

Module 8 - Center of Excellence Starter Kit

Lab 1

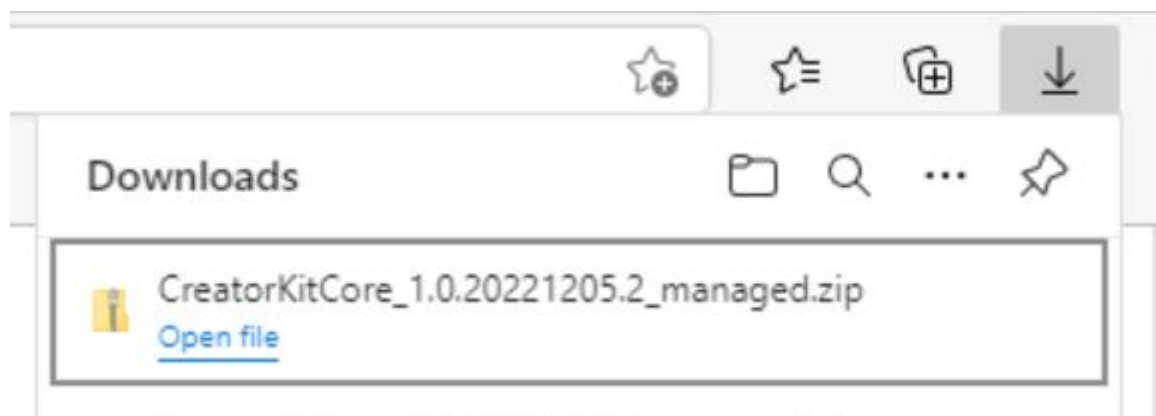
Estimated Time

120 minutes

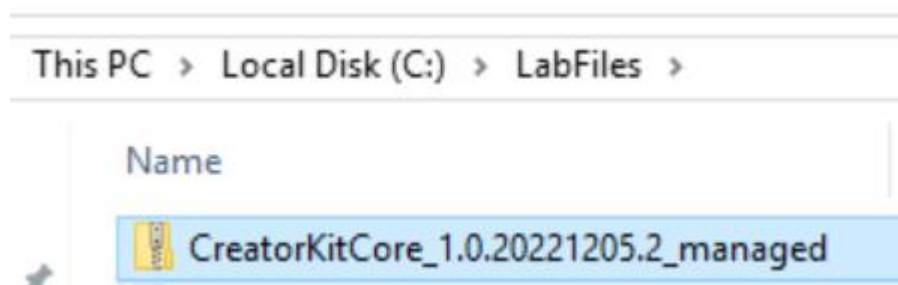
Exercise 1 - Install and configure Core Components

In this exercise we will install and configure Center of Excellence Core Components

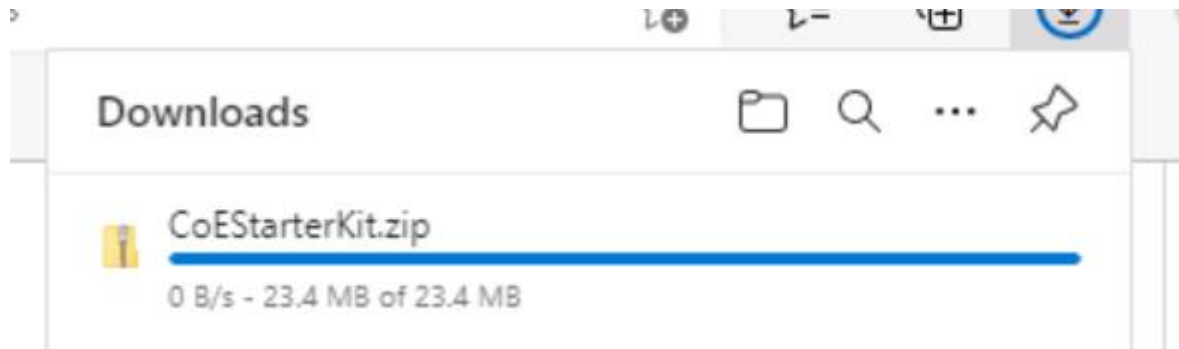
1. On **Virtual Machine** open **Edge Chromium**
2. Open this link **<https://aka.ms/creatorkitdownload>** by copy-pasting it to address bar to download latest released version of **CreatorKit**



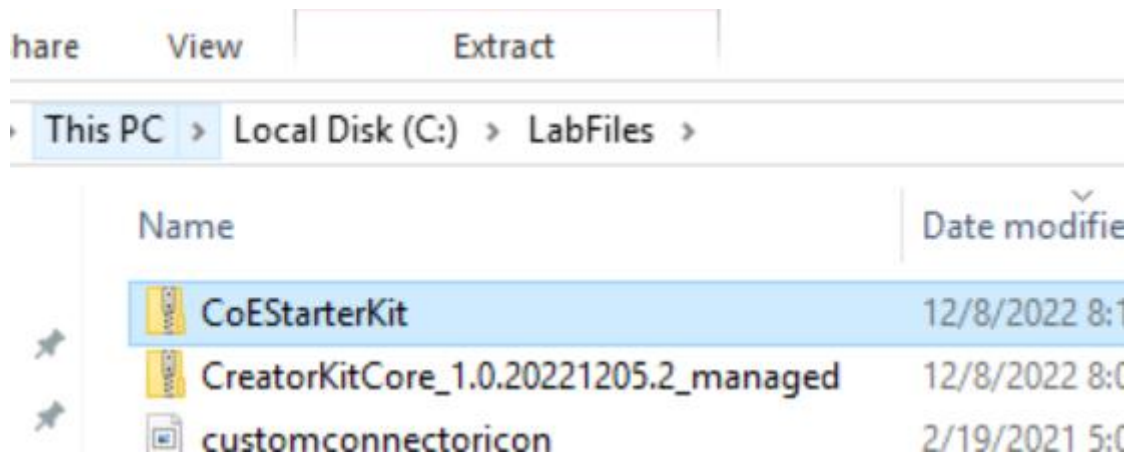
3. Move the package from Downloads to **C:\LabFiles**

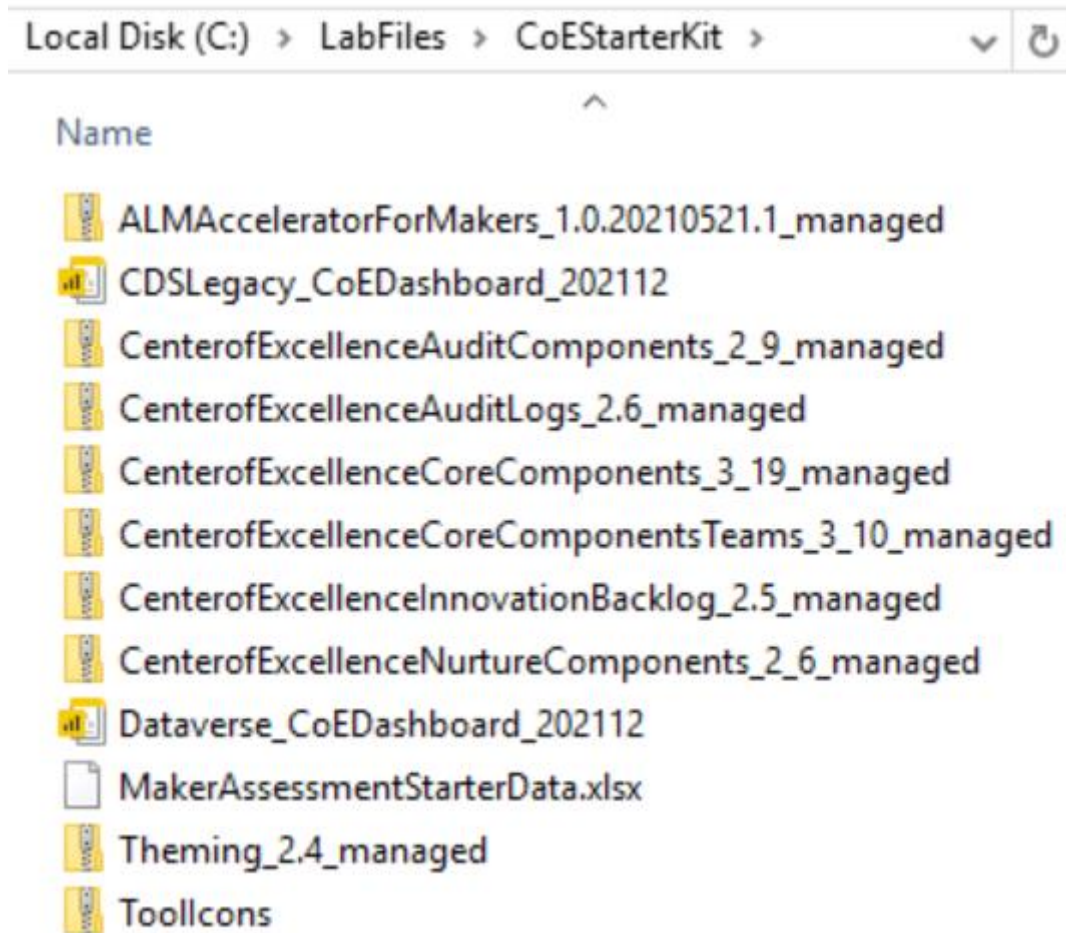


4. Open this link **<https://aka.ms/CoeStarterKitDownload>** by copy-pasting it to address bar to download latest released version of **CoE StarterKit**

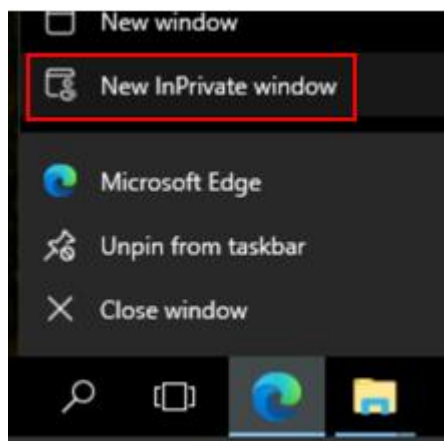


5. Move the package from Downloads to **C:\LabFiles** and extract the **main** ZIP package (you do **not** need to extract packages inside CoeStarterKit)





6. Open new browser (**InPrivate mode**) window



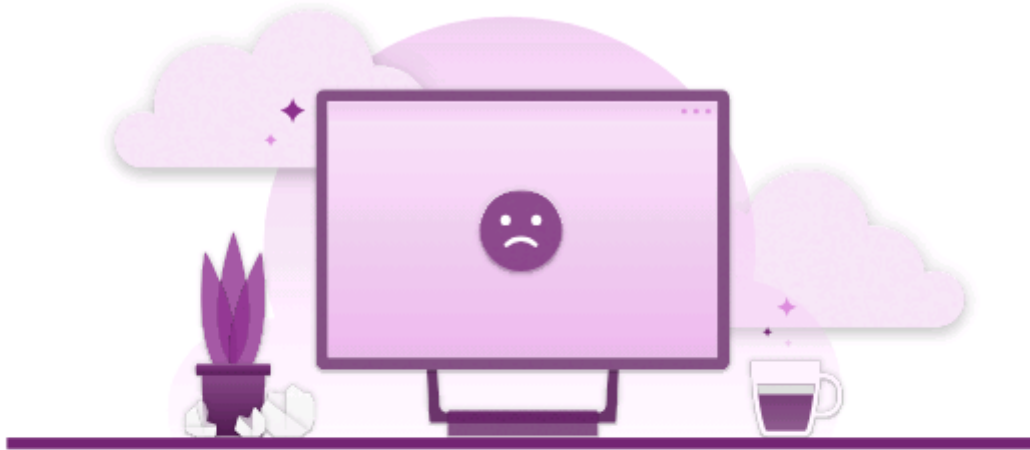
7. Paste this URL to address bar to start a Power Apps trial license

<https://apps.powerapps.com/trial?connections=premium&redirect=player>

8. Login using **CoE User** account we created in the beginning of the first lab

Username: coe@TENANTNAME.onmicrosoft.com Password: **MOD Administrator Password**

9. Click **Start a 30-day trial**



You need a Power Apps license to use this app

To continue, request a license from your admin, start a 30-day trial, or buy a license.

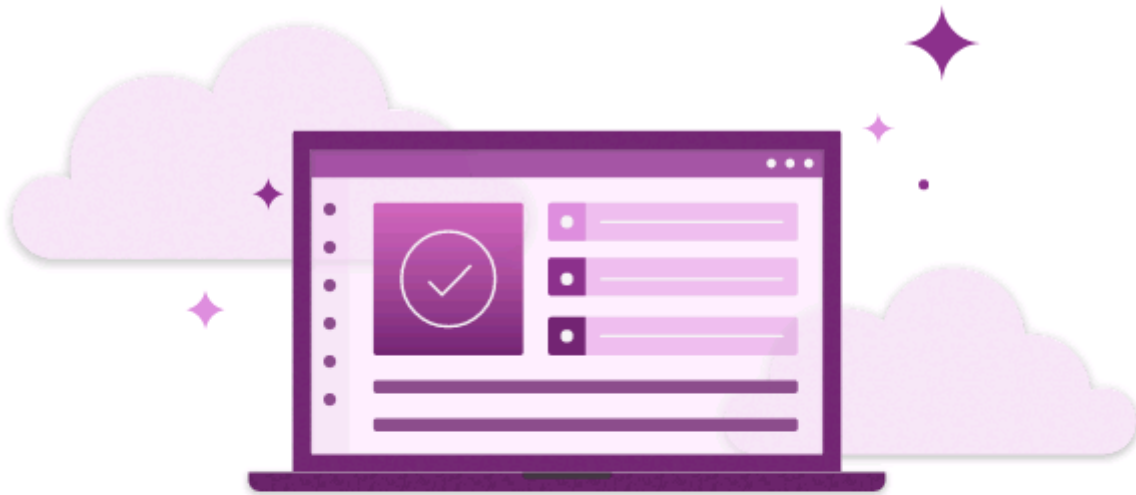
For more info, [learn more about trials](#) or [see Power Apps plans](#)

Request license

Start a 30-day trial

Buy a license

10. Click **Start my trial**



Hi CoE User

We need some information to set up your free trial.

Choose your country to begin

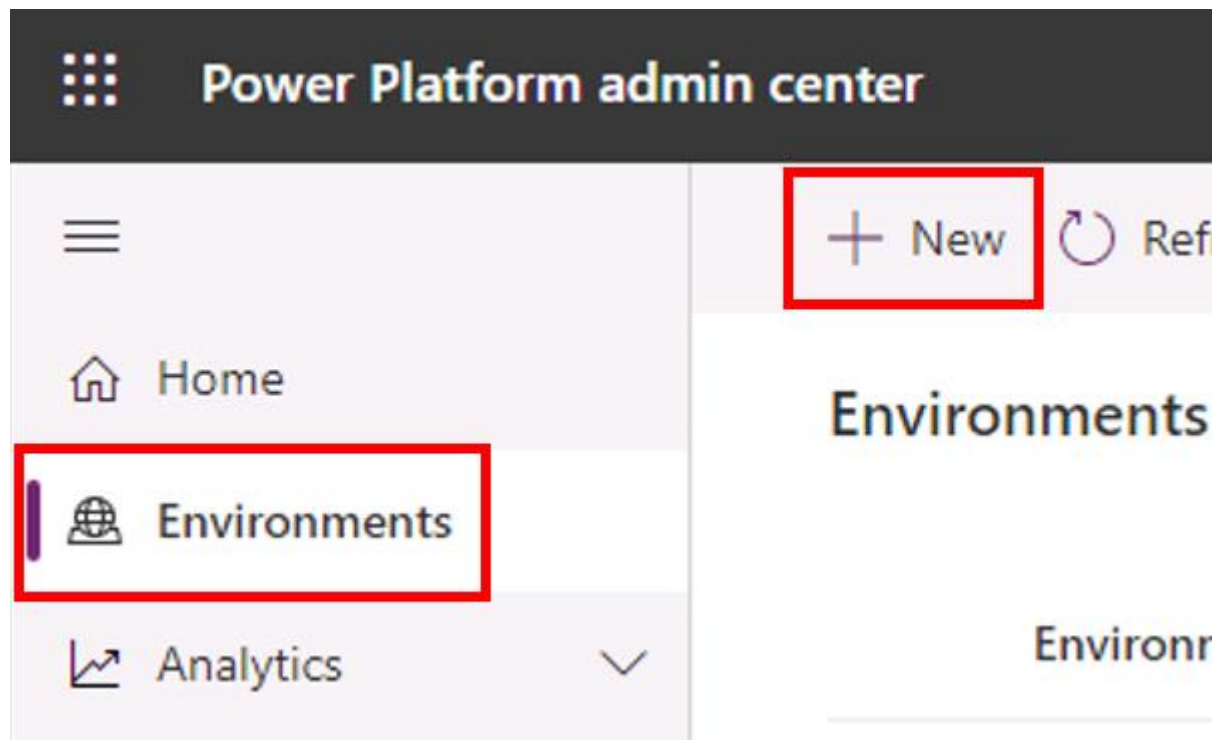
Microsoft may send occasional emails. You can unsubscribe any time.

By choosing **Start my trial**, you agree to the Power Apps [terms of use](#) and Microsoft [privacy statement](#).

Start my trial

Cancel

11. Open Power Platform Admin Center <https://aka.ms/ppac>
12. It is recommended to have own Power Platform environment for CoE StartetKit, so select **Environments** from the left menu and click **New** to create a new environment.



13. Name the environment **Power Platform CoE**, set the type to **Developer** and create a database (Dataverse) and click **Next**.

Name *

Region *

United States - Default


A local region can provide quicker data access

Type ⓘ *

Developer


14. Click **Save** to create the environment

Language *

English (United States) 

Default language for user interfaces in this environment

Currency *

USD (\$) 

Reports will use this currency

URL

A unique domain name will be generated.
Click [here](#) to enter a custom domain

Deploy sample apps and data?

☐ No

Save

Cancel

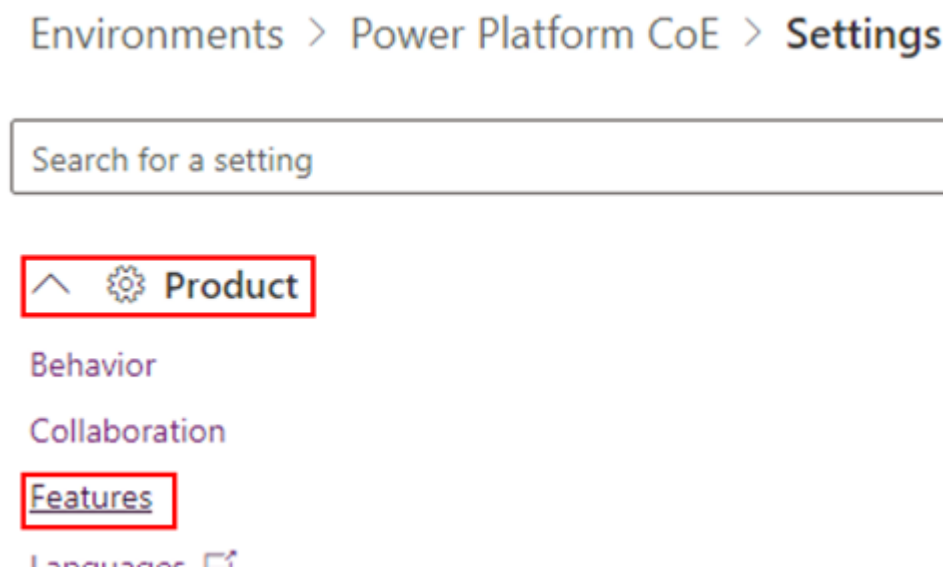
15. Environment provisioning takes a few minutes. Refresh the page to see the status. Wait until **State = Ready**

Environment		Type	State
Power Platform CoE	...	Developer	Ready

16. Open the context menu of the Power Platform CoE environment by clicking three dots and select Settings

Environment		Type
✓ Power Platform CoE	...	Trial (30
Sales and Marketing	✕ Deselect	
Contoso Production	🔍 Detailed view	
Contoso Development	📄 Open	
Contoso (default)	⚙️ Settings	

17. Open Product and select **Features**



18. Scroll down the page a bit and on the right side you will see **Power Apps component framework for canvas apps**. Enable this feature and click **Save** from the bottom of the page

Power Apps component framework for canvas apps

Enables Power Apps component framework feature that allows the execution of code that may not be generated by Microsoft when a maker adds code components to an app. Make sure that the code component solution is from a trusted source. [Learn more](#)

Allow publishing of canvas apps with code components



19. After the environment is provisioned navigate to <https://make.powerapps.com> and select **Power Platform CoE** environment from the environment selection on top right corner.

Select environment



Spaces to create, store, and work with data and apps.

