

Center of Excellence starter kit

The Center of Excellence (CoE) starter kit is a collection of components or tools that are designed to help get started with developing a strategy for adopting and supporting the Power Platform, with a focus on PowerApps and Flow.

Download the most updated assets from the [GitHub repository](#).

The entire content package can be downloaded directly at <https://aka.ms/CoEStarterKit>.

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Motivation

PowerApps and Flow have drastically matured as a platform since 2017. When it was first announced and gained popularity, there was more focus on understanding and adjusting to the nature of the product and how it could best be utilized on an individual level. Nowadays, PowerApps and Flow has achieved much more widespread adoption, and it's no longer a question of how or whether to use the platform—companies are now looking to understand how to scale adoption throughout their own organizations in a maintainable way to fully benefit from it. Since the Power Platform is a unique type of product, it might be unfamiliar to administrators who want to achieve the latter goal of creating a scalable strategy to adopt and support PowerApps and Flow in their organization.

Developing a Power Platform Center of Excellence (CoE) is a high-level goal, which means there is some focused entity that manages and supports the platform. We often hear that companies wish to develop their own CoE because having this entity provides evidence of a mature approach to utilizing PowerApps and Flow. There are multiple responsibilities of an established CoE, and it's up to each organization to figure out how they decide to define parameters for those responsibilities. These responsibilities can be segmented into the following four categories.

- 1. Administration & Governance**

- A. Secure
- B. Monitor
- C. Alert and Action

- 2. Nurture**

- A. Evangelism and Training
- B. Technical Guidance
- C. Tools and Components

- 3. Operations**

- A. Application Lifecycle Management
- B. Infrastructure automations

- 4. Support**

The Center of Excellence should consider the way they choose to address each of these responsibilities. For example, what can your organization do to promote Evangelism and Training of PowerApps and Flow? How does the CoE adequately Monitor the activity in the organization? What are the security requirements for the organization, and how are they being implemented? Although these responsibilities might be broken up between different business units within the same organization, they need to be addressed and ideally documented.

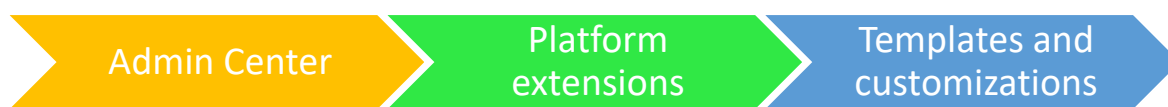
The main reason for developing a CoE starter kit was to convey the concept of what a CoE might need to do, while giving an example of how to address some of these requirements. The kit is just a template that might not match every organization's requirements, so it's recommended that you extend the solution to fit your organization's requirements defined by your CoE.

Philosophy

A Power Platform Center of Excellence is an entity that should take ownership of PowerApps and Flow support and is best executed if the people involved plan a strategy around pre-defined processes and shared goals. Part of this strategy will require some interaction with the platform resources directly, and it's good to understand where and how to interact with the platform in those situations.

Example: Contoso organization decides that administrators should have complete control over the Environment creation in their tenant, to avoid unaccounted consumption of database capacity. There are multiple ways to implement a process to meet this requirement, and each way can use different categories of implementation.

Follow this process when thinking about the medium in which a Center of Excellence strategy should be executed:



Admin Center The core, most important capabilities for admins and makers exist in the supported product portal features (e.g., PowerApps & Flow maker portals and admin portals). These features are designed to be the easiest and most robust way to complete tasks. For example, Environment and DLP Policy creation can be executed in the PowerApps and Flow admin centers. The admin centers include:

- [Power Platform Admin Center](#)
- [PowerApps Admin Center](#)
- [Microsoft Flow Admin Center](#)

In the Contoso example, their Environment creation process could be managed through email requests, and administrators manually create the Environments. They would need to understand that Environments can be created in the PowerApps and Flow admin centers, which are considered out-of-box features that are fully supported by the product team.

Platform extensions There are four standard connectors that provide access to the same APIs that the out-of-box product use. These have been exposed through the connectors library to give users the ability to create custom solutions to execute administrative or governance related tasks.

Admin connectors ([Announcement](#)):

- [Power Platform for Admins](#)
- [PowerApps for Admins](#)
- [Flow Management](#)
- [PowerApps for App Makers](#)

Coming back to the Contoso example, the Environment creation process can be automated using the admin connectors to create Environments with Flow, based on a request submitted to some database through an interface designed by the Center of Excellence team. This might take some more initial configuration to design and implement, but it will benefit the administrators because they would no

longer be required to spend time navigating to the admin portals and manually entering in the user's requested information. Since the solution is a custom implementation (e.g., a Flow), the solution itself is not supported by the product group but the correct functionality of the connectors and API will be.

This path also represents a feedback loop that can be used to help develop the product. First, administrators should look to the admin center that is provided from the product team. If the features in the admin center does not meet the need, they can use extensions to achieve their goals, and could potentially be additions to the product in the future if enough people need it. That paradigm can also be seen in the CoE starter kit itself—it may or may not have all the features you are looking for from the start, but we plan to iterate on the solution and can develop the templates in areas that are needed.

Templates & customizations The CoE starter kit falls into this category, which is a set of templates that use the admin connectors in combination with other connectors and formulas to achieve some specified goal. The nature of a template is to provide a good solution for that specific task, but it might not have the exact functionality that everyone needs and could require adjustment to achieve what others might be looking for. It is better to first explore the other two options before instantiating a template, unless it's clear that the template has everything you need from the start.

If our Contoso admins came across a template that implements a process for Environment creation, they would need to consider if the template matches the process they are looking for or if they're willing to adopt the solution it presents instead. If not, they might have to make adjustments to the template to fit their process. Because not all templates are supported by the product group (e.g., found on the community channel), there's no guarantee that it will meet expectations defined. Therefore, it's recommended to first explore the more supported platform features before looking to templates.

Prerequisites

The following are prerequisites for installing the CoE starter kit as it comes in the solution.

1. Admin account (global tenant admin, BAP admin or Power Platform service admin) for access to all tenant resources. This solution will still work for Environment admins, but the view will be restricted.
2. PowerApps Plan 2 (or trial)
3. Environment with a CDS for Apps instance provisioned, where the user installing the solution has System Administrator security role.
4. Download of the Center of Excellence Solution and Power BI dashboard files to your device

These are the requirements for using the solution.

1. **Admin:** PowerApps Plan 2 (or trial) + assigned the Power Platform Admin SR + Audit Log access.
2. **Maker:** PowerApps Plan 1 + assigned the Power Platform Maker SR
3. **User:** PowerApps Plan 1 + assigned the Power Platform User SR

Note: Instructions to grant access and assign security roles can be found in the Setup Instructions section.

Scope

The CoE starter kit is a set of tools to help a company get started with adopting the Power Platform, because it contains patterns and a solution structure that helps manage resources and information about those resources.

However, the kit does not represent the entire Center of Excellence, because there is much more to a Center of Excellence than the tools alone; the Center of Excellence also requires people, communication, defined requirements and processes. The tools provided here are just a means to get to the end goal, but the Center of Excellence itself must be thoughtfully designed by each organization based on their needs and preferences.

Components list

List of components included in the CoE starter kit. Some are included in the solution package, and others live just outside of the package.

Solution Aware components

Common Data Service Entities

These entities are defined in the solution package.

Note: Where the data comes from? The Flow called “Admin | Sync Template” iterates through the resources in the tenant (Environments, Apps, Flows, Connectors) using the admin connectors.

Environment

Represents the Environment object, which contains PowerApps, Flows and Connectors.

PowerApps App

Represents a PowerApps App.

Flow

Represents a Flow.

Connector

Represents a standard or custom connector.

Connection Reference

Represents a connection used in a PowerApp or Flow.

Maker

Represents a user who has created a PowerApp, Flow, Custom Connector or Environment.

Audit Log

Represents session details for PowerApps.

Where the data comes from

The Office 365 Audit Logs. The custom connector included in the kit will provide programmatic access to these logs, and the Flow called ‘Sync | Audit Logs’ will populate this entity.

