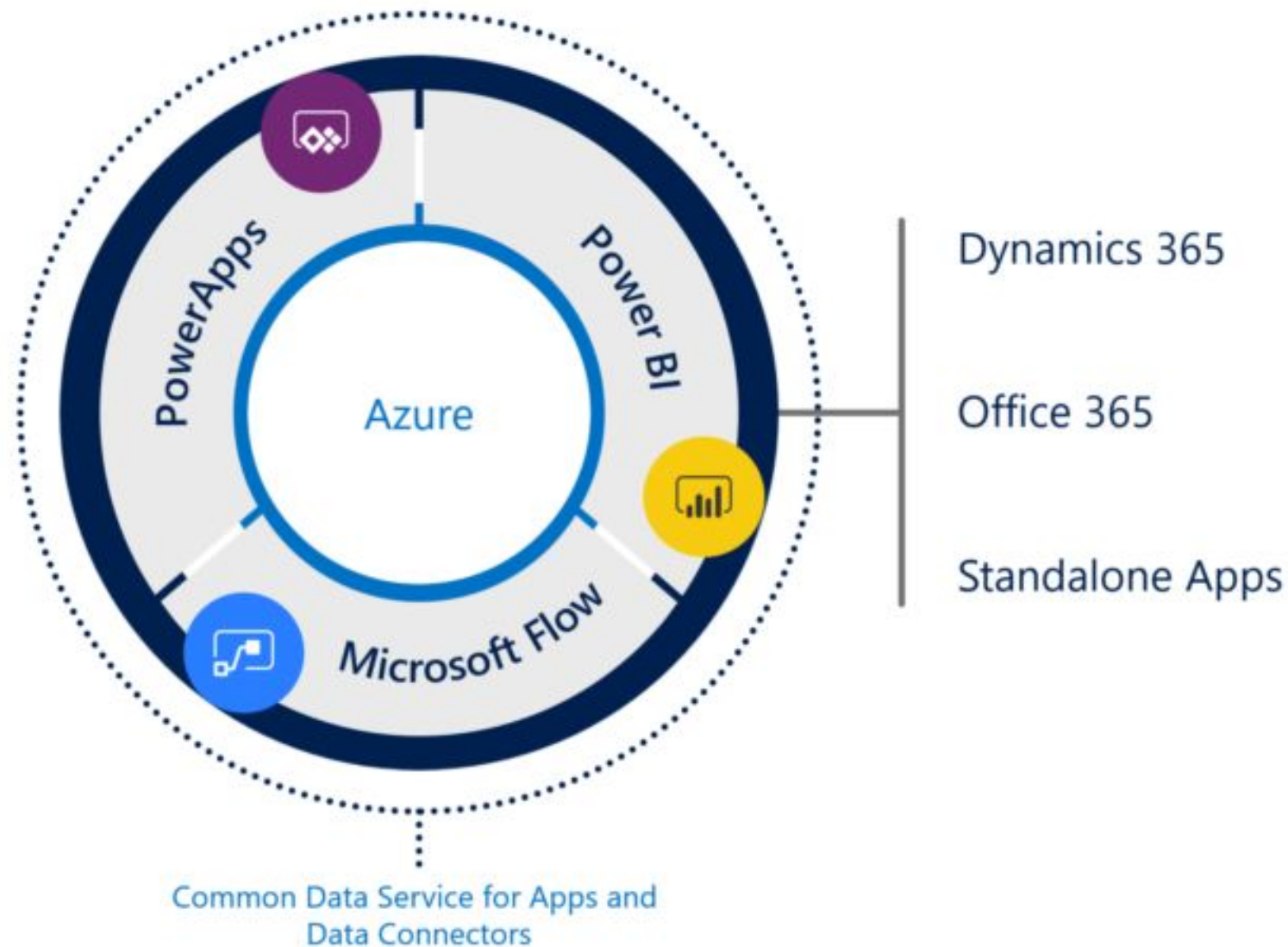


A smiling woman in a blue button-down shirt holding a white tablet, with blurred colleagues in the background.

MICROSOFT POWER PLATFORM

(PowerApp, CDS, Flow)

Microsoft Power platform



<https://powerapps.microsoft.com/en-us/pricing/#compare-plans>

<https://docs.microsoft.com/en-us/power-platform/admin/pricing-billing-skus#powerapps-for-office-365>

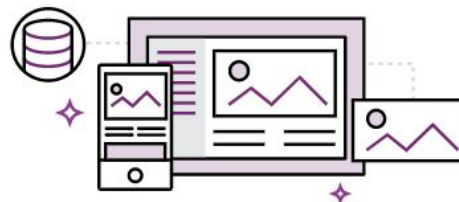
Find the right PowerApps plan for your business needs

FREE TRIAL >

US Dollar (\$)

Plan 1

For apps that connect to all your enterprise data sources including Common Data Service



\$7

Per user/month

BUY NOW >

DOWNLOAD LICENSING GUIDE >

Plan 2

For apps that model multi-stage business processes and include richer business logic with the full power of Common Data Service



