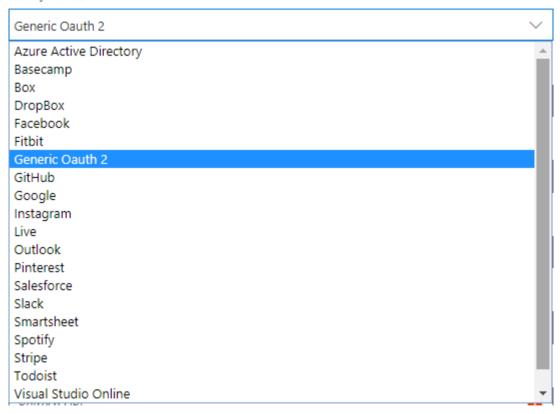
API Key OAuth 2.0

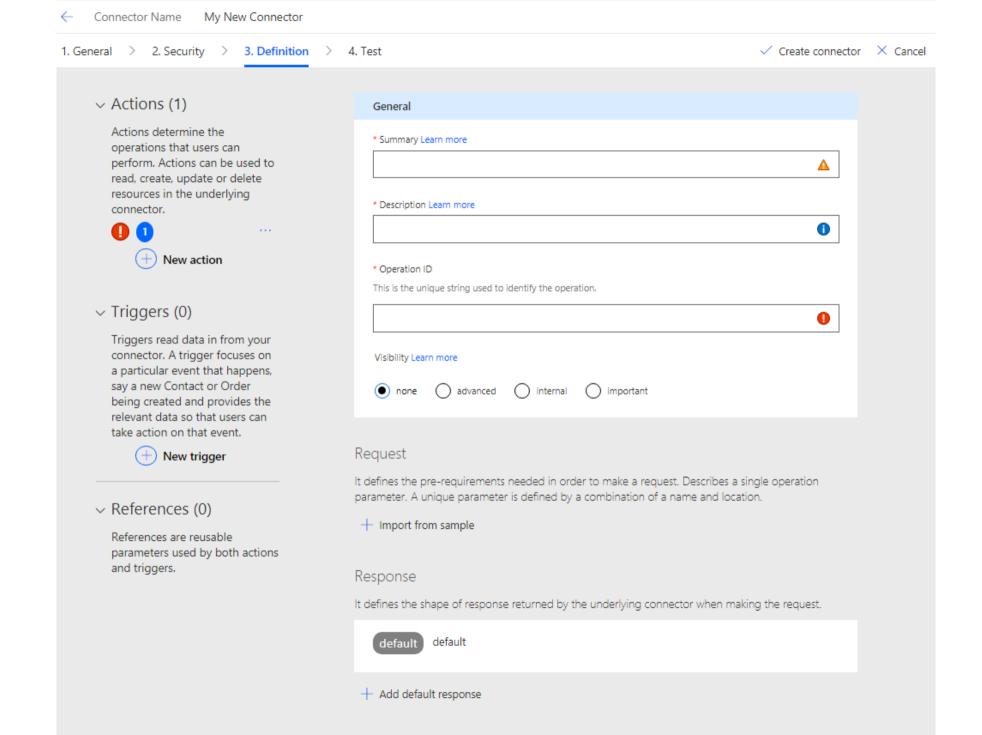






Identity Provider





Using custom connectors in Flow demo





This flow is On



Get Weather for Location

Define a custom action to happen for a selected item. It could be sending an email, copying the item to a folder or web service, or something else. You decide. To run this flow, select an item and choose this flow from the Flow menu.