CoE Settings

Settings configurations live in a record here. This is an important entity to populate data into during the setup process, because it contains details that are important for configuring the branding and support aspect of the solution

Security Roles

Power Platform Admin SR

Gives full access to create, read, write and delete operations on the custom entities.

Power Platform Maker SR

Gives read and write access to the resource custom entities.

Power Platform User SR

Gives read only access to the resources in the custom entities.

Flows

List of Flows that come with the solution.

Admin | Sync Template

“Uber” sync Flow that syncs resource data from the admin connectors to the CDS resource entities.

Admin | Sync Audit Logs

Uses the Office 365 Audit logs custom connector to write audit log data into the CDS Audit Log entity.

This will generate a view of usage for PowerApps. This Flow also comes in a separate package outside of the solution when you download the CoE Starter Kit because it’s easier to import the package separately with the custom connector. Follow the instructions in the audit log section to learn more.

Admin | Welcome Email


Sends an email to a user who creates a PowerApp, Flow, Custom Connector or Environment

Admin | Compliance detail request

Sends an email to users who have PowerApps apps in the tenant who are not compliant with specific thresholds:


- The app is shared with > 20 Users or at least 1 group and the business justification details have not been provided.
- The app has business justification details provided but has not been published in 60 days or is missing a description.
- The app has business justification details provided and has indicated high business impact, and has not submitted a mitigation plan to the attachments field.

The Flow has a template you can customize in the email sent out by the Flow, but will otherwise look like the following:



PowerApps

Update your app details to stay in compliance.



You own an app that's currently shared broadly and missing compliance details, which means it needs to be audited by an administrator per our support policy. Please complete the business justification details in the Developer Compliance Center app to document the intended use.

App Details

Display Name	Heritage Diary working
Environment	Contoso (Development) (contosodev)

Instructions

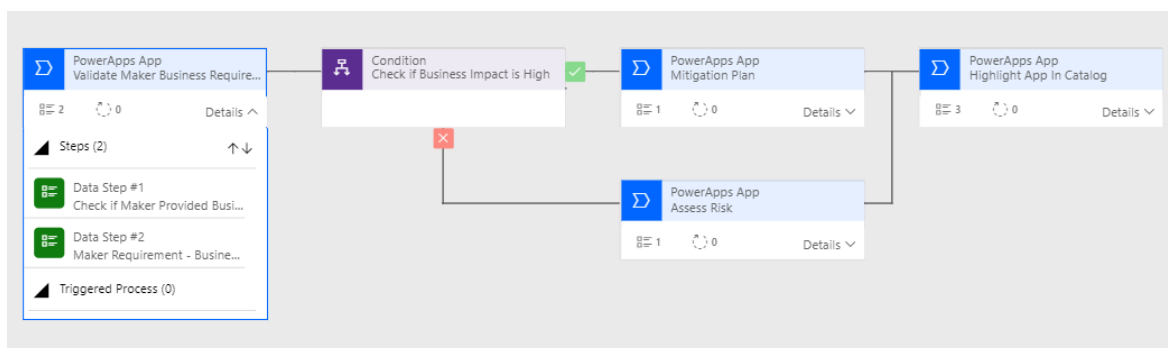
1. Login to the [Developer Compliance Center](#) and locate your app.
2. Enter your business justification and other details in the "Support Details" form.
3. If your app indicates a high business impact, you must provide additional documentation for a mitigation plan and required support details.

Questions? Get help from our community [Yammer Group](#).

Business Process Flows

PowerApps App Approval BPF

This process helps the admin audit the PowerApps App audit process by providing a visual placeholder for the stage in the process they are currently on.



Screenshot: An implementation of an auditing process using a Business Process Flow component

The screenshot shows the 'PowerApps App' form in the 'Community Engagement' section. The form is titled 'Validate Maker Business Requirements (3 D)' and is active for 3 days. It features a 'Next Stage' button and a 'Display Name' field. The form is divided into several sections: 'App Details' (containing 'App Environment', 'App Created', 'App Modified Date', and 'App Published'), 'App Connections' (containing 'App Connection References'), and a 'Next Stage' button. The form also includes a 'Check if Maker Provided Business Requirements' section with a 'No' button and a 'Business Impact' field. The form is displayed in a 'BPF view' while playing the model driven app, on the App form.

Screenshot: The BPF view while playing the model driven app, on the App form.

Canvas Apps

Developer Compliance Center

This app is used in the PowerApps App Auditing Process, defined later in this document, as a tool for users to submit information to the center of excellence admins as business justification to stay in compliance. They can also use the app to update the description and re-publish, which are other ways to stay in compliance.

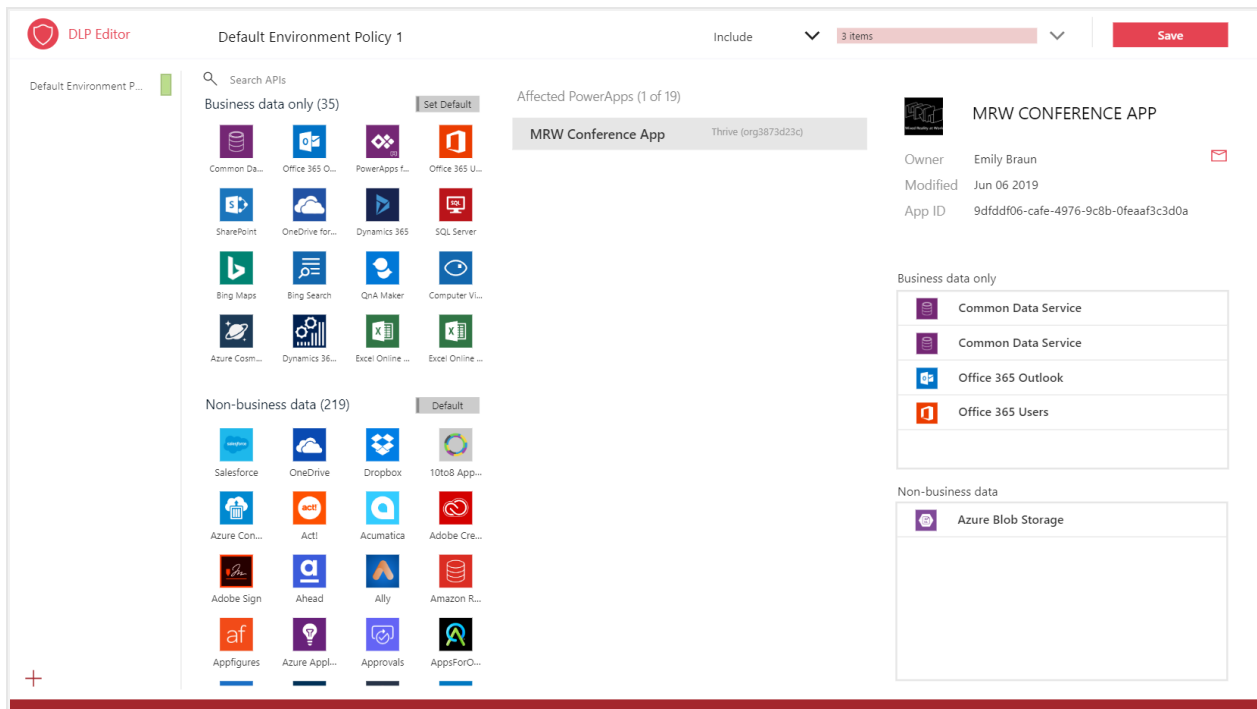
App Catalog

Canvas app that gives access to the entire organization to make apps more discoverable. Admins audit and validate certain apps which are graduated to the app catalog if the app is meant to be shared broadly.

When you first open the App Catalog, you will not see any apps there at first. There is a field on the PowerApps App entity called "In App Catalog", which is a two-option set type field (aka Boolean). If the value is set to "Yes", the app will show up in the catalog.

