# Module 2: Reporting and Telemetry

# Lab Scenario

In this Hands-on Lab, you are an administrator helping adopt the Power Platform.

An important part of keeping the Power Platform running successfully is monitoring the ongoing usage. In this hands-on lab you will be using the platform tools and the COE Starter Kit to perform usage monitoring.

# Lab Requirements

## Lab Test Environment

This hands-on lab is designed to be completed in an environment setup for multiple students to complete the Admin in a day series of hands on labs.

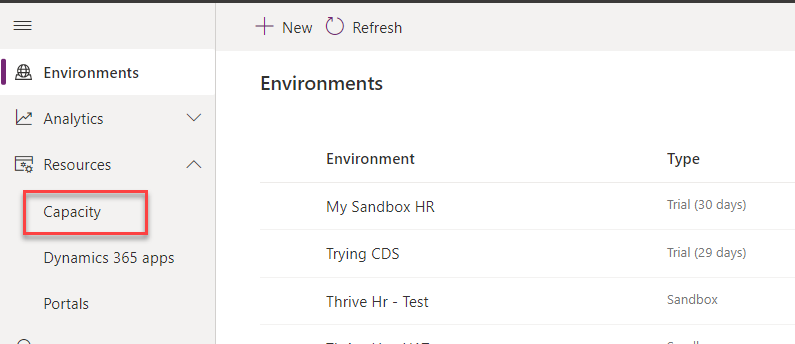
You need to use the assigned user and environment information to complete this lab. You must have completed the prior labs to successfully complete this lab.

# Exercise 1: Explore the out of the box analytics

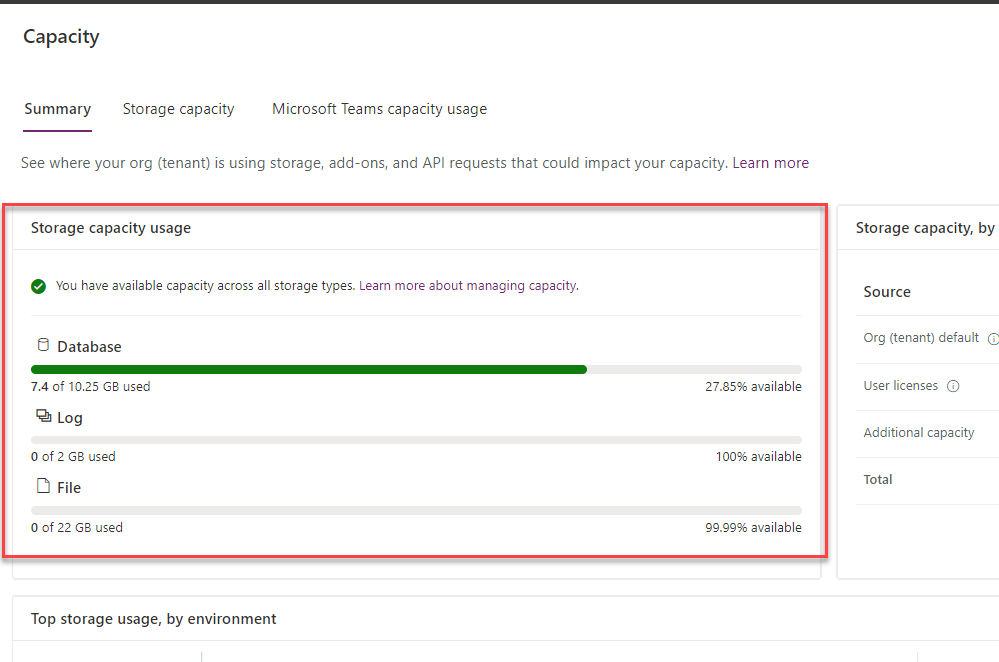
Now in this exercise, you will explore the out of the box analytics that are available from the Power Platform admin center.

### Task 1: Explore the Power Platform Admin View app

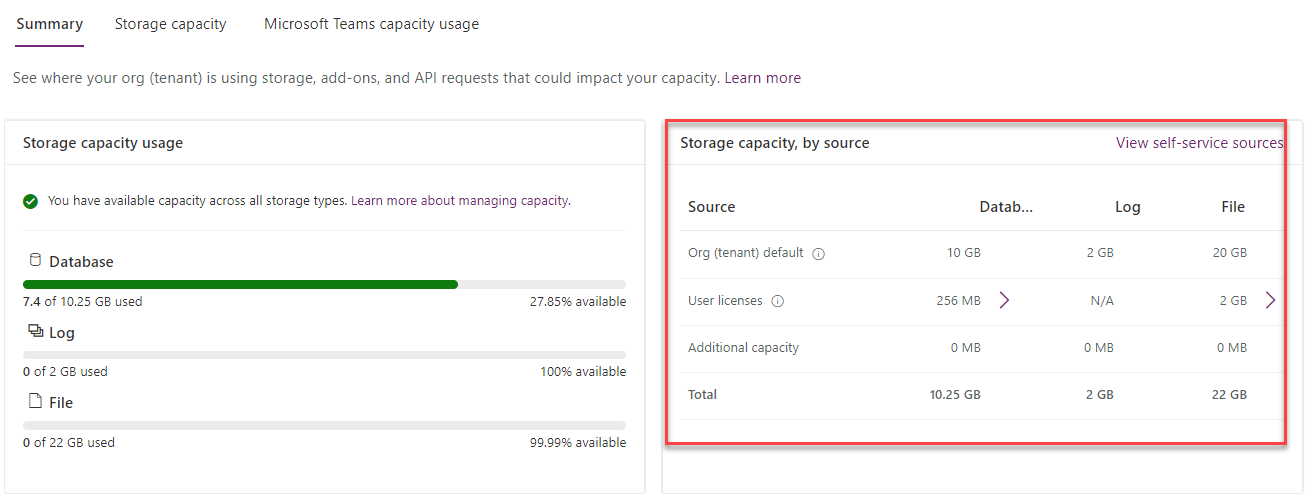
1. Navigate to [**Power Platform admin center**](http://aka.ms/ppac)
2. Expand **Resources** and select **Capacity**.



1. Notice the **Storage capacity usage**.



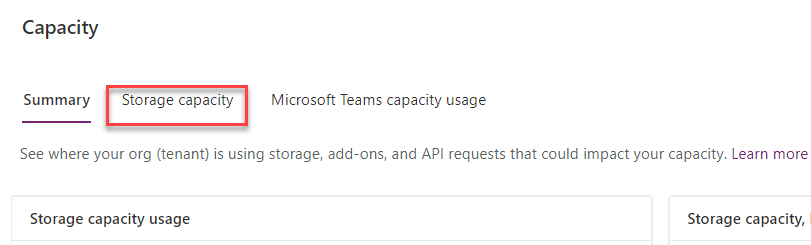
1. Notice the **Storage capacity by source**.



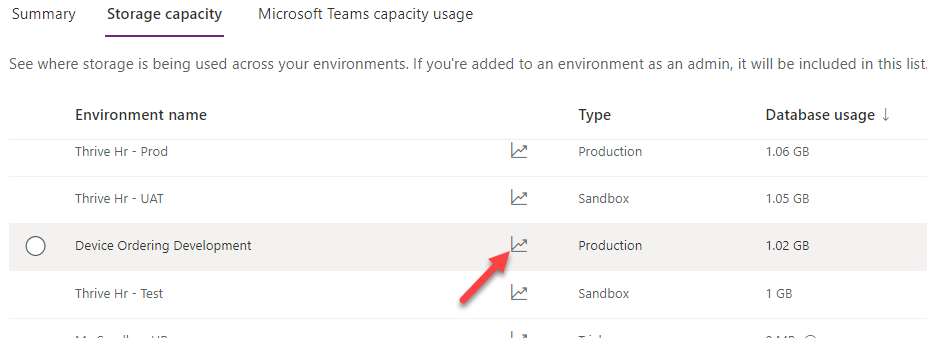
1. Go to the **Top storage usage by environment** section and notice the capacity usage by top environments



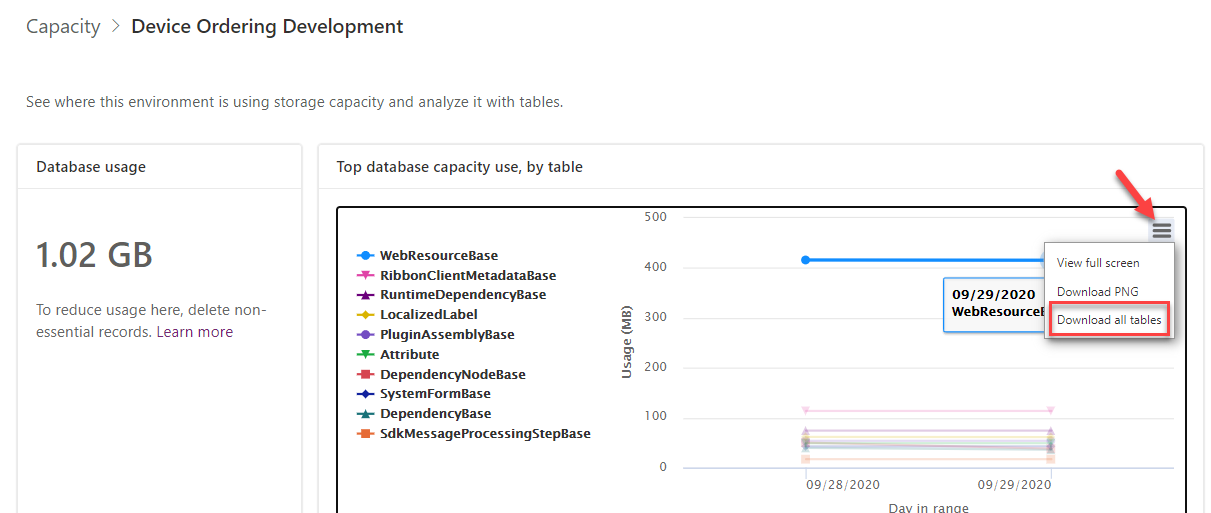
1. Click to select the **Storage capacity** tab.



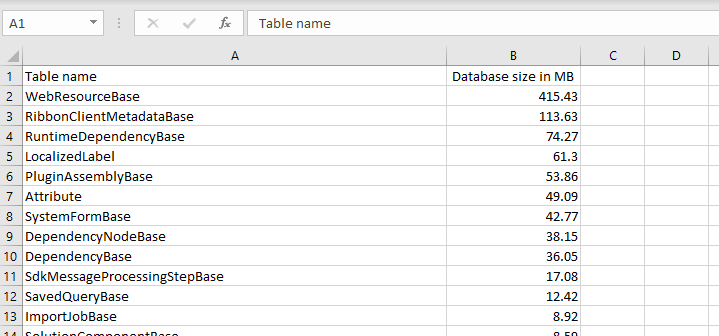
1. Locate the **Device Ordering Development** environment storage capacity and click **Details**.



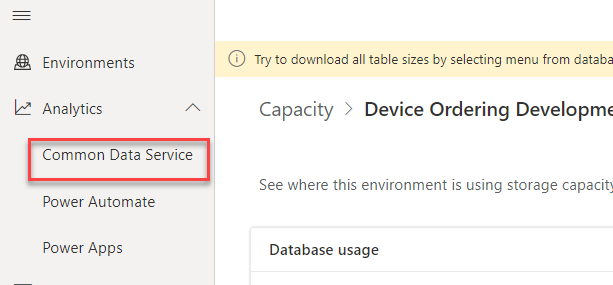
1. Click on the **Chart menu** button and select **Download all tables**.



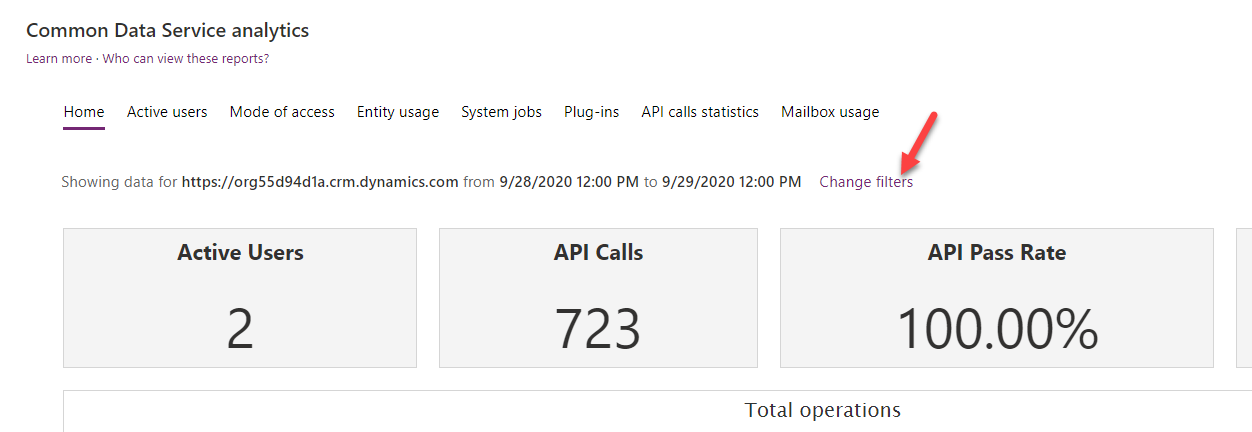
1. Click Open file. You should see list of all tables and their database size in MB.



