

WorkshopPLUS

Power Platform for Admins

Module 6 – Application Lifecycle Management

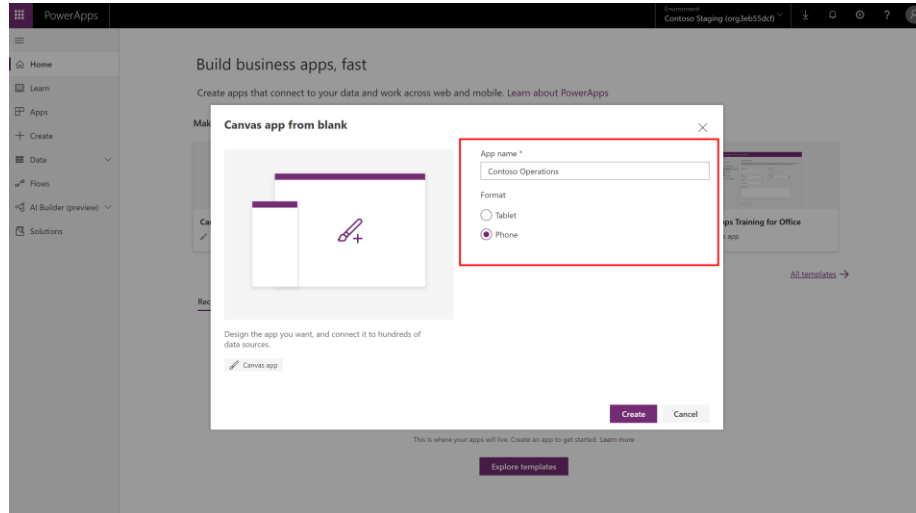
Content

Lab 1 – Application Lifecycle Management	2
Exercise 1 - Deploy Resources Between Environments Using a Package	2
Exercise 2 - Deploy Resources Between Environments Using a Solution	15

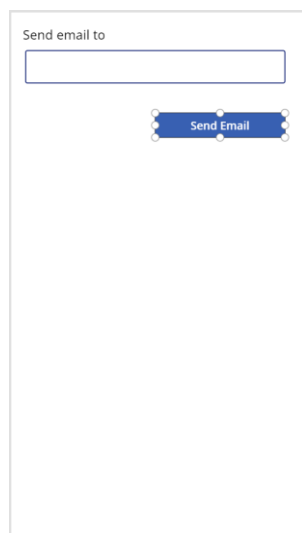
Lab 1 – Application Lifecycle Management

Exercise 1 - Deploy Resources Between Environments Using a Package

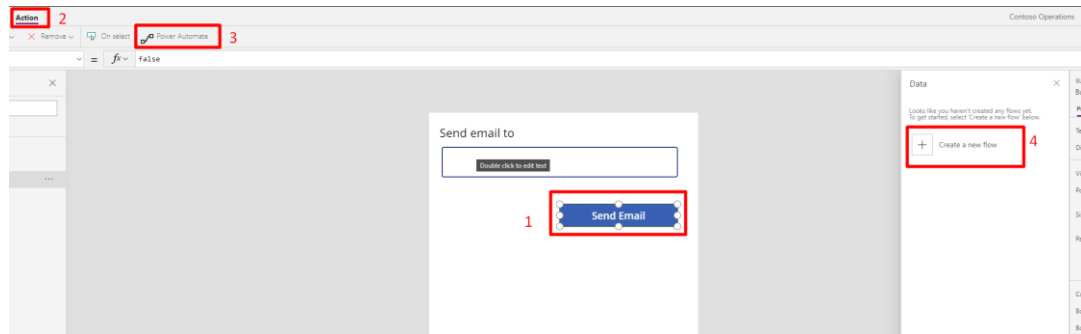
1. Navigate to <https://make.powerapps.com> then select Create from left navigation panel.
2. Create a new app from the phone layout and name it Contoso Operations then click Create.



3. Add the following controls to the app screen:
 - Label: Text property = Send Email To
 - Text box
 - Button: Text property = Send Email