[Learn more](#)

Filter

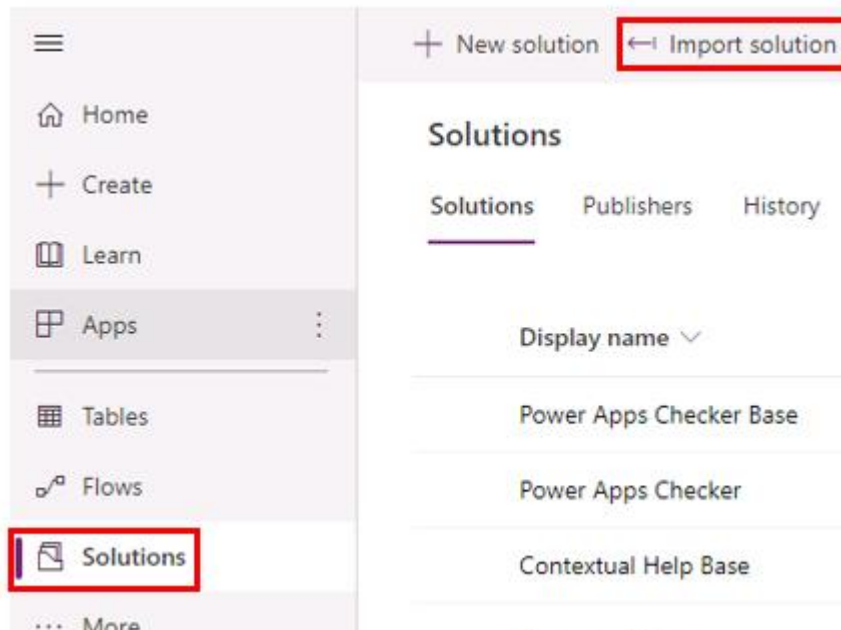
Build apps with Dataverse (2)

Contoso (default)

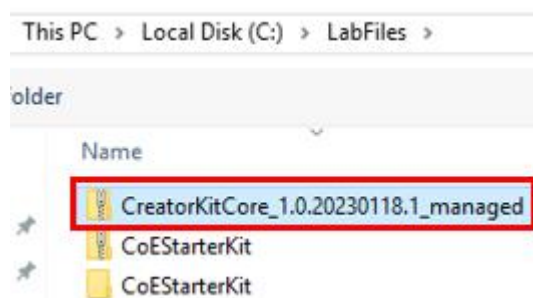
✓ Power Platform CoE

Other environments (0)

20. From the left menu select Solutions and click **Import solution**.



21. Click **Browse** and from the **C:\LabFiles**, select **CreatorKitCore_x.x.xxxxxx.x_managed.zip** and click **Next**.



22. Click **Import** and solution import will start.

NOTE You need wait until solution is imported before proceeding to next step. It will normally take couple minutes to import this solution

Import a solution

Environment
Power Platform CoE

Details

Name
CreatorKitCore

Type
Managed

Publisher
PowerCAT

Description
This toolkit helps create well-designed Power App experien
a component library; PCF controls and other utilities that in
more at <https://aka.ms/creatorkit>.

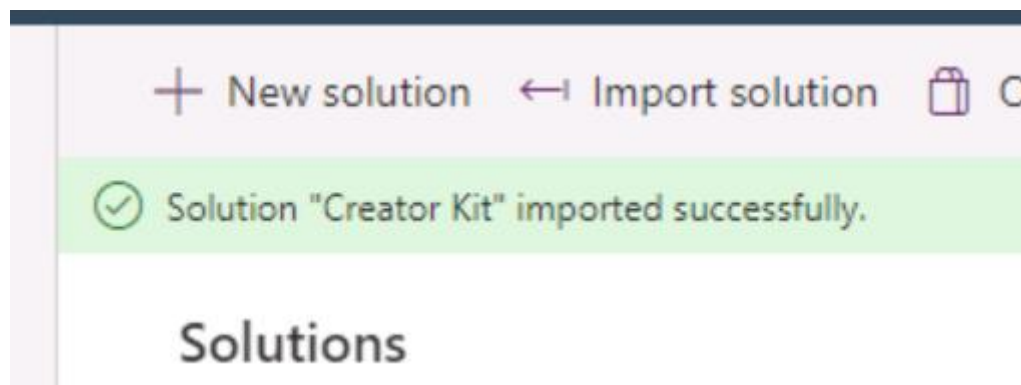
Version
1.0.20221205.2

Patch
No

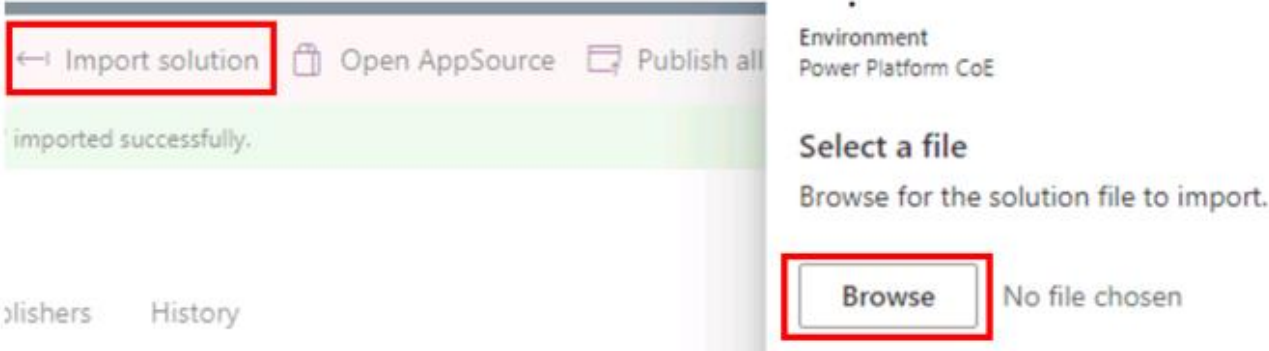
Advanced settings ▾

Import

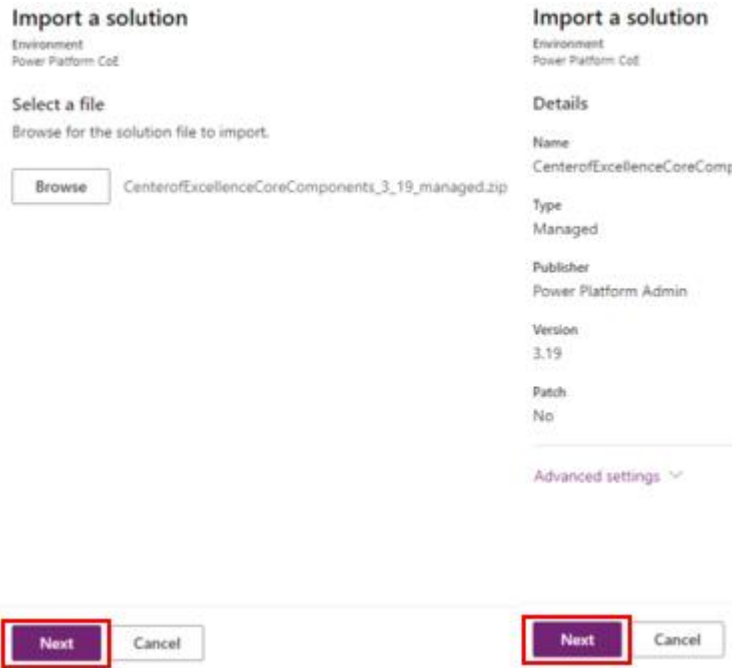
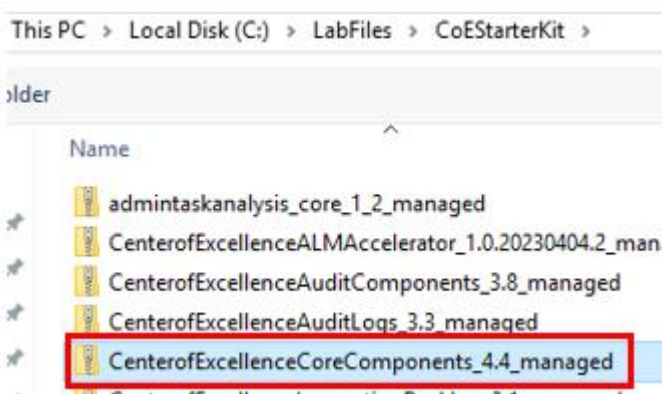
Cancel



23. Click again **Import solution** and click **Browse**



24. From **C:\LabFiles\CoEStarterKit**, select **CenterOfExcellenceCoreComponents_x_xx_x_managed.zip** and click **Next** twice.



25. On the next screen you will define all required connections and use **CoE user** account for each connection.

← Import a solution




Environment
Power Platform CoE

Refresh

Connections

Re-establish connections to activate your solution. If you create a connection you not lose your import progress.

19 updates needed

	CoE Core - Dataverse Legacy * admin_CoECoreDataverseLegacy	Select a connection
	CoE Core - Teams * admin_CoECoreTeams	<div><div>+</div> New connection</div>
	CoE Core - Power Automate Manage... admin_CoECorePowerAutomateMana...	Select a connection



Microsoft Teams
Microsoft

Microsoft Teams enables you to get all your content, tools and conversations in the Team workspace with Office 365.

Cancel

Create

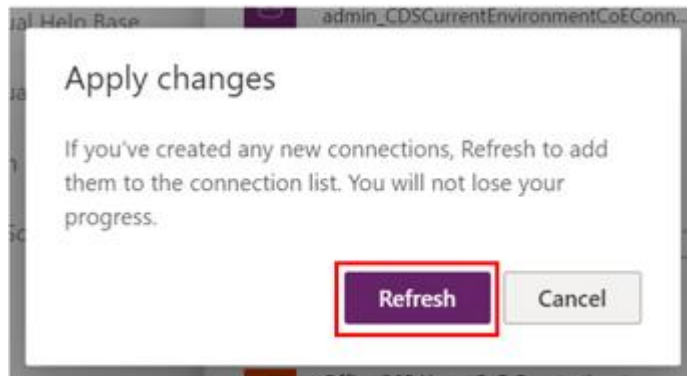


Pick an account



CoE User
coe@M365x574724.onmicrosoft.com
Signed in

Go back to the connection references page and press **Refresh** to update and set the created connection for the connection reference. **Repeat these steps to configure all connections** and click **Next**.



When you create the connection for HTTP with Azure AD enter the following into the Base Resource URL and Azure AD Resource URI (Application ID URI): **<https://graph.microsoft.com>**



HTTP with Azure AD

Microsoft

Premium

authenticated by Azure Active Directory (Azure AD), or from an on-premise web service.

How do you want to connect to your data?

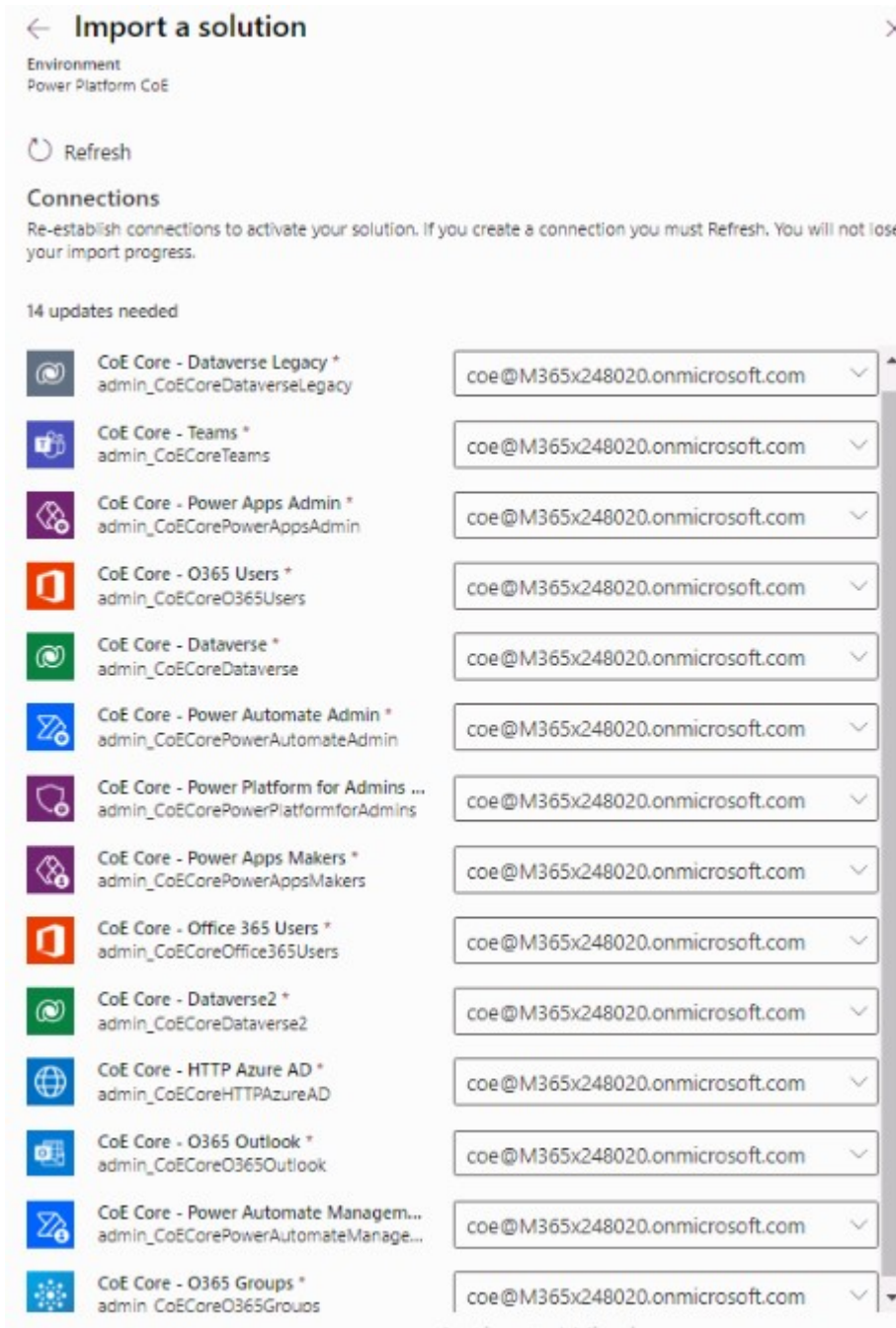
- ☒ Connect directly (cloud-services)
- ☐ Connect using on-premises data gateway [?](#)

Base Resource URL *

`https://graph.microsoft.com/`

Azure AD Resource URI (Application ID URI) *

`https://graph.microsoft.com/`



26. Click **Import**. We do not configure any environment variable values at this point as they are set by the CoE Setup and Upgrade Wizard

← **Import a solution**

Environment
Power Platform CoE

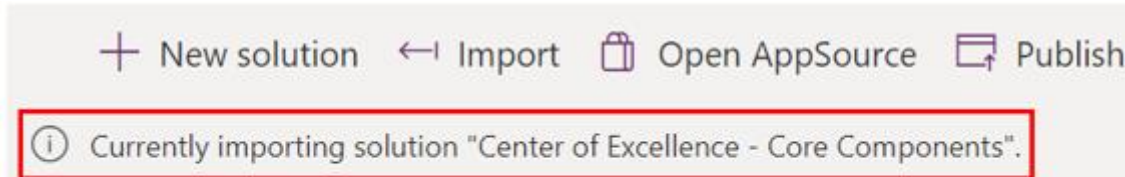
PowerApp Player Environment Variable

Flow Usage Dataflow ID

Maker Dataflow ID

Import Cancel

27. The import process begins. This will take about **15 minutes** to complete.



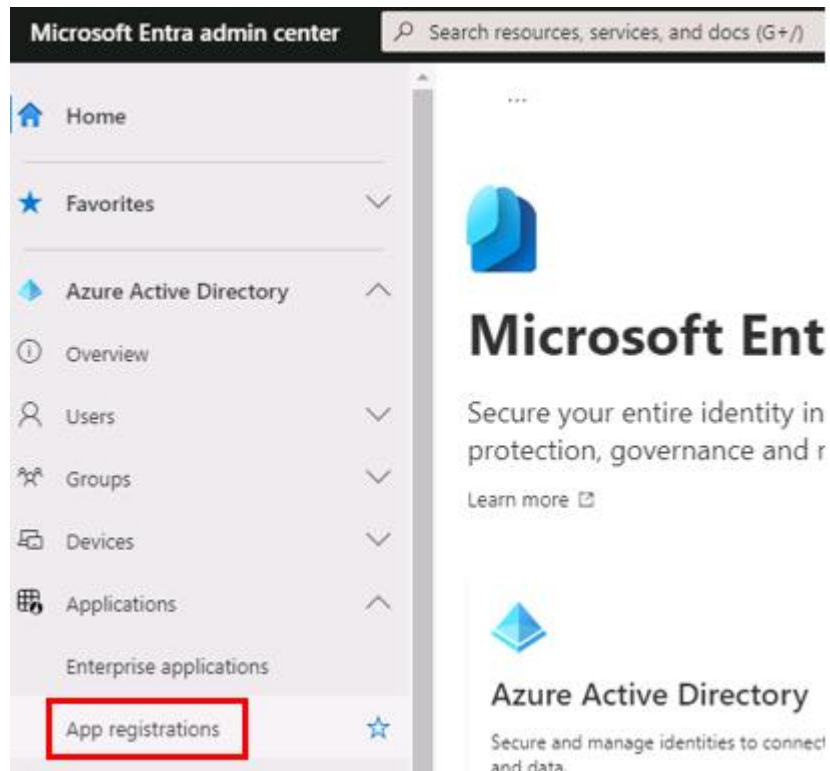
Solutions

28. While waiting for Core Solution deployment, we will configure the Azure AD application registration which is used by CoE Audit Log component. **Continue to the next task.**

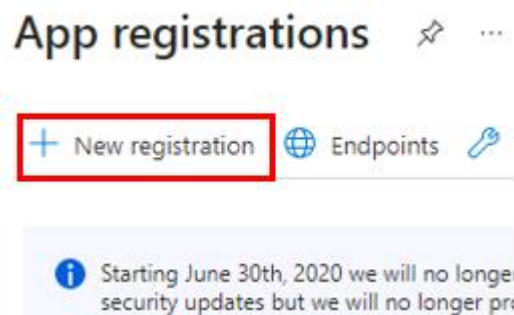
Exercise 2 - Create Azure AD App Registration for Office 365 Management API operations

Here we configure Azure AD service principal which is used by the CoE StarterKit Audit Log inventory sync flows to fetch Power Apps launch events from Office 365 Audit Log

1. Move to the browser session where you are logged in as **MOD Administrator** and browse to **<https://entra.microsoft.com>**.
2. Go to the **Applications > App registration**.



3. Open and click **New registration**.



4. Enter a name **Office 365 Management API** but don't change any other setting. Click **Register**.

Register an application

* Name

The user-facing display name for this application

Office 365 Management API

Supported account types

Who can use this application or access this API?

☒ Accounts in this organizational directory only

☐ Accounts in any organizational directory (Any

☐ Accounts in any organizational directory (Any

☐ Personal Microsoft accounts only

By proceeding, you agree to the Microsoft Platform

Register

5. Enter a ****Select API Permissions ****> + **Add a permission**

Office 365 Management API | API permissions

Search (Ctrl+/)

Refresh | Got feedback?

Overview

Quickstart

Integration assistant

Manage

Branding

Authentication

Certificates & secrets

Token configuration

API permissions

Expose an API

Configured permissions

Applications are authorized to call APIs whi all the permissions the application needs. L

+ Add a permission

Grant admin

API / Permissions name	
Microsoft Graph (1)	
User.Read	[

6. Select **Office 365 Management APIs**



7. Select following permissions:

- Application Permissions > ActivityFeed.Read

Office 365 Management APIs
<https://manage.office.com/> Docs

What type of permissions does your application require?

Delegated permissions
Your application needs to access the API as the signed-in user.

Application permissions
Your application runs as a background service or daemon without a signed-in user.

Select permissions expand all

Permission	Admin consent required
ActivityFeed (1)	
<input checked="" type="checkbox"/> ActivityFeed.Read ⓘ Read activity data for your organization	Yes
ActivityFeed.ReadDln ⓘ	

Add permissions

Discard

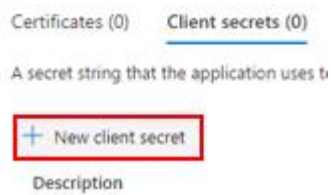
8. Click **Grant Admin Consent for (your organization)**.

+ Add a permission

✓ Grant admin consent for Contoso

API / Permissions n...	Type	Description	Admin consent req...	Status
Microsoft Graph (1)				
User.Read	Delegated	Sign in and read user profile	No	✓ Granted for Contoso
Office 365 Managem...				
ActivityFeed.Read	Application	Read activity data for your organizat...	Yes	✓ Granted for Contoso

9. Select **Certificates and secrets** > **+ New client secret**



10. Add a description and expiration, and then select **Add**.

Add a client secret

Description My Secret

Expires Recommended: 6 months

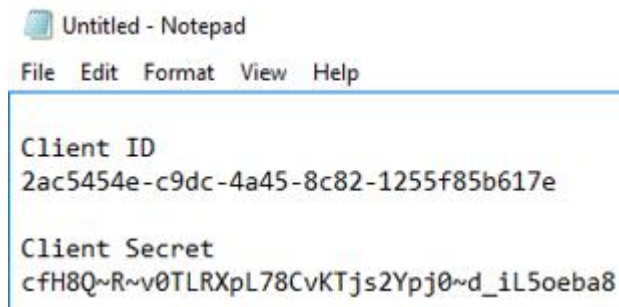
11. Click **Copy to clipboard** after secret value and copy secret to **Notepad**. **NOTE:** This is the only time you are able to copy the secret.



12. Go to **Overview** page and copy **Application ID** to notepad

Application (client) ID
71d9e456-0354-4dba-bdb4-a35af63d2148

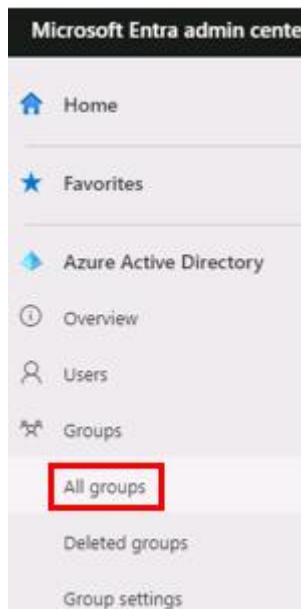
13. Now you should have Client ID and Secret copied to notepad matching your environment values



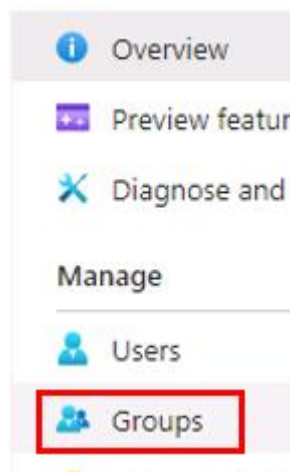
Exercise 3 - Create persona groups for the CoE Kit

In this task we create three Microsoft 365 Groups for the CoE Kit which are used in communications for different personas, admins, makers, and users.