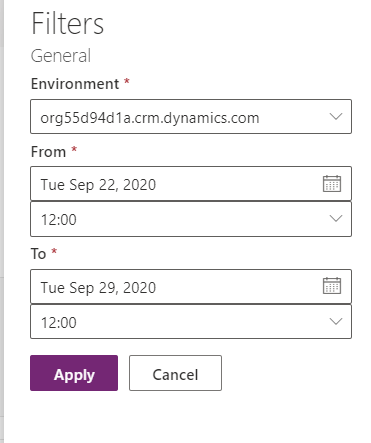
1. Close the Excel file.
2. Expand **Analytics** and select **Common Data Service**.



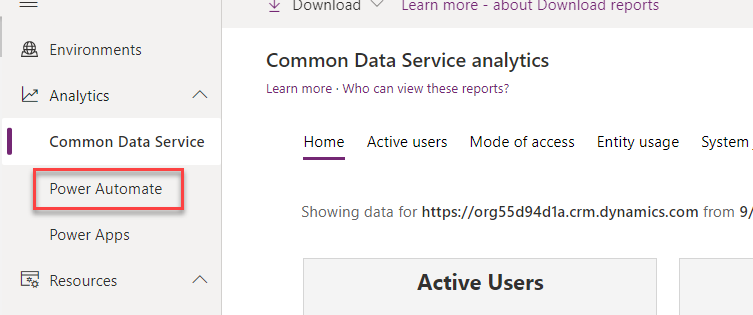
1. Review the visuals.
2. Click **Change filters**.



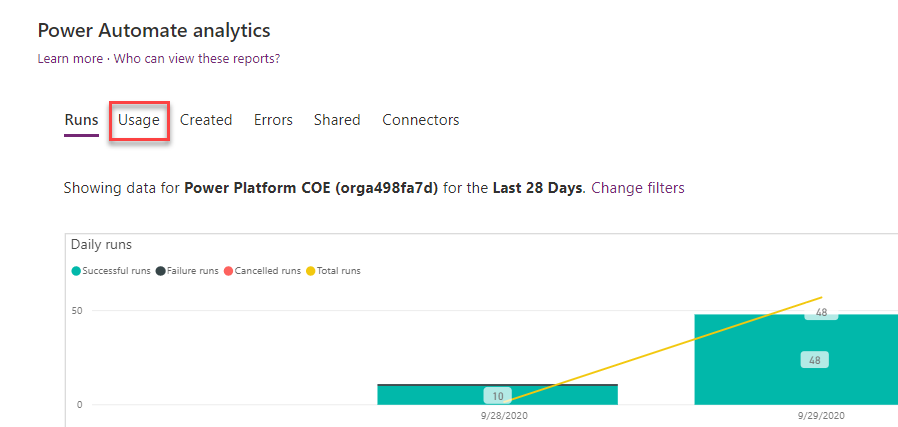
1. Change the date range to between one-week ago and today, and then click **Apply**.



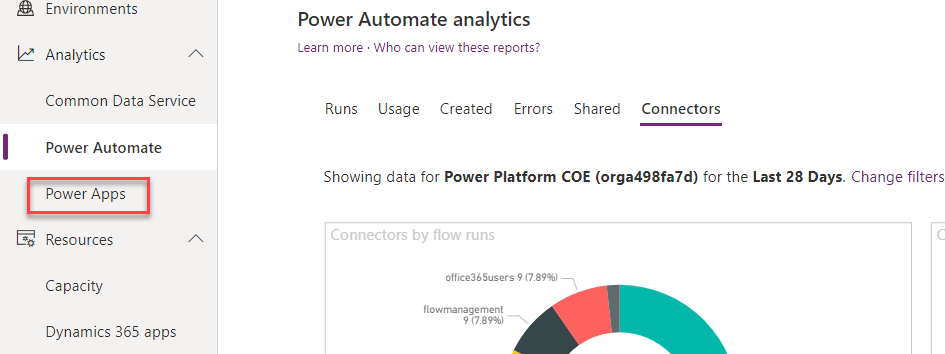
1. The visuals should change to reflect your changes.
2. Select **Power Automate**. Select change filters and change to the Power Platform COE environment.



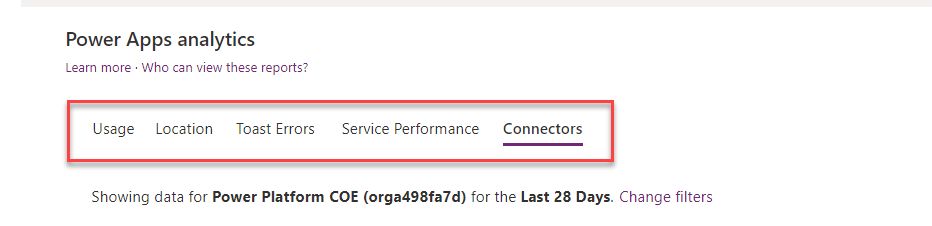
1. Review the visuals in the **Runs** tab and then select the **Usage** tab.



1. Review the visuals in the **Usage** tab.
2. Review the visuals in the rest of the tabs.
3. Select **Power Apps**.



1. Review the visuals in all tabs.

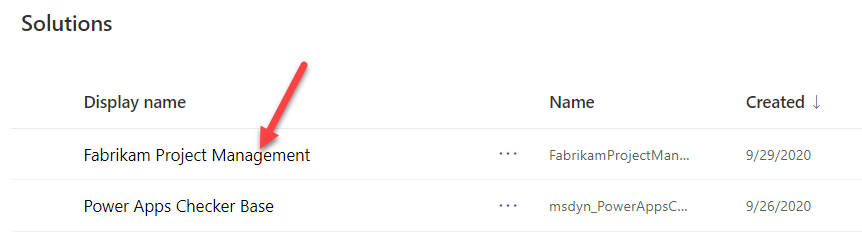


# Exercise 2: Configure CDS logging for an entity

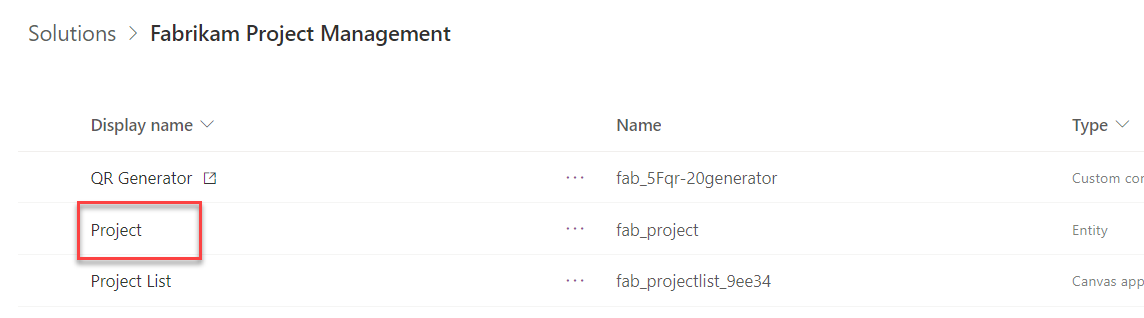
In this exercise, you will configure Common Data Service logging for an entity that requires auditing.

### Task 1: Review audit logging in the environment

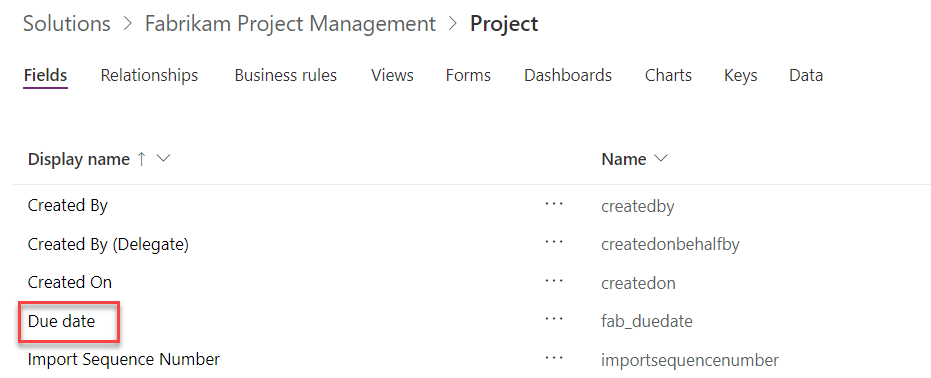
1. Navigate to the [**Power Apps maker portal**](https://make.powerapps.com/) and select the **My Sandbox** environment.
2. Select Solutions and click to open the **Fabrikam Project Management** solution.



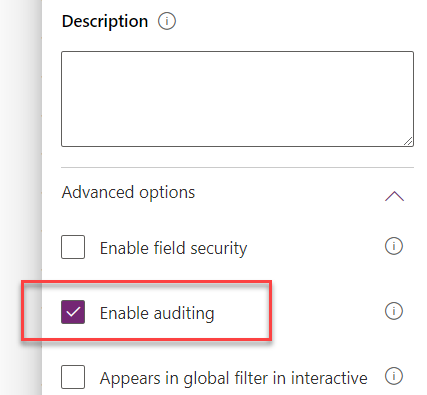
1. Click to open the Project entity.



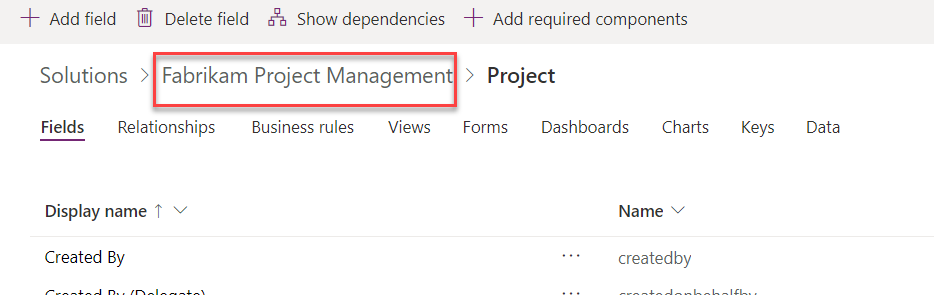
1. Locate and click to open the **Due Date** field.



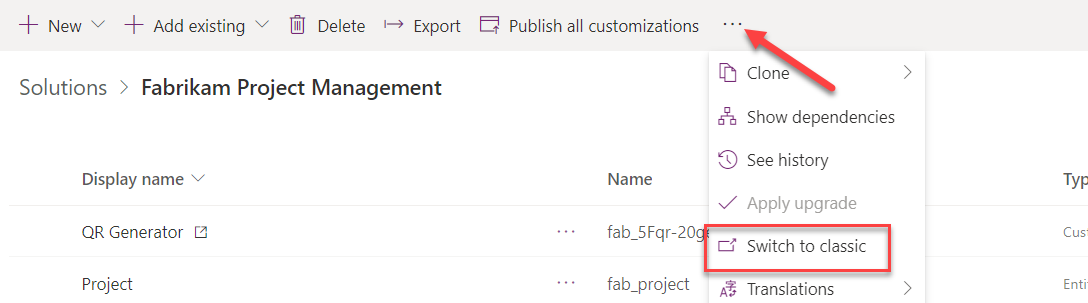
1. Expand the Advanced options section. **Auditing** is enabled for this field.



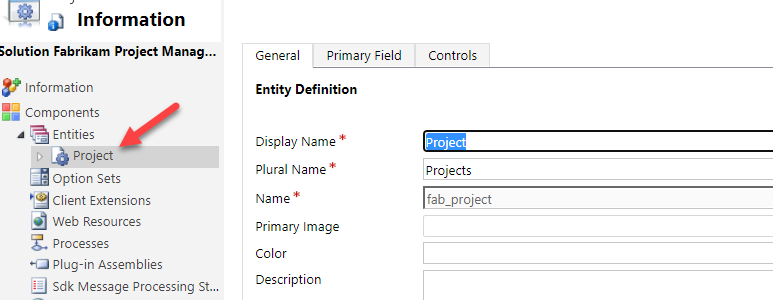
1. Click **Cancel** to close the field details pane.
2. Go back to the solution by clicking on the name of the solution.