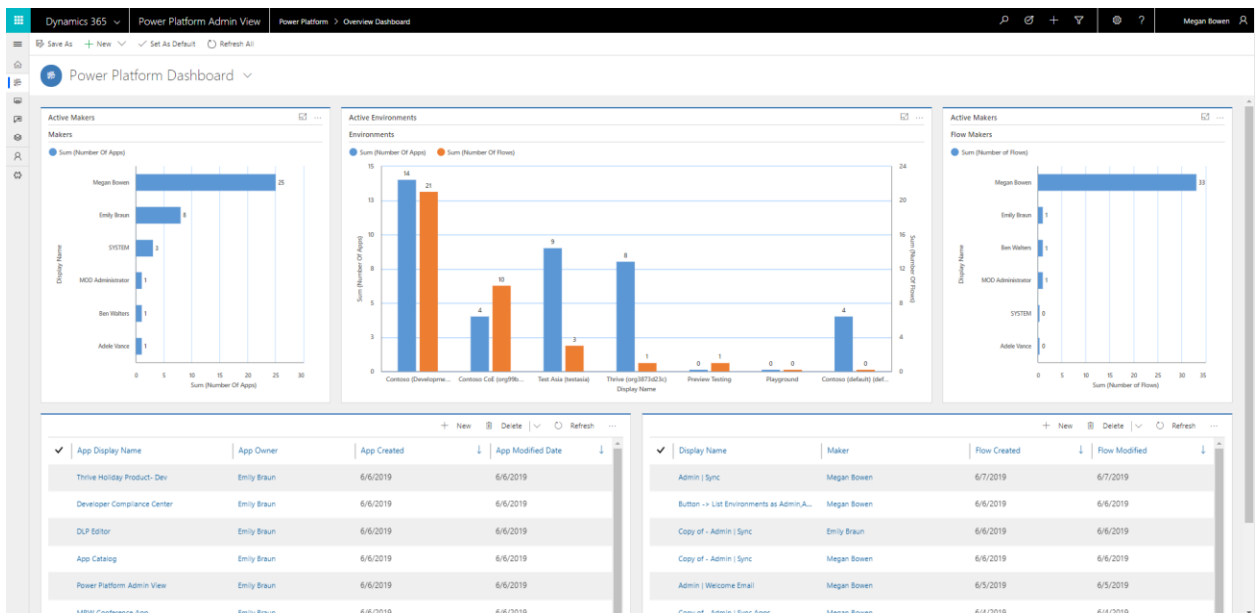
DLP Editor

Canvas app that reads and updates DLP policies while showing a list of apps that are affected by the policy configurations.



Model Driven App

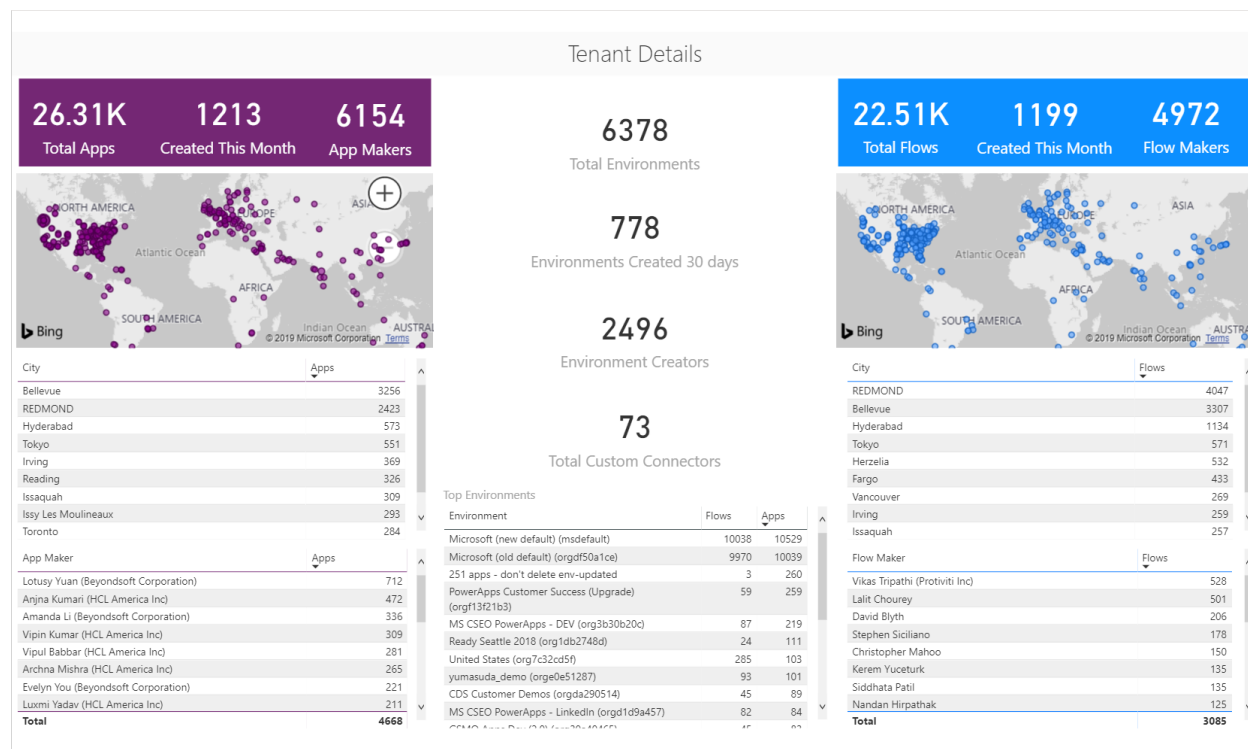
Power Platform Admin View. A model driven app that provides an interface used to navigate the items in the CDS custom entities. It provides access to views and forms for the custom entities in the solution.



Non-Solution Aware

Power BI Report

Provides a wholistic view with visualizations and insights of data in the CDS entities: Environments, PowerApps Apps, Flows, Connectors, Connection References, Makers and Audit Logs.



Audit Log Custom Connector

The Open API definition for the custom connector that can be used to connect to the Audit Logs. This uses Basic authentication to connect to the API, which requires a username and password of an account that has access to the Audit logs. This appears in the download pack as “Office-365-Audit-Logs.swagger.json”.

The Flow called Admin | Sync Audit Logs comes in a zip file, which is called a Flow package. The Flow is much easier to import as a Flow package than it is through the solution right now because of the custom connector action. Follow the instructions at the end of this document for more detailed information.

Example Processes

The components listed above are designed for multiple uses, including an implementation of some the example processes. These are meant to showcase common patterns that exist, and hopefully act as inspiration on how to define your own processes to manage.