1. In Entra Admin Center, select **Groups** > **All groups** on the left menu



2. Select **Groups**



3. Click **New group**



4. Set group type **Microsoft 365**, group name **Power Admins** and then click **Create**

A screenshot of the 'New Group' form in the Microsoft 365 portal. The form has a title 'New Group' and a 'Got feedback?' link. The 'Group type' dropdown is set to 'Microsoft 365' and is highlighted with a red rectangle. The 'Group name' dropdown is set to 'Power Admins' and is also highlighted with a red rectangle. The 'Group email address' field contains 'PowerAdmins'. The 'Group description' field has a placeholder 'Enter a description for the group'. There is a section for 'Azure AD roles can be assigned' with 'Yes' and 'No' radio buttons, where 'No' is selected. The 'Membership type' dropdown is set to 'Assigned'. At the bottom, the 'Create' button is highlighted with a red rectangle.

5. Create two more Microsoft 365 groups using following group names

- **Power Makers**
- **Power Users**

Exercise 4 – Configure Core Solution using CoE Setup and Upgrade Wizard

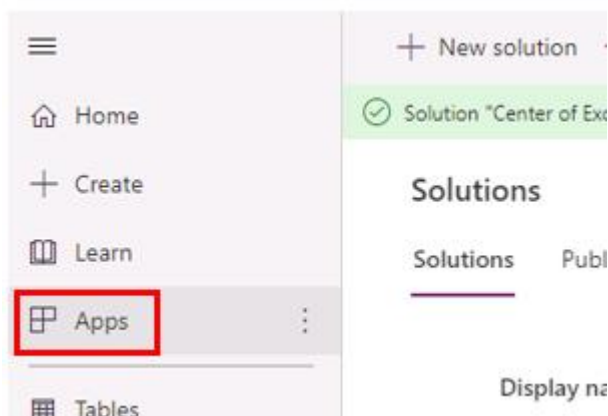
1. Move back to browser session where you are logged in as **CoE user** in Power Apps maker portal and check if the import of the CoE Core solution is already finished with notification "**Solution Center of Excellence - Core Components imported successfully**".

NOTE: If solution import is still in progress then you need to wait until it is finished

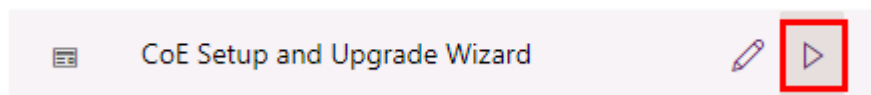


If you closed that browser session then navigate back to <https://make.powerapps.com> and login as **CoE User**. Make sure that you have **Power Platform CoE** environment selected.

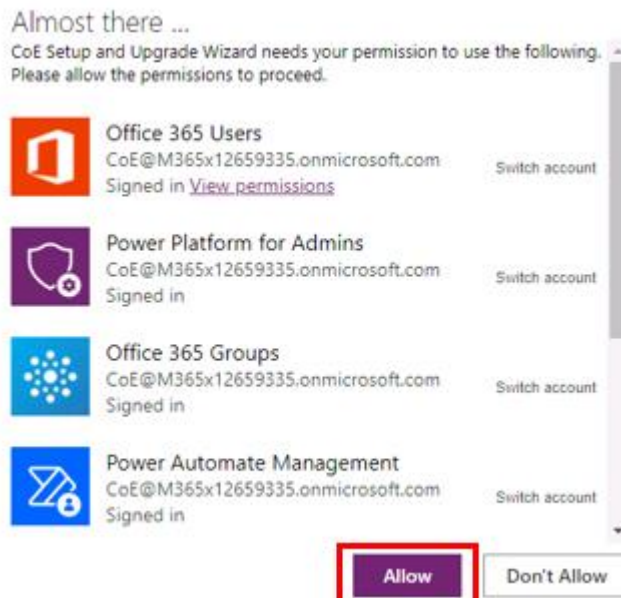
2. Select **Apps** on the left menu



3. Run the **CoE Setup and Upgrade Wizard** by clicking the **Play** button



4. Click **Allow** to provide consent for the connections



5. Click **Next** in the Confirm pre-requisites step which checks that account you are using to configure CoE has necessary licenses and permissions

Confirm pre-requisites

The CoE Starter Kit requires access to your tenant's Power Platform environments. Therefore, the identity you use has the necessary privileges and licenses. Please confirm your account meets the prerequisites before continuing:

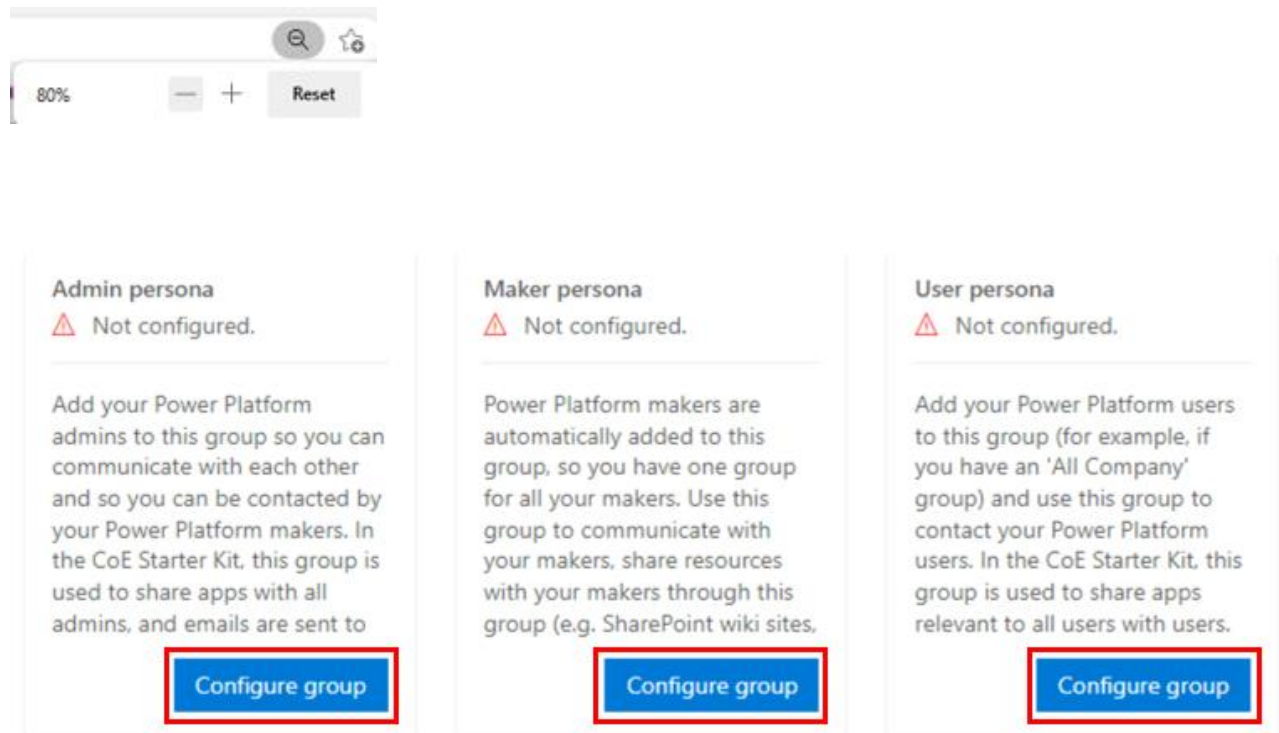
Requirement	Status	
Microsoft Power Platform service admin, global tenant admin, or Dynamics 365 service admin.		Verify manually
Power Apps Per User (non-trial) license		Fail
Microsoft 365 license		Success
Power Automate Per User (non-trial) license		Fail
eMail enabled		Success

[Back](#) **Next**

6. Set the CoE personas by clicking **Configure group** and select the corresponding group for each persona we created in the previous task
- Admin persona = **Power Admins**
 - Maker persona = **Power Makers**

- User persona = **Power Users**

Note! If you are not able to see the UI controls as in the screenshots because of small screen and/or resolution, then use the browser zoom to zoom out to see the UI correctly



Configure group

Select a group for the Admin persona.

power

Power Admins

Power Makers

Power Users

If you do not have a group yet, create one

Create new group

Cancel

Select Group

7. Click **Next** when all three personas are configured.

Note that Maker and User groups are defined as ObjectIDs

Admin persona
✔ Configured: PowerAdmins@I

Add your Power Platform admins to this group so you can communicate with each other and so you can be contacted by your Power Platform makers. In the CoE Starter Kit, this group is used to share apps with all admins, and emails are sent to

Configure group

Maker persona
✔ Configured: 62f0f8e8-d9f3-4

Power Platform makers are automatically added to this group, so you have one group for all your makers. Use this group to communicate with your makers, share resources with your makers through this group (e.g. SharePoint wiki sites,

Configure group

User persona
✔ Configured: cda8a666-d431-

Add your Power Platform users to this group (for example, if you have an 'All Company' group) and use this group to contact your Power Platform users. In the CoE Starter Kit, this group is used to share apps relevant to all users with users.

Configure group

Back

Next

Activate Windows
Go to Settings to activate Window

8. Accept all the default settings and click **Next**.

Configure mandatory settings

Configure mandatory variable values.

Power Platform Region/Cloud
Power Platform is available in commercial regions, like United States and Europe, and Apps US Government regions. Select the re

Commercial (Default) ▾

ProductionEnvironment
Inventory - Yes by default. Set to No if you are creating a dev type envt. This will allow some flows to set target users

yes ▾

Individual Admin
Inventory - An individual admin's email. Some actions (approvals / team chats) cannot accept a group/DL. So this env

CoE@M365x12659335.onmicrosoft.com

TenantID
Inventory - Azure Tenant ID

d5d878f9-76df-4531-aa20-945b29755793

Back

Next

9. Setup wizard will now set environment variable values and enables setup flows. This will take couple minutes



10. We will use Cloud flows setup option, so just click **Next**

The screenshot shows a setup screen with two main options. On the left, 'Cloud flows' is selected with a blue checkmark icon. Its description states: 'Cloud flows use Power Platform admin connectors to query and crawl your tenant and store inventory and usage data in Dataverse tables. This method is suitable for small tenants but can cause performance issues in larger tenants. If you have more than 10,000 apps or flows consider using Data Export instead.' On the right, 'Data export (Preview)' is unselected with a radio button icon. Its description states: 'You can export Power Platform usage data directly into Azure. Having the data in your own storage that you can store data for in your organization's data lake. Because the data is provided in your organization's data lake, this is high in performance.' Below these options, there are two buttons: 'Back' and 'Next'. The 'Next' button is highlighted with a red rectangular border.







11. This step starts three setup flows and we need to wait until they are completed. This takes normally about 15-30 minutes.

We will complete few other setup tasks while waiting these flows to complete, so just go to the next step

Run setup flows

The flows below configure mandatory data in your environment, and have to finish running before proceeding with the setup. During these may take **15 mins** to run - select 'Refresh' until you see the flows running and until they've successfully finished running.

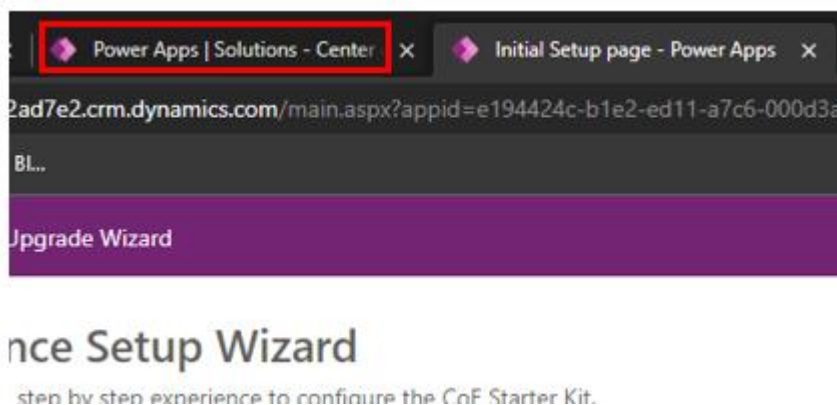
Refresh

	Admin Sync Template v3 (Connectors) (approx. runtime 15 mins)	
	Admin Sync Template v3 CoE Solution Metadata (approx. runtime 5 mins)	
	Admin Sync Template v3 Configure Emails (approx. runtime 3 mins)	Last run: 4/25/2023 6:09 AM 

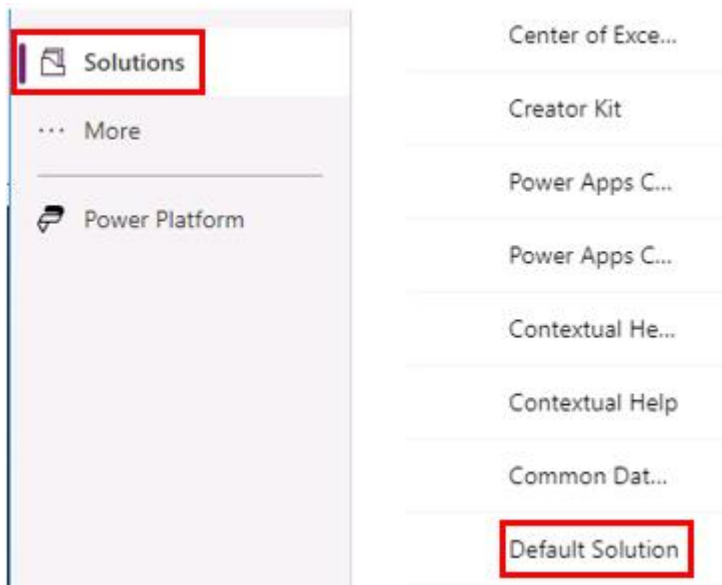
Back

Next

12. Switch to another browser tab from where you opened the CoE Setup and Upgrade Wizard

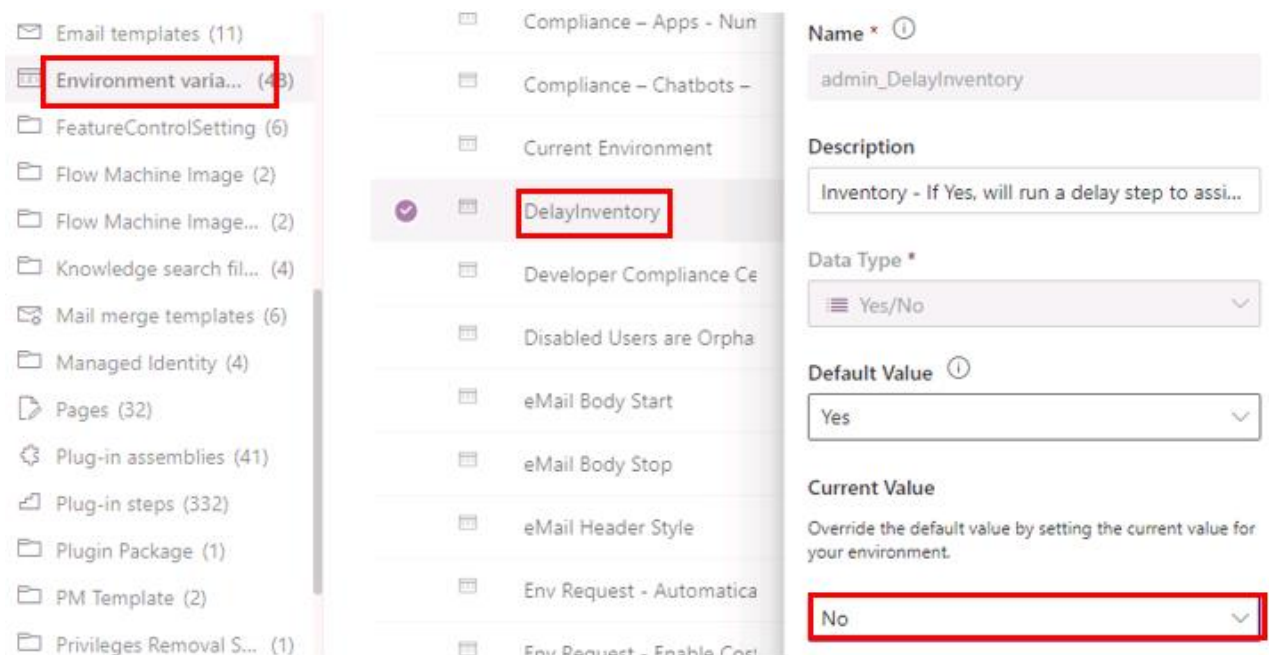


13. Select **Solutions** from the left menu and open the **Default Solution**

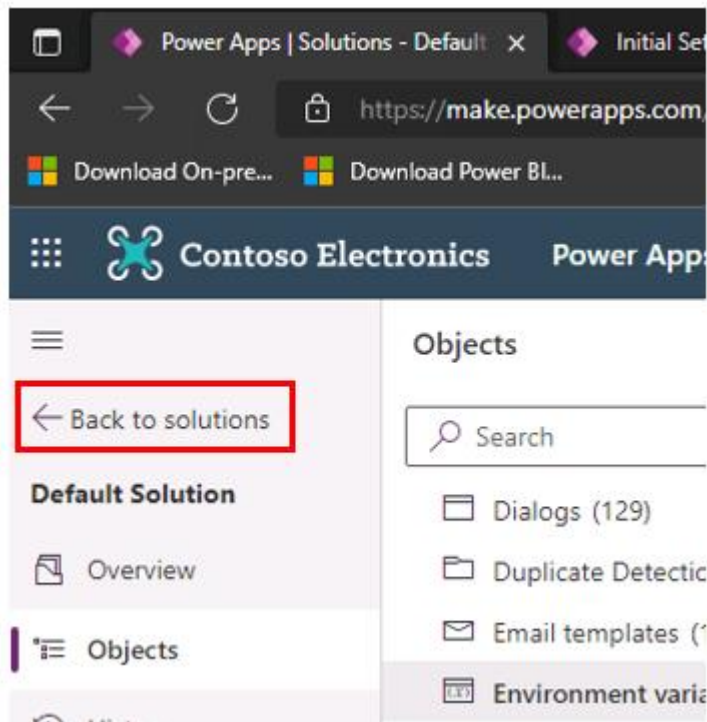


14. Select **Environment variables** > **DelayInventory** and set the Current Value to be **No** and click **Save**

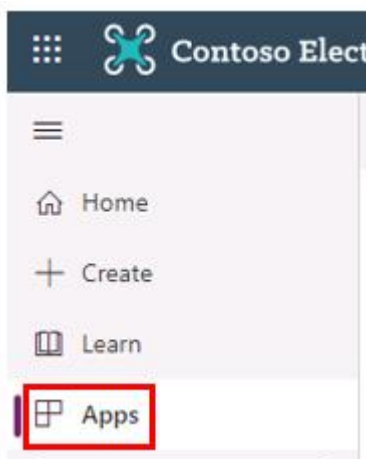
NOTE! This variable is used to control how the **Admin | Sync Template v3** flow will start. Default and recommended value is Yes which means that this flow will actually start to run its logic randomized between 1 minute and 15 hours after scheduled trigger has started the flow. This is done to better assist the health of Dataverse database. But for the this lab we obviously can't wait max 15 hours for this flow to complete, so we need to change this value to No



15. Click **Back to solutions**

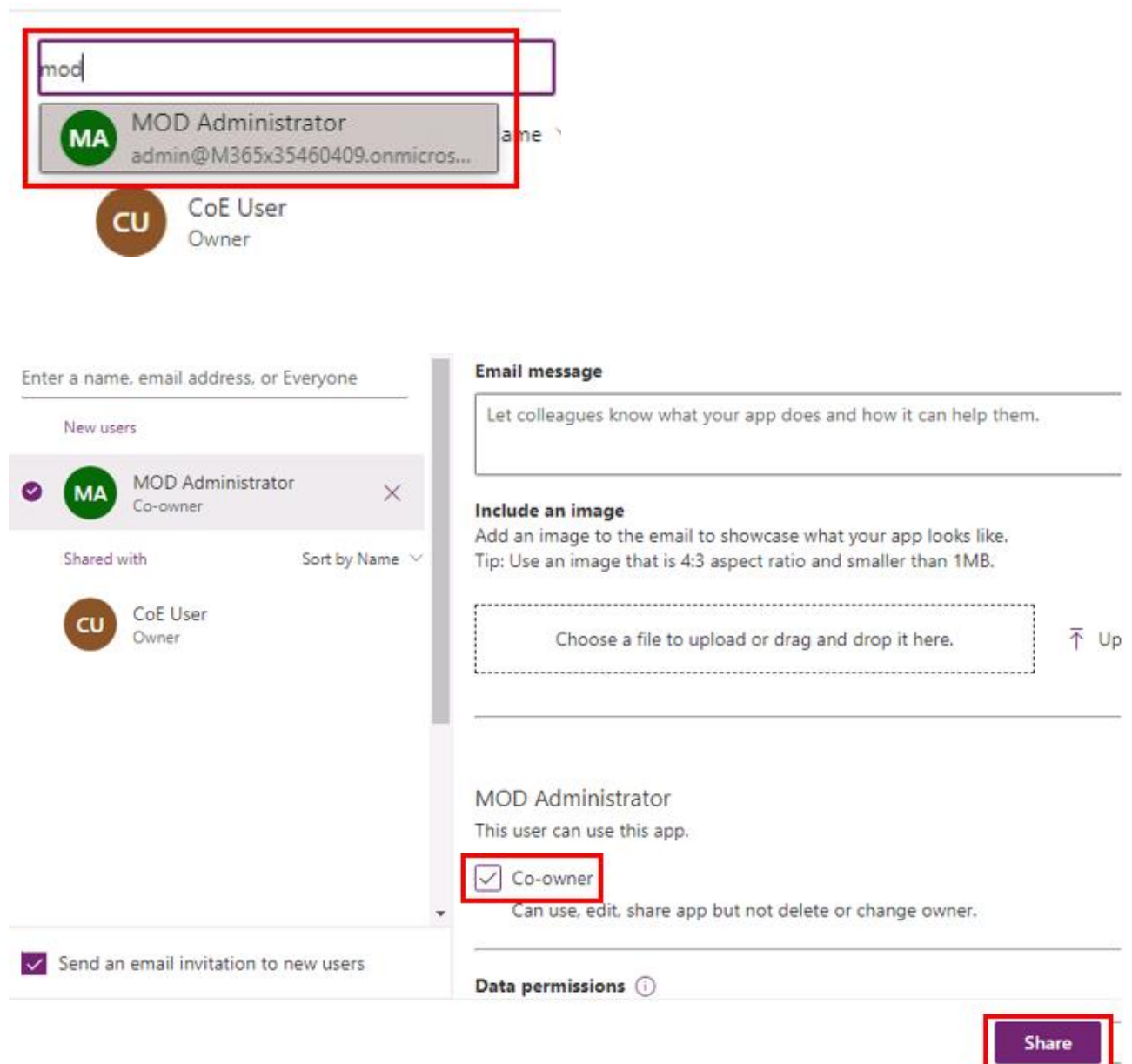
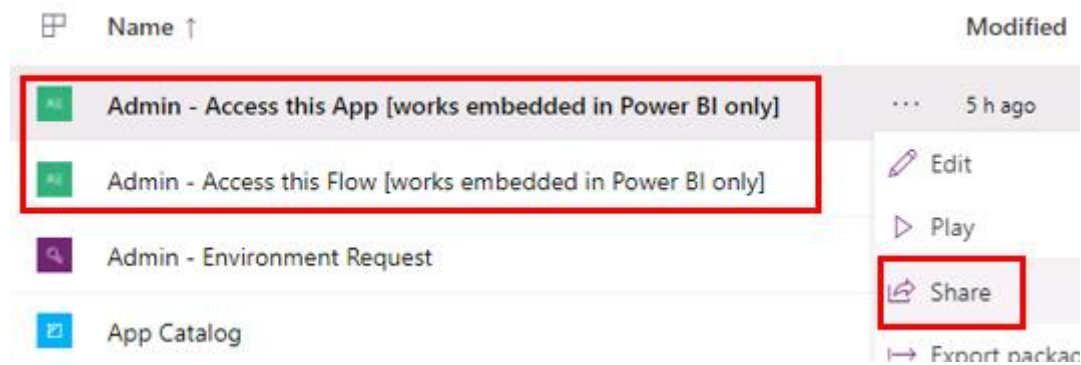


16. Select **Apps** from the left menu



17. Share the following Canvas Apps with MOD Administrator account granting **co-owner** permissions, so that in next exercise MOD Administrator can use these apps in Power BI dashboard

- **Admin - Access this App [works embedded in Power BI only]**
- **Admin - Access this Flow [works embedded in Power BI only]**









18. Go back to browser tab where you have CoE Setup and Upgrade Wizard open and click **Refresh**. If all the three flows are completed then click **Next** to move to the next step otherwise you need to wait until flows are completed. Use Refresh to see when flows are finished. This is also good time to have a short break if you need to wait the flows 😊

Run setup flows

The flows below configure mandatory data in your environment, and have to finish running before proceeding with the setup. During initial setup, these may take **15 mins** to run - select 'Refresh' until you see the flows running and until they've successfully finished running.