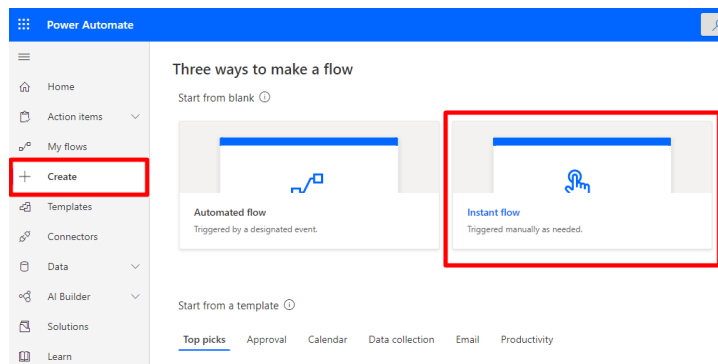


4. Select the button to register the associated flow to this app to send emails.

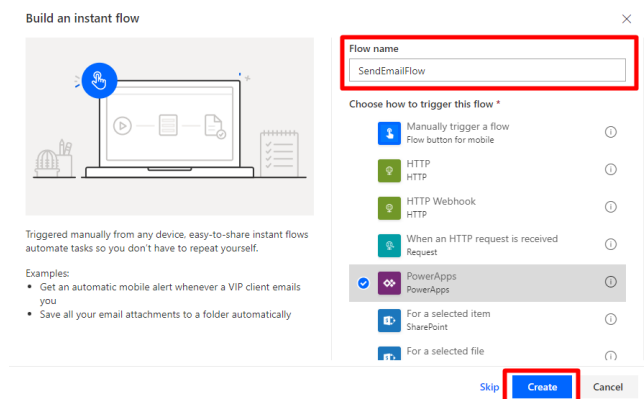


5. In Power Automate studio, switch to the Contoso (default) environment where the created app is hosted.

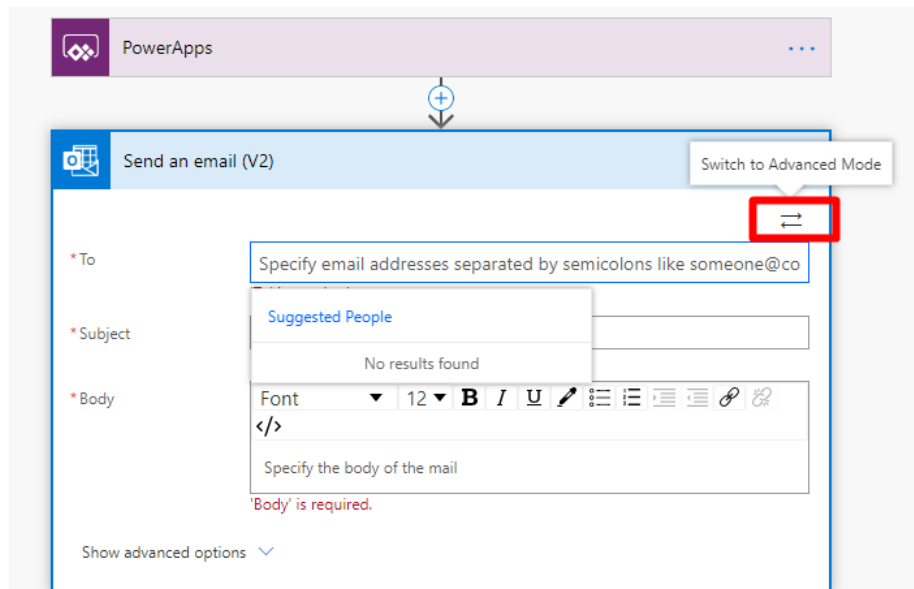
6. Under Power Automate, select Create, then Select Instant flow.



7. Name the flow SendEmailFlow, then search for the PowerApps trigger as shown in the screen shot.

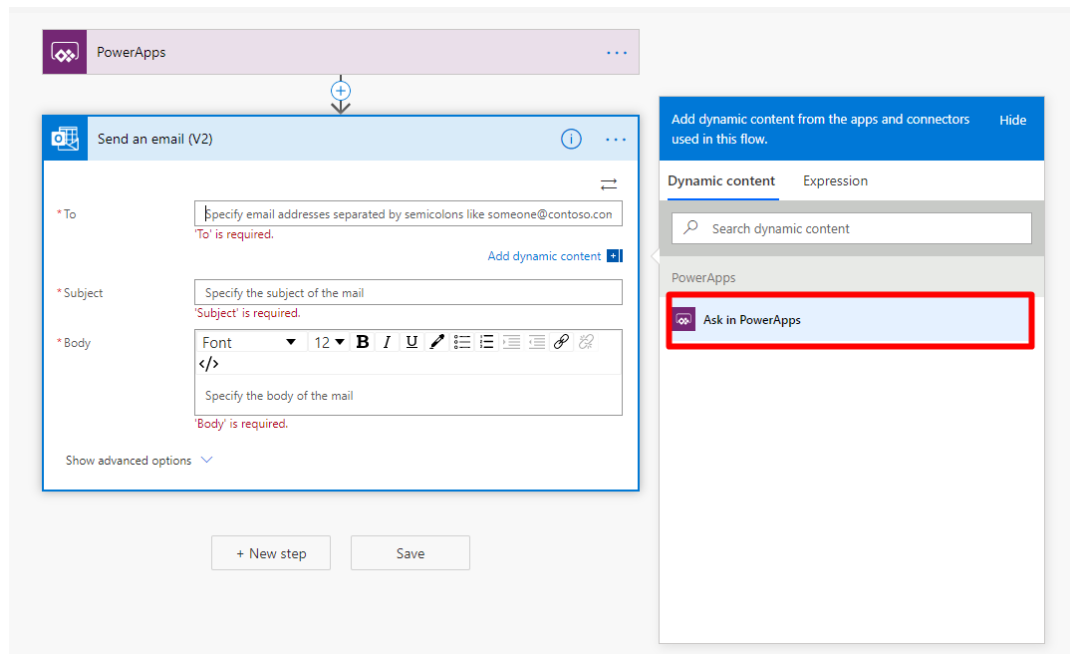


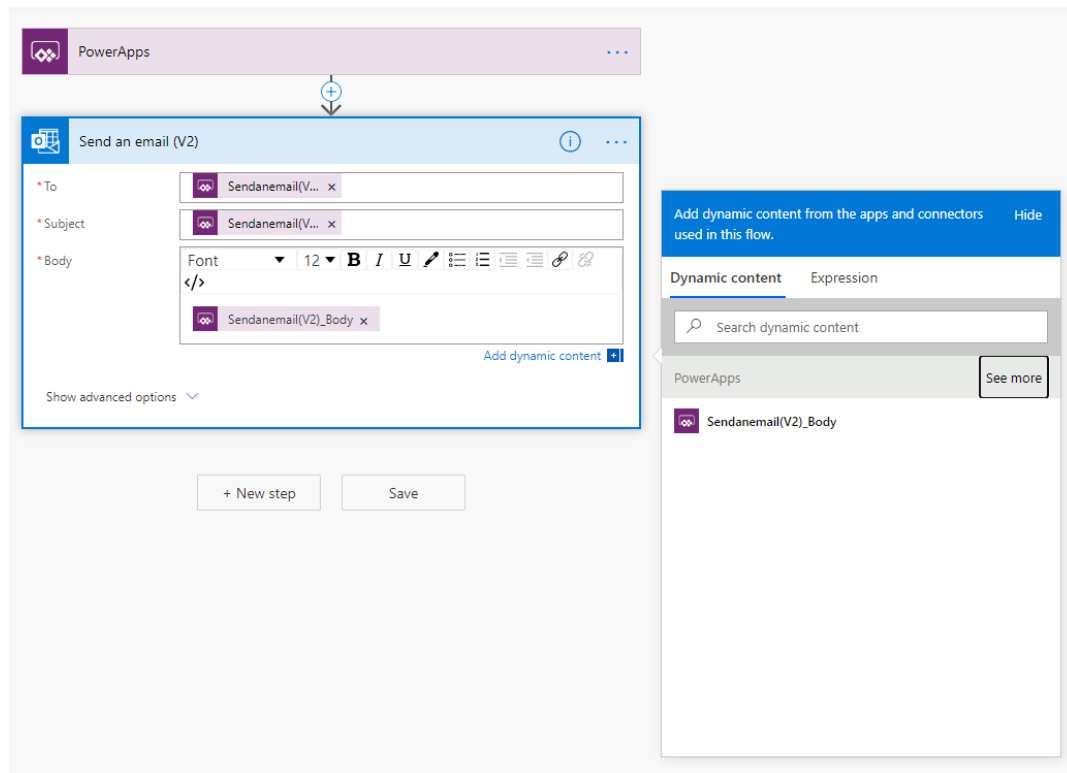
- Next to the flow trigger, add the action step type “Send an email (V2)” Switch the action to Advanced mode.