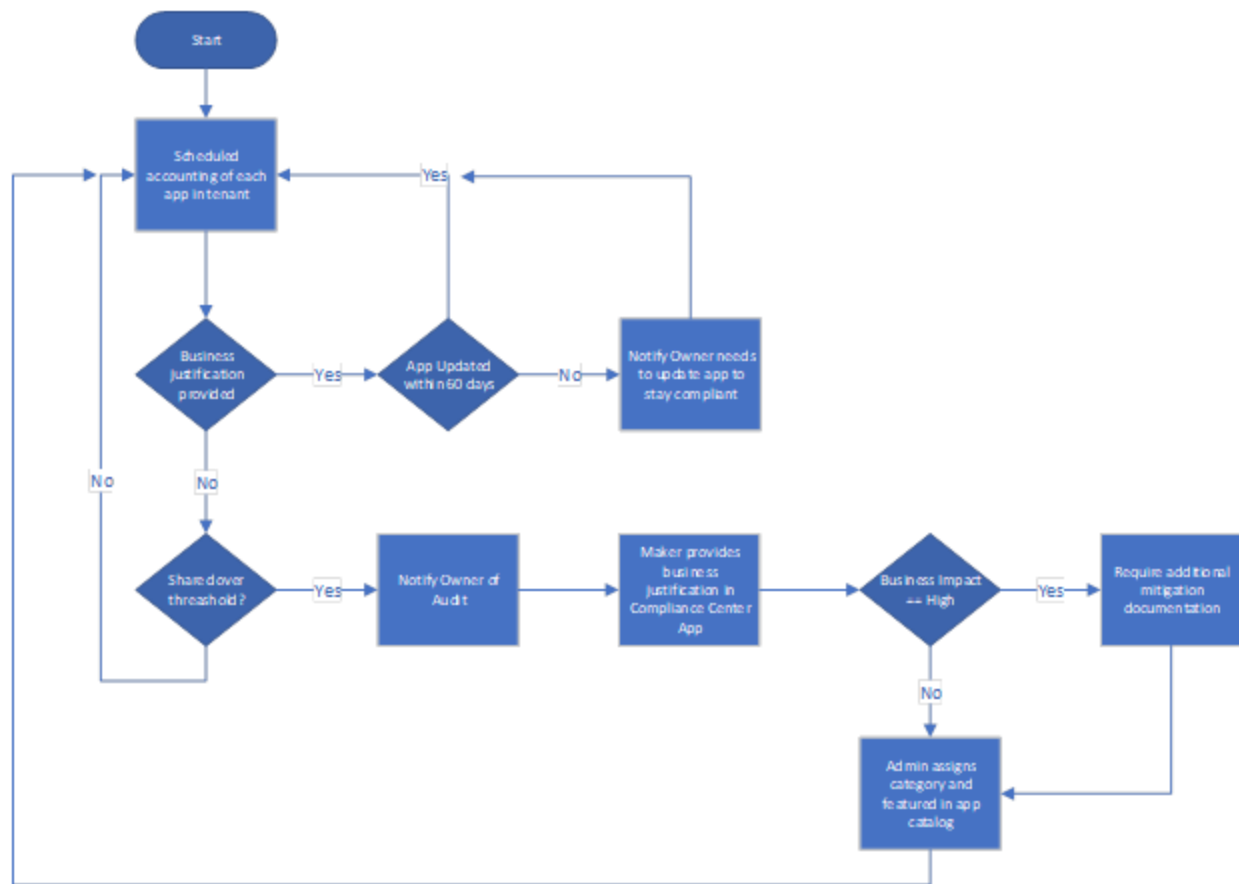
PowerApps App Auditing Process

Problem statement: There are many apps in the Contoso tenant. IT does not know what all these apps are intended for, how to support individual apps when the helpdesk is called, and it's unclear if all the apps are being maintained to any standard. They can see details like the description and number of shared users from the PowerApps for Admins connector, but they need to communicate directly with the app owner to fully understand the situation around their apps. Especially in a large organization like Contoso, it's not feasible for the IT team to be responsible for manually reaching out to each owner individually for the apps, and those details cannot be stored in email conversations.

Solution: The CoE has decided there should be an auditing process on an app-level basis, using the CDS as a data store for business justification details. They decide to use apps and Flows built around the data to facilitate this process.

The Flow called '**Admin | Compliance detail request**' is used to iterate through all the apps in the tenant and check if the apps are compliant. If the owner has not submitted a business justification and the app was indicated to have been shared broadly (in this example, with more than 20 users or at least 1 group), then the Flow will send the owner an email to notify them that the specific app is not compliant with the company's policy. The email contains a link to the Developer Compliance Center canvas app where they can provide the business justification details in a form submission. The app also contains details about the compliance thresholds and has links to the app settings so they can configure the description and re-publish if needed.

Once the maker has proven compliance by adding these details, the admin can review those details and the app itself. A business process flow in the Power Platform Admin View (model driven app) helps facilitate the auditing process.



Limitations

There is no 'one size fits all' solution for a Center of Excellence. Some companies will want a very restrictive set of rules on their organization in the mind-frame of mitigating the unknown, while others will want to let users personally explore without limitations. Because of this, the CoE starter kit does not come equipped with a set of design patterns for everyone. For example, there are no components that are configured to automatically delete resources, because we did not want to provide a tool that might have unintentionally disrupted a business when installed. Therefore, if more restrictive implementations are desired, it must be implemented in addition to these tools.

In addition to this high-level warning, there are some additional notes on some components:

Admin | Sync Template

- This Flow might take a long time to execute, depending on the amount of resources (Environments, PowerApps, Flows and Connectors) in your tenant. In the Microsoft tenant, which has >6K Environments, >25K PowerApps, >25K Flows, and >1.5K Connectors, it takes 2 days to execute.
- The admin connectors (PowerApps For Admins, Flow Management) might experience some throttling limits if the tenant has a lot of resources. If you see 429 errors in the Flow run history

occurring in the later runs, you can turn off the Concurrency control settings in any of the apply to each loops (go to '...' menu > Settings > Concurrency control off).

DLP Editor

- The Environments call only returns the first 2000 environments. We will be updating the tool to accommodate up to 6000, but you can also follow the pattern that's implemented and implement it yourself.
- Cannot write back Environment-type policies.

Setup Instructions

There are multiple components provided in this starter kit, and each part will require some configuration to be installed in your tenant. The installation instructions have been segmented based on the set of components that should be grouped and installed together, and dependencies on other segments are outlined in each section. You may choose to exclude some components if you only want a subset of the functionality.

Prerequisites

1. Admin account (global tenant admin, BAP admin or Power Platform service admin) for access to all tenant resources. This solution will still work for Environment admins, but the view will be restricted.
2. PowerApps Plan 2 (or trial)
3. Environment with a CDS for Apps instance provisioned (installer requires System Administrator security role)
4. Download of the Center of Excellence Solution and Power BI dashboard files to your device

Step 1: Install the Common Data Service solution

Components covered

- Entities
- Model Driven App
- Canvas Apps
- Security Roles

Dependent on

Step 2: Configure CoE Settings. Make sure that the CoE Settings are completed for the Canvas Apps installed in the solution to work correctly.

Dependencies

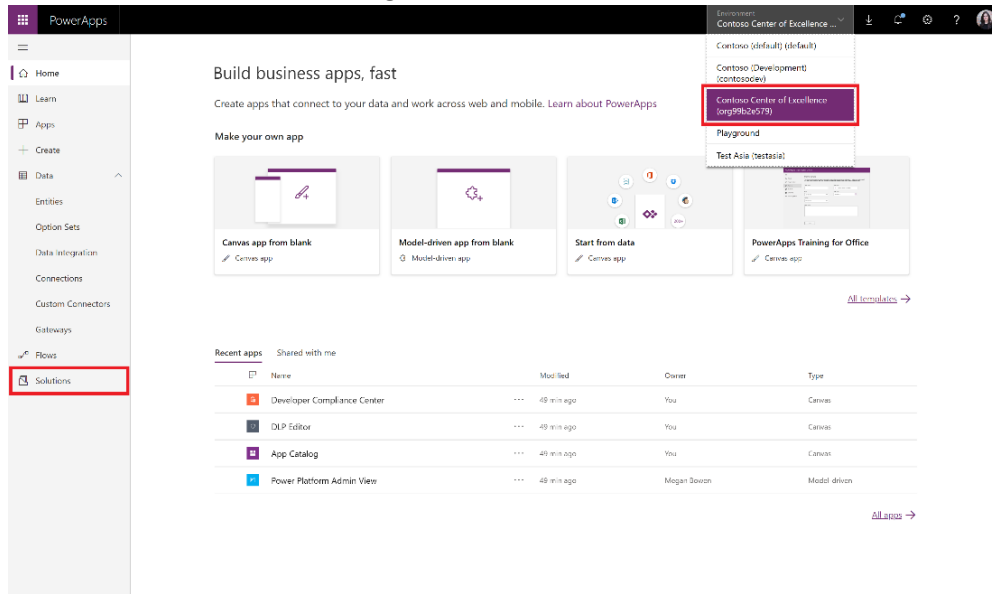
All other segments listed below.

Description

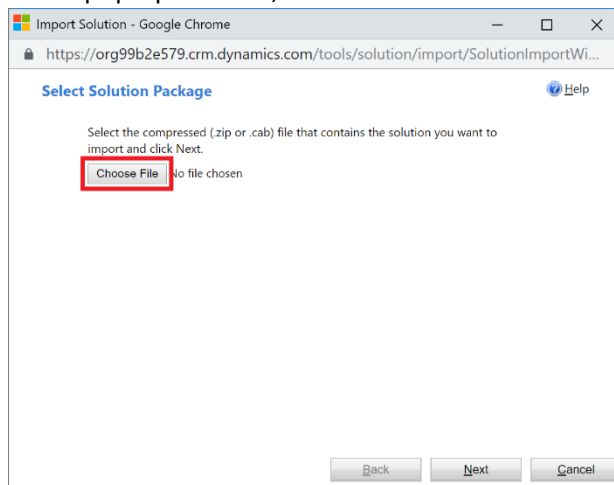
This is the first setup step of the installation process and is required for any other component in the starter kit to work.