Refresh

 Admin Sync Template v3 (Connectors) (approx. runtime 15 mins)	Last run: 4/25/2023 6:27 AM	
 Admin Sync Template v3 CoE Solution Metadata (approx. runtime 5 mins)	Last run: 4/25/2023 6:14 AM	
 Admin Sync Template v3 Configure Emails (approx. runtime 3 mins)	Last run: 4/25/2023 6:09 AM	

BackNext

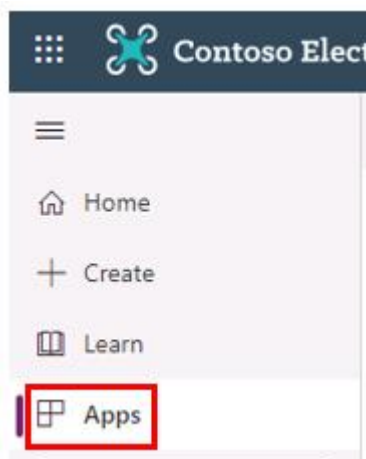
Activate Windows

19. Setup wizard will now enabled most of the inventory and helper flow which takes normally 5-10 minutes.

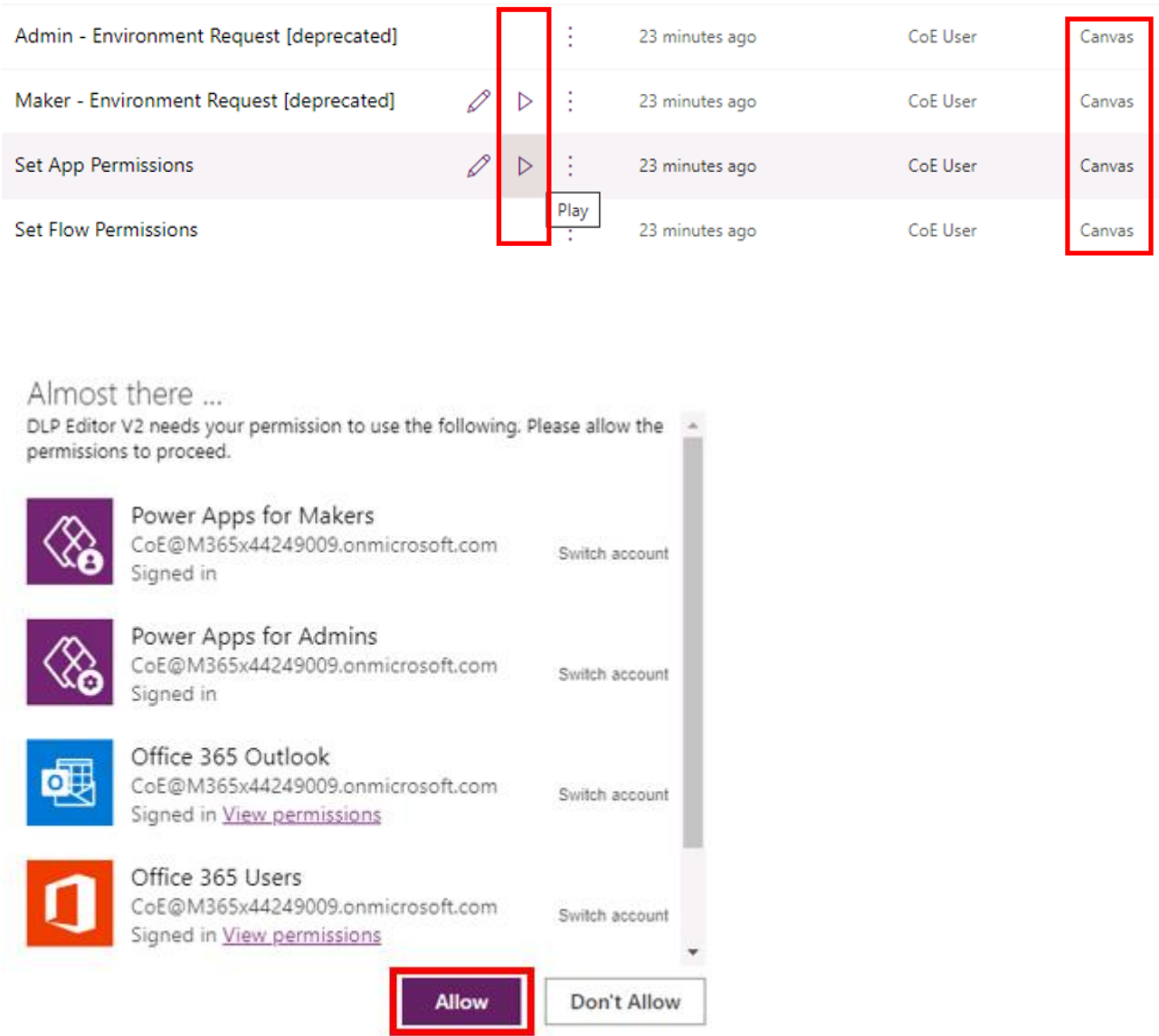
NOTE! while waiting this step to complete we can configure Audit Log flows, **so continue to next step**



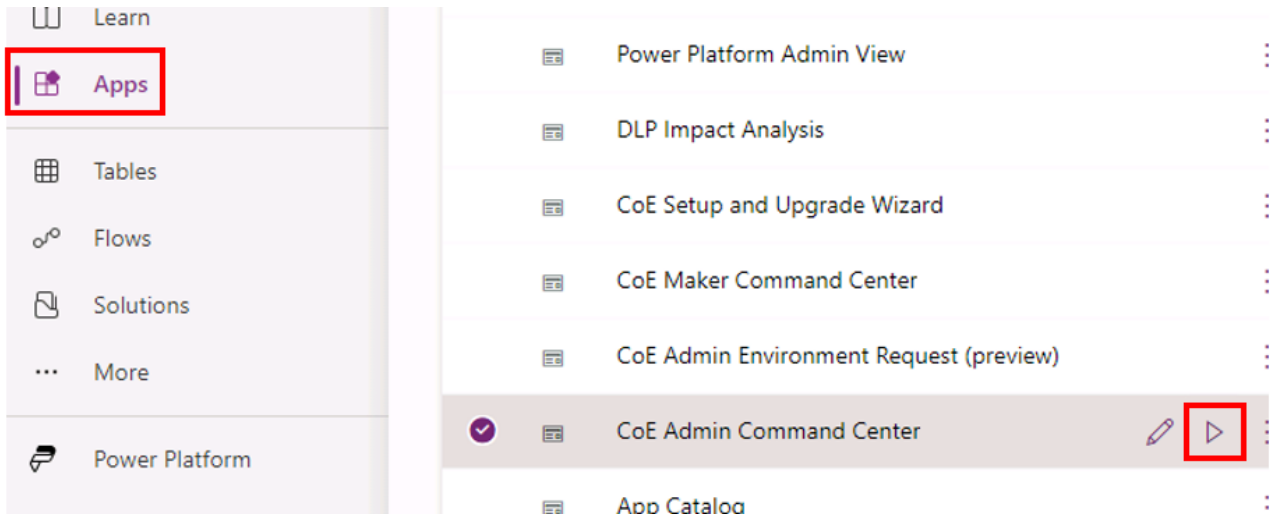
20. Move to browser tab where you have Power Apps portal open (from where you opened the CoE Setup and Upgrade Wizard) and from the left menu select **Apps**



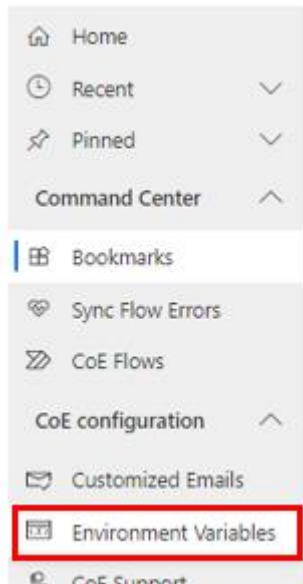
21. Launch some CoE **Canvas Apps** few times to generate Launch PowerApp audit log events.



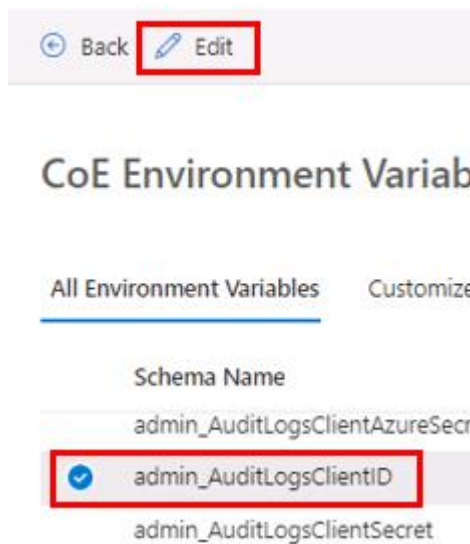
22. Go back to **Apps** and open **CoE Admin Command Center**.



23. Select **Environment Variables** from the left menu under CoE Configuration



24. Select **admin_AuditLogsClientID** and click **Edit**



25. Copy-paste the **Client ID** value from the notepad to the text field and click **Save**

Configure Environment Variable

Audit Logs - ClientID

AuditLogs - Client ID of the Office 365 Management
API Azure AD service principal

Value

2ac5454e-c9dc-4a45-8c82-1255f85b617e

Revert

Save

26. Do the same for **admin_AuditLogsClientSecret**. Copy-paster the **Client Secret** value from the notepad to the value of the environment variable and click **Save**

Back Edit

CoE Environment Variab

All Environment Variables

Customize

Schema Name

admin_AuditLogsClientAzureSecr

admin_AuditLogsClientID

☒ admin_AuditLogsClientSecret

admin_CommandCenterApplicati

Configure Environment Variable

Audit Logs - Client Secret

AuditLogs - Client secret of the Office 365 Management API Azure AD service principal

Value

cfH8Q~R~v0TLRXpL78CvKTjs2Ypj0~d_iL5oeba8

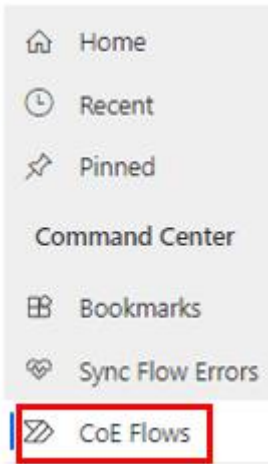
Revert Save

27. Note that there are **admin_AuditLogsAudience** and **admin_AuditLogsAuthority** variable which are already set by the Setup Wizard.

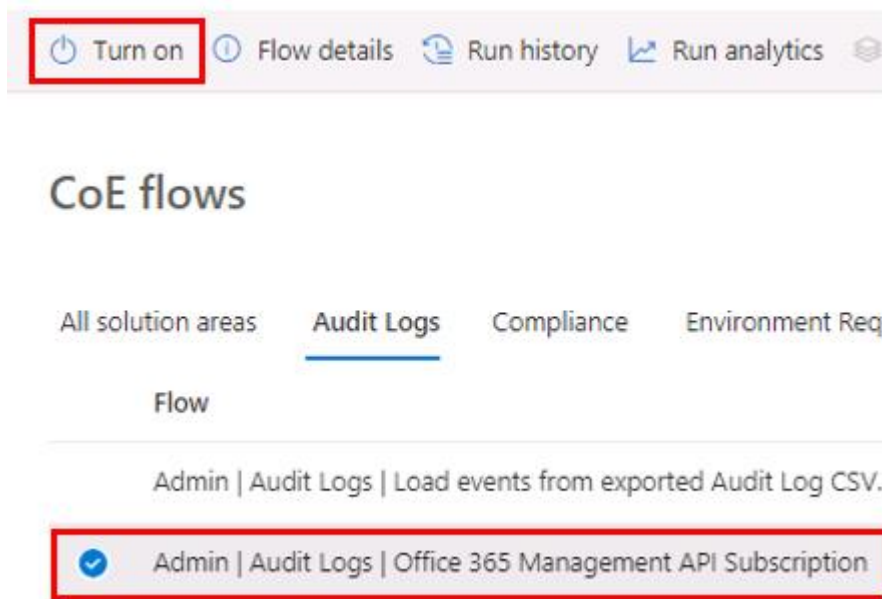
Schema Name	Name	Reset Val...	Value in use	Custom
admin_AuditLogsAudience	Audit Logs - Audience		https://manage.office.com	✓
admin_AuditLogsAuthority	Audit Logs - Authority		https://login.windows.net	✓
admin_AuditLogsClientAzureSecret	Audit Logs - Client Azure Sec...			

admin_AuditLogsClientAzureSecret is used when the Client Secret is stored in Azure KeyVault which we do not use in this lab

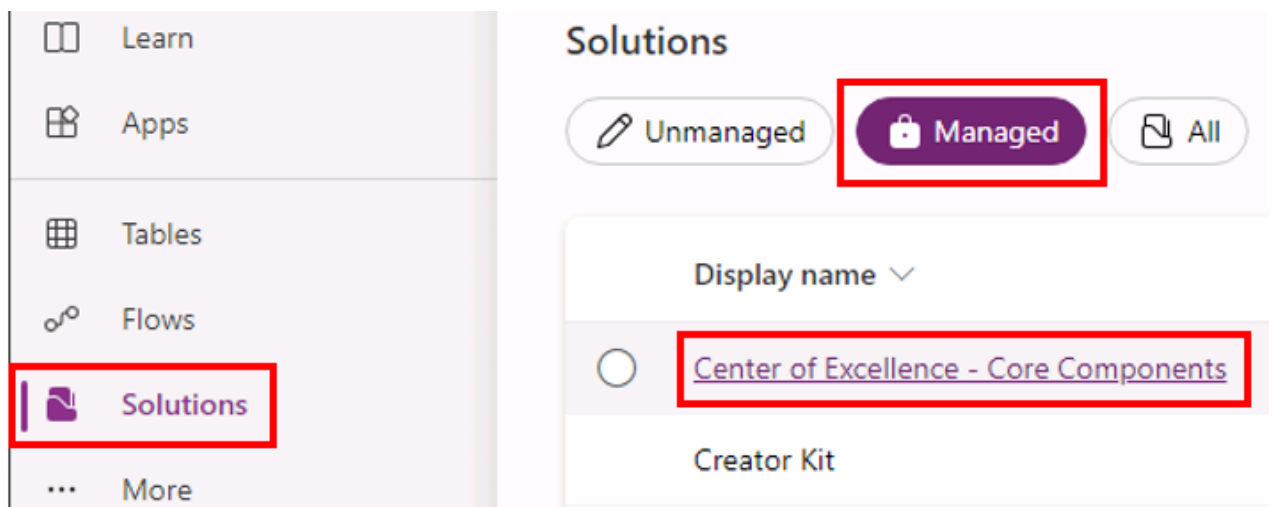
28. Select **CoE Flows** from the left menu



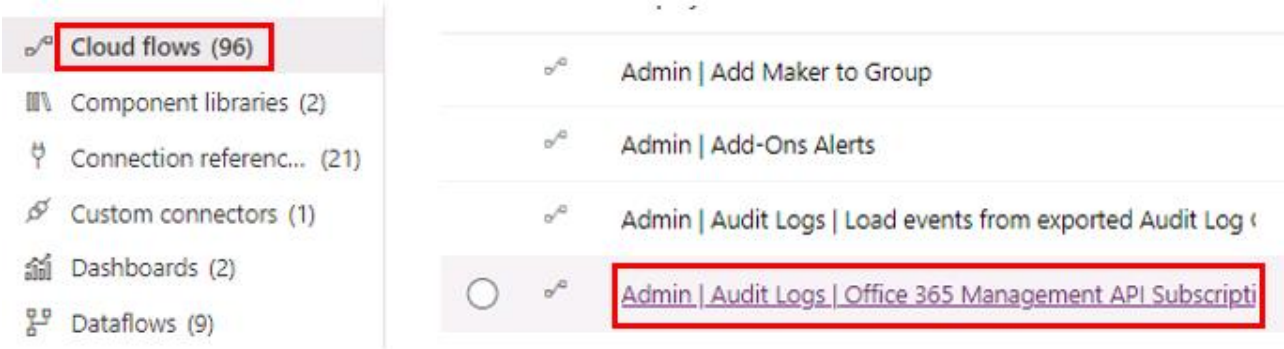
29. Select **Admin | Audit Logs | Office 365 Management API Subscription** flow and click **Turn on**



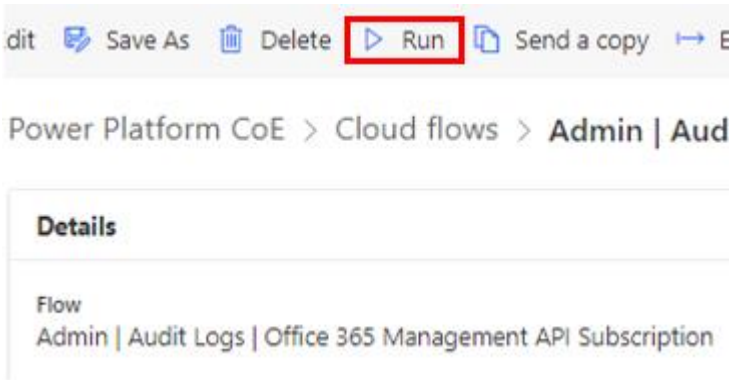
30. When flow is turned on, switch to another browser tab from where you opened this app and select **Solutions > Center of Excellence - Core Components**



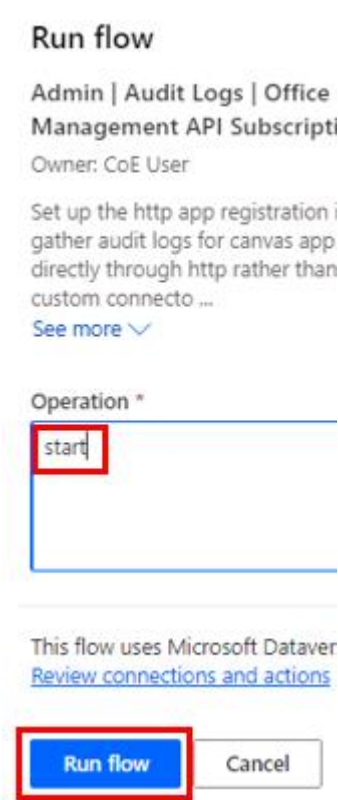
31. Select Cloud Flows and click **Admin | Audit Logs | Office 365 Management API Subscription** to open the flow



32. Click **Run**



33. Provide value **start** for the Operation parameter and click **Run flow**



34. This flow will start the Office 365 Management API subscription for the tenant to allow calls to be made against the API. Verify that flow runs successfully. It should take only few seconds to complete

28-day run history ⓘ			Edit columns	Refresh	All
Start	Duration	Status			
May 22, 01:49 PM (1 min ago)	00:00:02	Succeeded			










35. Move back to **CoE Setup and Upgrade Wizard** and see has the step we are waiting already finished. If **not** then wait until it is finished before moving to next step



36. You should see this screen, when previous step is finished.

Run inventory flows

There are several flows required to gather the inventory and store it in Dataverse. Check to make sure all flows are on before proceeding.