\$40

Per user/month

BUY NOW >

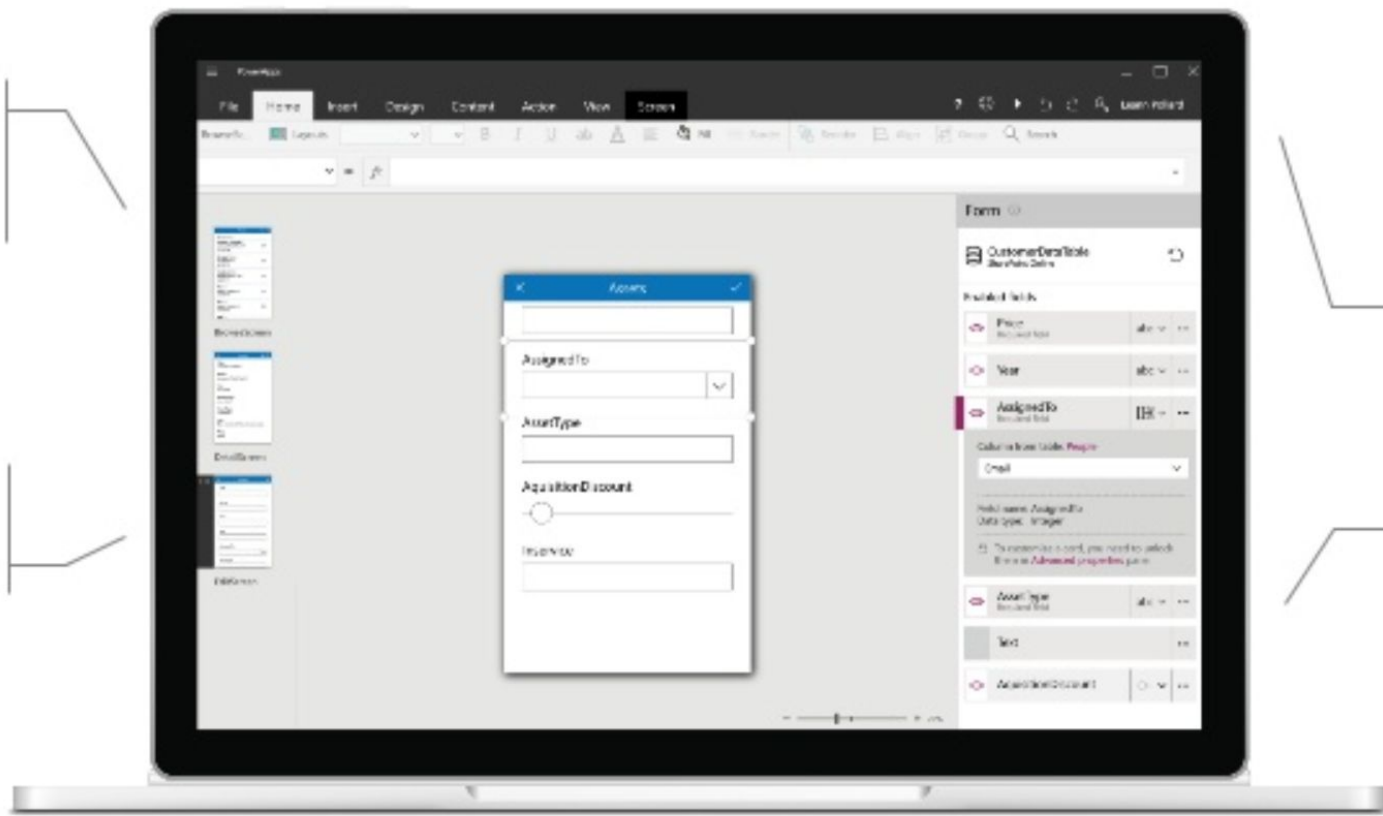
DOWNLOAD LICENSING GUIDE >

COMPARE PLANS ▾

Build useful apps without writing code

Craft forms and screens in a visual designer that helps you see exactly what you'll get

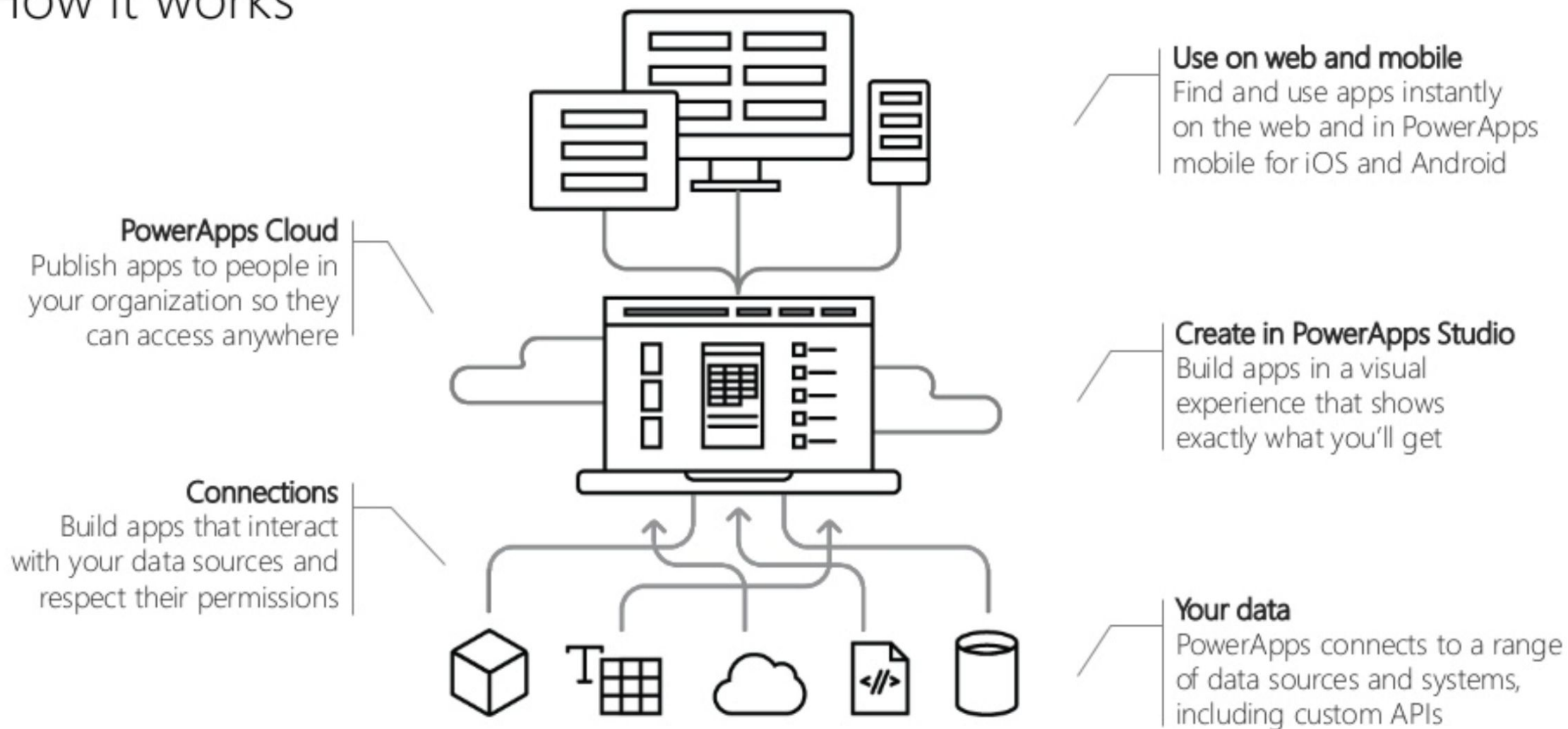
Take advantage of device capabilities like cameras, GPS, and pen controls