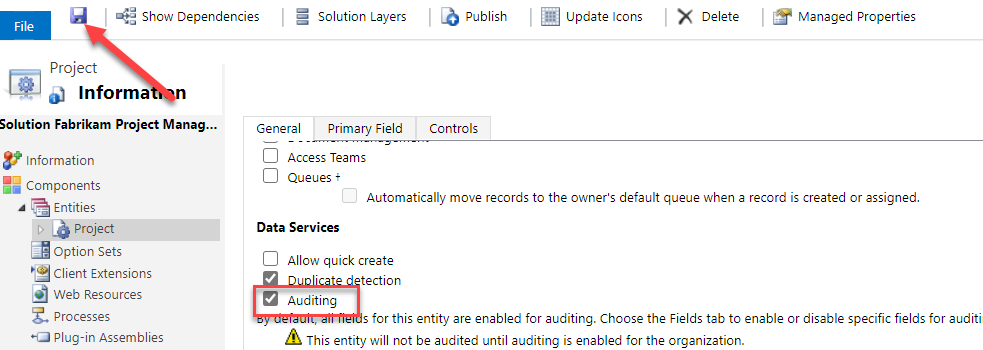
1. Click on the **…** button and select **Switch to classic**. You are switching to classic to be able to enable auditing on the entity and fields. In the future this action will be available without switching.



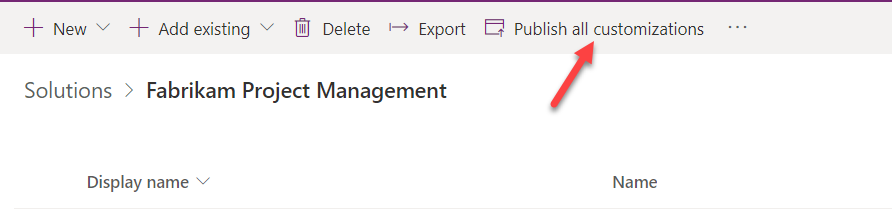
1. Expand **Entities** and select the **Project** entity.



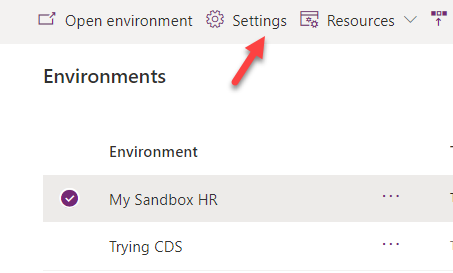
1. Scroll down to the **Data** **Services** section, enable **Auditing** for the entity and click **Save**.



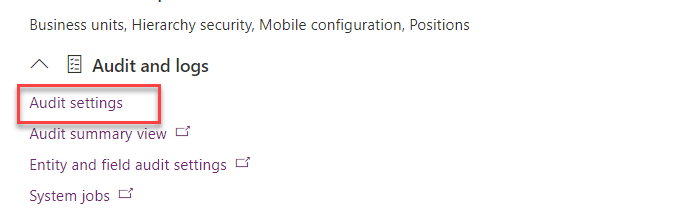
1. Close the Classic solution explorer.
2. Click **Publish all customizations** and wait for the publishing to complete.



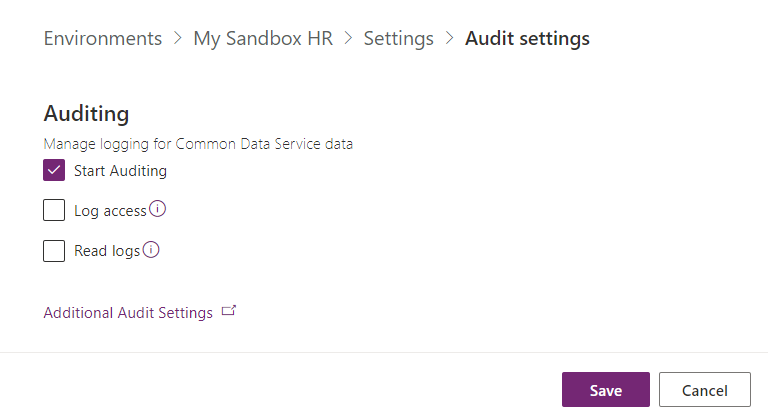
1. Navigate to [**Power Platform admin center**](http://aka.ms/ppac)and select **Environments**.
2. Select the **My Sandbox** environment and click **Settings**.



1. Expand **Audit and logs** section and click **Audit settings**.

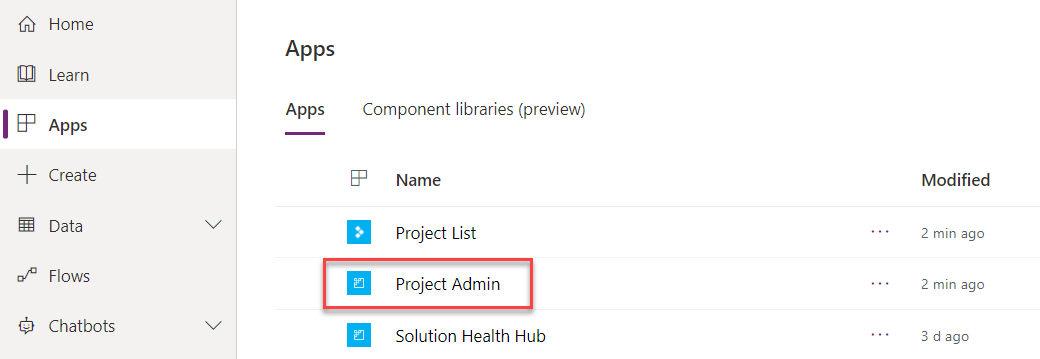


1. Check the **Start auditing** checkbox and click **Save**.

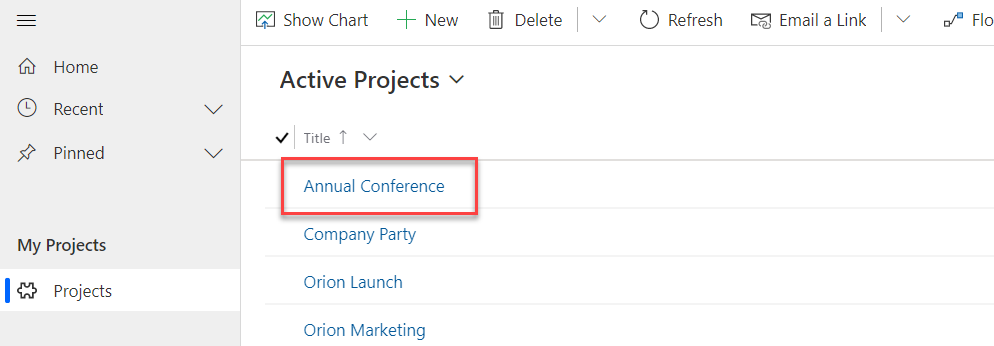


### Task 2: Test auditing

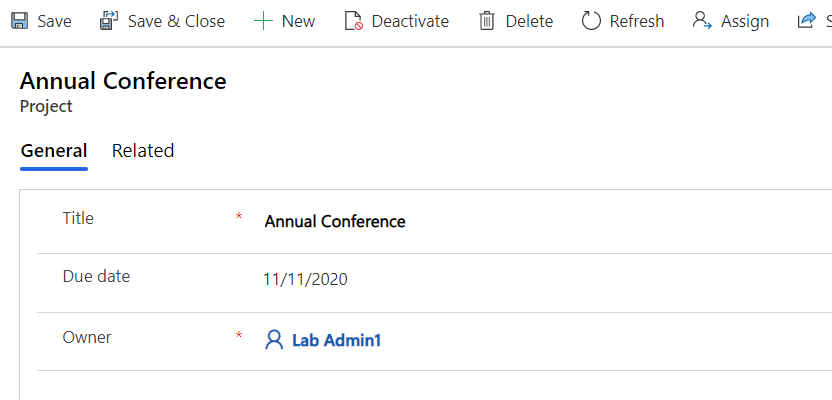
1. Navigate to the [**Power Apps maker portal**](https://make.powerapps.com/) and select the **My Sandbox** environment.
2. Select **Apps** and click to launch the **Project Admin** application.



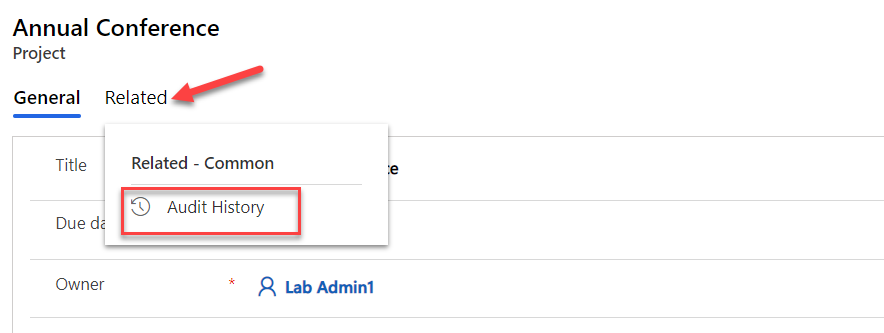
1. Click to open the **Annual Conference** project.



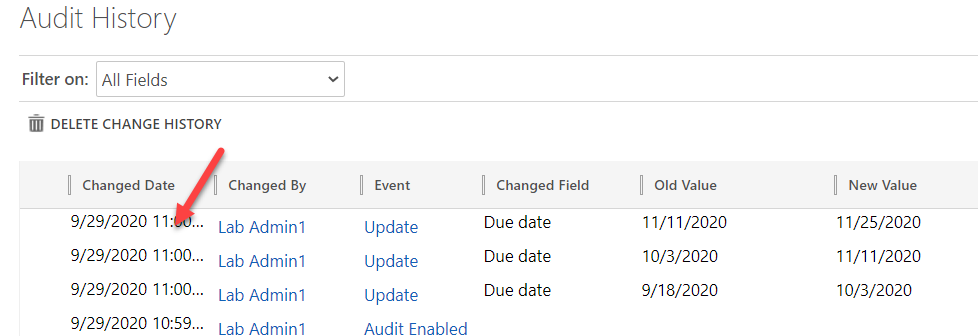
1. Change the **Due Date** and click **Save**.



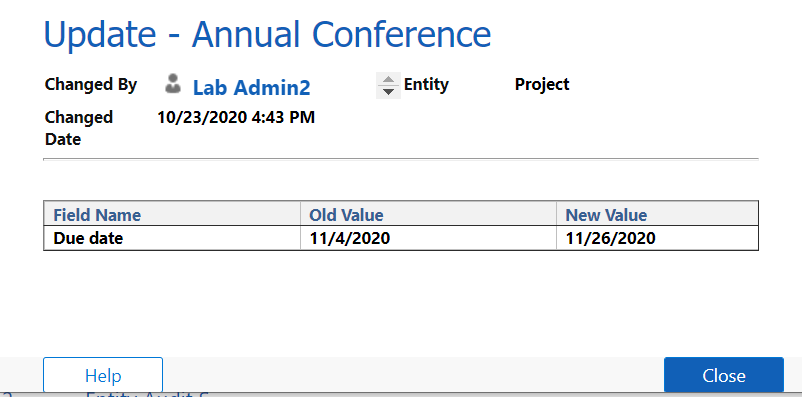
1. Change the **Due Date** and save couple more times.
2. Click **Related** and select **Audit History**.



1. You should see the change history for each of your changes. Click to open one the change history records.



1. You should see the **Filed Name**, **Old Value** and **New Value**.



1. Close the change history record.

# Exercise 3: Setup the CoE Starter Kit Power BI Dashboard

## Scenario

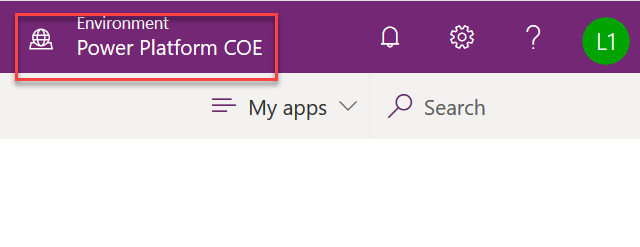
In this exercise, you will explore some of the apps and analytics that are part of the Power Platform CoE Starter Kit. We have already installed and configured the starter kit into the tenant you are using for this lab. As part of configuring we imported the solution, shared the apps, configured the flows that synchronize data and published the Power BI report. If you were doing this in your own tenant, you would follow the instructions to complete these steps.