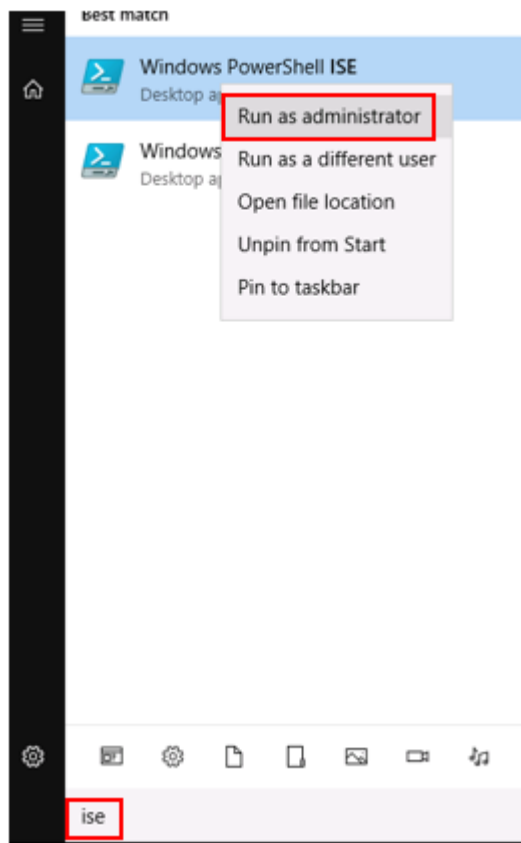
 SetupWizard>CallOrphanFlow	<input type="checkbox"/> Off
 Admin Add Maker to Group	<input type="checkbox"/> Off
 Admin Sync Template v3 (Ai Models)	<input type="checkbox"/> Off
 Admin Sync Template v3 (Business Process Flows)	<input type="checkbox"/> Off
 Admin Sync Template v3 (Connection Identities)	<input type="checkbox"/> Off
 Admin Sync Template v3 (Custom Connectors)	<input type="checkbox"/> Off
 Admin Sync Template v3 (Desktop Flow - Runs)	<input type="checkbox"/> Off
 Admin Sync Template v3 (Desktop flows)	<input type="checkbox"/> Off
 Admin Sync Template v3 (Environment Properties)	<input type="checkbox"/> Off

Back

Next

[!hint] **IMPORTANT:** In the next steps we execute a PowerShell script to be able to run CoE inventory sync flows in the lab environment. This is **only** needed here and should not be used in any other environments

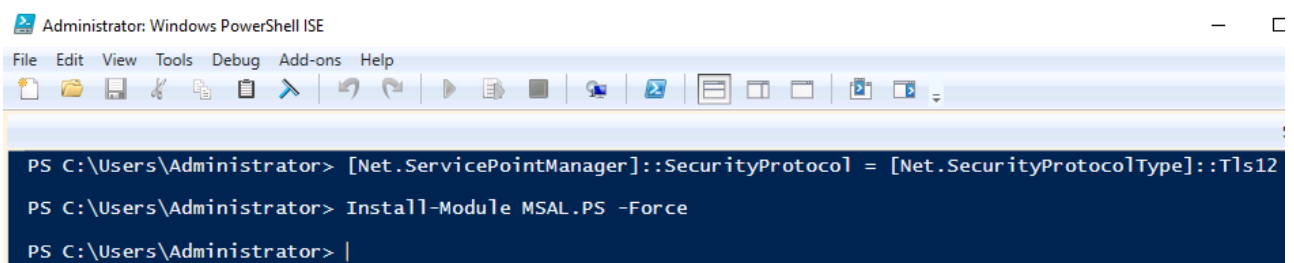
37. Open PowerShell ISE as Administrator



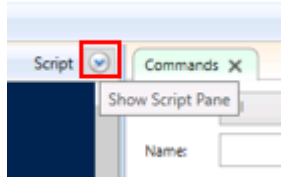
38. Paste and run the following commands in PowerShell ISE console

```
[Net.ServicePointManager]::SecurityProtocol =  
[Net.SecurityProtocolType]::Tls12
```

```
Install-Module MSAL.PS -Force
```



39. Open the **Script Pane**



40. Paste this script to Script Pane. **NOTE!** You need to wait until everything is copied to ISE

```
# COPY ENVIRONMENT URL FROM PPAC AND PASTE HERE
$EnvironmentUrl = ""

$connectionDetails = @{
  'TenantId'      = "**TENANTNAME.onmicrosoft.com**"
  'ClientId'      = '51f81489-12ee-4a9e-aaae-a2591f45987d'
  'Interactive'   = $true
  'RedirectUri'   = 'https://localhost'
  'Scopes'       = $EnvironmentUrl + '.default'
}

$t = Get-MsalToken @connectionDetails

$authHeader = @{
  "Authorization" = $t.CreateAuthorizationHeader()
  "Content-type"  = "application/json"
  "Accept"       = "application/json"
}

$resSolution = Invoke-RestMethod -Uri
"$($EnvironmentUrl)api/data/v9.2/solutions?`$filter=(uniquename eq
'CenterofExcellenceCoreComponents')" -Method Get -Headers $authHeader

$solution = $resSolution.value

$resObjects = Invoke-RestMethod -Uri
"$($EnvironmentUrl)api/data/v9.2/msdyn_solutioncomponentsummaries?`$filter=
(msdyn_solutionid eq $($solution.solutionid) and msdyn_componenttype eq 29)"
-Method Get -Headers $authHeader

$objects = $resObjects.value | Sort-Object msdyn_componenttype

foreach($o in $objects)
{
  $reqFlow = "$($EnvironmentUrl)api/data/v9.2/workflows($($o.msdyn_objectid))"
  $resFlow = Invoke-RestMethod -Uri $reqFlow -Headers $authHeader -Method Get

  $clientData = $resFlow.clientdata

  if ($clientData -like "*`"minimumItemCount`":10000*")
  {
```

```

if ($resFlow.name -ne "Admin | Sync Template v3 CoE Solution Metadata")
{
if ($resFlow.name -like "Admin | Sync Template*" -or $resFlow.name -like
"Admin | Audit Logs | Sync*")
{
Write-Host $resFlow.name

$clientData = $clientData.Replace("`"minimumItemCount`":100000",
"`"minimumItemCount`":5000")

$clientData = $clientData | ConvertTo-Json -Depth 100

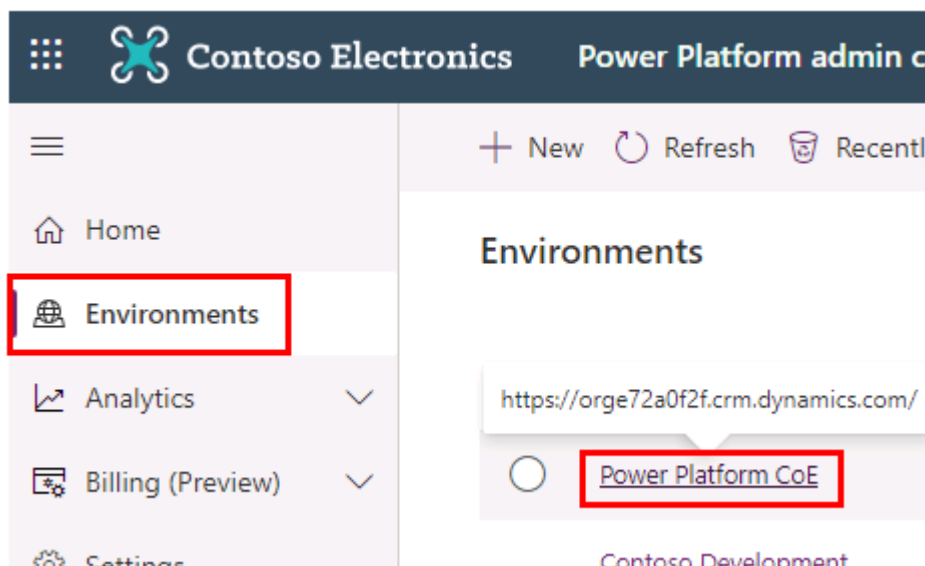
$b = '{"statecode": 1, "clientdata": ' + $clientData + '}'

Invoke-RestMethod -Uri
"($($EnvironmentUrl)api/data/v9.2/workflows($($o.msdyn_objectid))" -Method
Patch -Headers $authHeader -Body $b
}
}
}
}

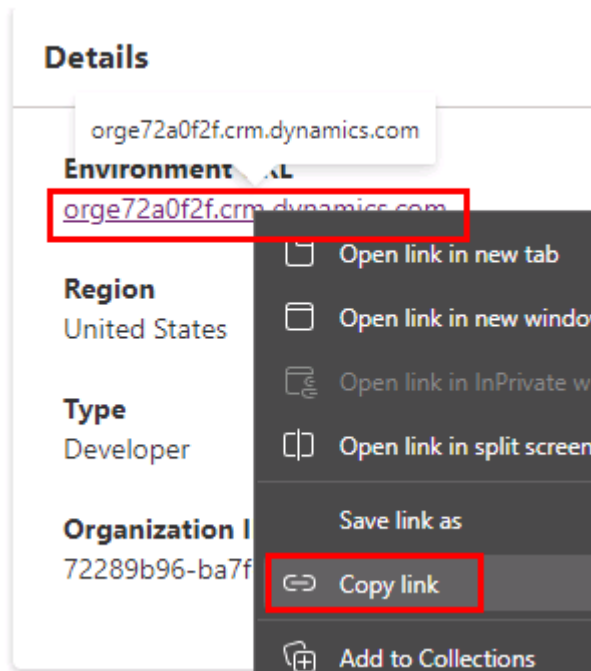
```

41. Open Power Platform Admin Center <https://aka.ms/ppac>

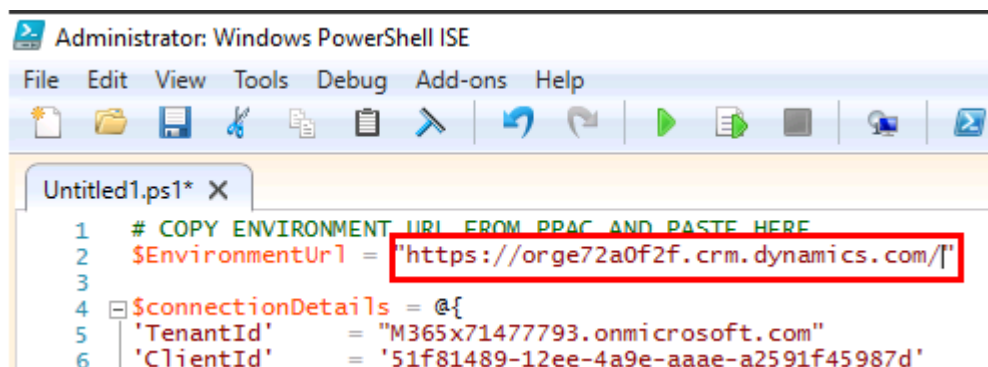
42. Select **Environments** and click **Power Platform CoE** environment



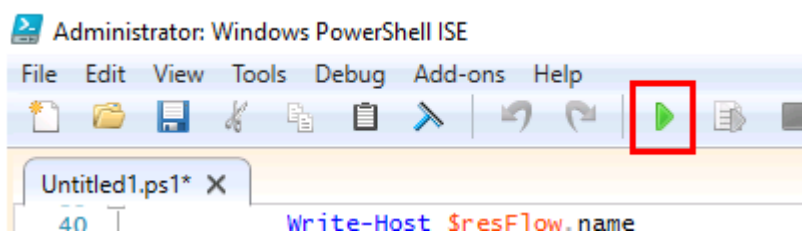
43. Right click Environment Url and click **Copy link**



44. Move back to PowerShell ISE and paste the environment url to the value of **\$EnvironmentUrl** variable like below



45. Run the script and login using **CoE User** account



coe@TENANTNAME.onmicrosoft.com

MOD Administrator Password

Sign in to your account



Sign in

coe@M365x21855573.onmicrosoft.com

[Can't access your account?](#)

Back

Next

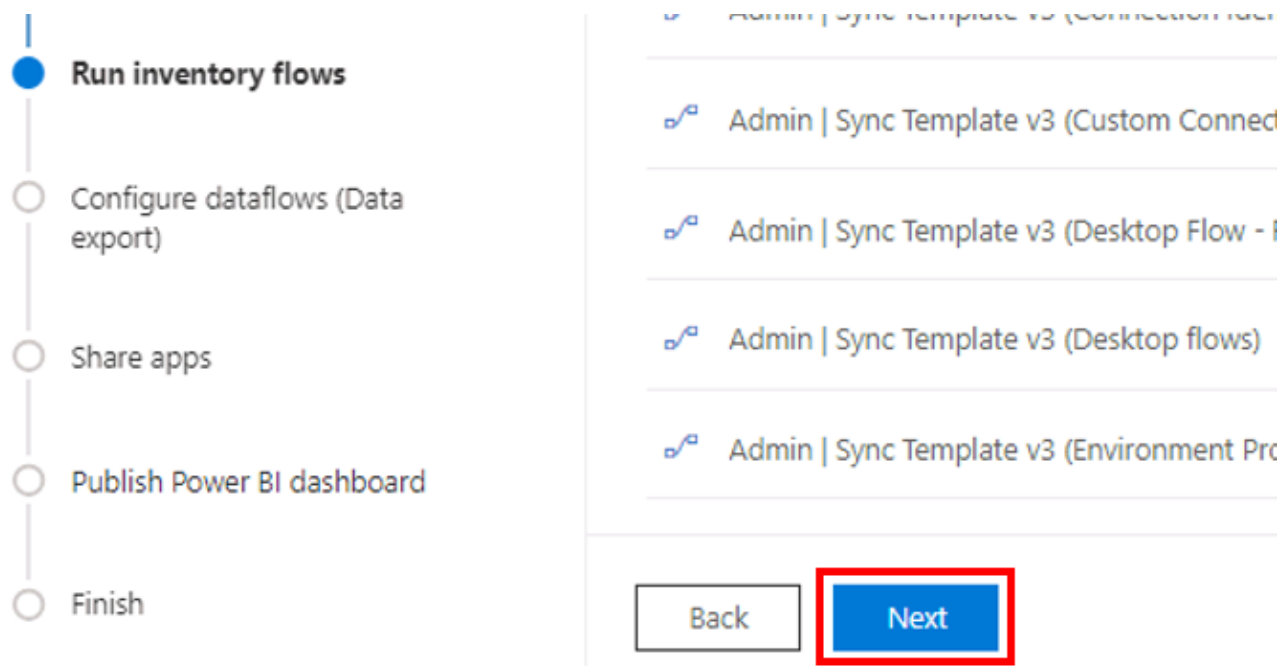
Contoso

46. Wait until script run is finished

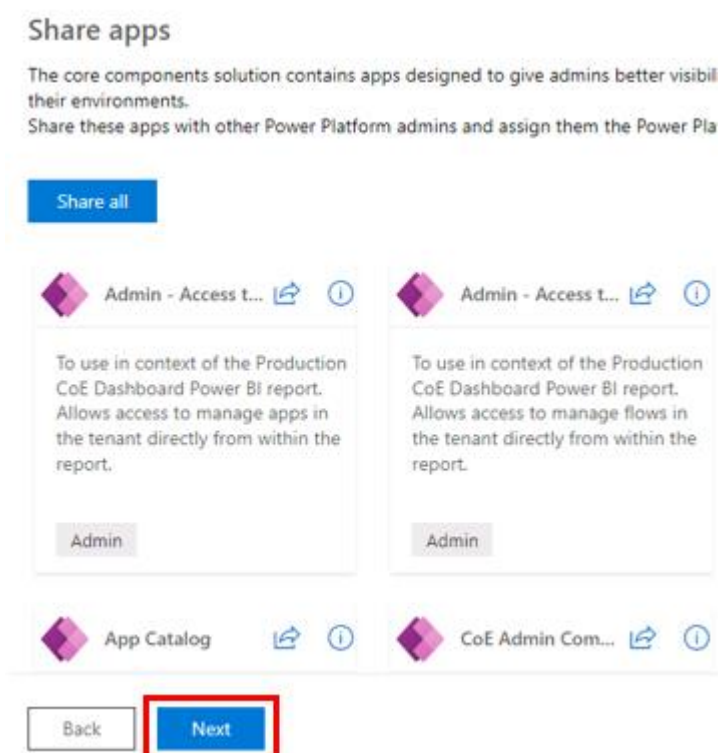
```
<
Admin | Sync Template v4 (BYODL Flow Properties)
Admin | Sync Template v4 (BYODL App Properties)
Admin | Sync Template v4 (Apps)
Admin | Sync Template v3 (Solutions)
Admin | Sync Template v3 (PVA)
Admin | Sync Template v3 (Model Driven Apps)
Admin | Sync Template v3 (Flow Action Details)
Admin | Sync Template v3 (Environment Properties)
Admin | Sync Template v3 (Driver)
Admin | Sync Template v3 (Desktop flows)

PS C:\Users\Administrator>
```

47. All the inventory and helper flows should be automatically enabled and first inventory running. Click **Next**



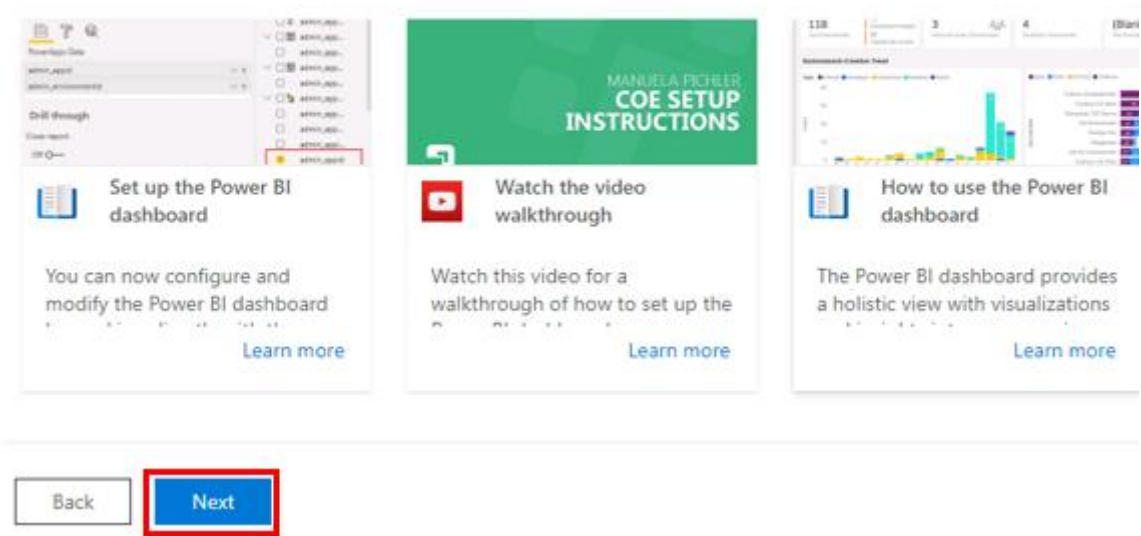
48. In this step you can share CoE Kit Power Apps to corresponding persona groups we created in the beginning. For the lab we do not need to share the apps but if you want you can test how the sharing works. Click **Next**.