Build business logic into your apps with an Excel-inspired expression language

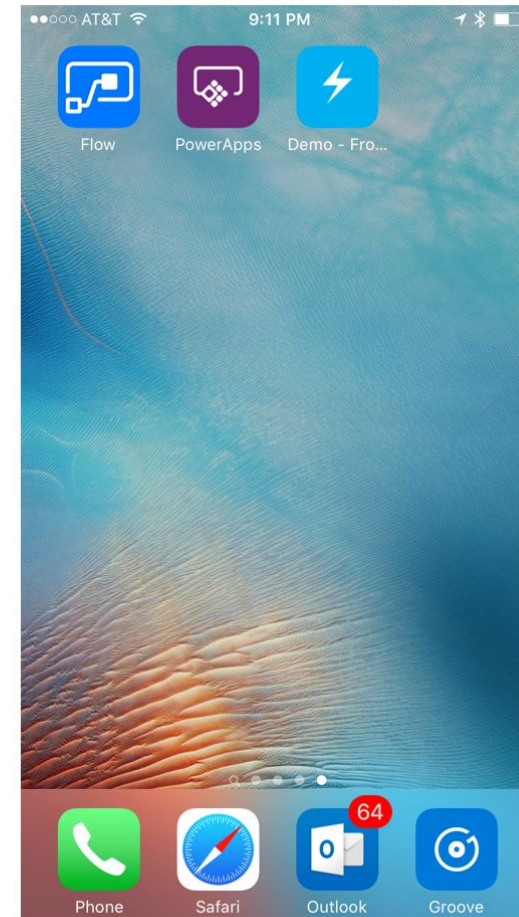
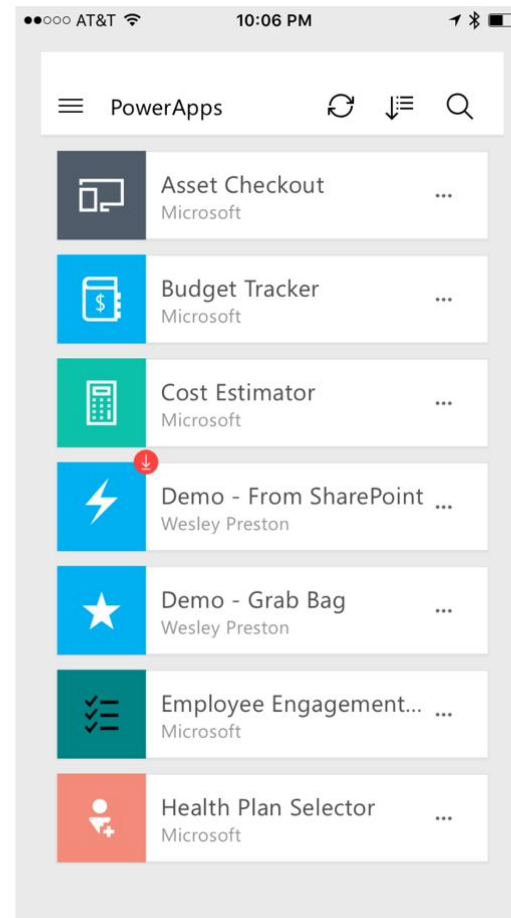
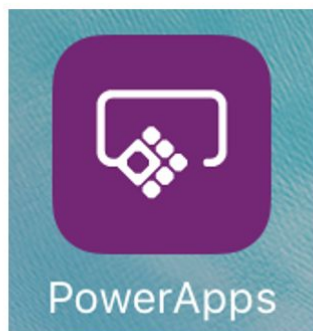
Extend the capabilities of connected data sources, or focus just on the bits you need