Now in this exercise, you will explore the following key components

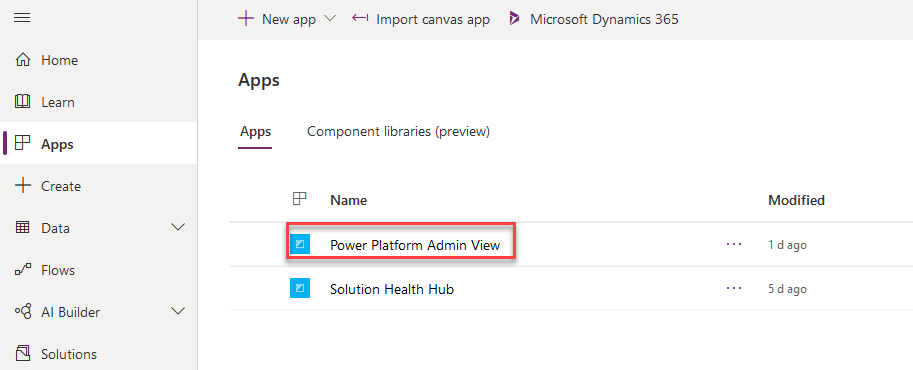
* Power Platform Admin View app
* Power BI Dashboard
* The business process that is used by the Developer Compliance process

### Task 1: Explore the Power Platform Admin View app

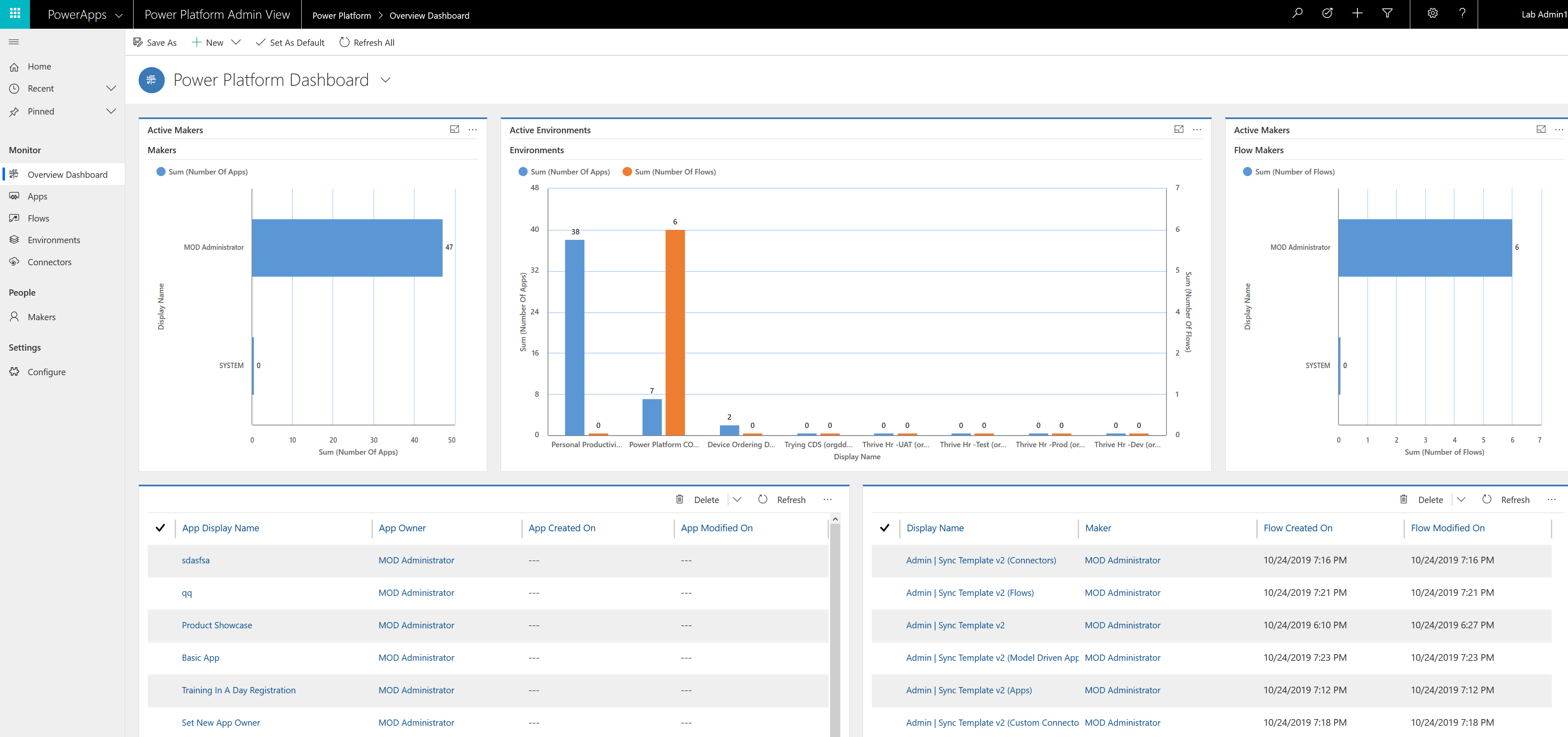
1. Navigate to [**Power Apps maker portal**](https://make.powerapps.com/)
2. Select **Power Platform CoE** environment in the environment selector.



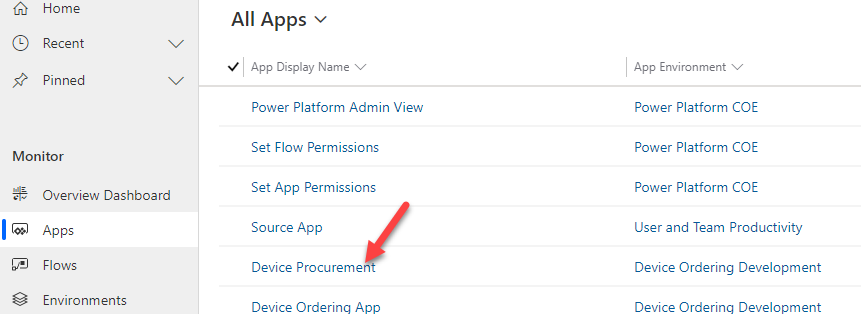
1. Select Apps in the left navigation and you should see a list of available apps in this environment – click on **Power Platform Admin View.**



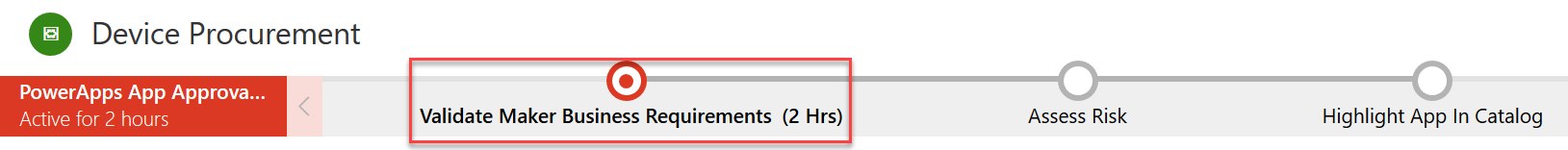
1. When the app starts you will land on the Power Platform Dashboard page. This dashboard gives you a quick look at the most active makers, and environments.



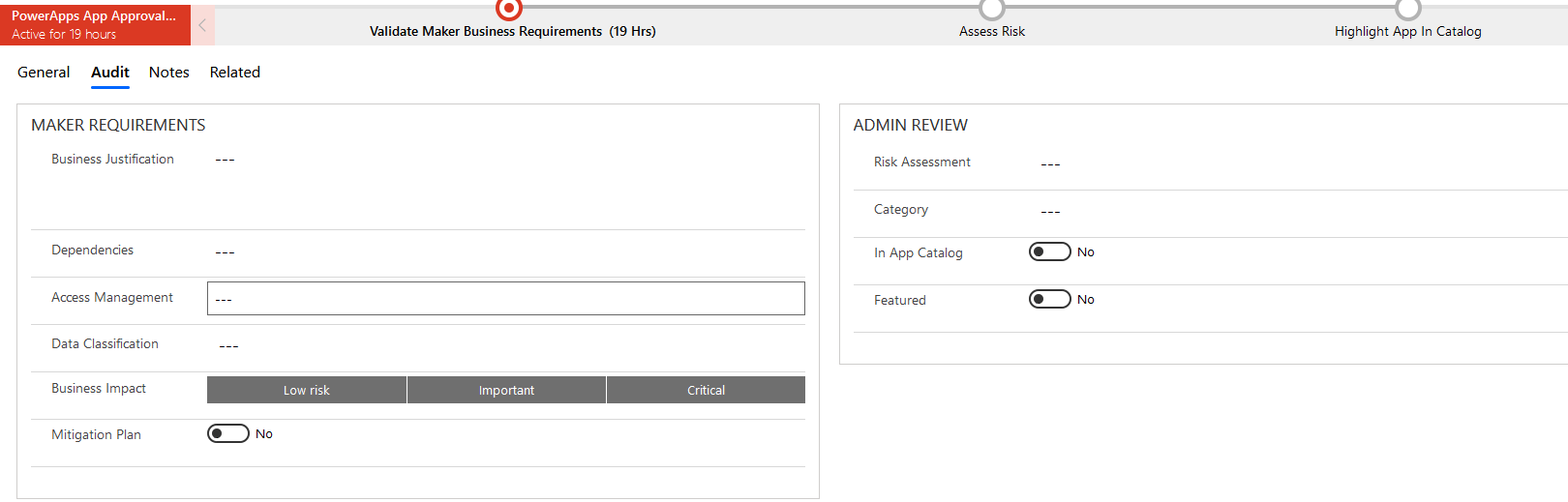
1. Click on **Apps** and you will see a list of all apps in all environments without having to visit each environment. The Flows navigation link does the same thing for Microsoft Power Automate flows
2. Click on the Device Procurement app in the list to open the app details.



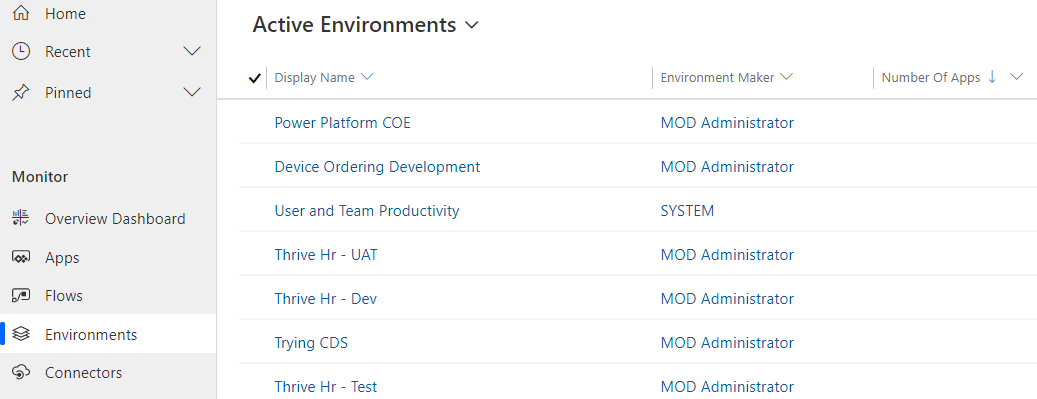
1. On the details notice at the top you can see where the app is in the review process.



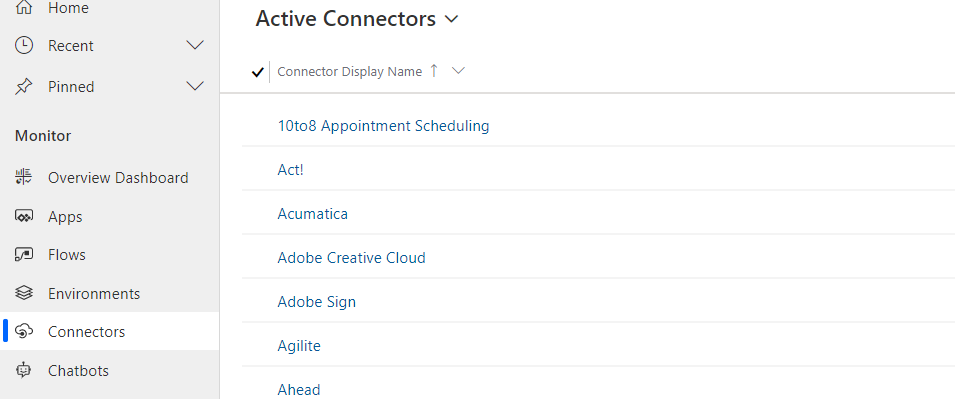
1. In the **Audit** tab you can see the Business Justification provided by the app maker using the Developer Compliance Center app. In the bottom part is where you as an admin can provide your risk assessment. You can also tag the app to show in the App Catalog and make it featured. You can customize the CoE entities to add additional fields here if needed.



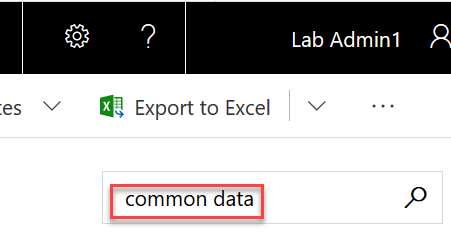
1. Click on **Environments** in the left navigation. This will show you a list of all the environments in your tenant and key metrics like number of apps.



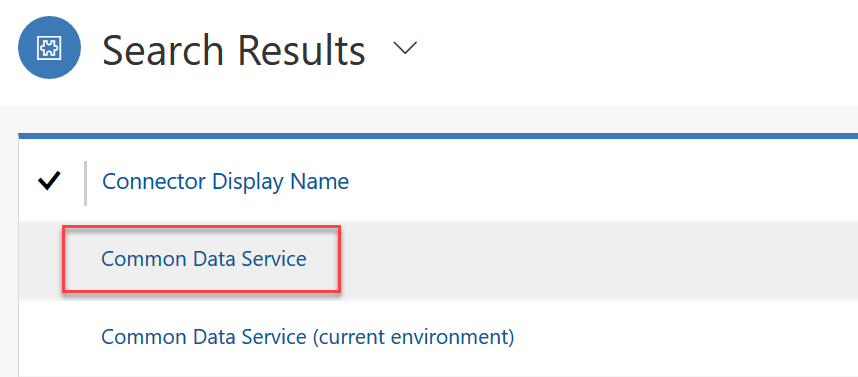
1. Click on the **User and Team Productivity** environment to open the detail form.
2. Review the data available.
3. Click on the **Connectors** link in the left navigation. This shows all the connectors available.