Instructions

1. Go to the Environment where the solution will be installed
 - a. Go to <https://make.powerapps.com>
 - b. Navigate to the Environment the CoE solution will be hosted in. In the screenshots example, we're importing to the Environment called 'Contoso CoE'.
2. Select Solutions on the left navigation bar.



3. Select **Import**, and a pop-up window will appear (make sure to disable the pop-up blocker in your browser and try again if nothing happens when clicking the Import button).
4. In the pop-up window, select **Choose File**.



5. Choose the **Power Platform** solution from the file explorer.

Note: If you would like to import the solution and want the ability to modify the configurations of the solution, import the **Unmanaged** version. If you do not need to modify the solution and just want to use it the way it comes, import the **Managed** version.

6. When the solution compressed (.zip) file has been loaded, click **Next**.
7. Review, click **Next**, then click **Import**. (This can take some time.)
8. When the import succeeds, the list of the components that were imported is displayed.

Note: Sometimes Flow components show a warning message and a duplicate record of that component

9. Click **Publish All Customizations**. This is good practice to follow whenever you make changes to a solution, but especially so when importing.

Grant access to end users

The user account who uploaded the solution and the Environment admin of the Environment the solution exists in will have full access to the solution. To share this solution with others, there are some steps needed to configure access.

There are multiple components that must be shared with the end users. The components that must be configured for sharing include:

- a. Environment, Solution, Model Driven App, Custom Entities require Security role assignments to be shared. Security groups can manage assignment of security roles to users.
- b. Canvas Apps require shared permissions on an individual basis or through a Security group

Note: Security groups can be used to share a security role with multiple people in one action.

Share with Security Groups

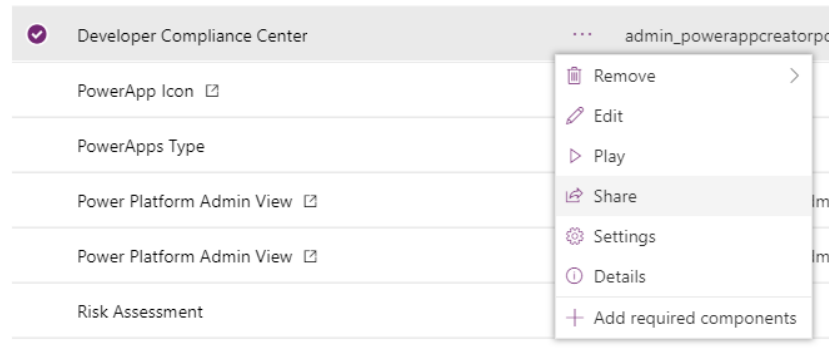
You can share both security roles and canvas apps through security groups. Make sure the following prerequisites are met:

- Security group for end users (e.g., *Power Platform Makers SG*)
- The Power Platform Admin solution is already imported

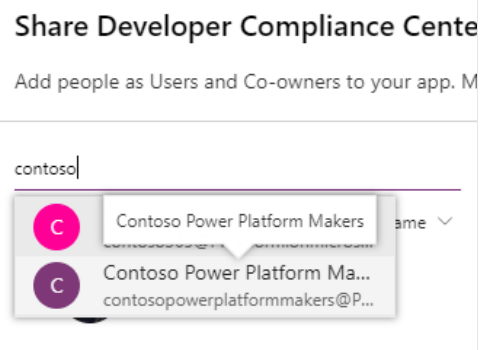
Once the security group is configured:

1. Navigate to the Center of Excellence Solution
 - a. Go to <https://make.powerapps.com> and set the current Environment to the same Environment where the Center of Excellence solution is installed
 - a. Click **Solutions > Center of Excellence**

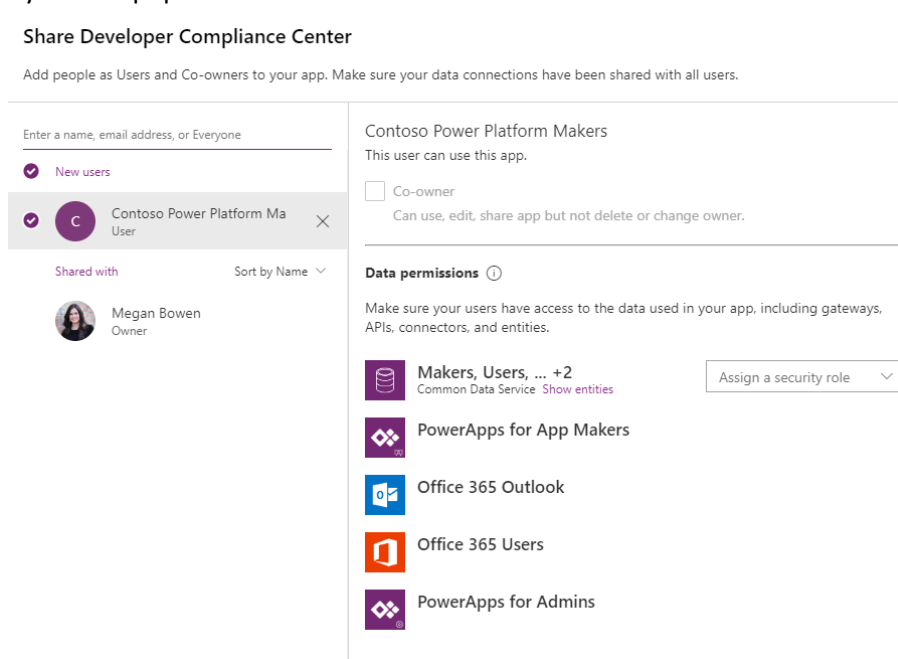
2. Select the ellipse (...) menu of the **Developer Compliance Center** canvas app > **Share**.



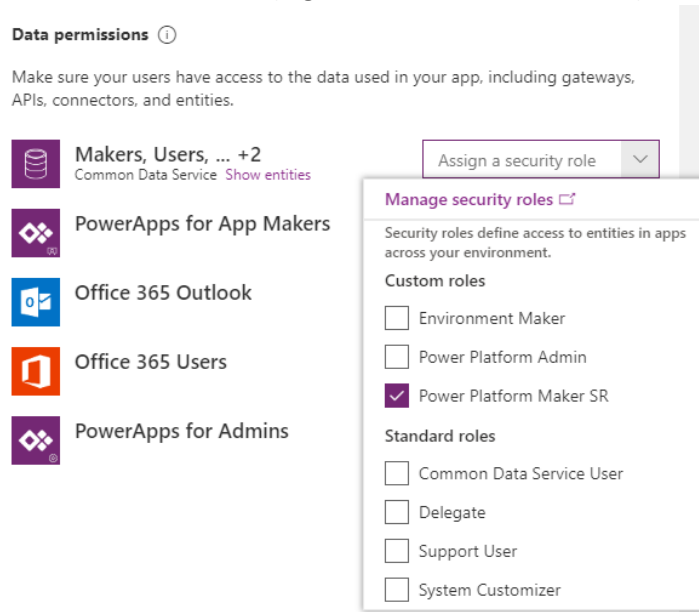
3. In the flyout, search for the security group by name



4. When the security group is selected, the Data permissions section on the lower right side of the flyout will populate with details on the connectors.



5. Next to the Common Data Service connector, click the combo box that says **Assign a security role**
6. Select the desired role (e.g. Power Platform Maker SR)



7. Optionally uncheck the “Send an email invitation to new users”, then click **Share**.

Note: The security roles will be assigned to each user in the security group, and the security group will continue to manage user assignment to the security role (e.g., when a user leaves the SG, they will no longer have the security role assigned to them unless they were individually assigned the role).