49. In the last step we have instructions how to configure CoE Kit Power BI Dashboard. This can't be done currently in setup wizard and need to be done manually which we will do in the last exercise. Click **Next**

Publish Power BI dashboard

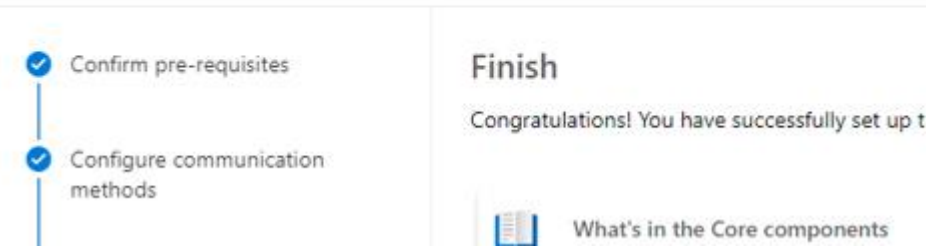
The Power BI dashboard provides a holistic view with visualizations and insights into resources in your tenant: environments, apps, Power Automate flows, connectors, connection references, makers, and audit logs. Configure and publish the dashboard



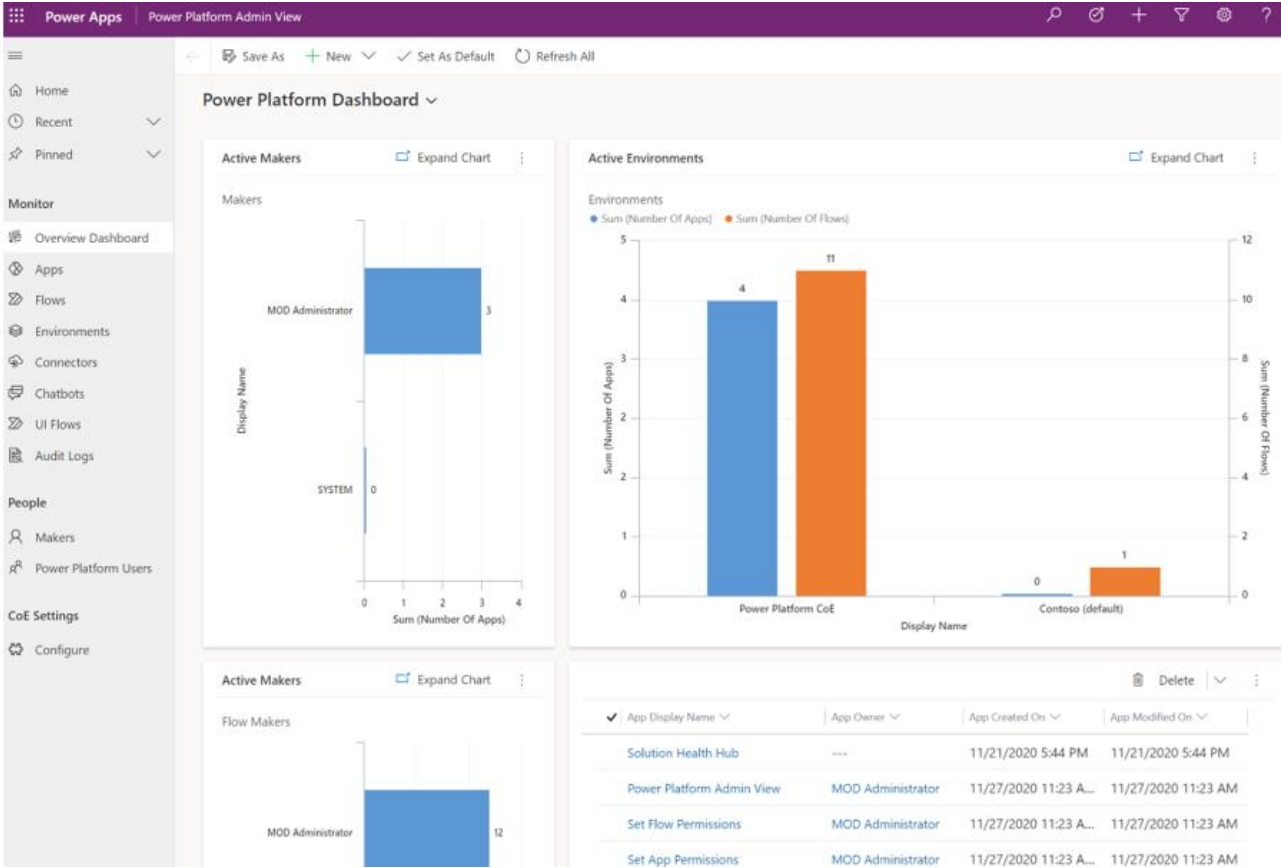
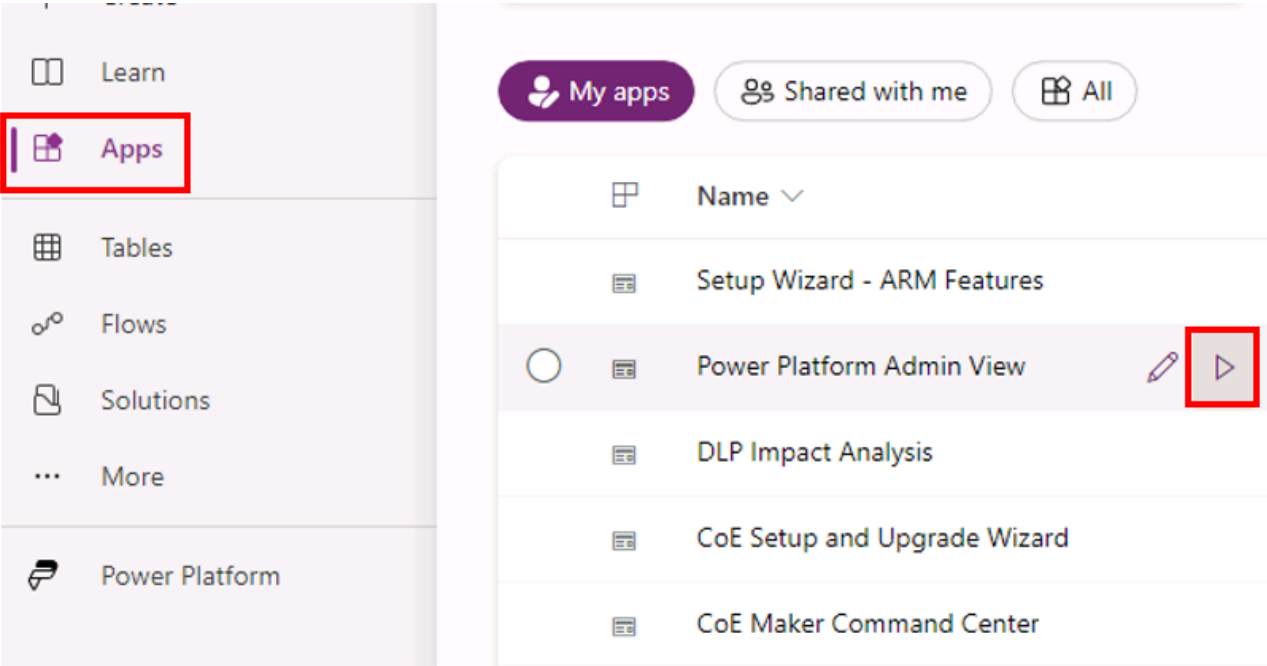
50. Core components setup is now finished, **so you can close the setup wizard**

Center of Excellence Setup Wizard

A setup wizard provides a guided step by step experience to configure the CoE Starter Kit.



51. In the left menu select **Apps** and test the **Power Platform Admin View** to see are the inventory flows already populated environments, apps, flows etc.



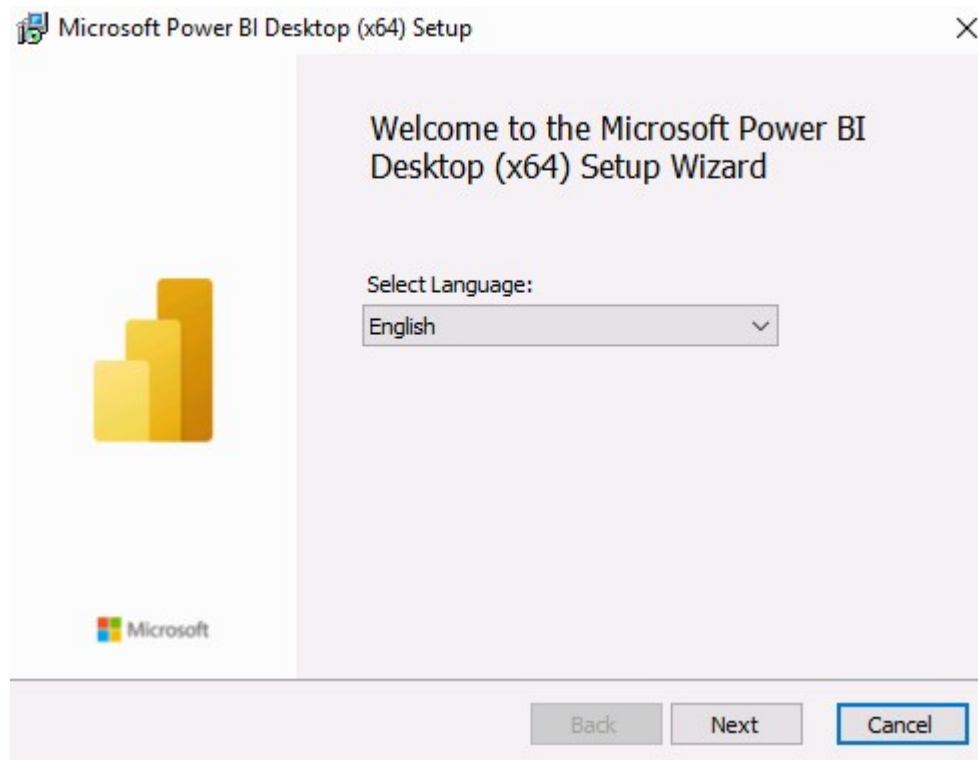
Lab 2

Exercise 1 - Install Power BI Desktop and configure CoE Power BI Dashboard

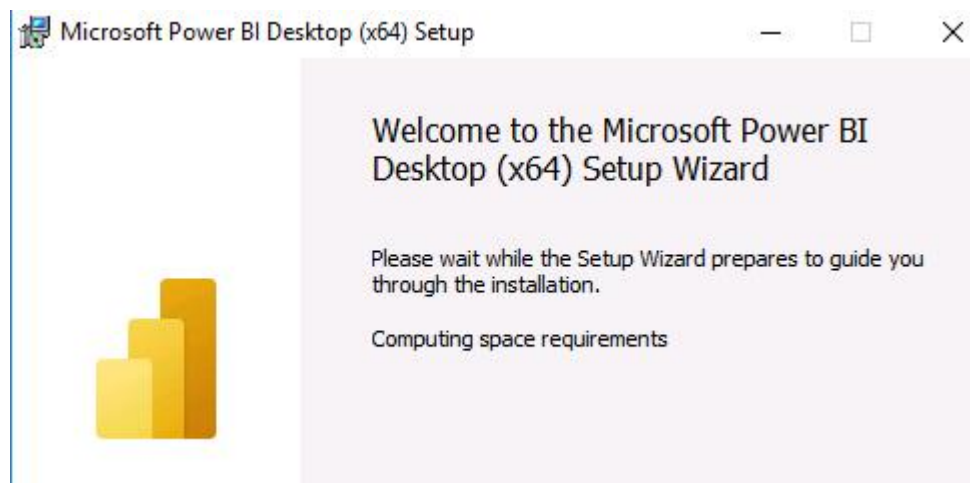
In this exercise we will configure the CoE Power BI Dashboard and familiarize ourselves with what reports are available specifically for Power Platform Administrators.

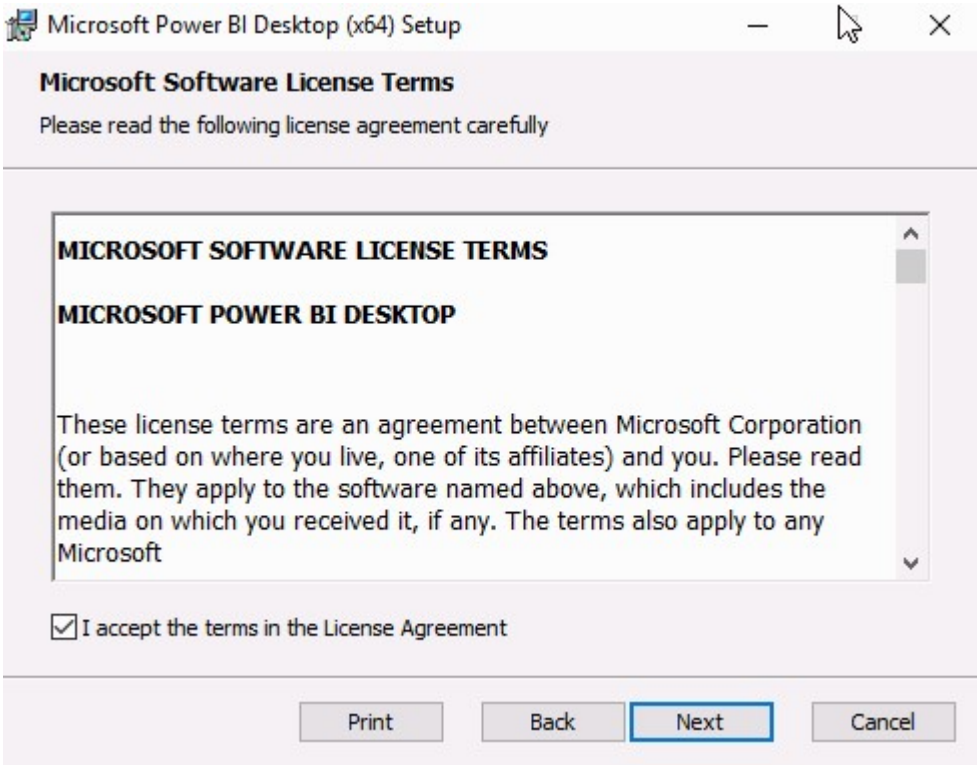
1. Power BI Desktop is installed on **Virtual Machine** but it is not automatically updated to newest version, so download latest version by clicking the below link and install it using default installation settings

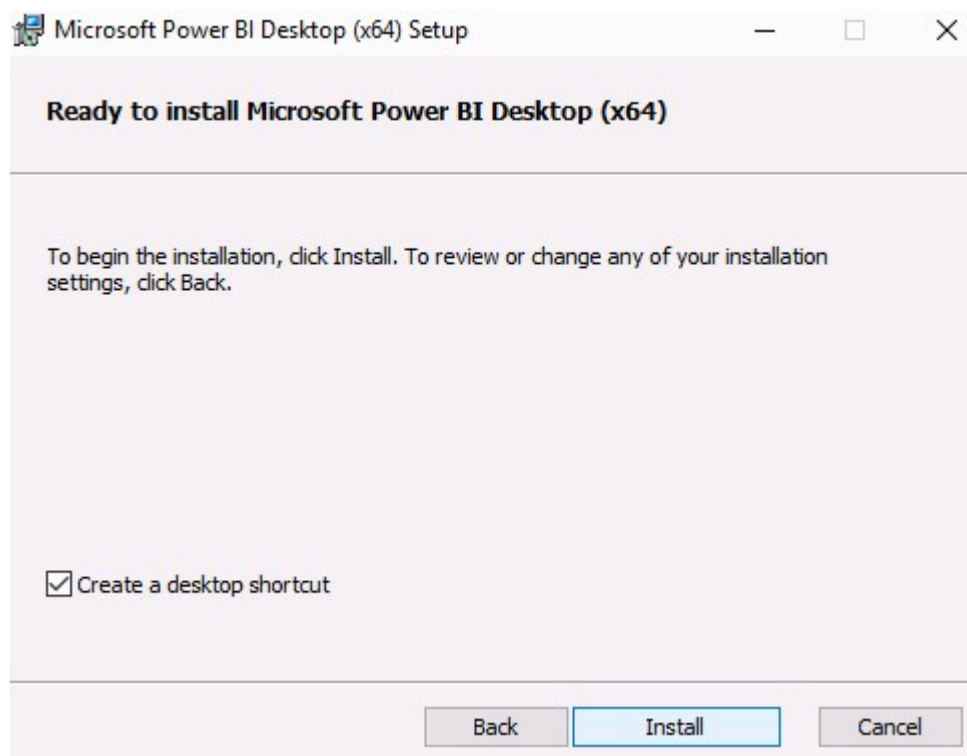
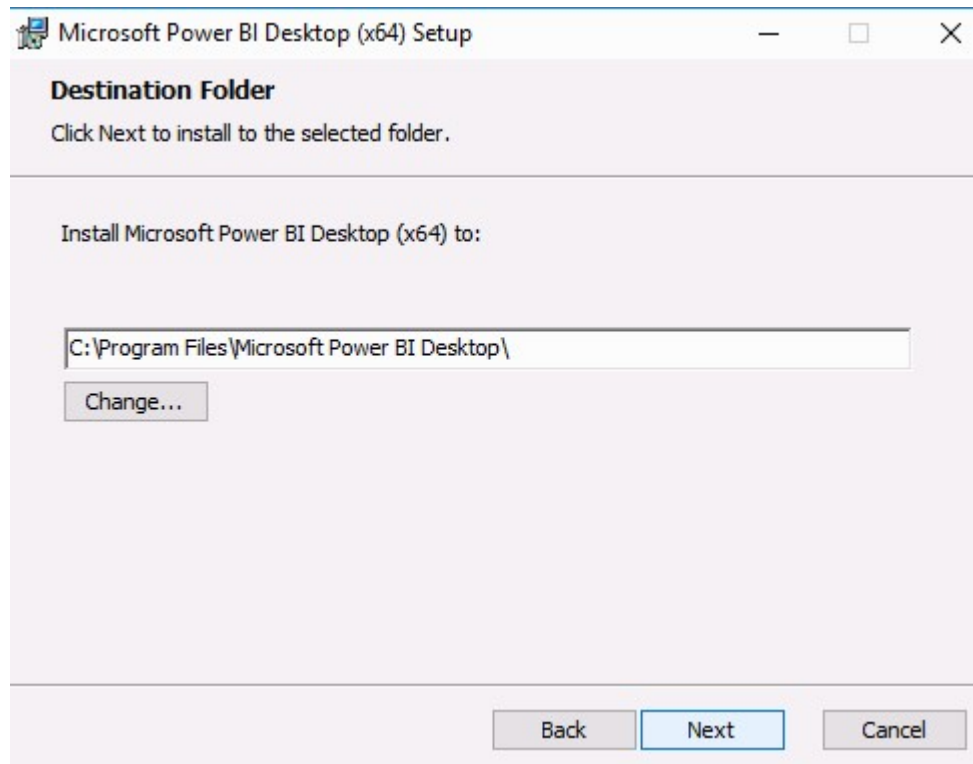
<https://www.microsoft.com/en-us/download/confirmation.aspx?id=58494>



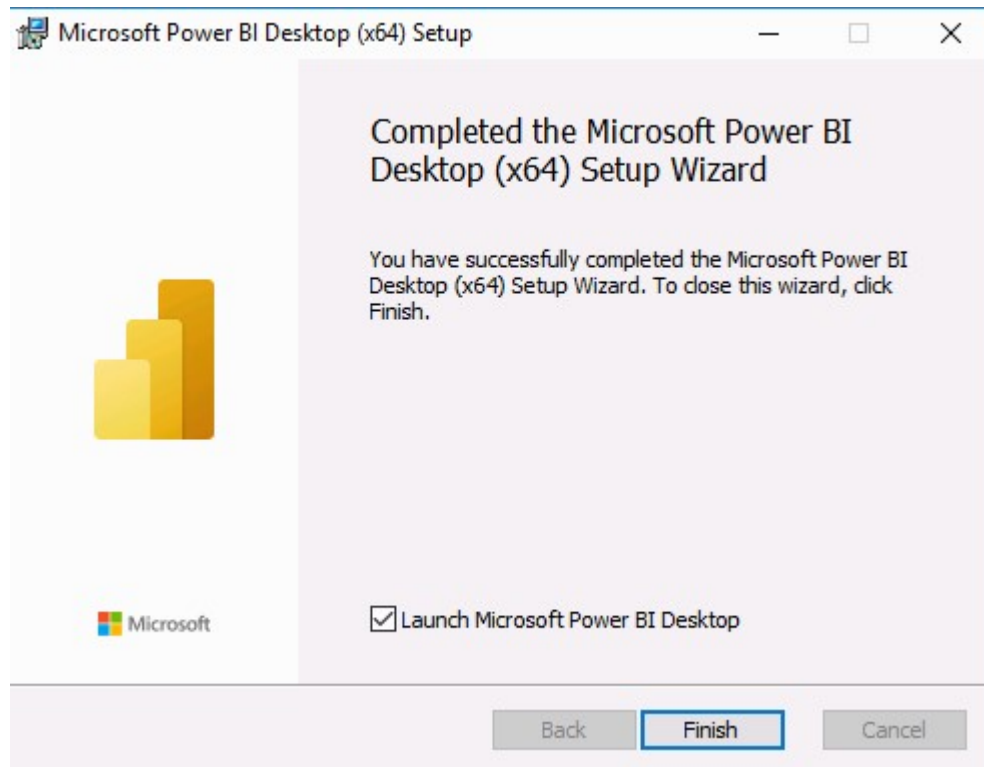
This steps can take some time to complete



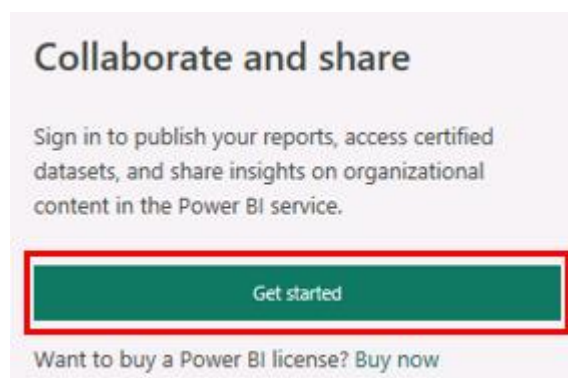




2. When installation is finished, launch the **Power BI Desktop**



3. Click **Get started**



4. Enter MOD administrator email address and click **Continue**

MOD Administrator Username

Enter your email address

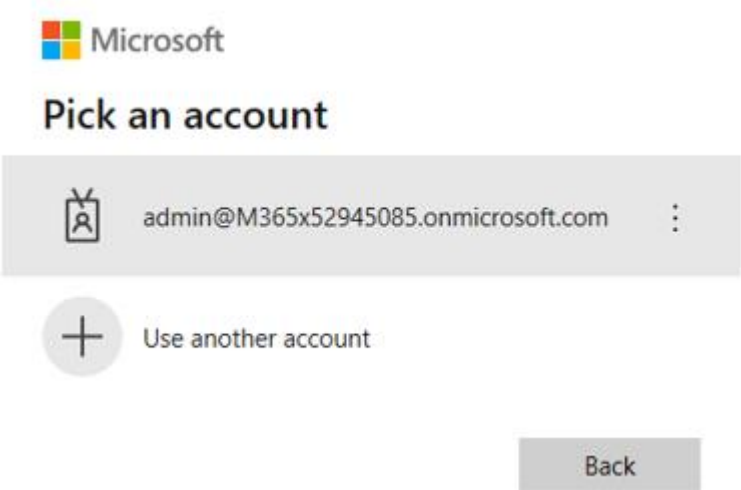
If Power BI's authentication window can't open, we can use a web browser to authenticate. Go to **File > Options and Settings > Security > Authentication Browser** and select the default web browser

Power BI Desktop and the Power BI service work best when you sign in. Sign in to enhance your collaboration and access to content.