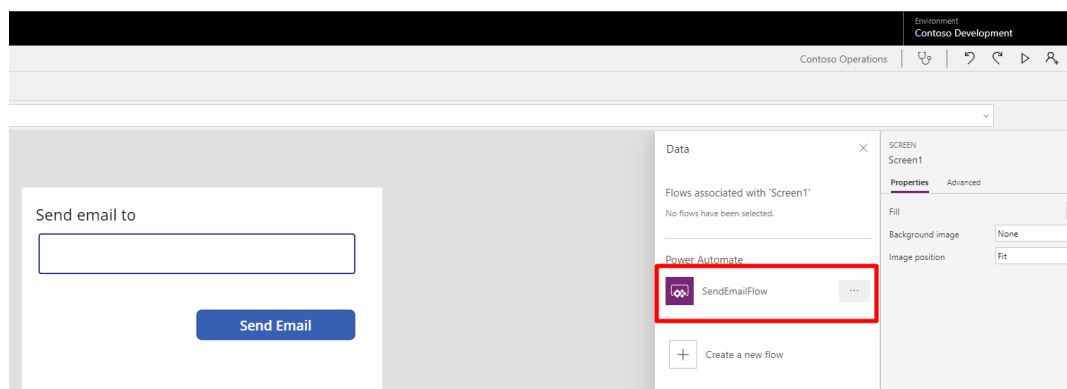
- Select the Ask in Power Apps button to create flow variables which will be passed from the created app.

NOTE: Select See more to view Ask in PowerApps again to create variables for “Subject” and “Body” fields.

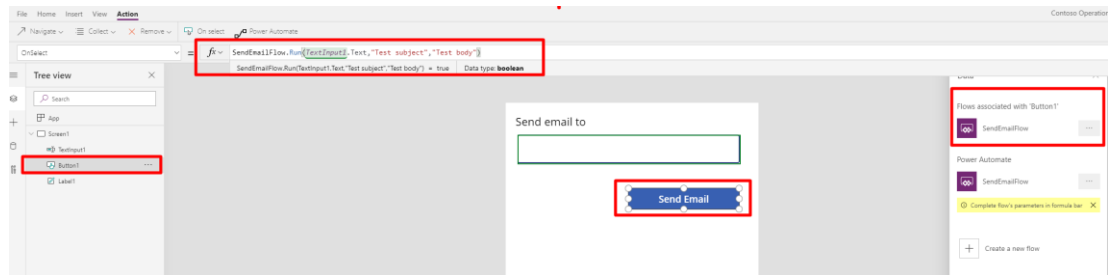




10. Save and navigate back to the Contoso Operations app to register the created flow.
11. Register the created flow by selecting the created flow name as shown in the screen shot.

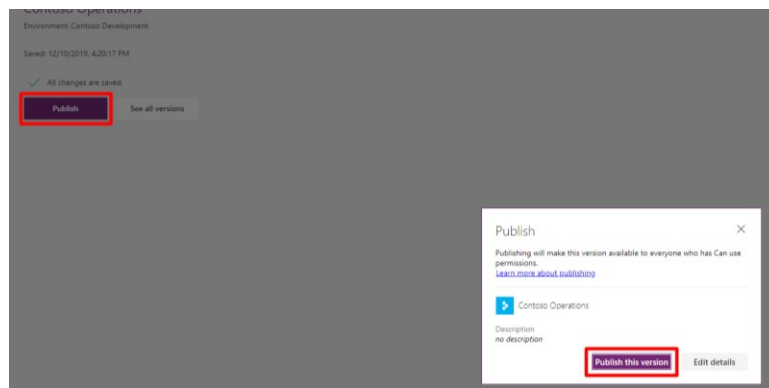


12. Type the flow parameters for email Id, subject, and body as shown below.



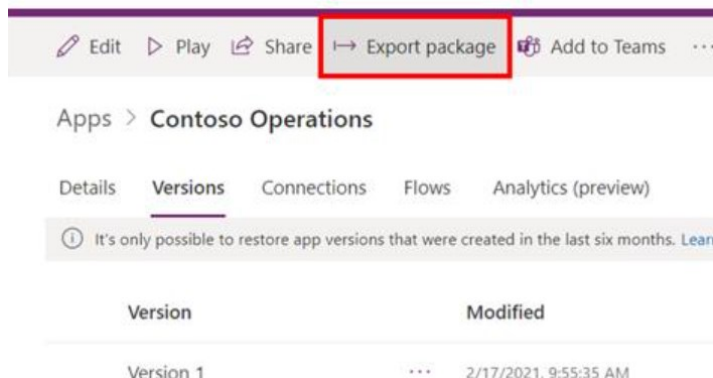
13. Press Ctrl + S to save changes.