1. In the upper right corner search on Common Data



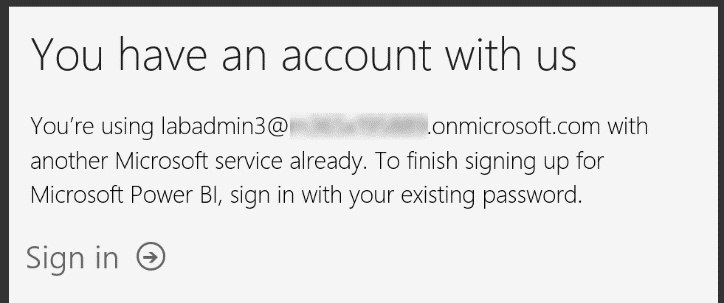
1. In the search results, click on the **Common Data Service** connector



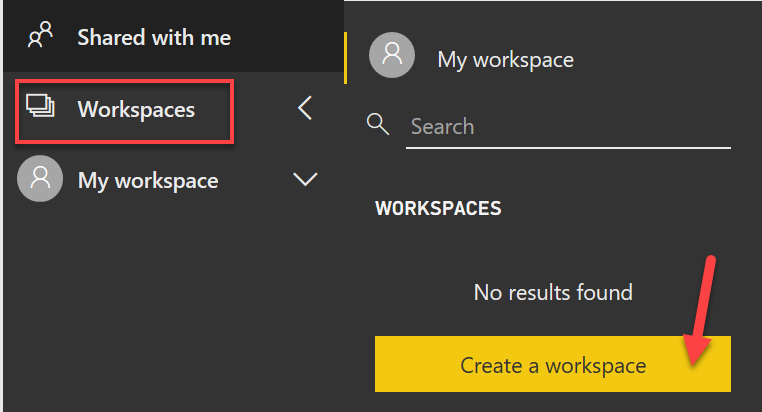
1. The detail page quickly shows you what apps are using this connector in all environments in your tenant.
2. Click on the **Makers** link in the left navigation, this shows you all the people that have built apps in your company
3. Click on one of the Makers and explore the detail form.

### Task 2: Power BI Dashboard

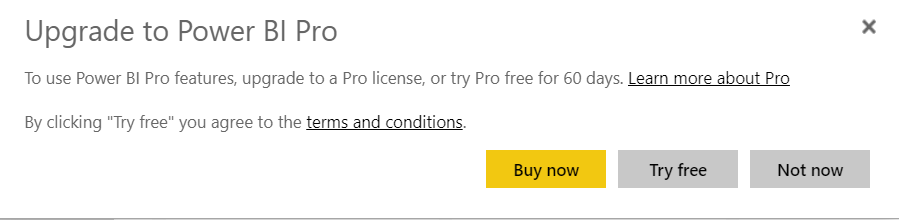
1. Navigate in your browser to Power BI [Power BI](https://www.powerbi.com/) and **Sign in** with your lab credentials.
2. When you see the You have an account with us, click Sign In again and then click Start.



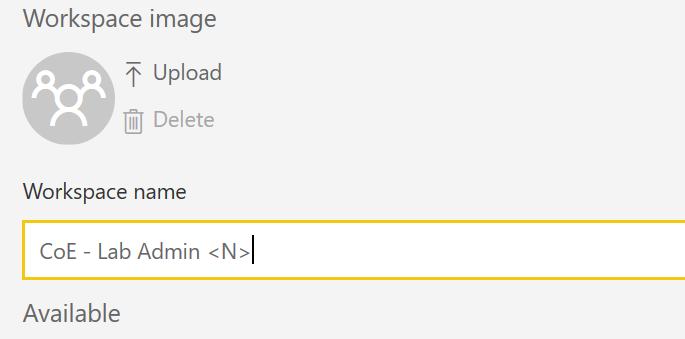
1. Click **Start**.
2. When prompted to Invite more people, click **Skip**.
3. On the left side navigation click Workspaces and then Create a workspace. We are going to use this workspace to publish our report to from Power BI Desktop. This would allow you to view it from PowerBI.com, the mobile app, or even embed it in other places like Microsoft Teams. The workspace can also be shared with others so they can see the analytics.



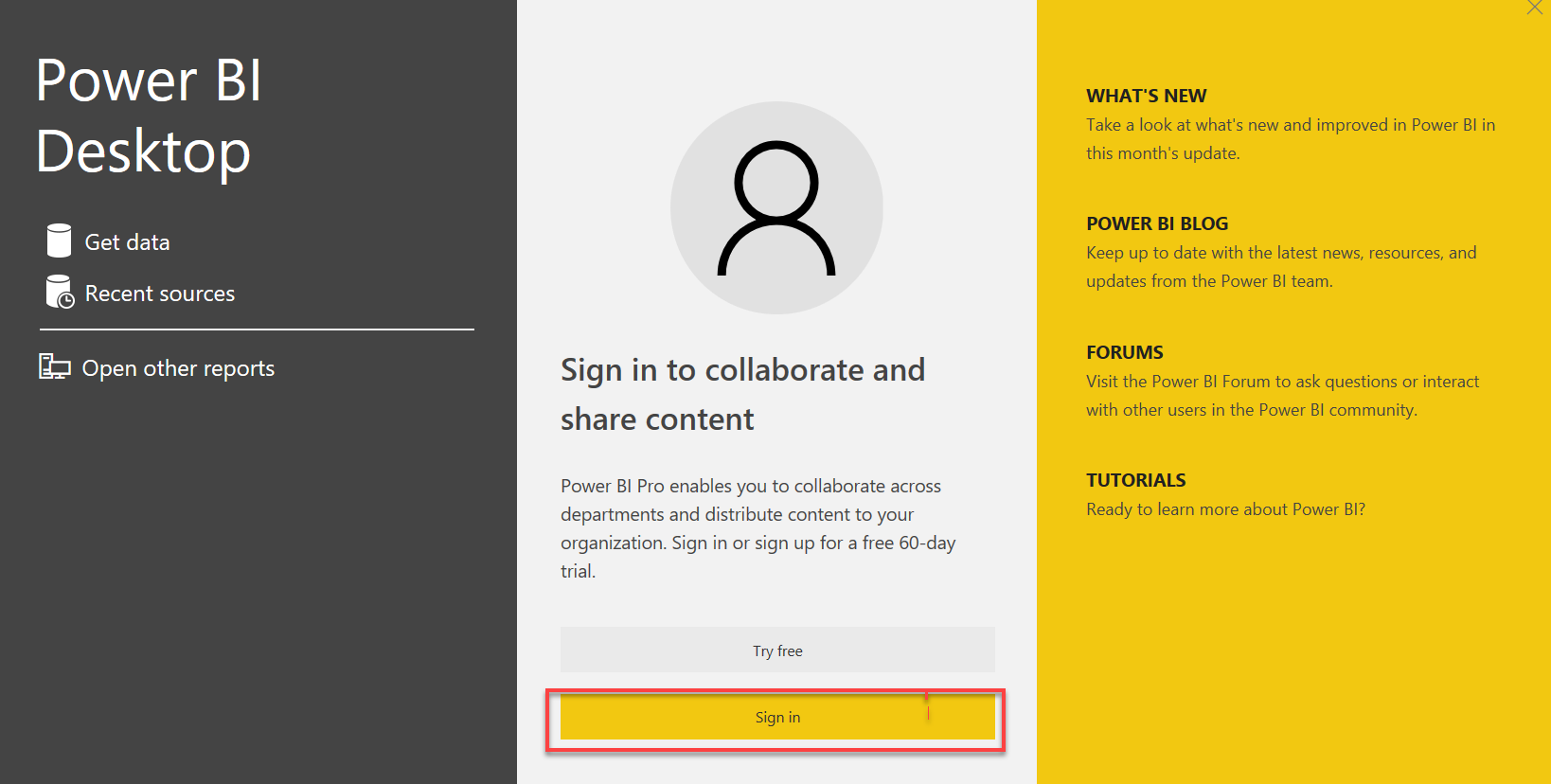
1. When prompted click **Try free**.



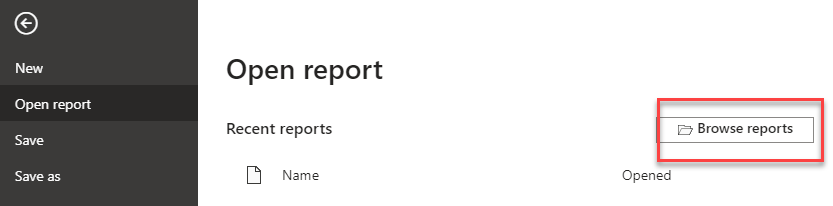
1. After the trial is started, you will have to re-navigate to Workspaces and then Create a workspace.
2. On the Create panel, provide a unique name like CoE and your lab admin user number.



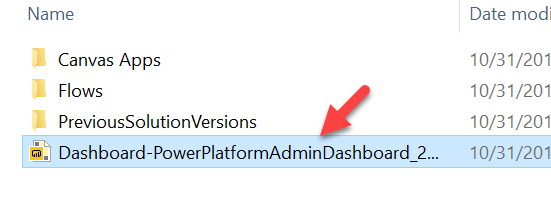
1. Launch Power BI Desktop on your local computer, if you don’t have it installed you can install it from here [Download Power BI](https://powerbi.microsoft.com/en-us/desktop/)
2. Click Sign-in and provide your lab admin account credentials.



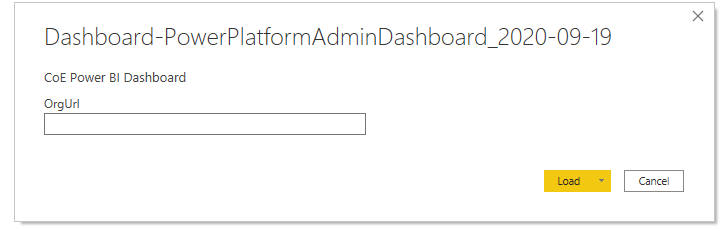
1. Once signed in, click **File**, **open report**, and select **Browse Reports**.



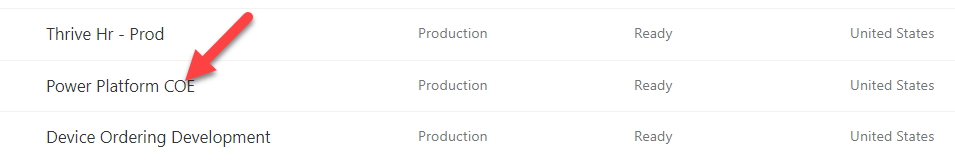
1. Locate the folder containing lab files you downloaded
2. Change to file type filter to PowerBI template files. Select the Dashboard-PowerPlatformAdminDashboard file.



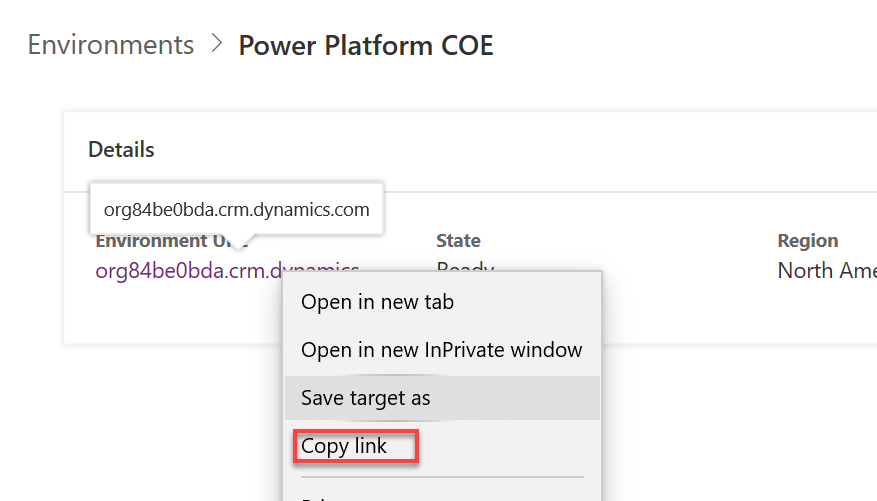
1. You will be asked to provide your org URL. Let’s go find it.



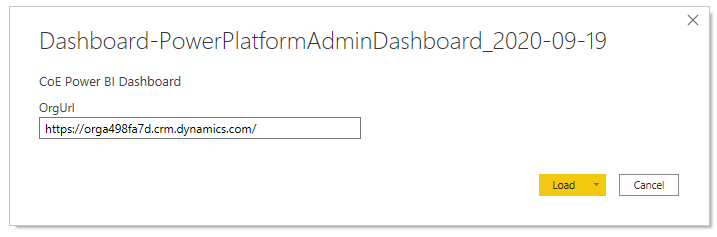
1. Navigate to Power Platform Admin Center [Power Platform Admin Center](https://aka.ms/ppac) and select **Environments**.
2. Locate the **Power Platform COE** environment and click on the name to show the details page.