8. Repeat these steps for the **App Catalog** canvas app. Create a different SG that contains the entire organization and is assigned to the Power Platform User SR.

Sharing with Individual Users

Follow the steps in the section above, but search for an individual user account instead of the security group. The steps after selecting the user record will be the same.

Sharing with Individual Users (without Canvas)

The solution can be shared on an individual basis if desired, but it’s recommended that you use security groups to share the solution with end users to make access management more maintainable. This section does not share the canvas apps with individual users, in case the canvas app solution is not desired.

1. Navigate to the solution’s Environment security
 - a. Go to <https://admin.powerapps.com>.
 - b. Select the Environment with the Power Platform Admin solution installed.
 - c. Click on the **Security** tab.

NAME	TYPE	REGION	CREATED BY	CREATED
Contoso (default) (default)	Default	United States	SYSTEM	02/28/2019
Contoso (Development) (contoso-dev)	Sandbox	United States	Megan Bowen	03/18/2019
Contoso CoE (org99b2e579)	Production	United States	Megan Bowen	05/02/2019
Playground	Production	Preview (United States)	Megan Bowen	04/15/2019
Preview Testing	Production	Preview (United States)	MOD Administrator	04/22/2019
Test Asia (testasia)	Trial (17 days)	Asia	Megan Bowen	05/20/2019

- Here, you can add individual sync users to the CDS instance's Users table if they are not already available. If you had created a new Environment for this solution, you will likely need to do this to give other accounts access to the solution.

Contoso CoE (org99b2e579)

Details • **Security** • Resources

Security model has changed in PowerApps and is now managed in Dynamics 365 user management center. [Learn More](#)

Step 1: Add user [Preview]
View the [list of users](#) in the environment. If you don't find a user from your organization, add a user. Functionality to add a user is in preview.

Enter email address of the user in your organization (e.g. john@contoso.com)

Step 2: Assign security roles
From the list of enabled users, you can select one or more users and assign security roles as appropriate.

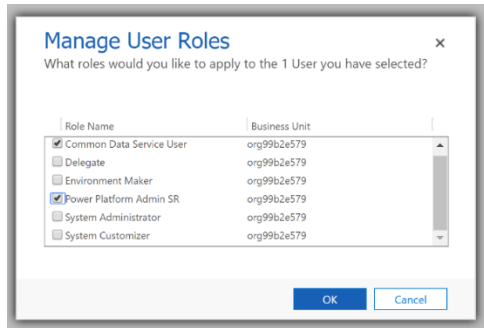
① The Environment Admin role is now called System Administrator. All existing role assignments were updated automatically.

Assign security roles

- Click on **Assign Security Roles** to view the Users table.
- In the Users table, select records by checking the check box to the left of each User's name. You can use the search bar at the top right to filter the table by name or email.

	Full Name ↑	Business Unit	Title	Position	Main Phone
<input checked="" type="checkbox"/>	Ben Walters	org99b2e579	VP Sales		+1 732 555 0...
<input type="checkbox"/>	Megan Bowen	org99b2e579			

- With the Users selected, click on **Manage Roles** at the top.
- Select the checkboxes next to the desired security role. This security role was provided in the solution and only gives read and write access to the custom entities in the solution. Click **OK**.



- At this point, the individuals who you have assigned to the Security Role to will have access to the data in the custom entities and model driven app that comes in the solution.

Note: This process can also be followed with the intention of sharing Power Platform Admin SR access to the CDS entities. This security role will give more control over full CRUD operations on the data and might make more sense to grant on an individual basis than end users.

Sharing with Security groups (without canvas)

Please read [this article](#) to share the solution without sharing the canvas apps.

Step 2: Configure CoE Settings

Components covered

- 'CoE Settings' data

Dependent on

Install the Common Data Service Solution. The entity must be installed before we can write data to it.

Dependencies

- Canvas Apps.** The optional branding details (e.g., logo, brand colors) in all the canvas apps are pulled from this entity. Optional support and community channel links are also used.
- Optional Flows.** The optional branding details and support channel links are used in the Flows used for communication. You also will configure links to the canvas apps in the settings. The main Flow that syncs data to the resource entities do not depend on this setting configuration.

Description

This section explains how to enter data in this entity, which represents the settings for other components in the solution. It should be completed second.

Instructions

- Open the Power Platform Admin View model driven app in Play mode.
- In the left navigation, click on Settings
- In the Settings view screen, click on "+ New" to create a new record
- Provide values for each field.
- Save by clicking CTRL + S or by clicking the Save button in the bottom right corner.

6. Do not add more records to this table, there is no need. The dependent components will always get values from the first record so there only needs to be one record in this table.

Step 3: Install the Flows

Components covered

Flows

Dependent on

- Step 1: Install the CDS Solution
- Step 2: Configure CoE Settings

Dependencies

The 'Sync' Flows are used to write data from the admin connectors into the CDS entities.

Description

This step should be completed after the first two steps above. The Flows with the prefix 'Sync' are required for populating data in the 'resource' related CDS entities (Environments, PowerApps Apps, Flows, Connectors and Makers).

There are multiple ways to import these Flows, and not all the Flows are required. Please read the description of each Flow to understand which ones are required and how to import it.

Required Flow to sync data to the resource entities:

1. **Admin | Sync Template**

Flow type: Scheduled (daily by default)

Description: This is a single Flow that syncs data to all the resource related entities in one Flow. It's part of the solution that was imported in the first step. This is the fastest to install, but it takes longer to execute.

Optional Flows. The other Flows available to import are not required to sync data into the resource entities but are recommended for the example audit process to work.

2. **Flow | Welcome Email**

Flow type: Automated

Description: When a Maker is added to the Makers table, it will add the user to a specified office group and send a welcome email to that user.

3. **Flow | Compliance notification email**

Flow type: Scheduled (weekly by default)

Description: The Flow iterates through the PowerApps apps in the CDS entity and checks for specific thresholds, then emails the app owner how they can stay compliant:

- (a) If an app is shared with >20 users or >0 groups and the user has not submitted business requirements.
- (b) If an app has submitted business requirements but has not been updated or missing a

description.

4. Flow | Sync Audit Logs

Do not install this Audit Log Flow yet. This will be covered in the Audit Logs setup instructions, because it has additional requirements. Also, although this flow is provided in the solution, you will be installing the Flow package outside of the solution.

Instructions

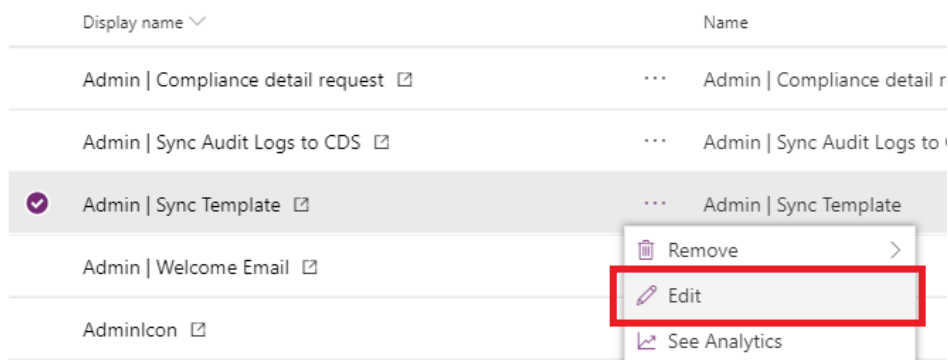
The Flows are all stored in the solution. It is automatically available in the Environment when you import the solution, but there are two options to consider. Option 1 takes longer to configure than option 2 but is also easier to receive updates.

Option 1: Keep Flow in the solution and update each action connection

Use this option if you would like to continue receiving updates to the Flow through this solution. This takes longer to set up because the connections for each action need to be individually configured.