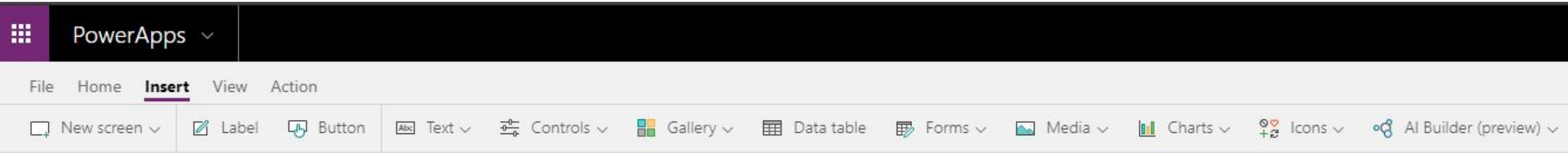
How it works



PowerApps Mobile Client

- Where you execute
- Apps available on iOS and Android (Windows Mobile on the backlog)
- Individual PowerApps can be pinned to the home page





Basic Concepts

- Screens
 - Add multiple screens and navigation between screens
 - All touch-enabled by default
- Add controls – such as textboxes, radio buttons, checkboxes, and more
- Create Lists
- Add multimedia, images, video, and more
- Pen input
- Add charts



Connect to the systems you're already using

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

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

Custom Connections (external APIs)

<https://docs.microsoft.com/en-us/connectors/custom-connectors/create-web-api-connector>

<https://powerapps.microsoft.com/en-us/tutorials/register-custom-api/>

swagger Explore

BeerAPI

An API to store information about beers and breweries native to Minnesota

Created by Phil Jirsa

See more at <http://twitter.com/pjirsa>

[Contact the developer](#)

[MIT](#)

Beer

Show/Hide | List Operations | Expand Operations

Brewery

Show/Hide | List Operations | Expand Operations

[BASE URL: / , API VERSION: v1]

ERROR

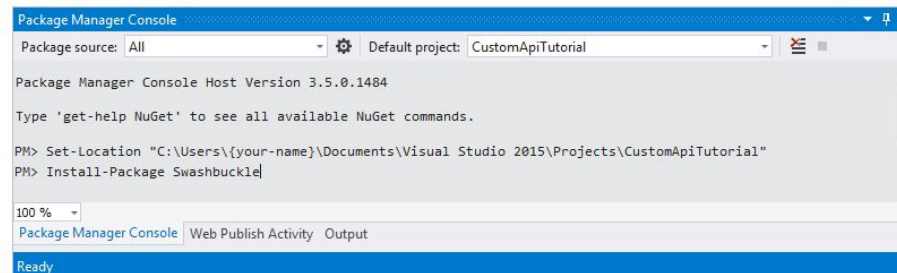
Create an OpenAPI (Swagger) file that describes your Web API

To connect your Web API app to Microsoft Flow, PowerApps, or Logic Apps, you need an [OpenAPI \(formerly Swagger\) file](#) that describes your API's operations. You can write your own OpenAPI definition for your API with the [Swagger online editor](#), but this tutorial uses an open source tool named [Swashbuckle](#).

1. If you haven't already, install the Swashbuckle Nuget package in your Visual Studio project.
 - a. In Visual Studio, choose **Tools > NuGet Package Manager > Package Manager Console**.
 - b. In the **Package Manager Console**, go to your app's project directory if you're not there already (run `Set-Location "project-path"`), and run this PowerShell cmdlet:

```
Install-Package Swashbuckle
```

For example:



Tip

If you run your app after installing Swashbuckle, Swashbuckle generates an OpenAPI file at this URL:

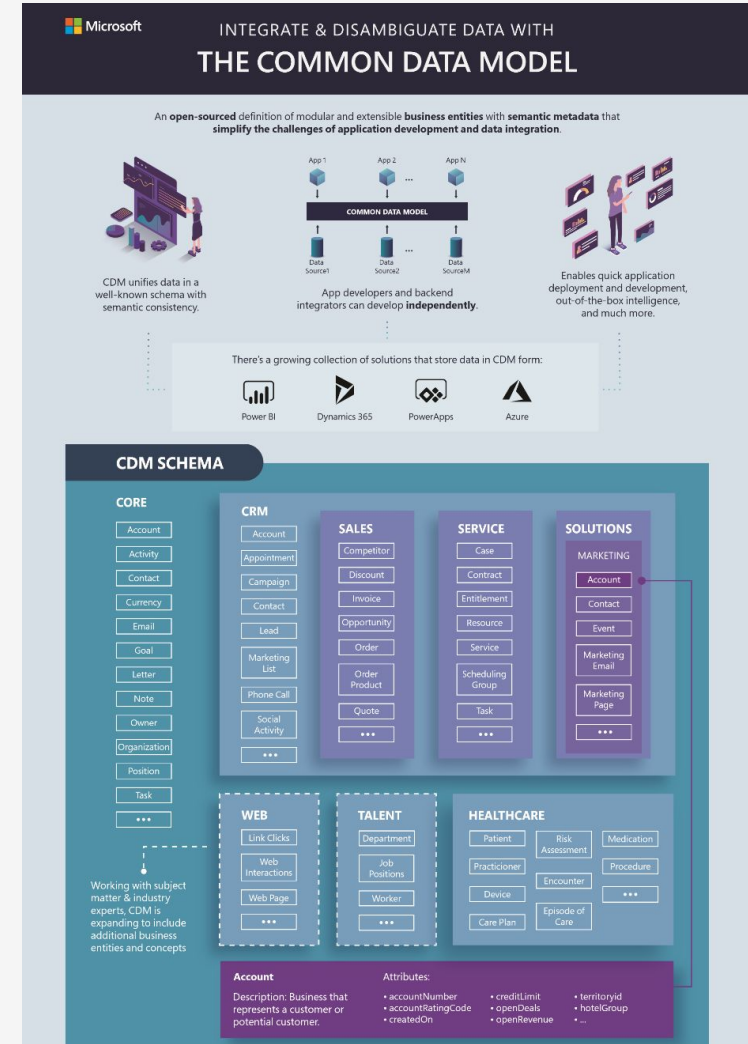
`http://{your-web-api-app-root-URL}/swagger/docs/v1`