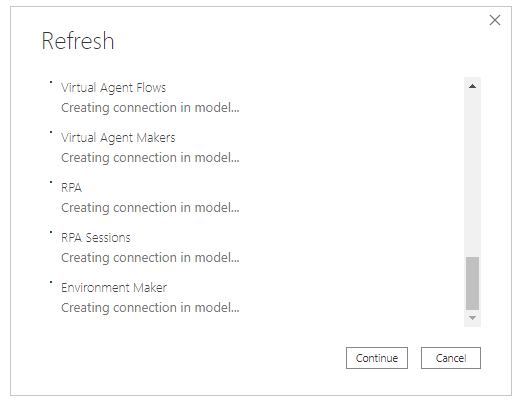
1. Right click on the **Environment URL** and select **Copy link**.



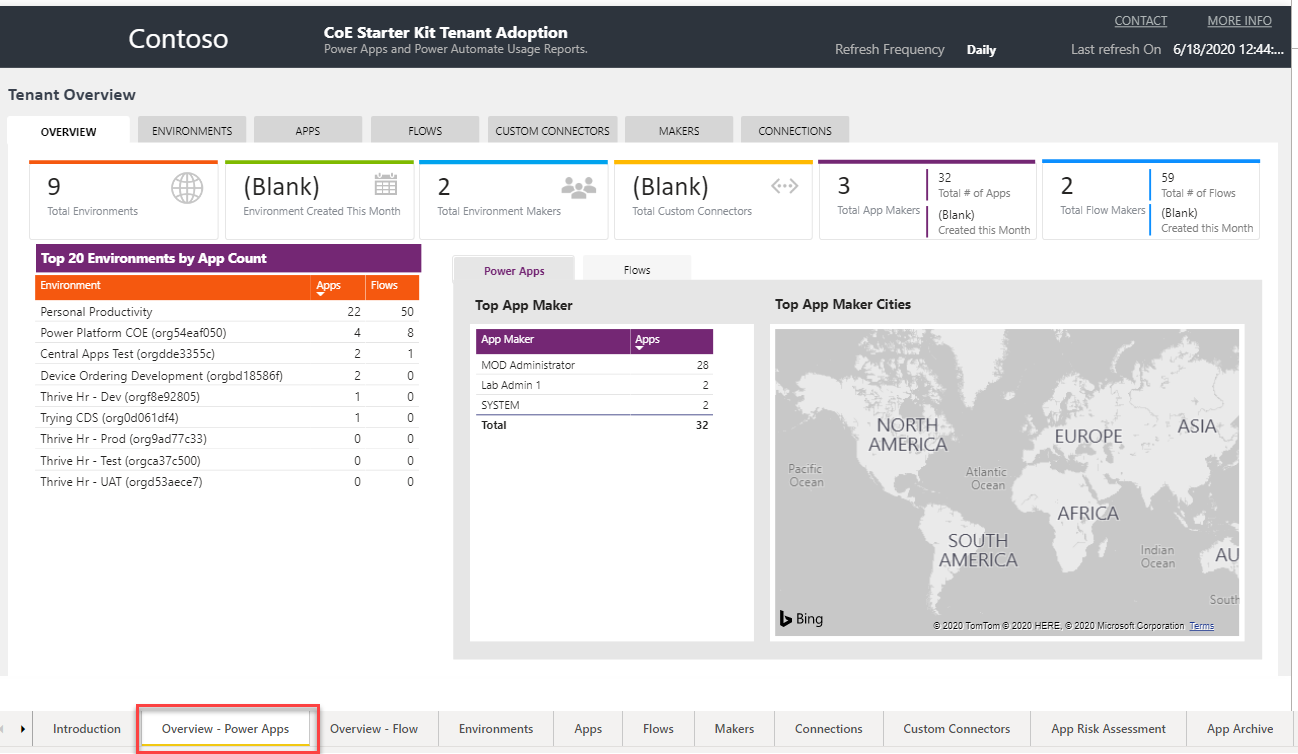
1. Back in Power BI Desktop, paste the **OrgURL** and click **Load**.



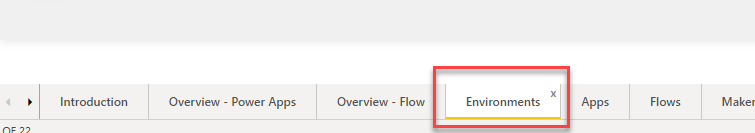
1. Click **continue**. Follow prompts for credentials if they are presented.



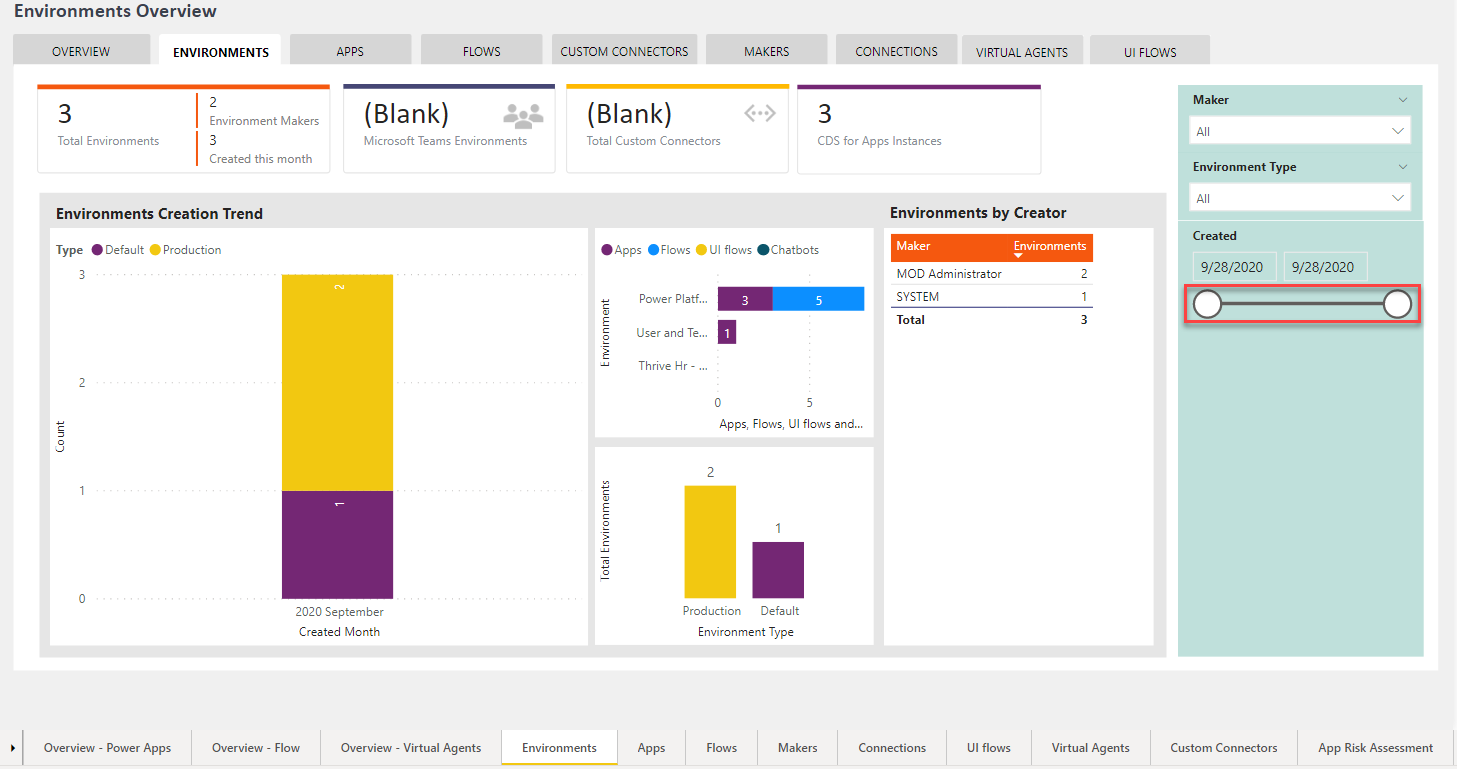
1. The report should load.
2. Review this overview page, notice it gives a good high-level look at our tenant activity. If you have multiple locations, it will quickly highlight which users are more engaged with building apps. You can also quickly see which environments are most active.



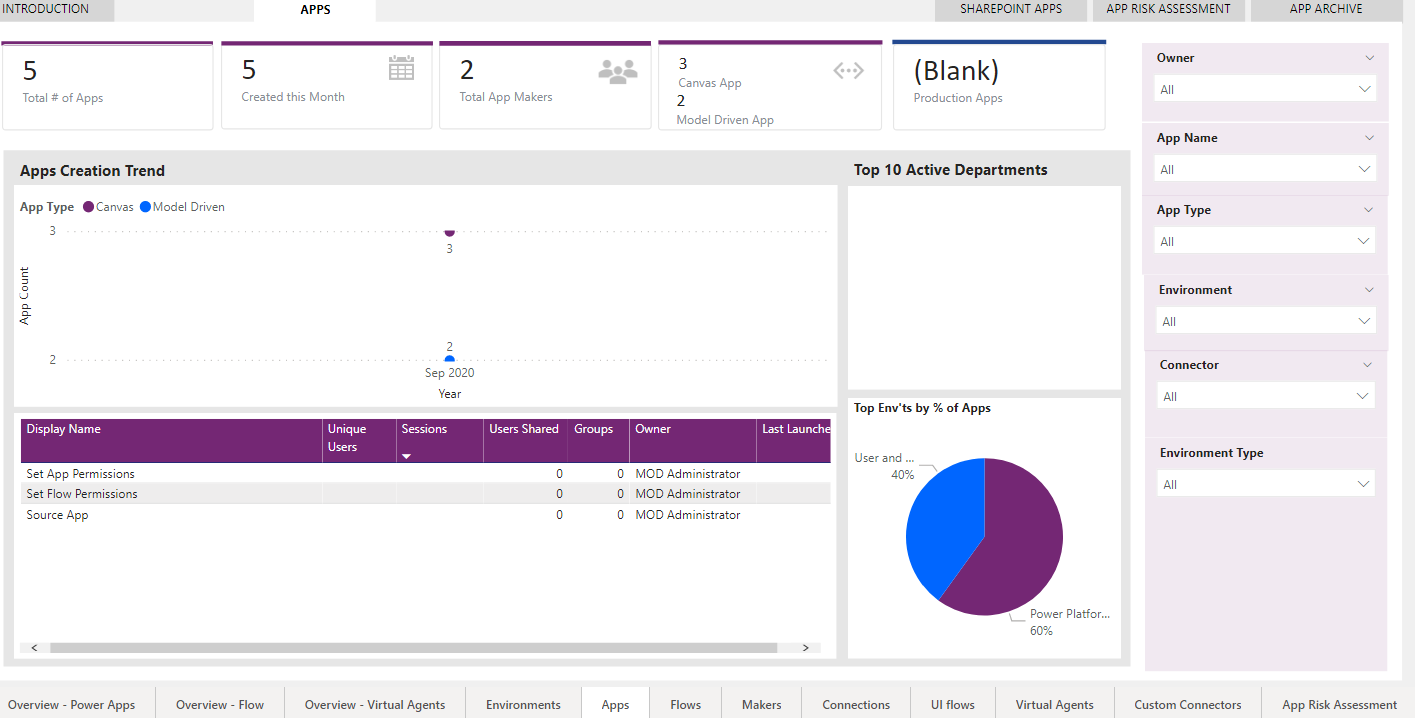
1. Click through each page using the navigation at the bottom of the app and review the insights available.



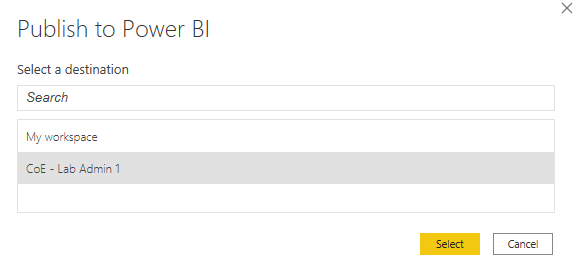
1. On the Environments page, use the date slider and see how it effects the other data on the page. When you are done leave it set at the max date range



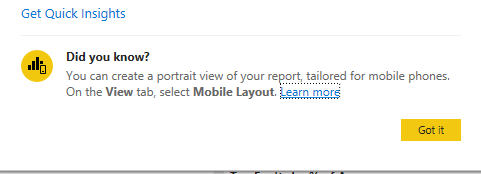
1. On the Apps page notice the Creation Trend, this is a good way to watch adoption progress.