14. Click Publish to start exporting the app with the associated flow to the production environment.



15. Once the app is published, select Share this app to navigate to the app details page.

16. On the app details page, cancel the sharing screen popup then select Export package.



17. Export package with the associated flow by typing the package title and description. Note that this title does not conflict with the package app name as it remains the same.

Package details

Created by MOD Administrator on 02/17/2021

Name *

Contoso Operations

Environment

Contoso (default)

Description

18. In the Package Content section, change the Import Setup options based on which mode you must use.

Review Package Content

Choose your export options and add comments to provide instruction or add version notes.

NAME	RESOURCE TYPE	IMPORT SETUP
Contoso Operations	App	Create as new

Related resources

NAME	RESOURCE TYPE	IMPORT SETUP
SendEmailFlow	Flow	Create as new
admin@M365x124223.onmicrosoft.com	Office 365 Outlook Connection	Select during import

19. For the first package migration, import setup mode should be new, click on Update then change import setup to "Create as new".

CHOOSE what will happen when each resource is imported to the new environment.

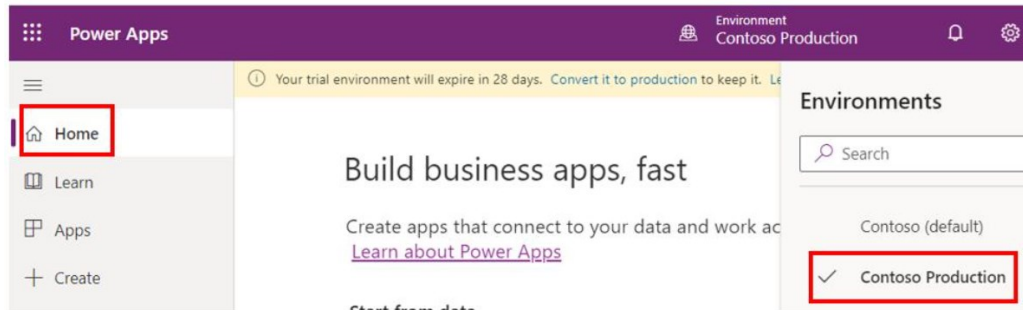
☒ **Create as new**
This app or flow will be new to the environment when the package is imported.

☐ **Update (default)**
The app or flow already exists in the environment and will be updated when this package is imported.

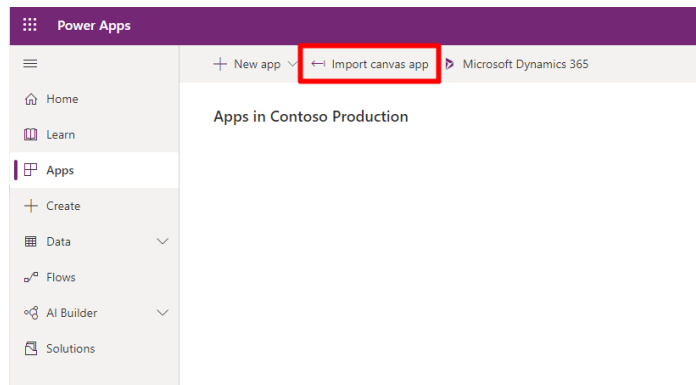
IMPORT SETUP

Update

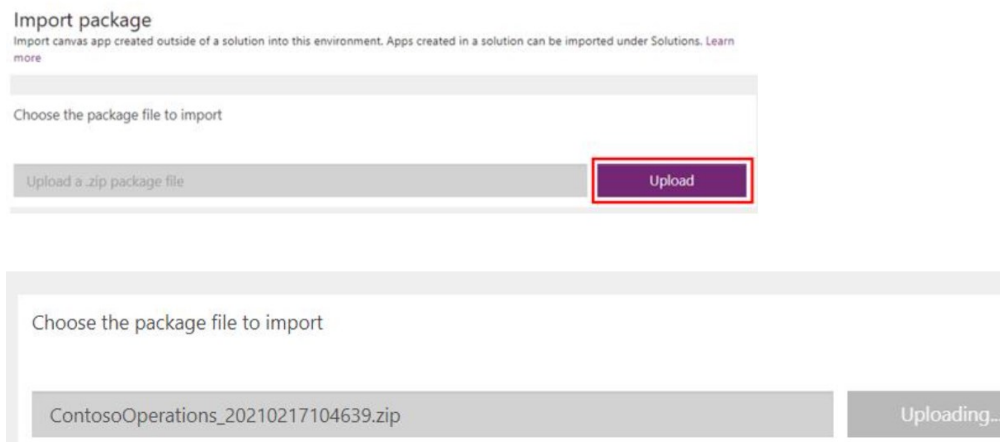
20. Repeat the same for “**SendEmailFlow**” then click ok.
21. Click “Export” to save the package to the local hard drive (this operation is considered a local backup copy of your app package as well).
22. In the Power Apps studio, select the Home tab then switch environments to Contoso Production.



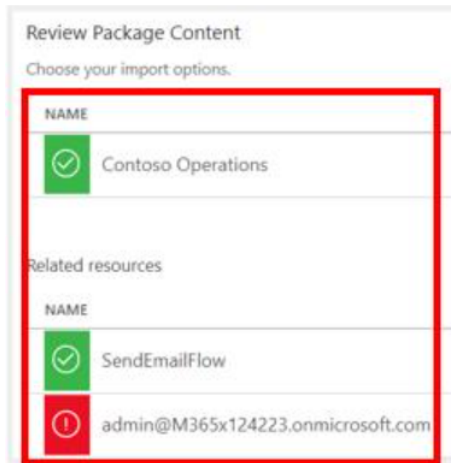
23. Select the Apps tab, then select the Import canvas app option.