Swashbuckle also generates a user interface at this URL:

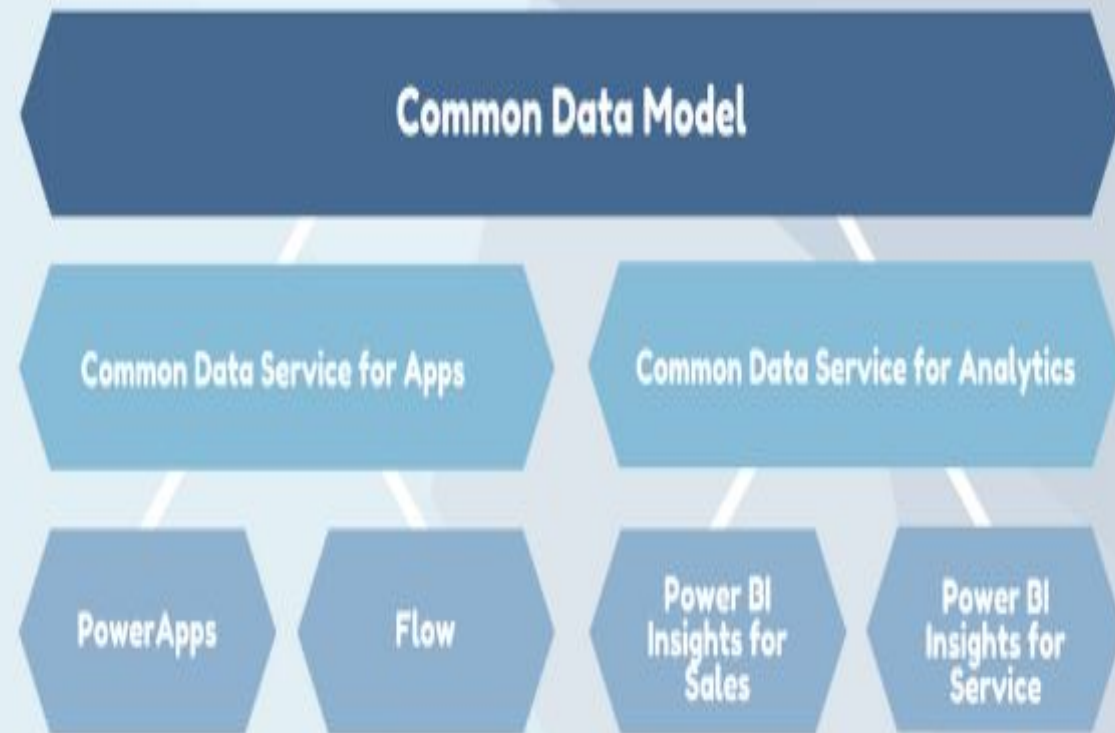
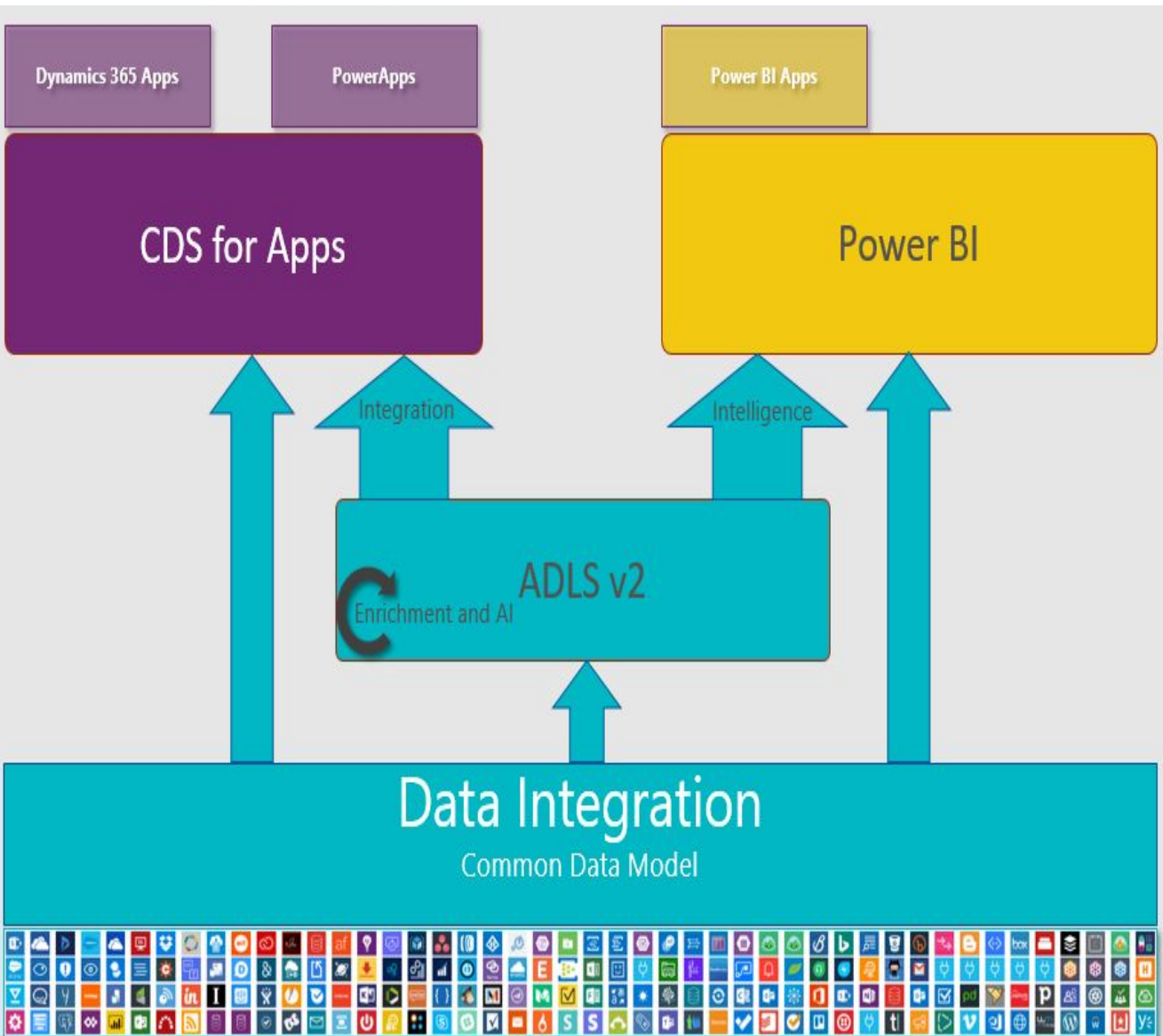
`http://{your-web-api-app-root-URL}/swagger`