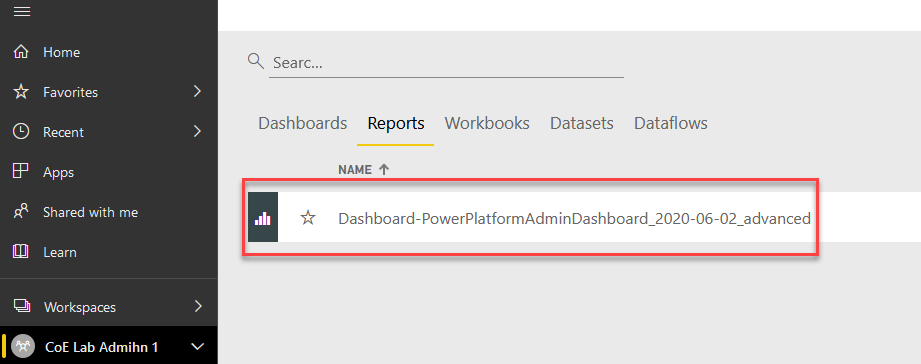
1. Click through the other pages and review the data available.
2. Click **Publish**.
3. Save the report if prompted.
4. Select the workspace you created and click **Select.**



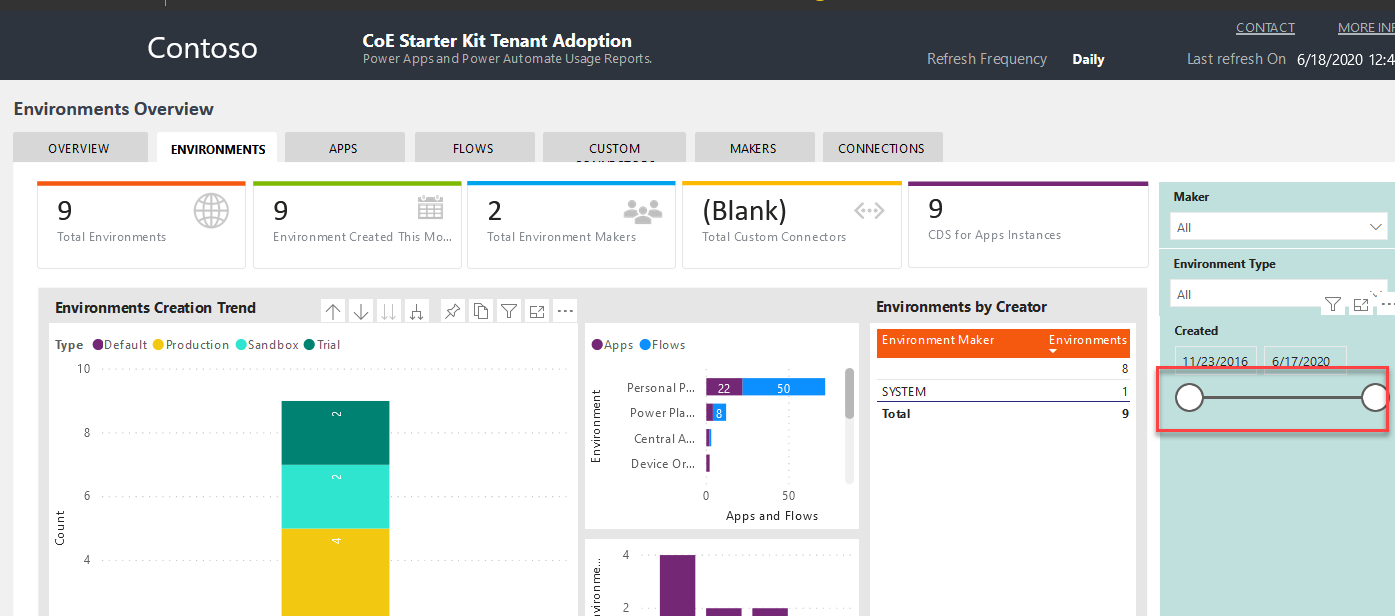
1. Wait for the publishing to complete and click **Got it**.



1. Navigate to [Power BI](https://powerbi.com/). Click on **Workspaces** and **CoE Workspace**.
2. Select the **Reports** tab and click on **Dashboard-PowerPlatform** to open the report.



1. Select the Environments page. Use the date slider to ensure the date range includes the last month.



1. You have now successfully deployed the Power BI reports that come with the CoE starter kit.

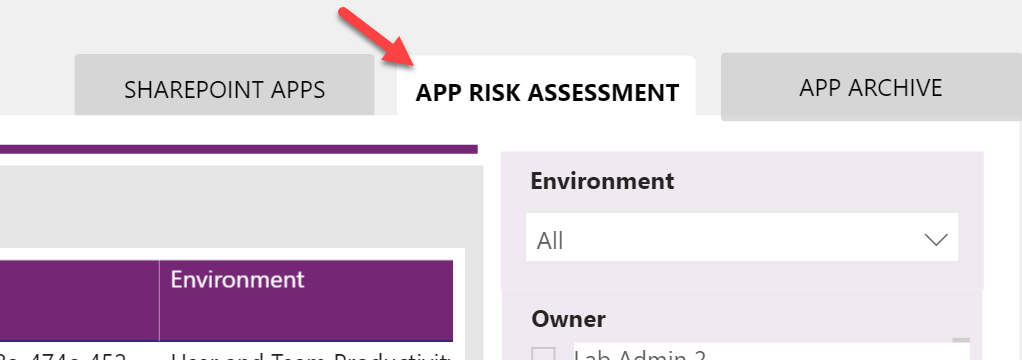
# Exercise 4: Perform a risk assessment of overshared resources

## Scenario

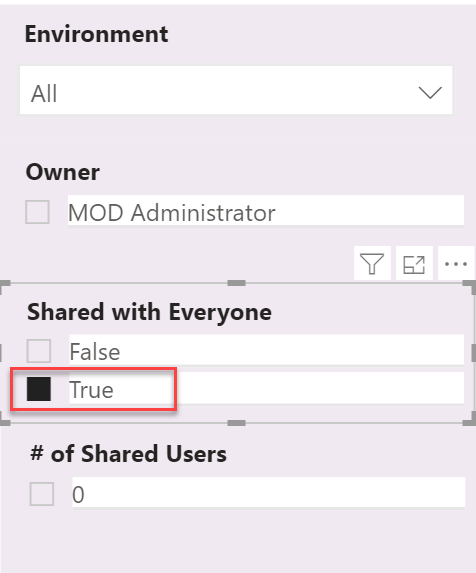
We were going to perform a risk assessment to look for apps that have been over shared in your tenant. To accomplish this, you are going to use the Power BI report that you just published to look for apps that are over shared.

### Task 1: Locate Overshared Apps

1. Navigate to [the](https://Protection.office.com) Power BI report you just published
2. Click on the Apps page in the report
3. Click on the Apps Risk Assessment tab



1. The list of apps you'll see now is the ones that qualify for the default criteria. We want to focus on the ones that have been shared with the entire organization and validate that they are appropriate.
2. In the filter panel, check the True in the Shared with Everyone section



1. The filter will take place immediately and you will see a small list of apps that have been shared with everyone. In many cases a quick evaluation of the name of the app would indicate whether it was appropriate but it also allows you to drill down into more details by hovering your mouse pointer over the name of the app. You might also use the owner name to contact the person who made the app to get more details to determine if it was appropriate to share with everyone.

# Exercise 5: How much is a connector used in your organization

## Scenario

Using the Power BI report, you can easily see what apps and flows are using a connector. In this exercise you will find out who is using the SharePoint connector.

### Task 1: Locate resources that use the SharePoint connector

1. Navigate to [the](https://Protection.office.com) Power BI report you just published
2. Click on the Connections page in the report
3. In the filter panel, in the Connector section search on SharePoint
4. The page will now filter on makers, flows and apps that use SharePoint.
5. Using this you could evaluate things like impact of changing DLP policies or other governance or training that might be needed related to a connector.

# Exercise 6: Review tenant audit logs (Optional if you have time)

## Scenario

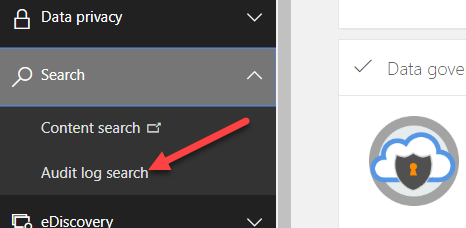
All other auditing of Power Apps and Power Automate flows (other than CDS data modification) are viewed through the Office 365 Security and Compliance site.

Prior to use, this must be enabled by a global tenant administrator using [these](https://docs.microsoft.com/en-us/office365/securitycompliance/turn-audit-log-search-on-or-off) instructions. In the tenant you are using we have already completed that for you as well as granting you permission to view the audit log data for the tenant. That was done using the PowerShell command Add-RoleGroupMember “Compliance Management” -Member your user.

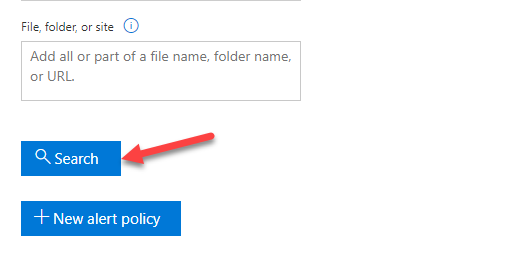
In this exercise, you will be using the log search and alert tools to work with the audit data.

### Task 1: Review audit logging in the environment

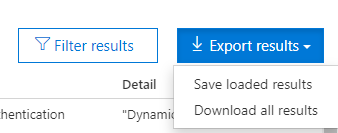
1. Navigate to <https://Protection.office.com>
2. Expand **Search**.
3. Select **Audit log search**.



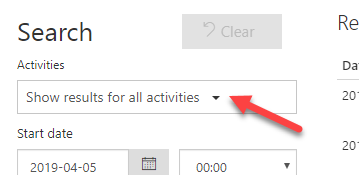
1. Click **Search** using the default search criteria.



1. Review the items displayed; drill into a few of them to see the type of data available.
2. Click **Export Results**. You can download the data if you like. Using export, you can open the data in other tools for analysis.



1. Click on the **Activities** dropdown.



1. Select all **Power Apps, Power Automate and Dynamics 365** activities. Click on the section names to select all.
2. Click **Search** again.
3. Review the results.
4. Look for an activity of Edited Flow, click on the item to open up the detail. Click on the More info, and review what data is provided.
5. A common task is to look at all activity for a particular user. Copy the user from this Edited flow activity and go back to the search criteria.
6. Paste the user you copied into the Users filter and click search again. Now you are looking at all the activity for a single user.
7. You can also click on the filter results in the upper right corner. This will expose filters just below the headers in the table.
8. Try clicking on an item to view detail. Copy the Item field and then go back to the list and click the filter results. Paste the item info you just copied into the filed. The results list will now only show activities related to that item. For example, you could use this to show all activities for a specific flow.

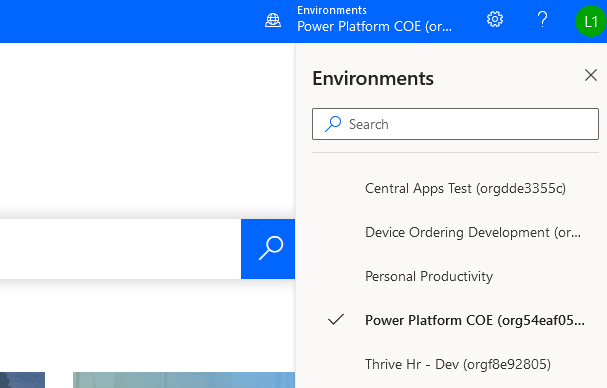
# Exercise 7: Get notification of new apps, flows and connectors (Optional if you have time)

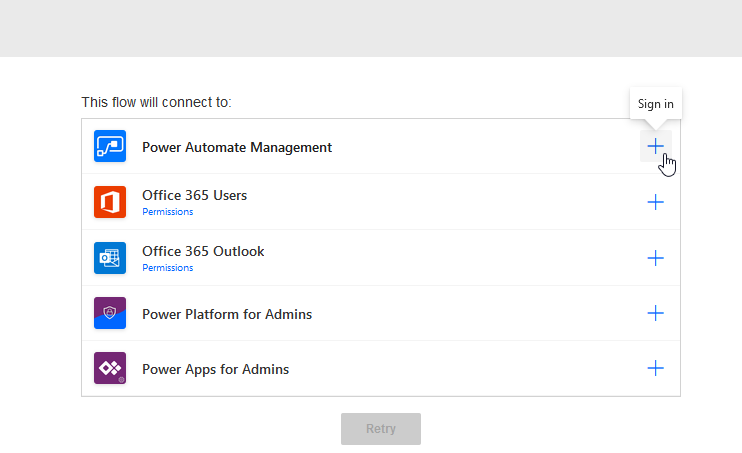
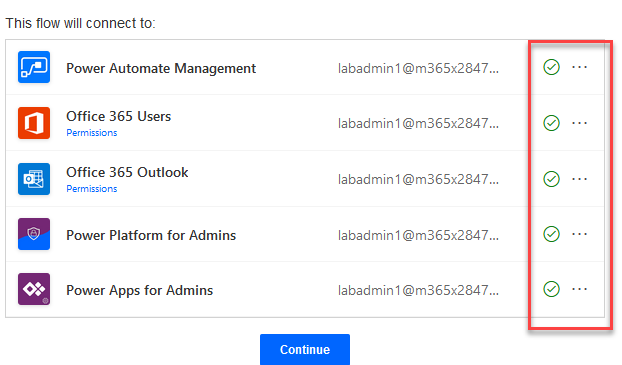
## Scenario

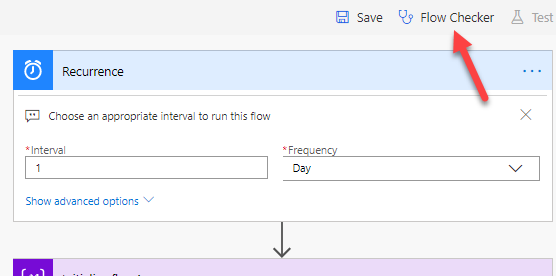
In this exercise, you will be using one of the pre-built Power Automate templates that run on a schedule and looks for newly created canvas apps, flows and connectors and sends you an email.