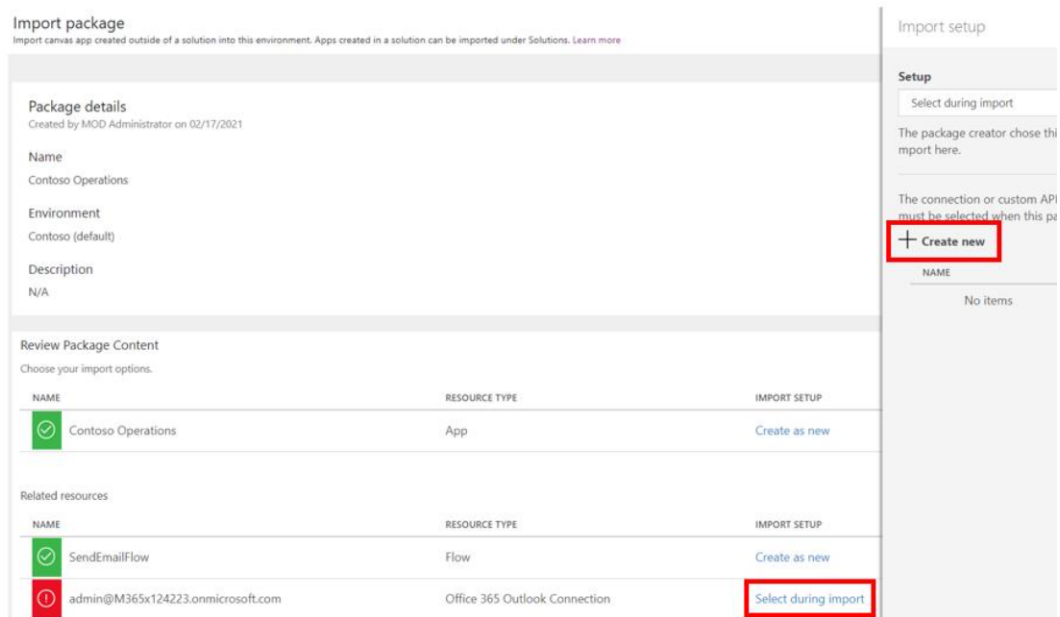
24. Select Upload, then locate the exported package to start the import process.



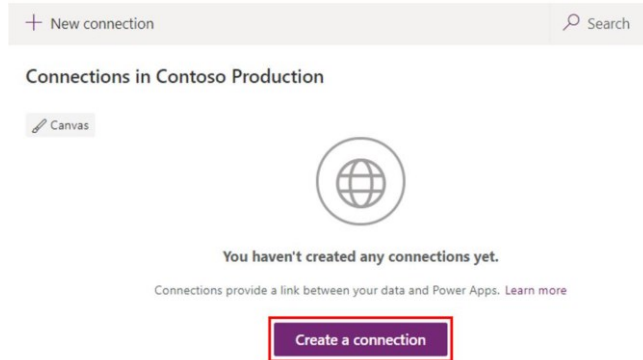
25. Once the package imports successfully, note that the app and flow resources import status is marked in green which means that the newly created resources are available. However, because these resources do not exist, the outlook connector used in the associated flow shows a red error mark because this connector doesn't exist in the targeted environment.



26. Next, choose the **Select during import** option and **Create new** to create new connection for the Office 365 Outlook connector



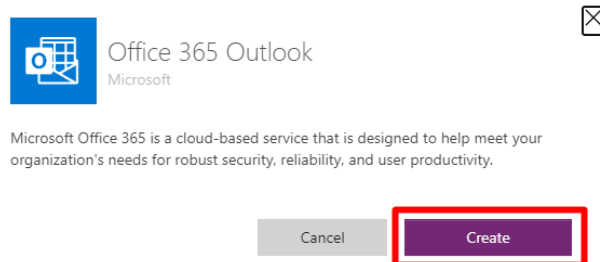
27. In the connection window, select the Create a connection button.



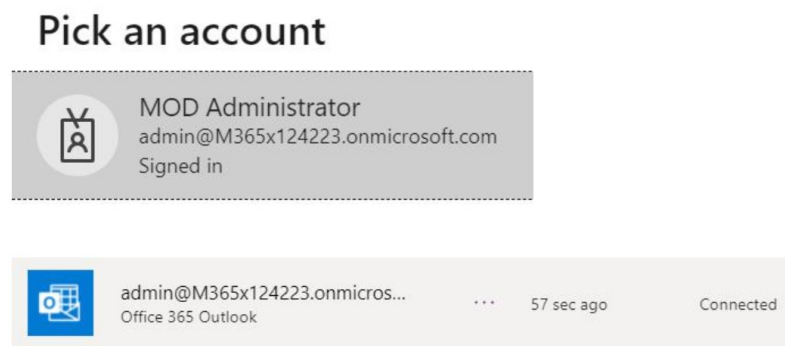
28. Add or search for the required connector to be added.



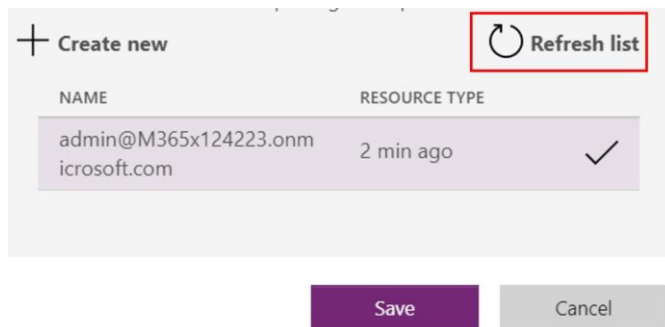
29. Select the **Create** button.