<https://github.com/microsoft/cdm>



- **Common Data Service:** *Single* data store for Dynamics 365 and Office 365
- **Common Data Model:** Modular, extensible and well-defined business entities at the centre of CDS





Adobe



Microsoft



Announcing the Open Data Initiative

Deliver unparalleled business insight from your behavioral, transactional, financial, and operational data with the Open Data Initiative—a jointly-developed vision by Adobe, Microsoft, and SAP.

Open Data Initiative & the Common Data Model



Move data into CDS with the Data Integrator

Generally available since July 2017

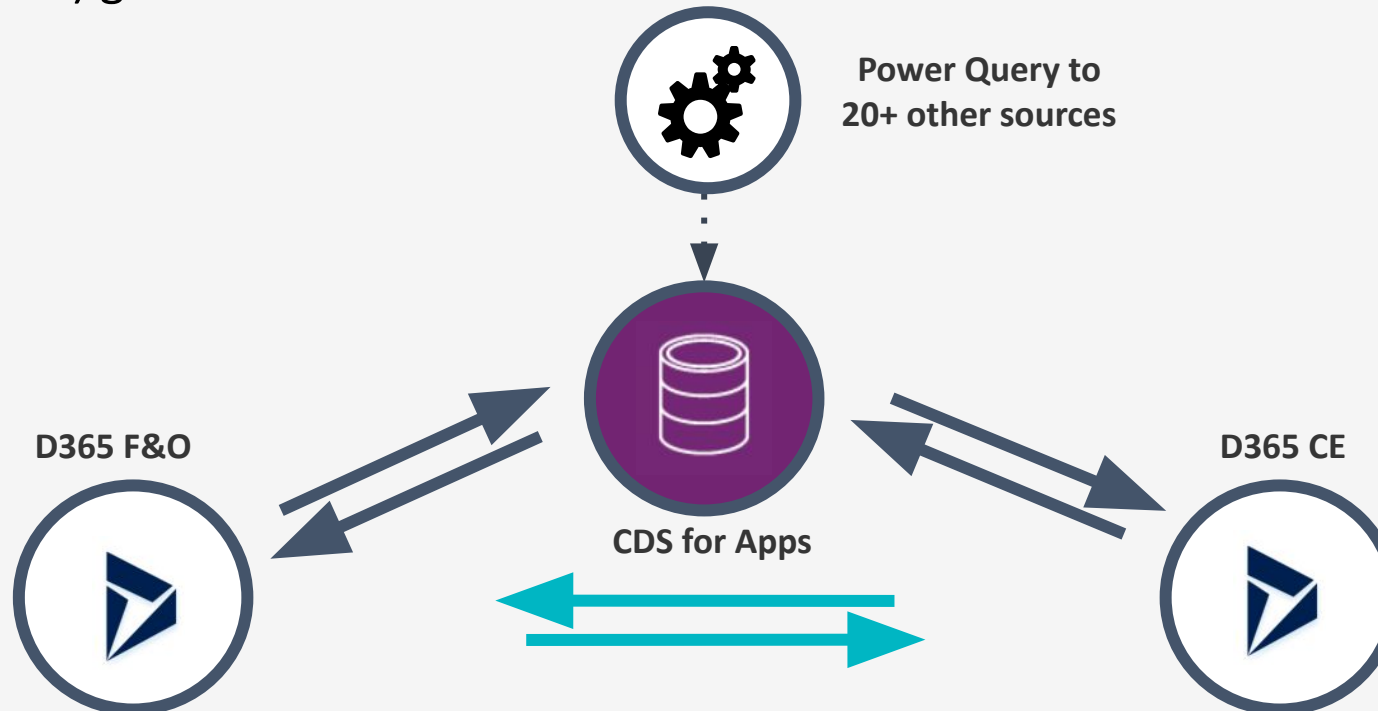
Part of Power Apps Admin portal <http://admin.powerapps.com>