Edit description

CONNECTIONS

See all >



SharePoint



onmicrosoft.com



OpenWeatherMap test

OpenWeatherMap test

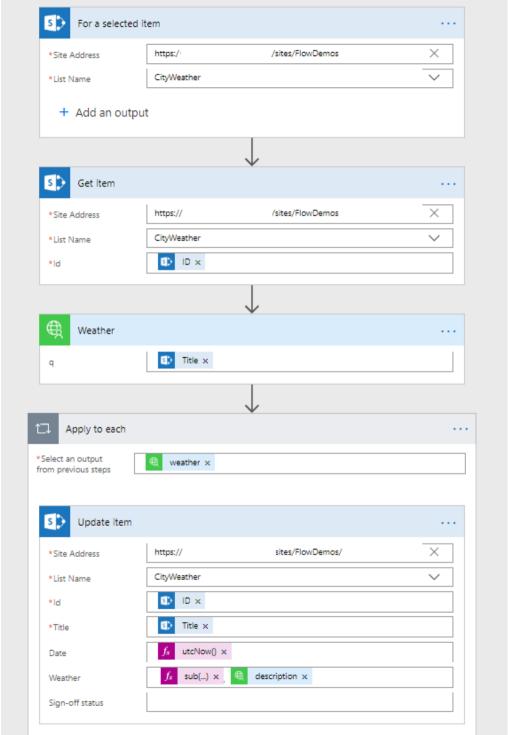


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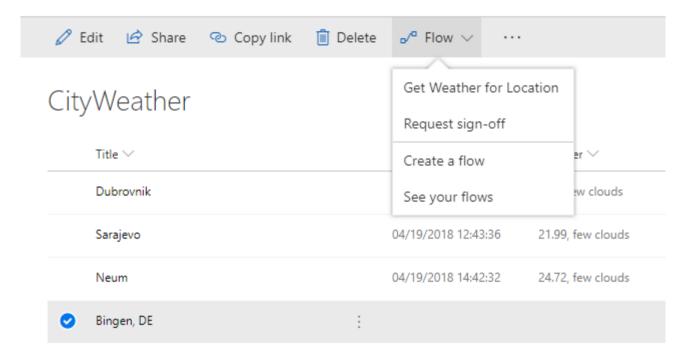
☑ See analytics

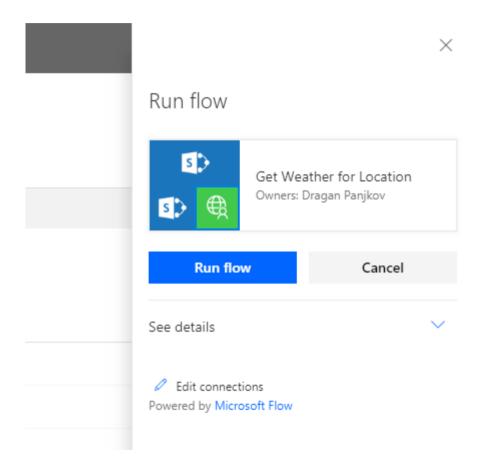
OWNERS

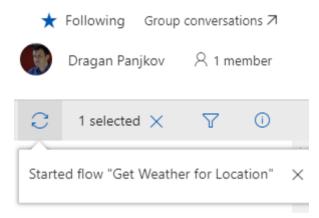
See all >











CityWeather

	Title ∨			Date ∨	Weather \vee	+
	Dubrovnik			04/19/2018 12:42:28	24.8, few clouds	
0	Sarajevo	Ŕ	:	04/19/2018 12:43:36	21.99, few clouds	
	Neum			04/19/2018 14:42:32	24.72, few clouds	
•	Bingen, DE		:	05/09/2018 22:01:59	17.74, mist	

Practical example – K2

demo

Building a Custom Connector



Develop

Build, secure and describe your API

Import from existing artifacts (Open API, Postman) or build from scratch

Test

Validate your API calls

Use in Flow and PowerApps for E2E testing

Share

Allow other users within your organization to use your connector

Certify

Share your connector with all users of Flow and PowerApps

Only for Public Connectors

Resources

flow.microsoft.com

https://aka.ms/apiconnectors

https://help.k2.com/onlinehelp/k2five/userguide/5.0/default.htm#How Tos/WorkflowRESTAPI/Workflow-REST-with-MS-Flow.htm