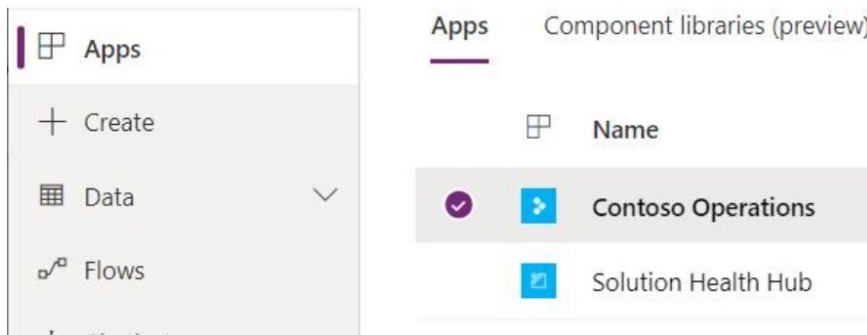
30. Then pick **MOD Administrator** account, the Connection will be added.



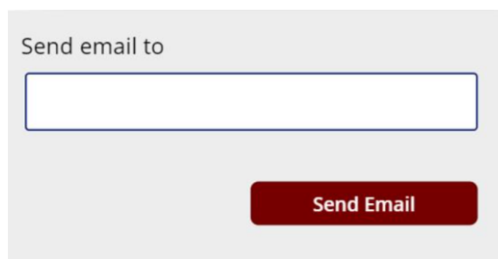
31. Navigate back to the import package screen to refresh the list and select added connector and **Save**.



32. Select **Import**.
33. Once the import process completes, notice all package components were successfully added and are ready to edit or open the app at the **Contoso Production** environment.
34. From navigation click **Apps** and you should see **Contoso Operations** App imported



35. Navigate to PowerApps studio then select the **Home** tab and switch environments to **Contoso (default)**.
36. Open **Contoso Operations** app in edit mode and change color, text and position for some controls as shown in the screenshot.



37. **Save** and **Publish** (File -> Save) the app after making the required changes. **NOTE:** If the app is not published, the exported package will only include the Live latest published version of the app.

Contoso Operations

Environment: Contoso (default)

Saved: 2/17/2021, 3:27:07 PM

✓ All changes are saved.



38. Repeat the same **Export** process mentioned previously. You can keep the **same package name** as named before since PowerApps will add a date/time signature to the package title anyway to avoid naming conflicts.

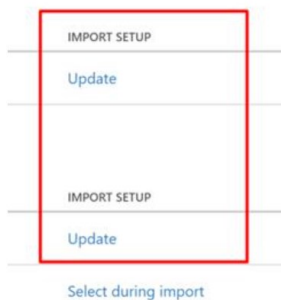
Package details

Created by MOD Administrator on 02/17/2021

Name *

Contoso Operations

39. Keep the import setup options as **Update**, then select **Export**.



40. Once the package has exported, switch to **Contoso Production** to import it again and update the existing version.



41. In package import step to **Contoso Production** environment, select each import setup option for each package's component to select the **Update** action as shown in the screenshots below.

Review Package Content

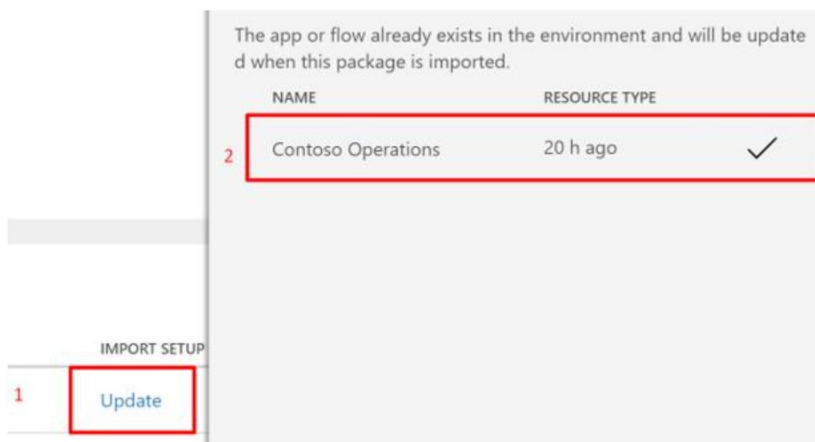
Choose your import options.

NAME	RESOURCE TYPE	IMPORT SETUP
 Contoso Operations	App	Update

Related resources

NAME	RESOURCE TYPE	IMPORT SETUP
 SendEmailFlow	Flow	Update
 admin@M365x124223.onmicrosoft.com	Office 365 Outlook Connection	Select during import admin@M365x124223.onmicro soft.com


42. When clicking Update, Power Apps will recognize that a resource with the same name already exists. Select the resource name to overwrite it.




43. Repeat the same steps for the rest of the components, then select the Import button.

Review Package Content

Choose your import options.

NAME	RESOURCE TYPE	IMPORT SETUP
 Contoso Operations	App	Update Contoso Operations

Related resources

NAME	RESOURCE TYPE	IMPORT SETUP
 SendEmailFlow	Flow	Update SendEmailFlow
 admin@M365x354141.onmicrosoft.com	Office 365 Outlook Connection	Select during import admin@M365x354141.onmicrosoft.com