2. Go to the Center of Excellence solution.
 - a. Navigate to <https://make.powerapps.com> and set the current Environment to the same Environment where the Center of Excellence solution is installed
 - b. In the left navigation, click on **Solutions**, then select the **Center of Excellence** solution
3. Click on the ellipse (...) menu next to the Flow you want to enable, then click **Edit**

Solutions > Center of Excellence

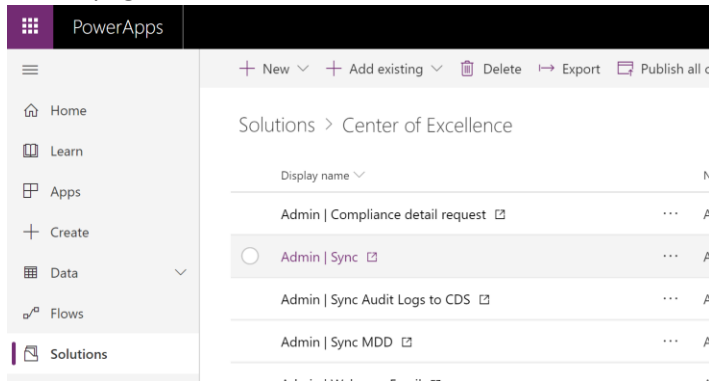


4. The Flow will open in the maker studio. For each action that requires a connection, there will be a warning icon on the right side of the action. This indicates the need for a connection to be selected.
 - a. Some connections will need to be created if there are not available
 - b. Some actions might be hidden within other built in actions, such as a condition or scope. Expand these actions to find the hidden ones so
5. Once all actions have a connection, save the Flow. It should run automatically for the first time if it's a scheduled or manual Flow.

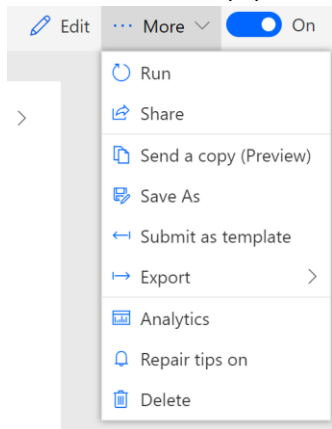
Option 2: Save a copy of the Flow outside of the solution

Save a copy of the Flow from the solution and the connections are created automatically for you. The drawback from this method is that the Flow does not get updated when you update the solution package, but that doesn't make it impossible to update the Flow itself.

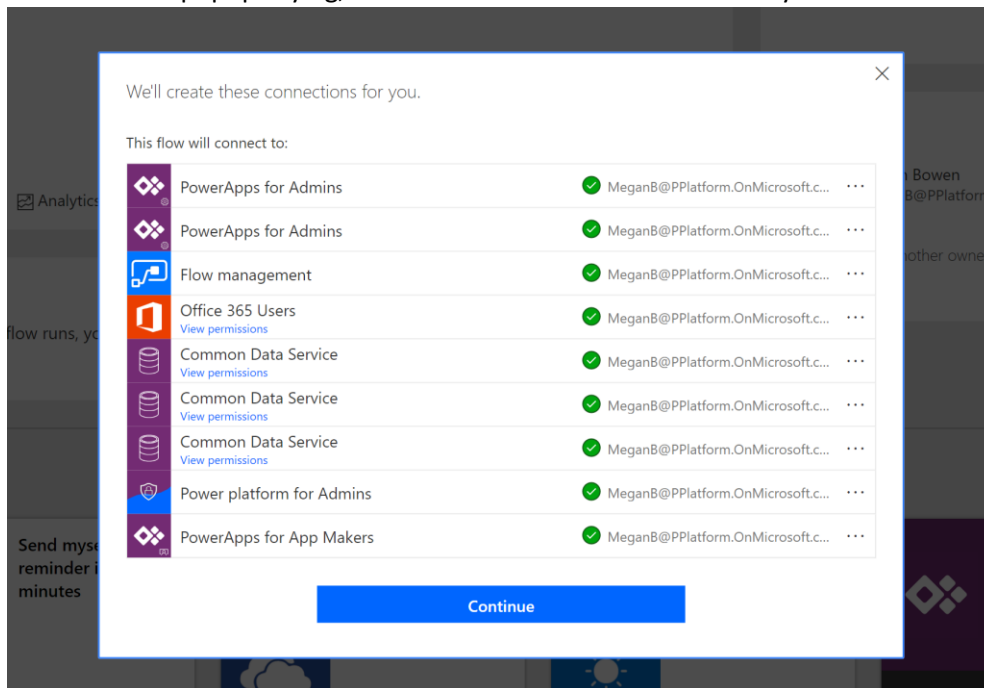
1. Go to the Center of Excellence solution.
 - a. Navigate to <https://make.powerapps.com> and set the current Environment to the same Environment where the Center of Excellence solution is installed
 - b. In the left navigation, click on **Solutions**, then select the **Center of Excellence** solution
2. Click on the display name of the Flow you want to enable. This will open a new tab to the Flow's details page.



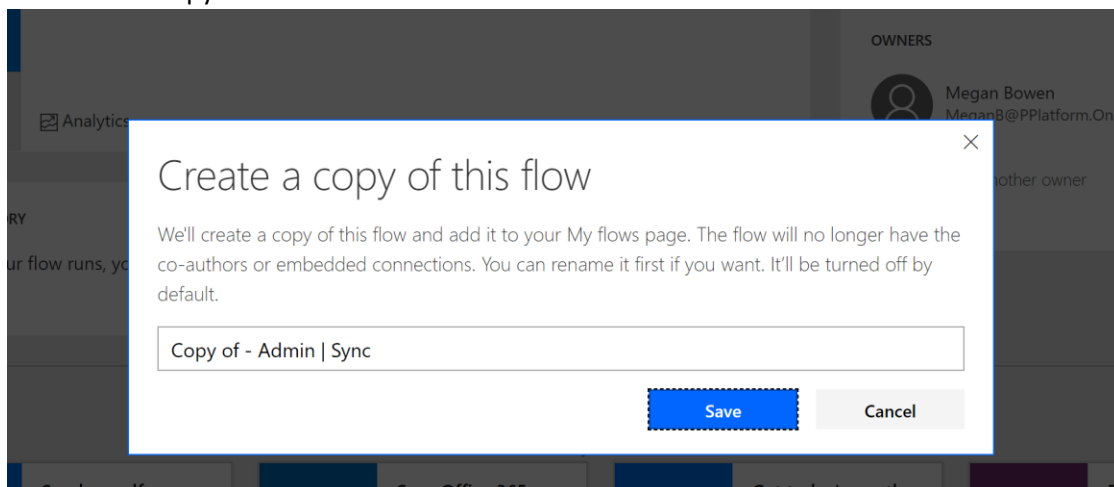
3. Click on the More (...) menu in the top right corner of the screen, select **Save As**



4. A window will popup saying, “We’ll create these connections for you”. Click Continue.



5. Rename the copy if desired. Click **Save**.

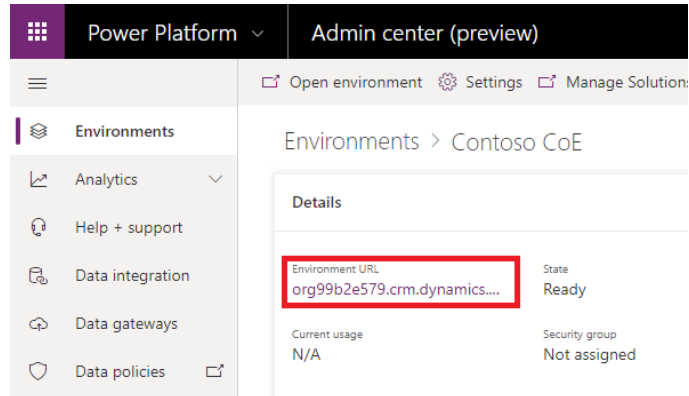


6. At this point, the copy has been created. You can view the Flow in the **Flows** page in the left navigation.
7. (Admin | Sync Template) Turn on the Flow, then manually run it. The time the Flow runs will depend on how many resources there are in your tenant. The Microsoft tenant has around 6,000 Environments, >20K PowerApps and >20K Flows, ~1K Custom Connectors, and ~4K makers, and this Flow took up to 24 hours to complete.