Must have a PowerApps P2 license

Dynamics 365 for Finance and Operations & Dynamics 365 for Sales

Supports AX Cloud <-> CRM Online 8 & 9 <-> Salesforce

Power Query (in preview) gives us 20+ sources





Introducing Microsoft Flow

Microsoft Flow helps you **work smarter** by automating workflow across your apps and services



Get notifications



Synchronize files



Collect data



Automate approvals



Integrate the systems you're already using... even custom APIs.

Get started quickly with over a hundred useful templates

Three ways to make a flow

Start from blank

- Automated flow**
Triggered by a designated event.
- Instant flow**
Triggered manually as needed.
- Scheduled flow**
You choose when and how often it runs.

Start from a template

Search all templates

Top picks Approval Calendar Data collection Email Productivity

- Save Office 365 email attachments to OneDrive for Business**
By Microsoft
Automated 240045
- Start approval when a new item is added**
By Microsoft
Automated 143948
- Get a push notification when you receive an email from your boss**
By Microsoft
Automated 109171
- Get updates from the Flow blog**
By Microsoft
Automated 44617
- Get daily weather reports delivered to your email and phone**
By Microsoft
Scheduled 19006
- Get an email list of Wunderlist tasks due each day**
By Microsoft
Scheduled 2591
- Get Office 365 email notifications forwarded to a Slack channel**
By Microsoft
Automated 1189
- Assign new Leads to owners in Dynamics 365 from a SharePoint List**
By Microsoft Flow Community
Automated 17