44. Once import has completed, Publish the latest version and open the app to review the published changes

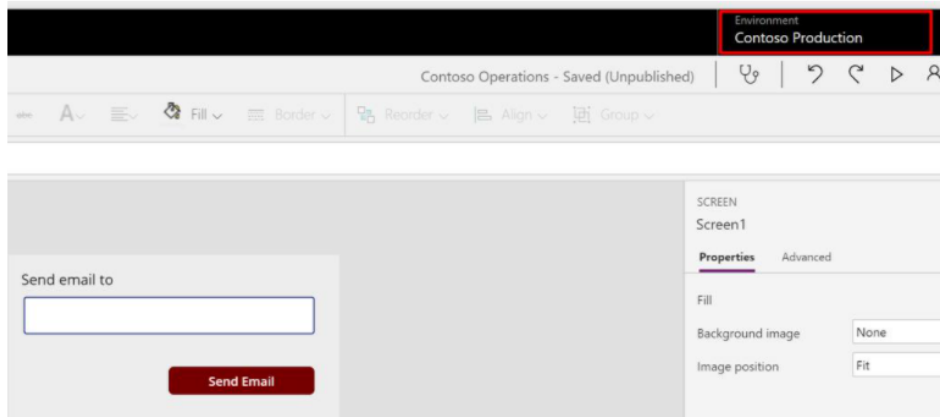
Apps > Contoso Operations

Details Versions Connections Flows Analytics (preview)

It's only possible to restore app versions that were created in the last six months

Version	Modified
Version 3	2/17/2021, 3:51:35 PM
Version 2	

Publish this version



Exercise 2 - Deploy Resources Between Environments Using a Solution

1. In order to use solution deployment, both the development and targeted production environments should have Dataverse(CDS) installed.
2. Navigate to Power Platform admin center <http://aka.ms/ppac>
3. Click the name of the **Contoso (default)** environment which is provisioned with the tenant without Dataverse(CDS).

Environment	Type	State	Region
Contoso Production	Trial (28 days)	Ready	Europe
Contoso (default)	Default	Ready	United States

4. Click on +Add database.

Environments > Contoso (default)

Details [See all](#) [Edit](#)

Type: Default
Region: United States
Refresh cadence: Frequent
Purpose: Not specified
Environment ID: Default-bacb29a2-896b-4d06-bf77-d896601ebe75

Add database [+ Add database](#)

Collect, store, and share your data. Create database for this environment.
[Learn more about databases.](#)

Access

Environment admin
[See all](#)

Environment maker
[See all](#)

Resources

Power Apps
Flows

5. Leave the default values and click Add.

Add database ✕

Language *
Default language for user interfaces in this environment

English ▾

Currency *
Reports will use this currency

USD (\$) ▾

Enable Dynamics 365 apps
In addition to Power Apps. [Learn more](#)

☐ No

⚠ Currently, Dynamics 365 apps can only be enabled for your default region. [Learn more](#)

Security group
Restrict environment access to people in this security group. Otherwise, everyone can access. [Learn more](#)

+ Select

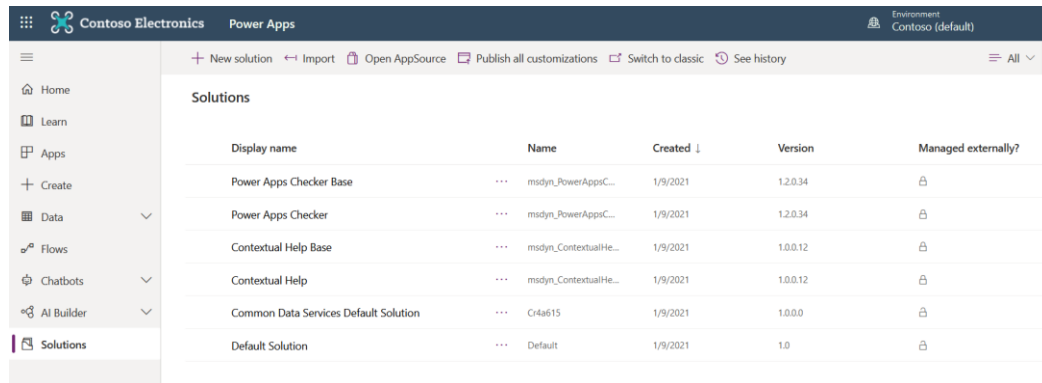
6. Once database instance is ready, navigate to the Power Apps studio **Contoso (default)** environment.

+ New ↻ Refresh

ⓘ The list below contains environments that are active, inactive, and preparing. [Click to view environments you may recover.](#)

Environment	Type	State
Contoso Production	Trial (28 days)	Ready
Contoso (default)	Default	Ready