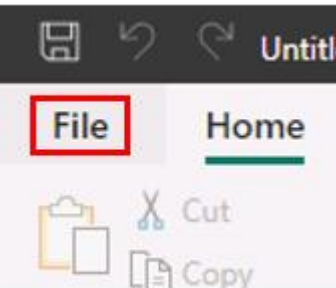
Email:

5. Login using MOD Administrator credentials

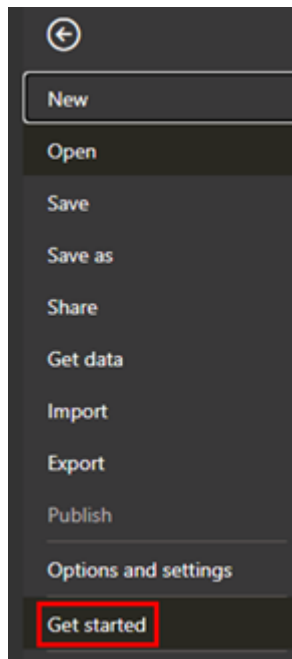
Password: **MOD Administrator Password**



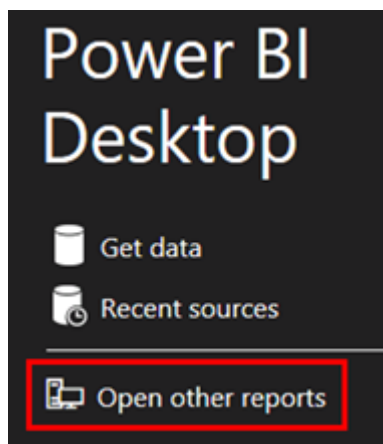
6. Select **File** and **Browse reports**



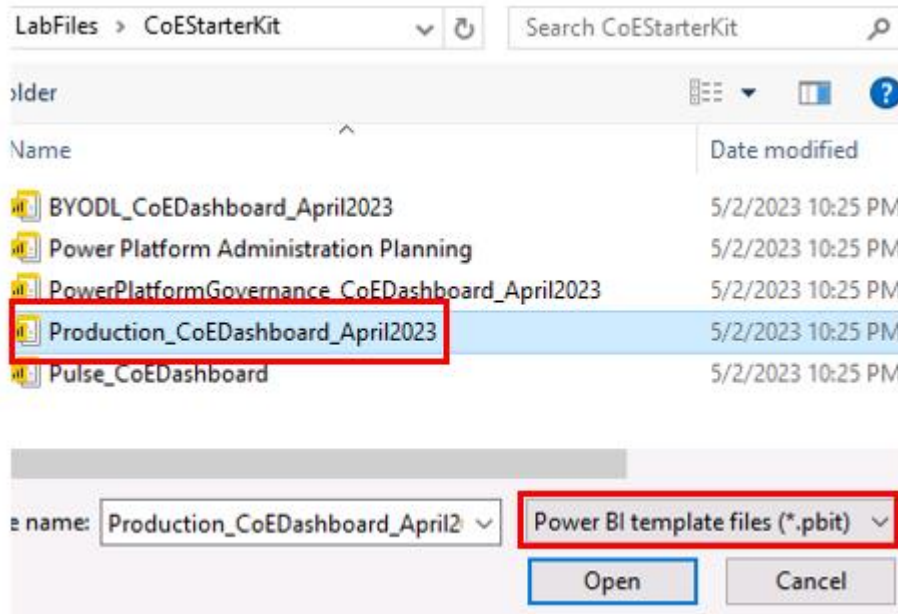
7. Select **Get Started**



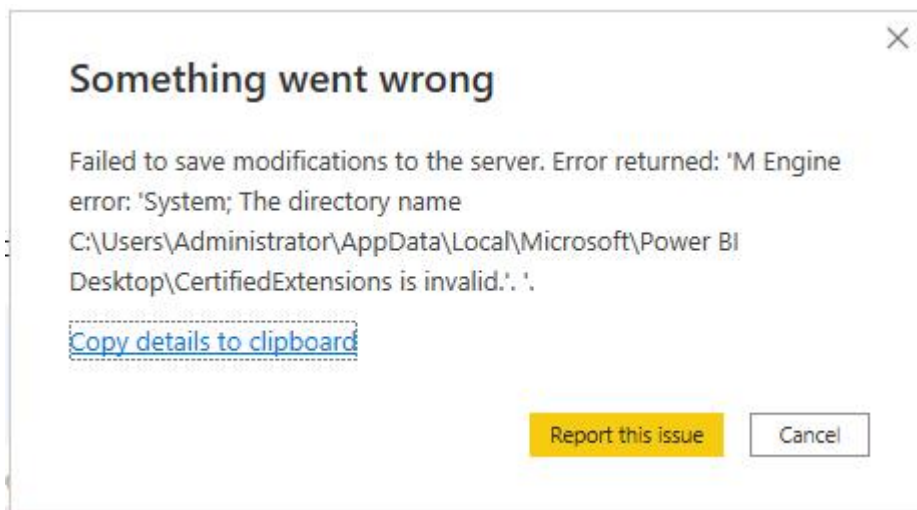
8. Select **Open other reports**



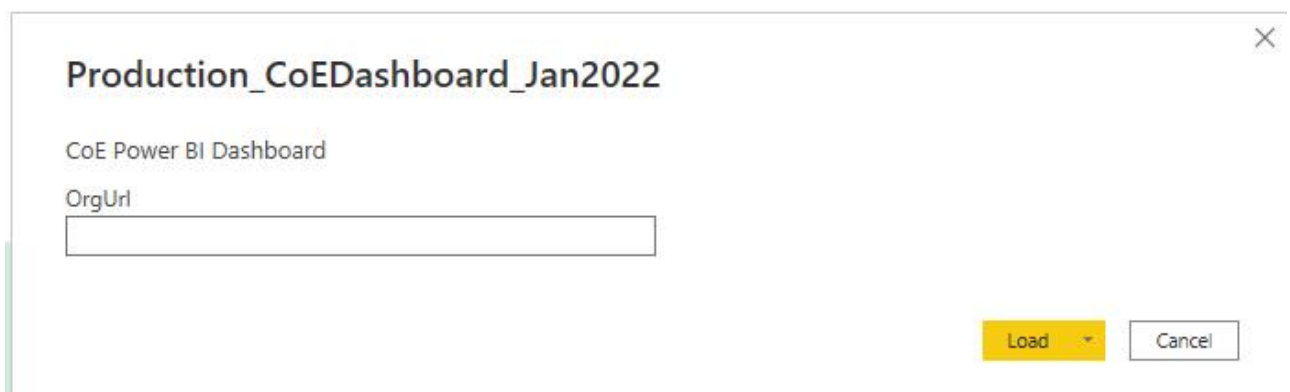
9. Select *.**pbit** files and choose **Production_CoEDashboard_xxxxxx.pbit** from **C:\LabFiles\CoEStarterKit**



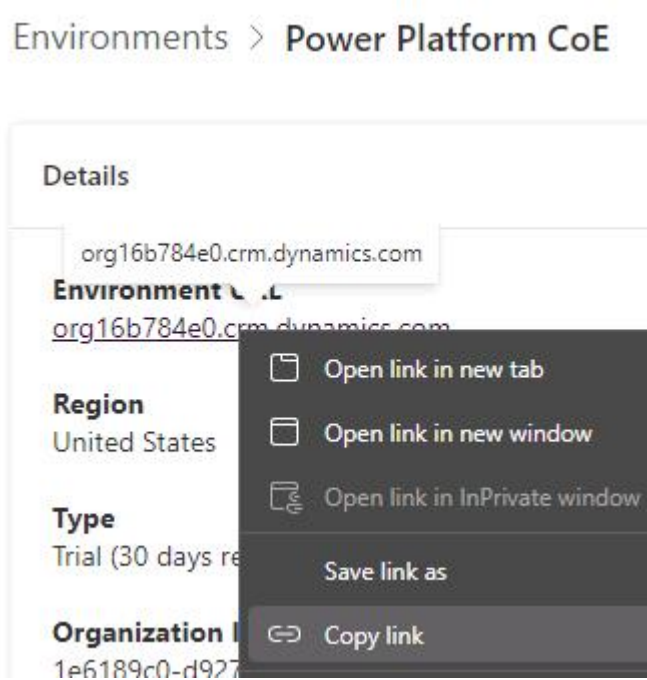
NOTE: If you see this error then just restart Power BI Desktop and try again



10. You will see the following dialog, so in browser open <https://aka.ms/ppac> to get the **OrgUrl**

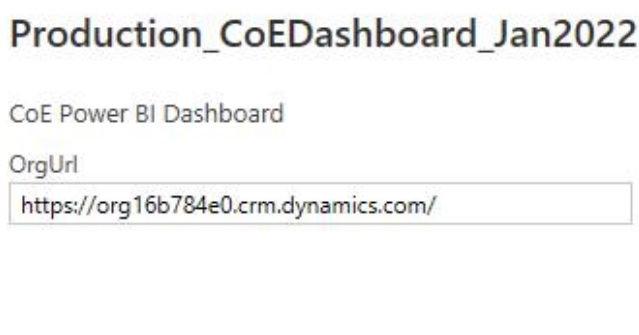


11. Open **Power Platform CoE** environment page in PPAC and copy the **Environment URL**.



12. Paste the Environment URL to the **OrgUrl** field and click **Load**.

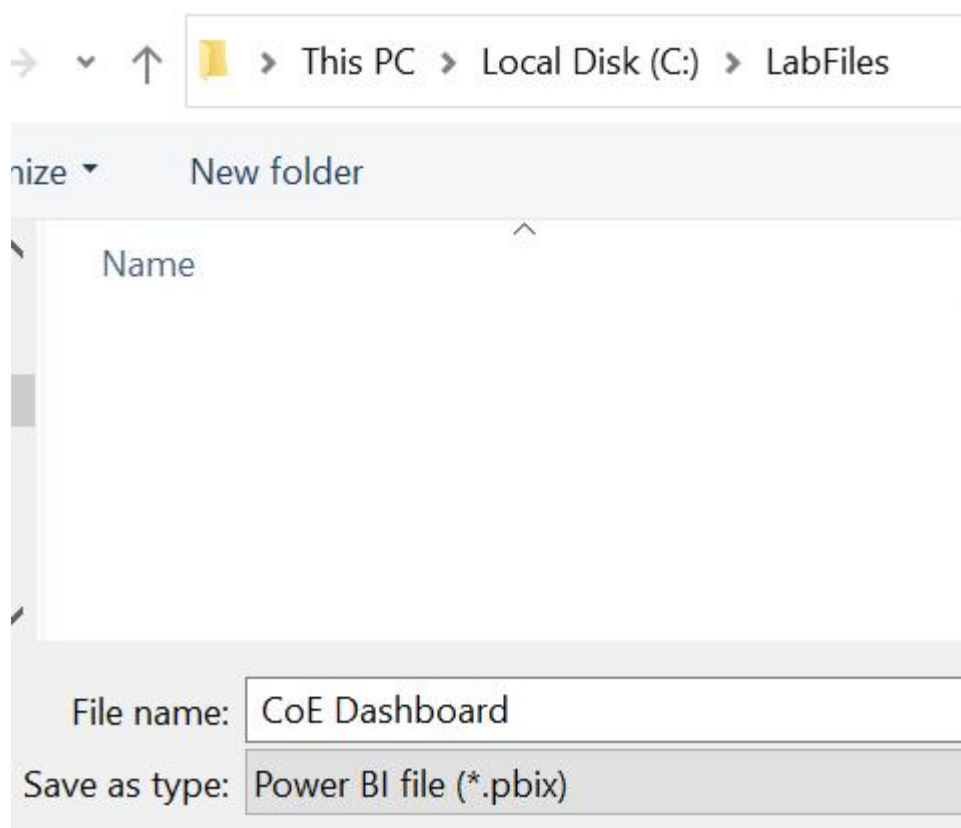
NOTE! If you are prompted to sign in the use **MOD Administrator Username** account and password **MOD Administrator Password** to sign in



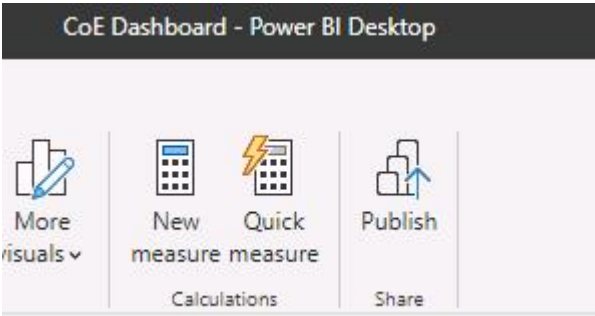
Refresh

- * OrgUrl
Waiting for other queries...
- * Environment
Evaluating...
- * App
Evaluating...
- * Flow
Evaluating...
- * Maker
Evaluating...

13. You should see a dashboard with reports showing information about Apps, Flows and other resources. These are mostly CoE related Flows and Apps because there is no other demo Power Platform content available.
14. **Browse on different pages of the Dashboard to see what kind of reports are available.**
15. Save the report locally, for example to **C:\LabFiles**



16. Publish Dashboard to Power BI Service by clicking in **Publish** on top right corner (or File menu).



17. Type in MOD Administrator account and password and sign in

MOD Administrator Username

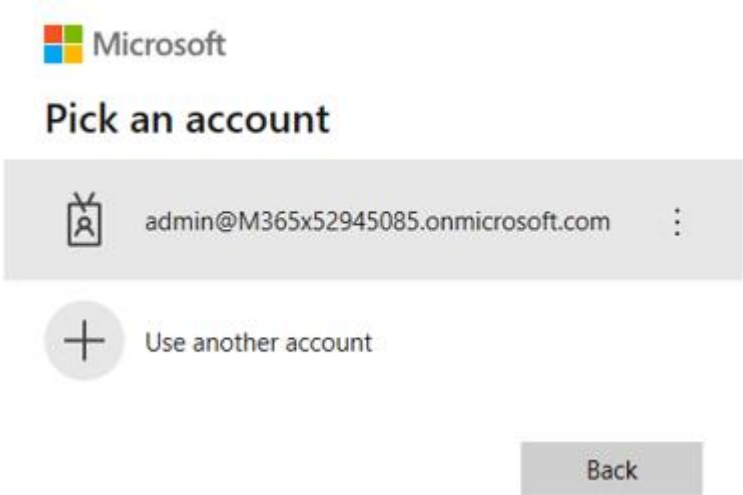
MOD Administrator Password

Enter your email address

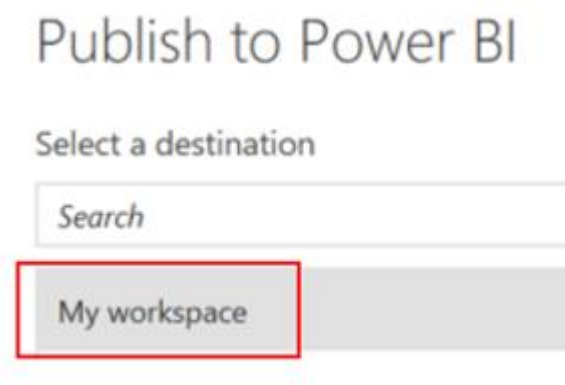
If Power BI's authentication window can't open, we can use a web browser to authenticate. Go to **File > Options and Settings > Security > Authentication Browser** and select your default web browser

Power BI Desktop and the Power BI service work best when you sign in. Sign in to enhance your collaboration and access to content.

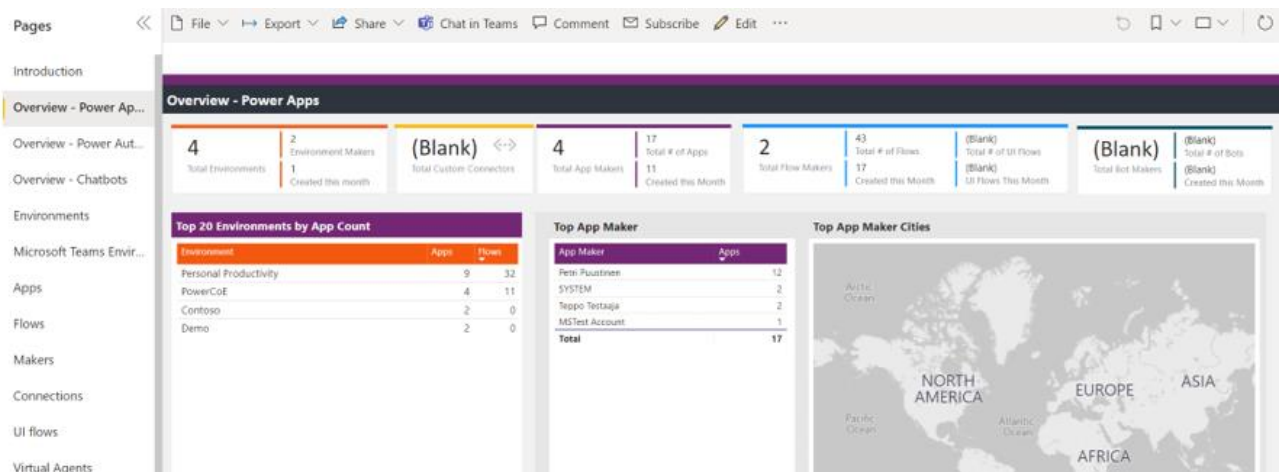
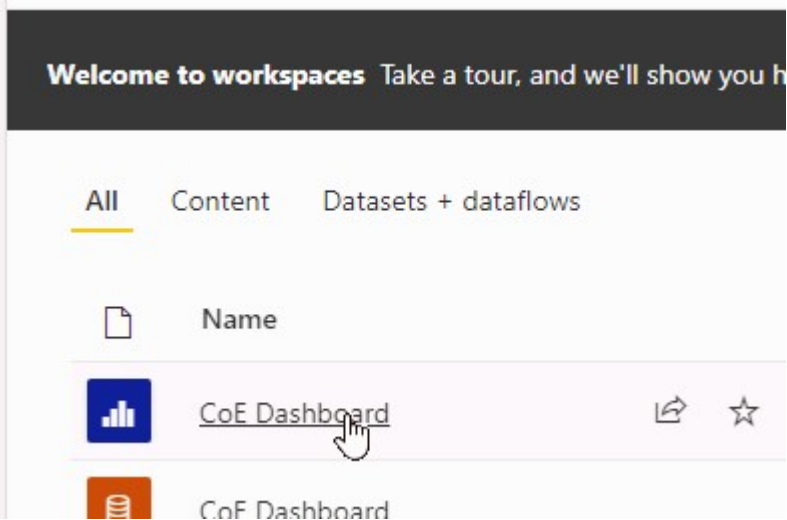
Email:



18. Select **My Workspace**.



19. After dashboard is published, click the link to the report in the dialog

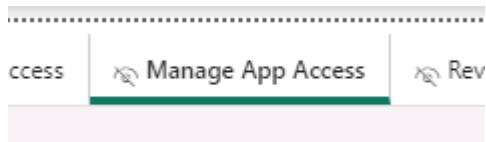


Exercise 2 – Install and use embedded Apps for Power BI Dashboard

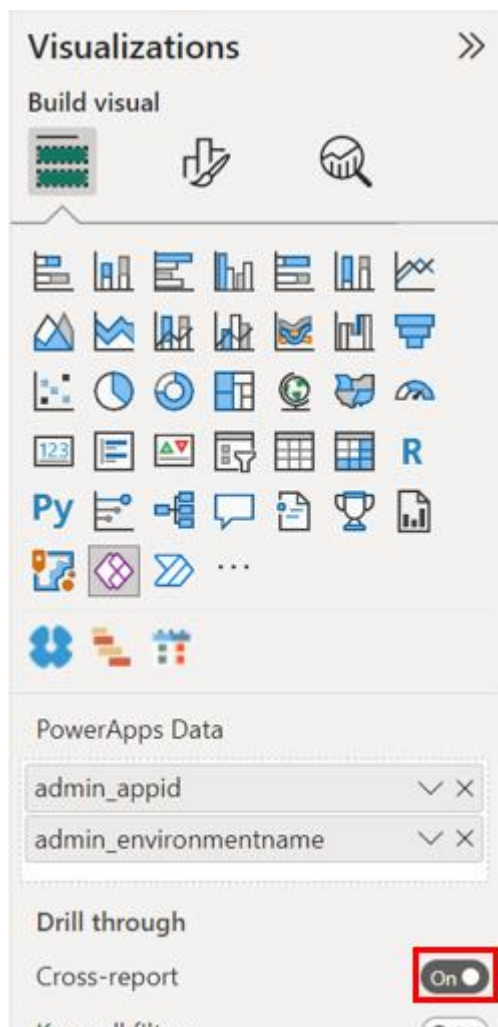
In this exercise we will import Power BI embedded apps for CoE dashboard. With these apps we can take ownership of Apps and Flow directly in the report.

1. Go to Power BI Desktop where you should have the CoE Dashboard still open. If not then open the saved **C:\LabFiles\CoE Dashboard.pbix**

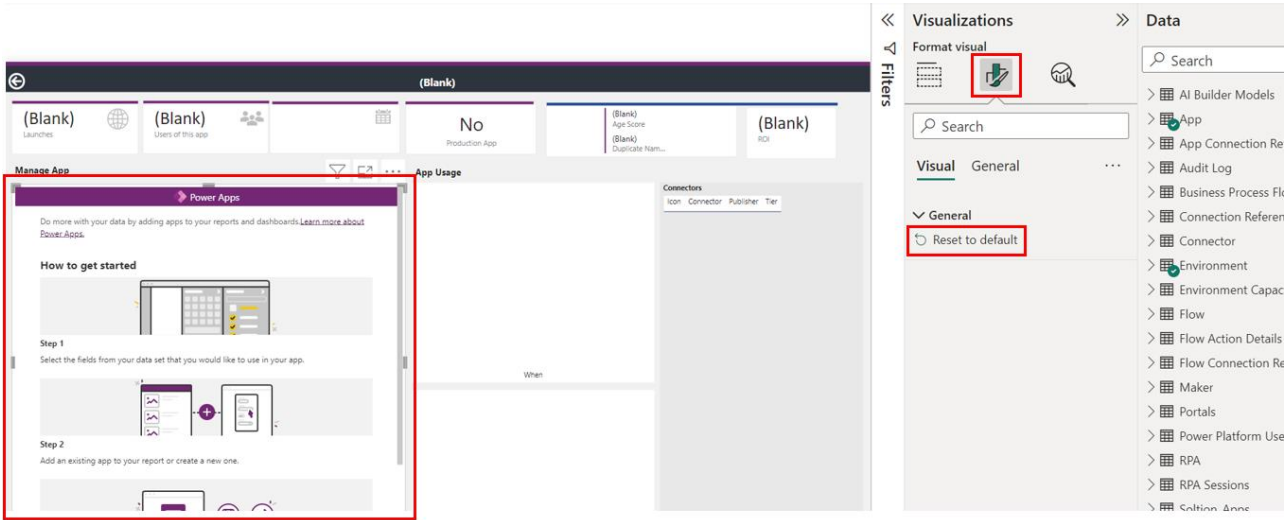
2. Go to the **Manage App Access** page.