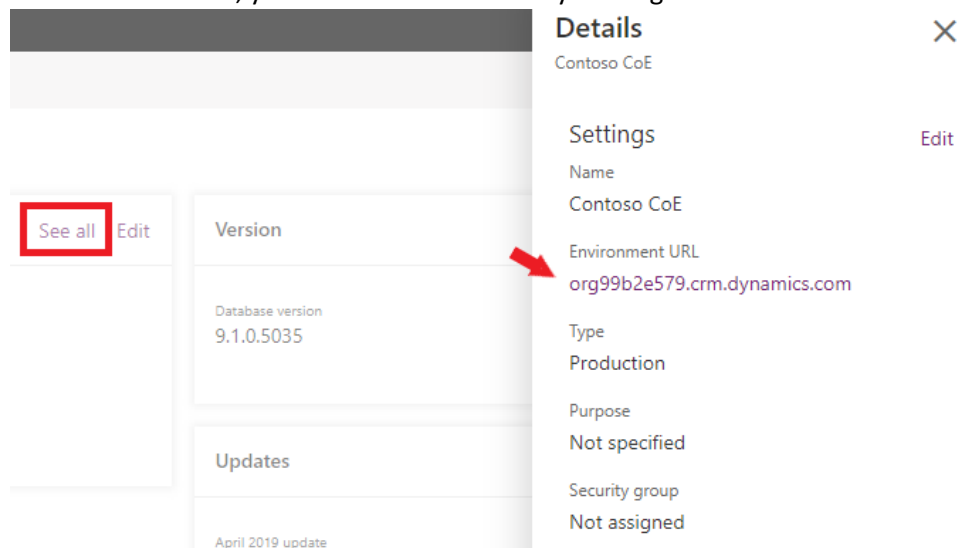
Step 4: Configure the Power BI Dashboard

Instructions

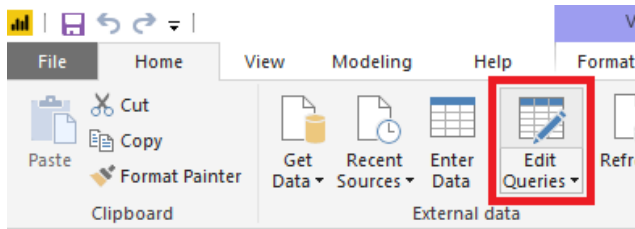
1. Get the organization URL
 - a. Go to the Power Platform Admin Center (<https://aka.ms/ppac>)
 - b. Click on Environments, and select the Environment where the Center of Excellence solution is installed
 - c. Copy the organization URL in the details window.



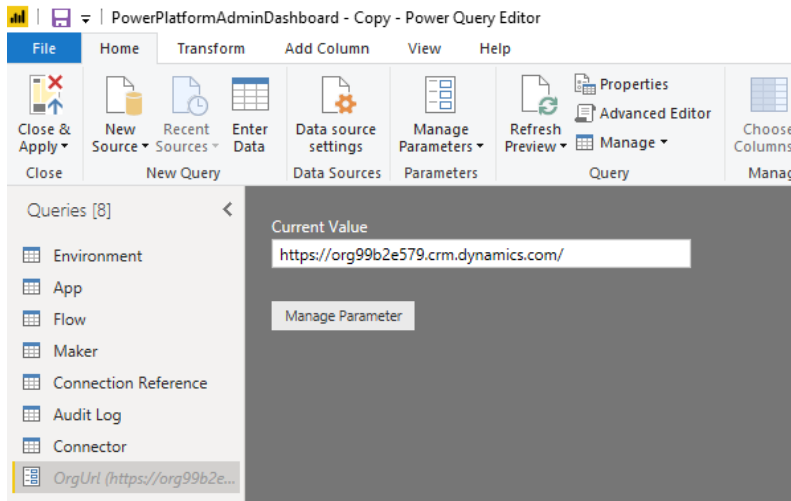
- d. If the URL is cut off, you can see the full URL by clicking See all > Environment URL



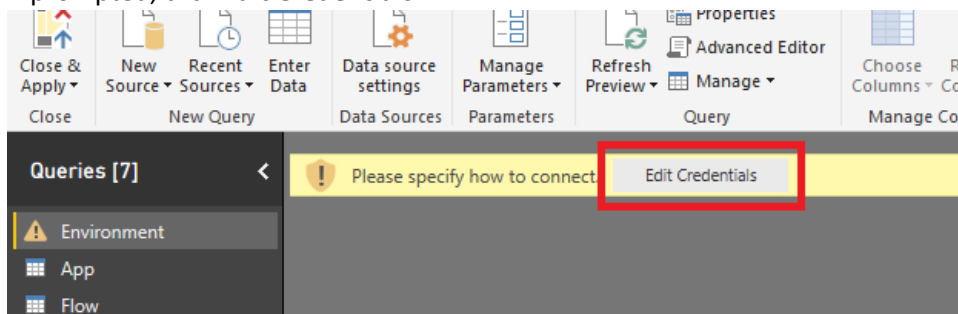
2. Open the **PowerPlatformAdminDashboard.pbix** file, which can be found in the CoE Starter Kit pack you downloaded.
3. Sign-in to your account that has access to the entities.
4. Go to **Edit Query** in the top ribbon (under Home).



5. Select the OrgUrl parameter and replace the URL with your instance's URL. Make sure to keep the 'https://'.



6. If prompted, click **Edit Credentials**



7. Sign-in to your Organizational account. Once signed in, click **Connect**.
8. A preview of the data will load into your table.

Queries [7]	
Environment	
App	
Flow	
Maker	
Connection Reference	
Audit Log	
Connector	

A ^B _C admin_displayname	A ^B _C admin_environmentcdsinstanceurl
1 Test Asia (testasia)	https://testasia.crm5.dynamics.com/
2 Thrive (org3873d23c)	https://org3873d23c.crm.dynamics.com/
3 Contoso (Development) (contosodev)	https://contosodev.crm.dynamics.com/
4 Contoso CoE (org99b2e579)	https://org99b2e579.crm.dynamics.com/
5 Playground	
6 Preview Testing	
7 Contoso (default) (default)	https://default.crm.dynamics.com/

9. Click **Close & Apply**.

Step 5: Setup Audit Log sync

Components covered

- Custom Connector: Office 365 Logs
- Flow: Sync | Audit Logs

Depends on

Step 1: Solution is installed

Dependencies

The Audit Log data is populated with this step. This step is optional, however if you skip it, the usage information will show up as blank in the Power BI dashboard.

Instructions

Make sure the account that is used to configure this section has permission to access the audit logs. Global tenant admins have access to the audit logs by default, but the user account that configures this step is not required to access the audit logs. Tenant admins can grant access to the audit logs for other user accounts or groups through the Exchange Admin Center.

Keep in mind that once a user account has access to the audit logs, they have access to all audit logs across every Microsoft service that reports telemetry to audit logs.

1. Install the custom connector
 - a. Go to <https://flow.microsoft.com> and set the current Environment to the same Environment where the Center of Excellence solution is installed.
 - b. In the left navigation, expand Data and click Custom Connectors
 - c. Follow instructions on importing the provided swagger file (Office-365-AuditLogs.swagger.json): <https://docs.microsoft.com/en-us/connectors/customconnectors/define-openapi-definition#import-the-openapi-definition>
2. Create a connection to the custom connector

- a. In the test tab of the connector designer, click on the button to create a new connection.
 - b. Enter the credentials of the user account with access to the audit logs.
3. Import the Flow Template compressed (.zip) package called SyncAuditLogs.zip.
 - a. Go to <https://flow.microsoft.com> and set the current Environment to the same Environment where the Center of Excellence solution is installed.
 - b. In the left navigation, navigate to the Flows tab
 - c. Click Import in the top
 - d. Select the SyncAuditLogs.zip package, click import
 - e. Connect the connections
 - f. Once the connections are configured, click Import
 - g. Open the Flow and make sure there are no errors for any of the actions.
 - h. Click the back arrow in the upper left to go back to the Flow details screen. Turn on the Flow and run it to start syncing audit log data to the CDS entity.

Feedback and Support

Questions, comments, concerns, or interest in contributing? Please post your feedback in the [Administering PowerApps](#) community forum, and tag the title with “[CoE Starter Kit]”.