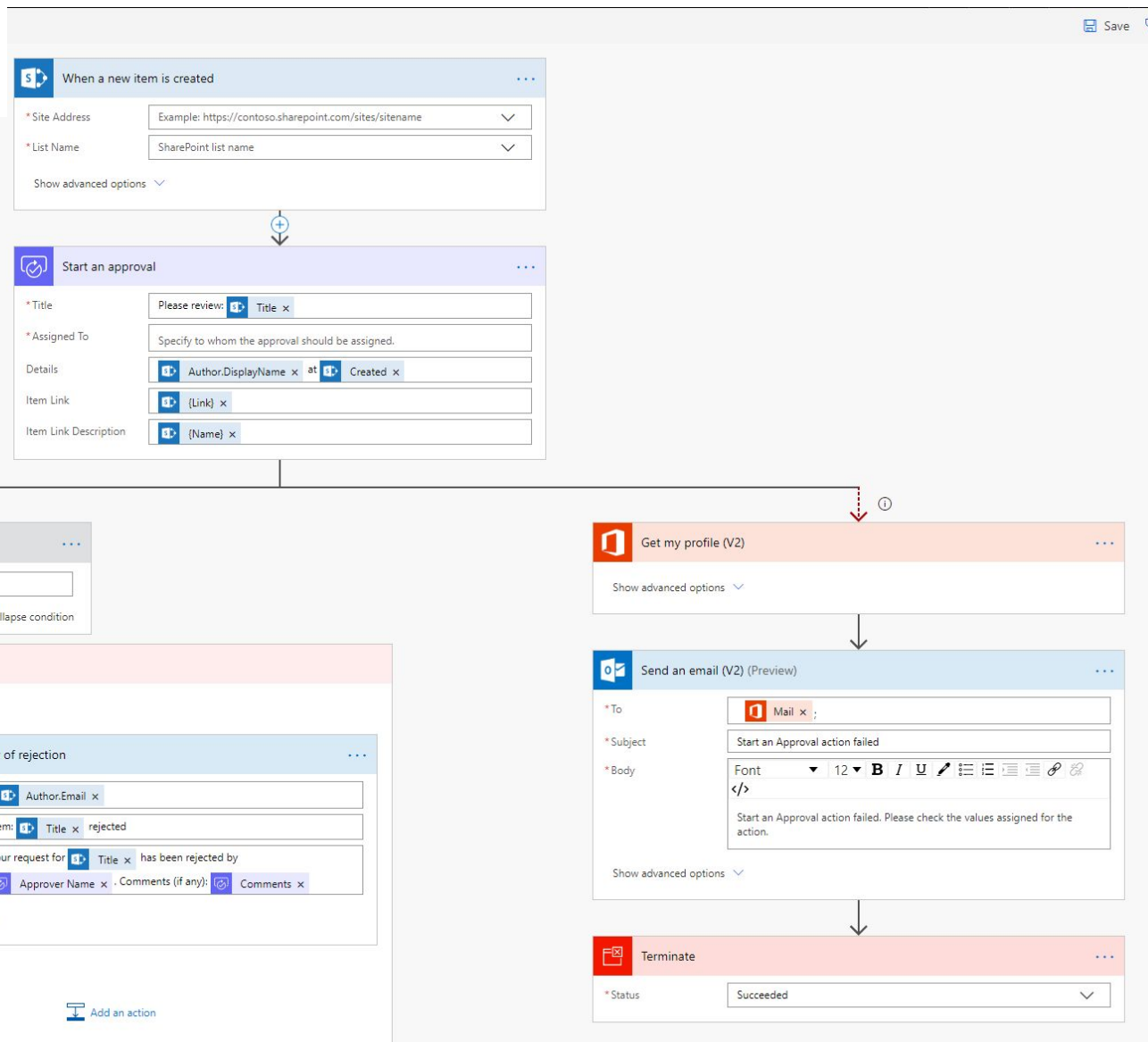
All templates

Start from a connector

- Office 365 Outlook
- SharePoint
- OneDrive for Business
- Microsoft Forms
- Planner
- Microsoft Teams
- Common Data Service
- Outlook.com
- RSS
- SQL Server
- Power BI
- Azure DevOps
- OneDrive
- OneNote (Business)
- 10to8 Appointment Scheduling
- Act!
- Acumatica
- Adobe Creative Cloud
- Adobe Sign
- Agilite

All connectors

Build your own flows in an easy to use visual designer





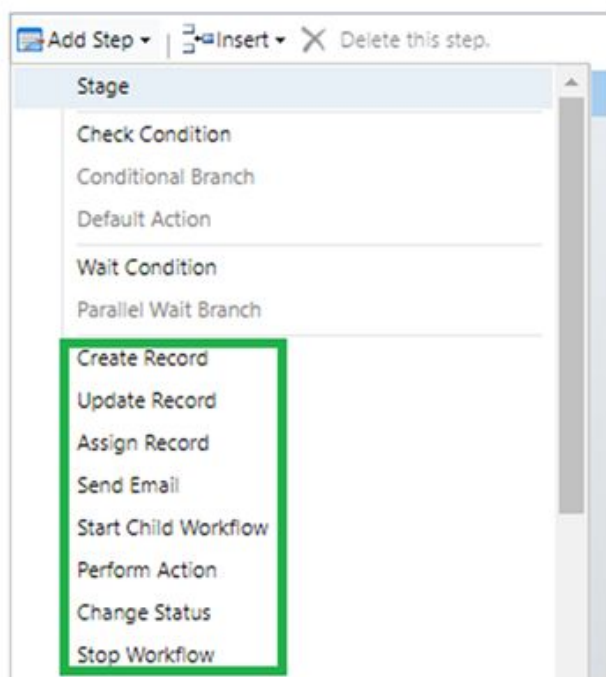
Microsoft Flow is now included with most Dynamics 365 plans. This means that when we start building background workflows for our Dynamics 365 instance we are greeted by the following message:

Information

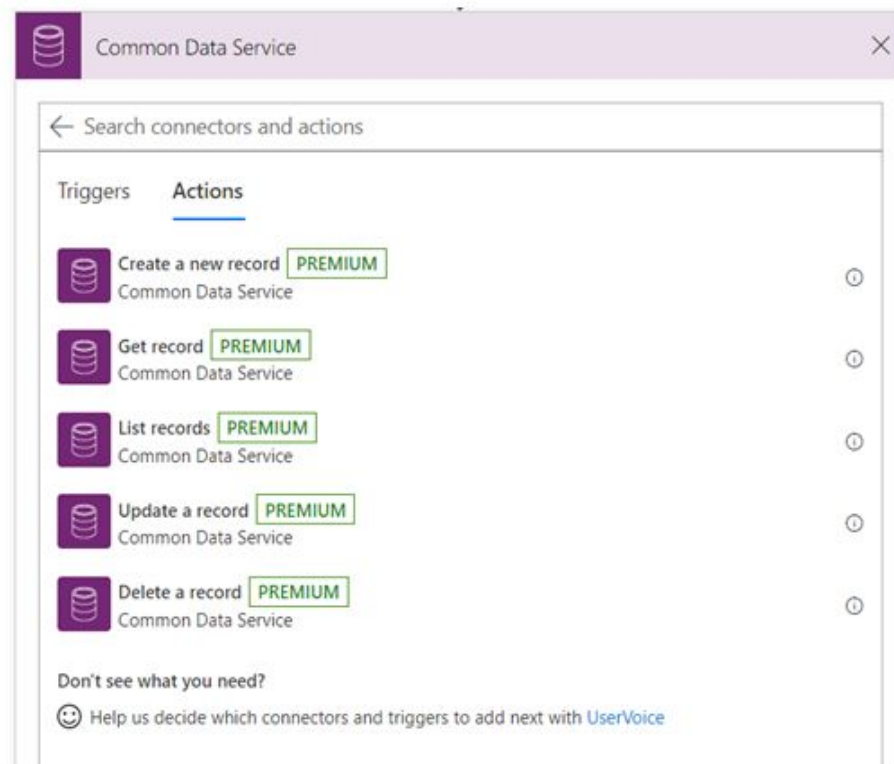
We recommend using [Microsoft Flow](#) instead of background workflows. [Click here](#) to start building Flows!

Actions

Now if we look at actions we can see that the actions available in the classic designer are the following:



In Flow we find the following actions for the Common Data Services connector:





Literature

<https://docs.microsoft.com/en-us/powerapps/powerapps-overview>

<https://docs.microsoft.com/en-us/flow/sign-up-sign-in>

<https://docs.microsoft.com/en-us/learn/modules/get-started-flows/>

A photograph of a large, classical-style statue on a pedestal in the foreground, set against a modern building with a glass facade at night. The building's upper section is illuminated with a blue light, and the sky is dark. The scene is framed by a white L-shaped bracket on the left and right sides.

Thank you for attention