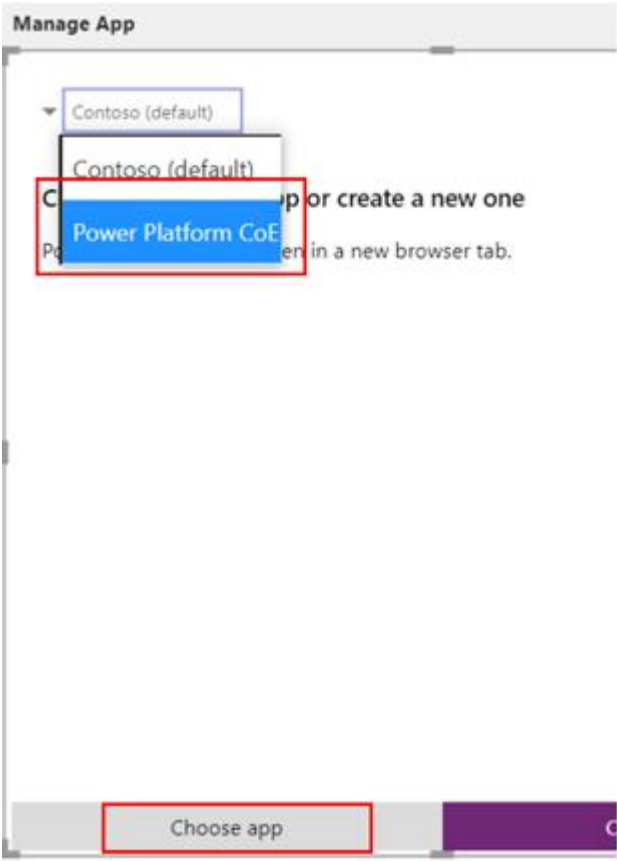
3. Set Cross-report setting to **On**. This allows drill-through functionality from other pages to here for the selected App.



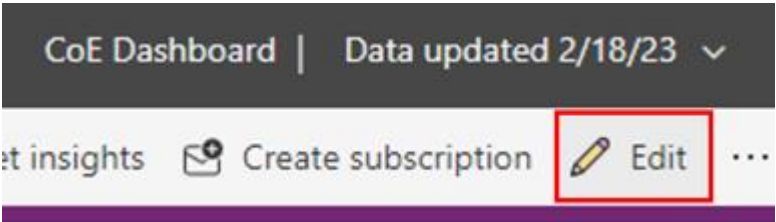
4. Select the Power Apps visual, then open **Format visual** settings in the **Visualizations** menu and click ****Reset to default****

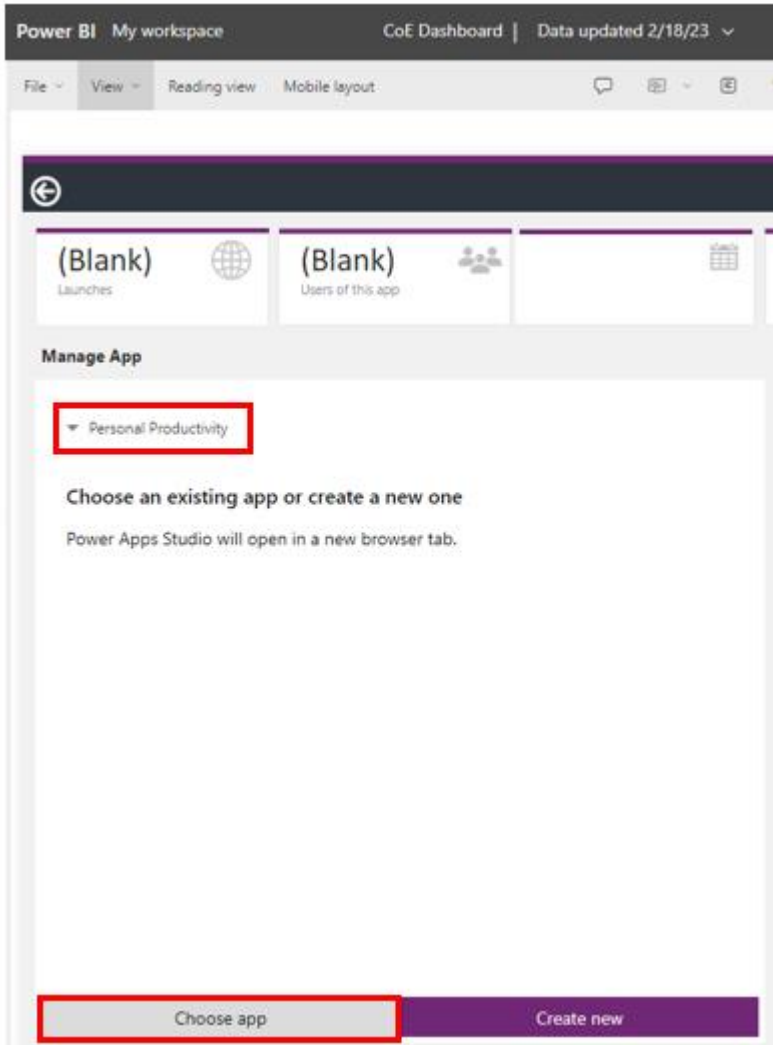


5. In the visual select environment, where embedded apps were imported, click **Choose App**.

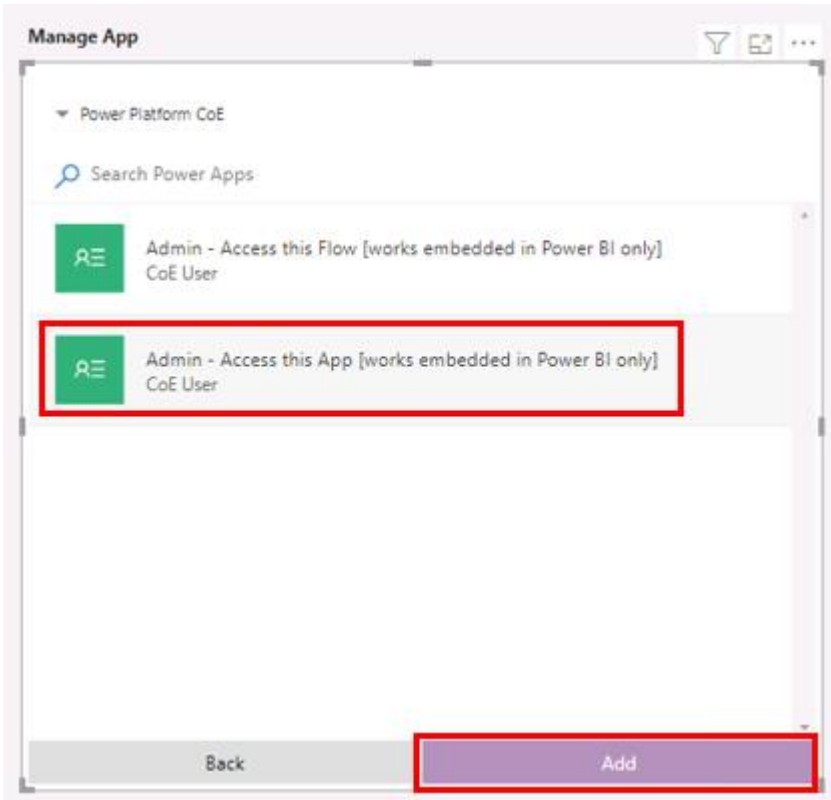


NOTE! If you do not see the environment and app selection then you need to **publish** the report to **powerbi.com** and select the all there

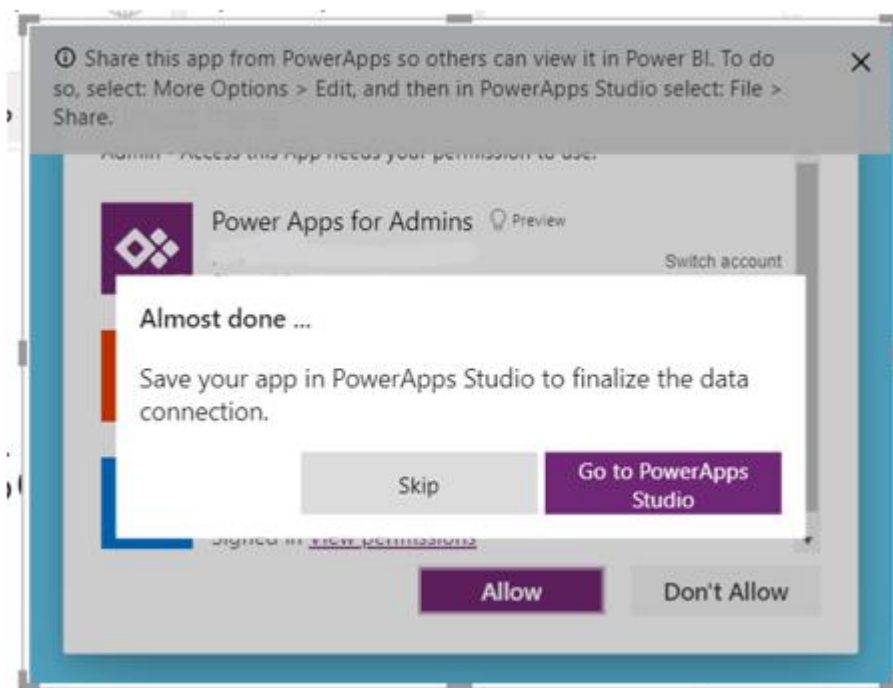




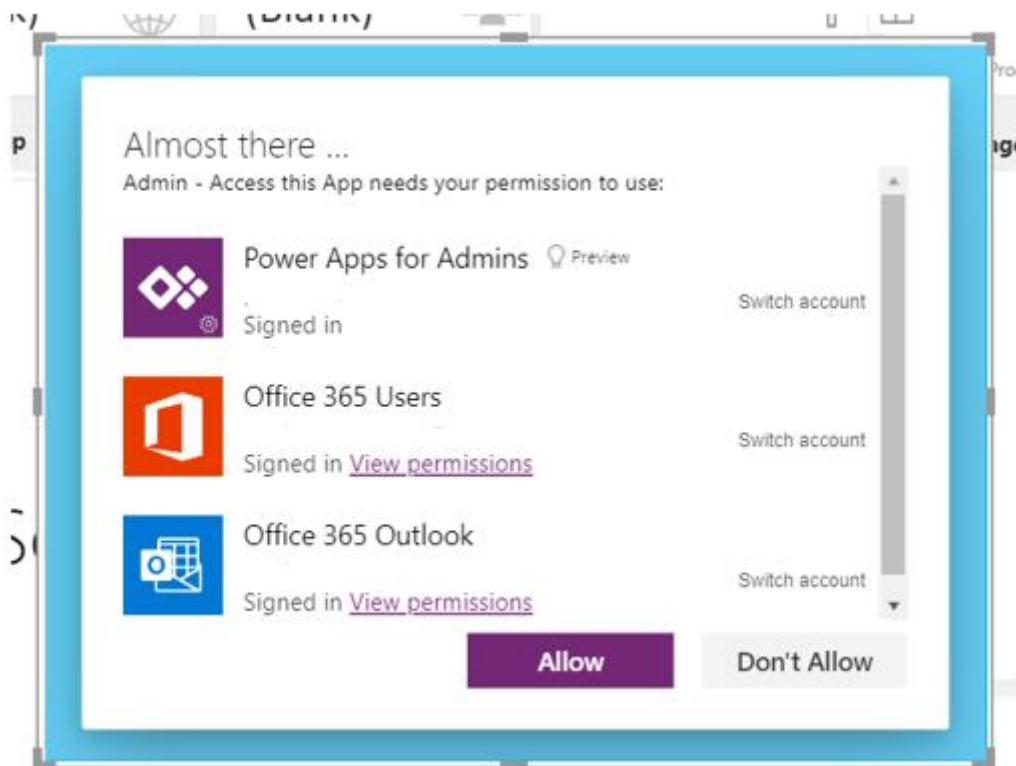
6. Choose **Admin – Access this App [works embedded in Power BI only]** and click **Add**.



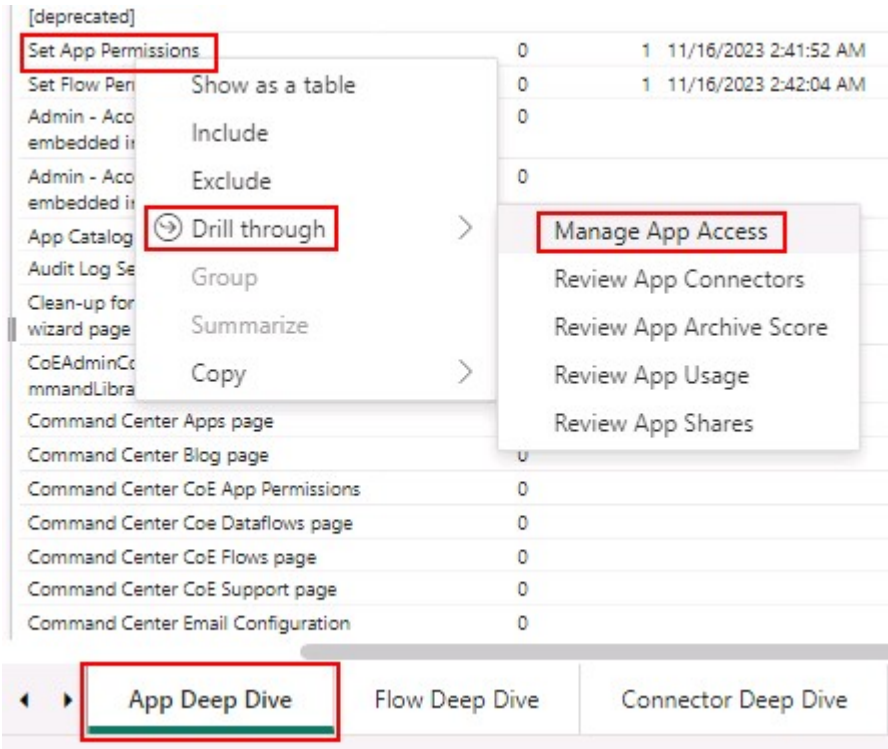
7. Click **Skip**.



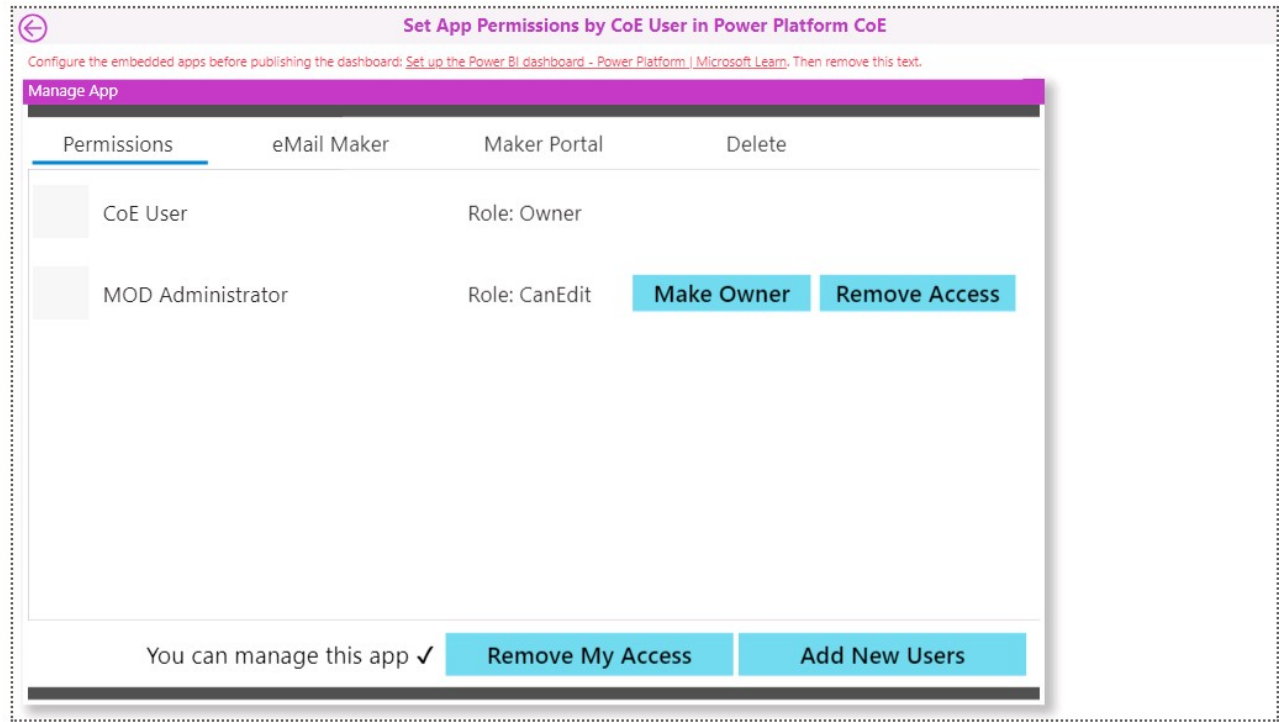
8. Click **Allow** to consent to all connections of the App.



9. Go to **App Deep Dive** page and test drill-through by right clicking some of the Apps in the list and select **Drill through > App detail**

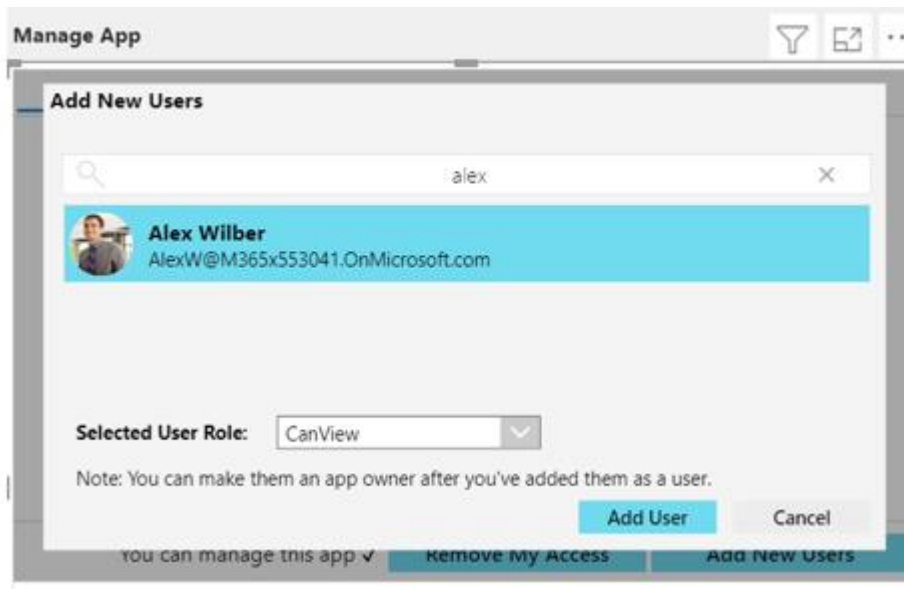


10. App detail page will open with details of the selected Apps and possibility to use embedded Power App

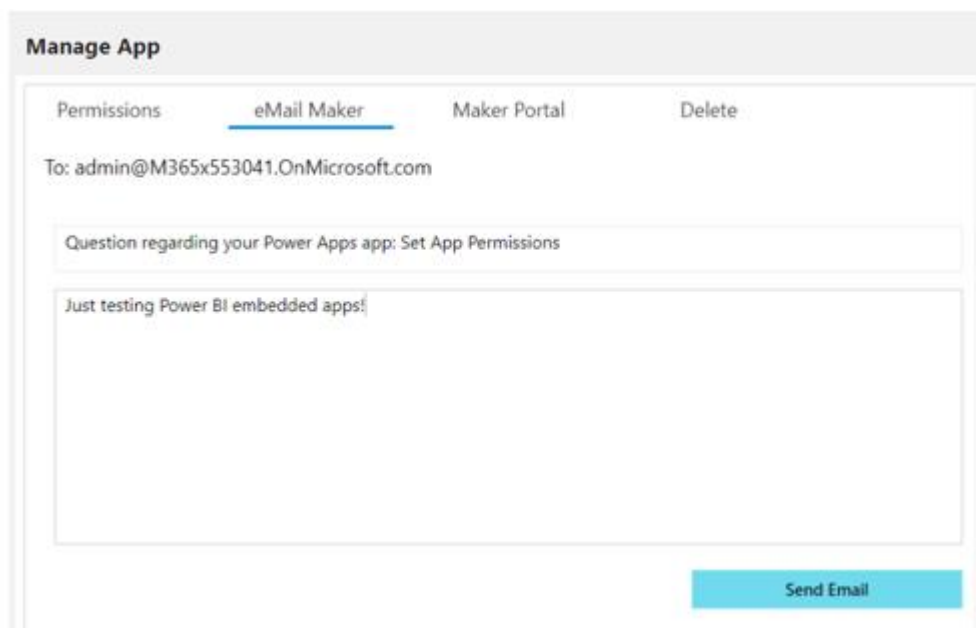


11. Republish dashboard to your Power BI Workspace and test how embedded App works

Test **Add New Users**



Test eMail Maker



12. **(Optional)** Do the same steps for Flow detail page.

[!KNOWLEDGE] For more information about Center of Excellence (CoE) Starter Kit, review the Microsoft document [here](#).

Congratulations

You have now completed the lab. Check if any of your colleagues need help with completing the lab.