### Task 1: Create the flow from the template

1. Navigate to [**https://flow.microsoft.com**](https://flow.microsoft.com) and sign in.
2. Make sure **Power Platform COE** environment is selected. Note: This environment is where the CoE starter kit is installed and is intended to be our dedicated admin environment. Even if you don’t use the starter kit, having a dedicated admin environment can be helpful.



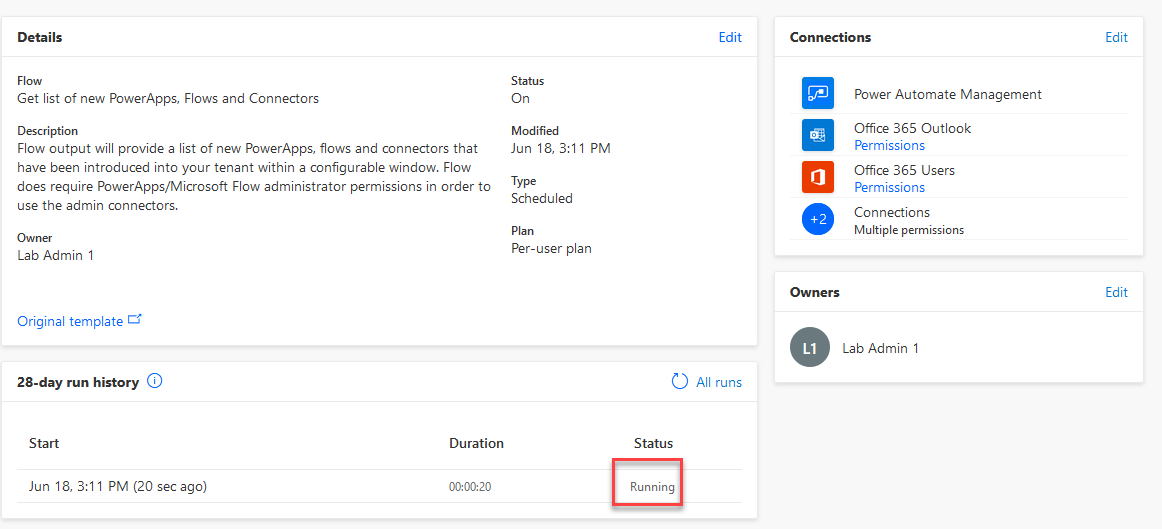
1. Paste the URL and press enter. <https://us.flow.microsoft.com/en-us/galleries/public/templates/0b2ffb0174724ad6b4681728c0f53062/get-list-of-new-powerapps-flows-and-connectors/>
2. Click **Sign in**.  
   
3. Select the user you are signed in as.
4. Click sign in for each of the rest of the connectors.
5. Click **Continue**.  
     
   
6. Examine the flow steps and then click **Flow Checker**. You may need to adjust the zoom of your browser to see all of the steps.



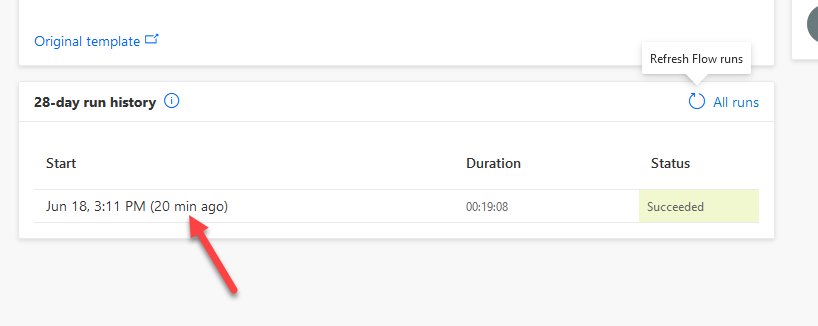
1. There should be no errors.
2. Click **Save**.
3. Click on the back arrow.

bak to flow

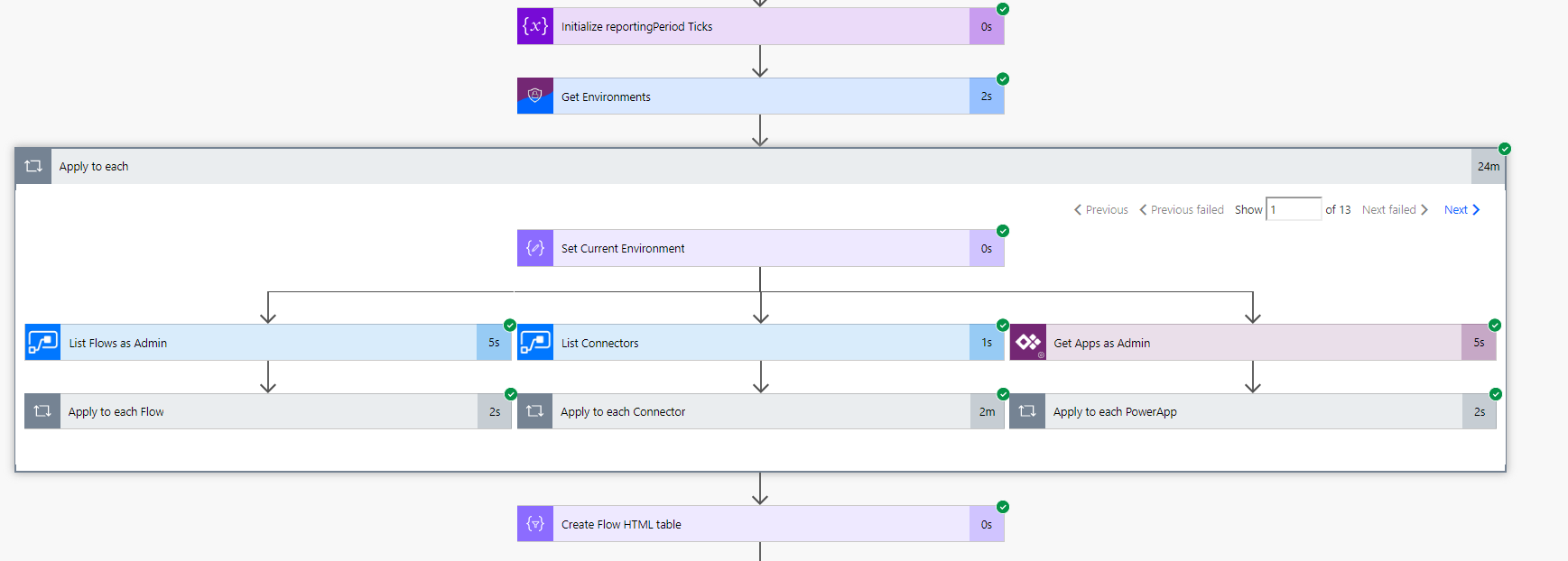

1. The flow should have one run in progress.



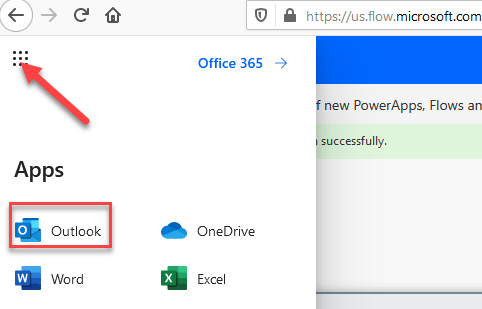
1. Wait for the flow to complete and then click to open the run. You can refresh to see the updated status of the flow.



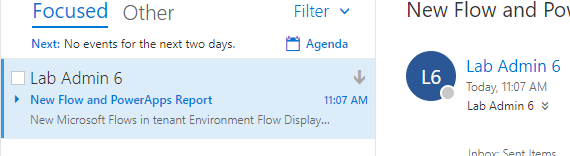
1. Examine the flow run.



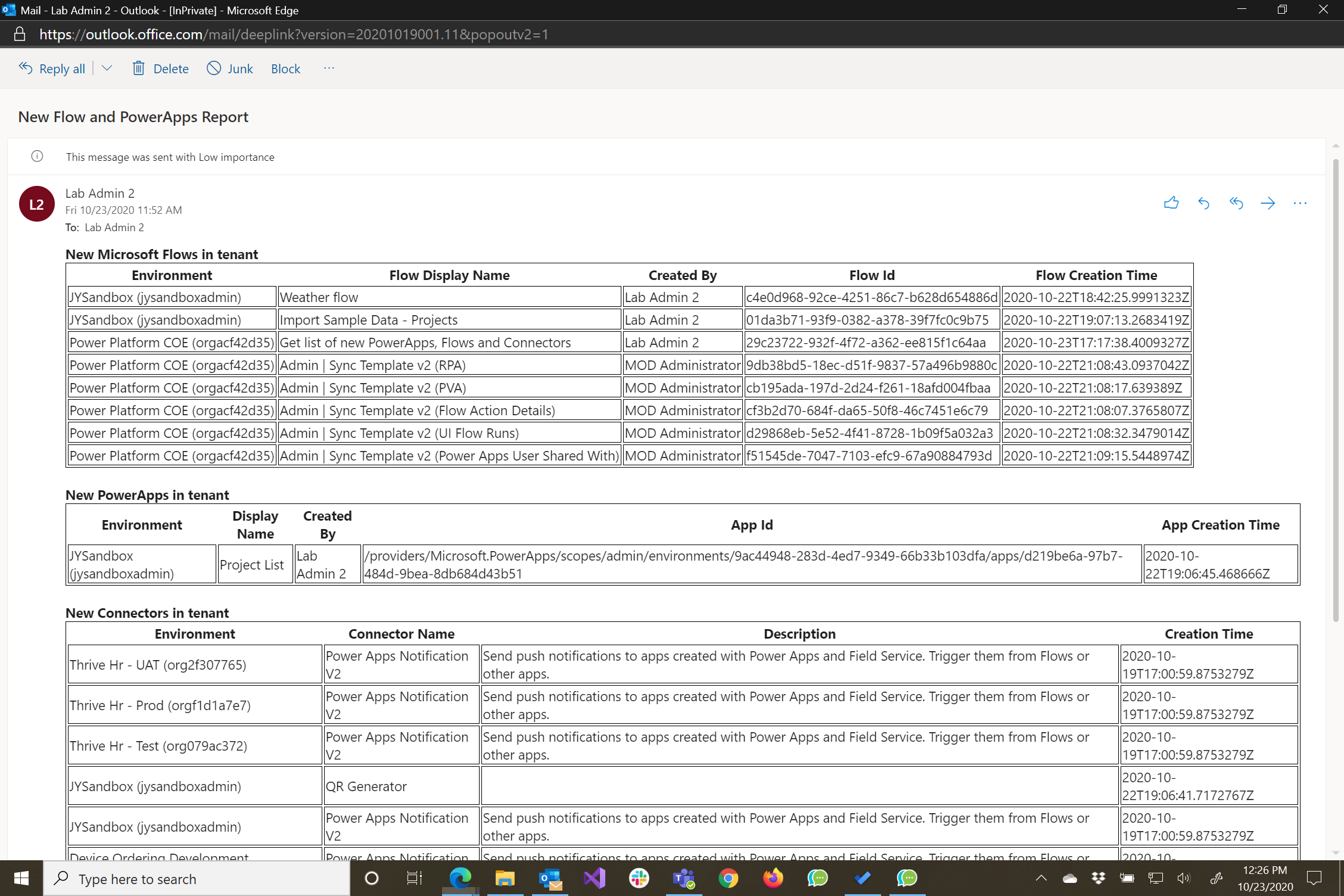
1. Click **App launcher** and select **Outlook**.



1. Navigate to <https://outlook.office.com/>
2. You should get an email from the flow. Open the email.



1. The report should list flows, Power Apps, connectors in tables.



In addition to simply seeing who is building what in your tenant you can also use the list of new connectors to evaluate if you need to adjust your DLP policies.