7. From left navigation panel select Solutions, then click on new Solution.



8. In the new solution screen, type the solution name: **Contoso Operation Project**.

9. From the Publisher drop list, click to add a new publisher.

New solution ✕

Display name *

Name *

Publisher *

+ Publisher

CDS Default Publisher

Default Publisher for orge4e3d3c4

More options ▾

10. A new screen will pop up to fill in the new publisher information below, then click Save and close.

Publisher display name: **Contoso dev**

Prefix: **condev**

File Save and Close

Publisher: New Publisher

Information

General

Display Name * Contoso Dev Name * contosodev

Description

Set the prefix name for custom entities and fields

Prefix * condev Option Value Prefix * 10000

Name Preview new_entity

11. Select created publisher then click Create. Note that new solution is **unmanaged** by default.

New solution ✕

Display name * Contoso Operation Project

Name * ContosoOperationProject

Publisher * Contoso Dev

Edit publisher

Version * 1.0.0.0

More options ^

Installed on Thu Jan 14 2021

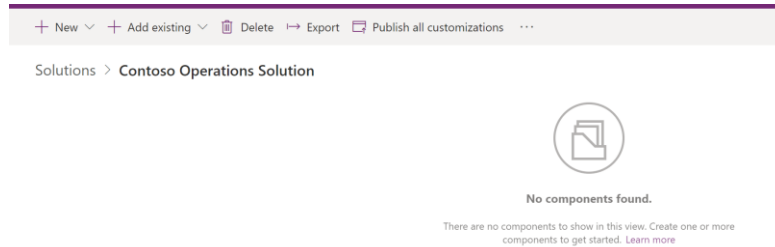
Configuration page

Description

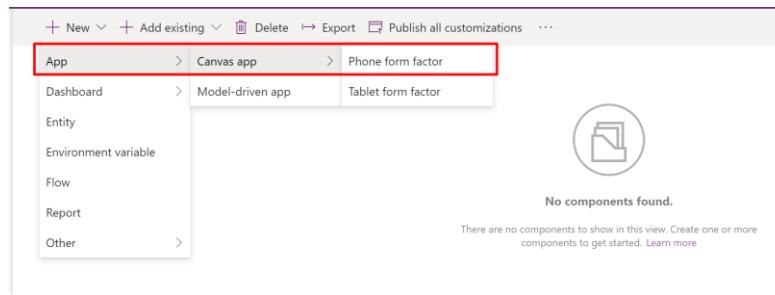
Package type ⓘ Unmanaged

12. Select the created solution name.

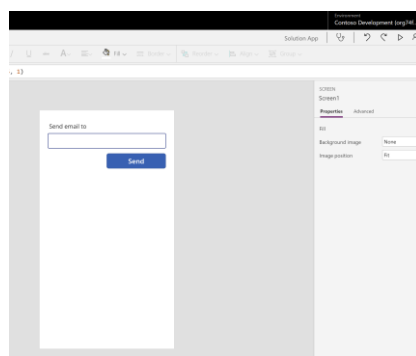
13. The solution displayed is blank with no components found. Now you can start creating new or add from existing solutions or outside solutions.



14. Choose New → App → Canvas app → Phone form factor

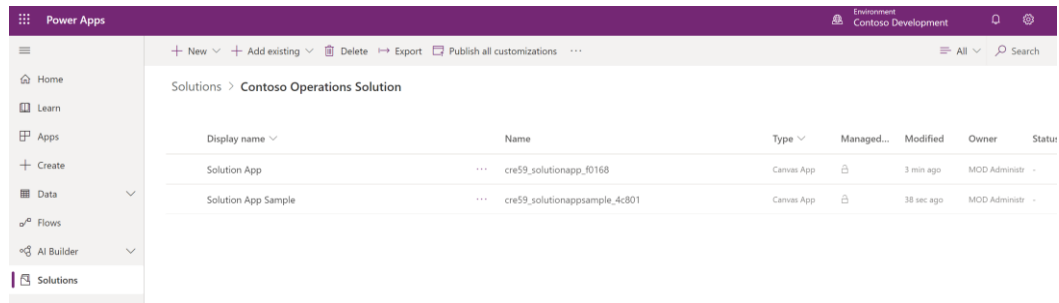


15. Create an app as mentioned before and keep it simple, then name it **Solution App**, and **Save** and **Publish** it.

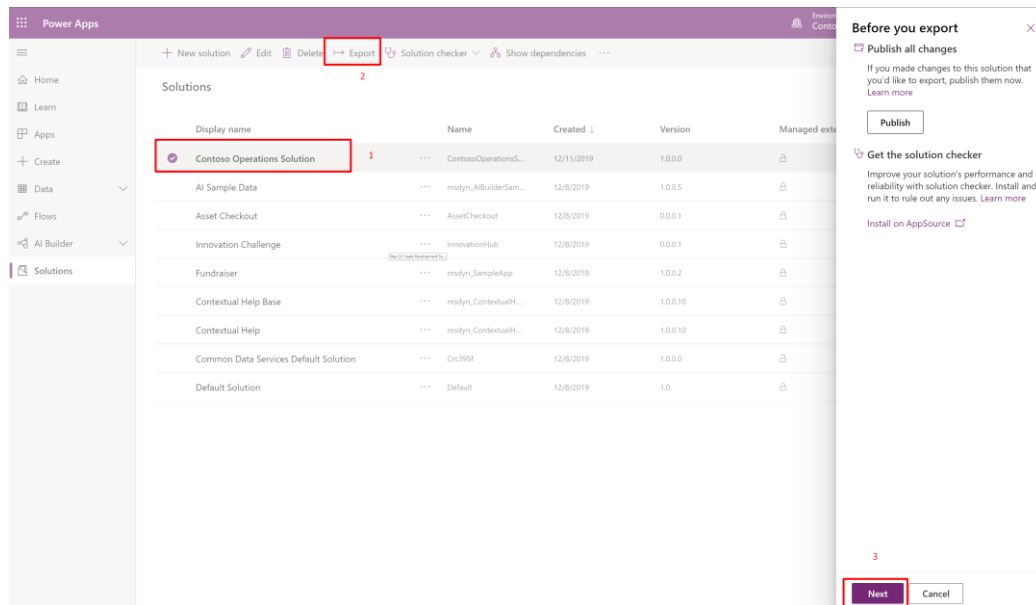


16. Create a second app with the same solution and name it, **Solution App Sample** and **Save** and **Publish** that one.

17. Navigate back to the created solution and notice that both apps have been added.



18. Navigate back to the main solutions page, then select **Contoso Operations Solution**, then **Export** and click **Next**.



19. Before Exporting the solution, review the version number: major or minor, then Export solution as **Managed** and click **Export**.

← **Export this solution** ✕

Version number * ⓘ

Current version 1.0.0.0

Export as

☒ **Managed (recommended)** ⓘ

The solution is moving to a test or production environment. [Learn more](#)

☐ **Unmanaged**

The solution is moving to another development environment or source control. [Learn more](#)

Contoso Operations Solution was exported and will download soon.

Display name	Name	Created ↓	Version	Managed externally?
Contoso Operations Solution	ContosoOperationsS...	12/11/2019	1.0.0.1	

☒ ContosoOperationsProject_1_0_0_1_managed.zip

20. At the Power Apps studio, switch to the **Contoso Production** environment.
21. Select **Solutions** from the menu and click on **Import**.
22. Browse the saved solution, then click **Next** to validate the uploaded package, then click **Import**.

Power Apps

+ New solution ← **Import** Open AppSource

Solutions

Display name	
Power Apps Checker Base	
Power Apps Checker	
Contextual Help Base	
Contextual Help	
Common Data Services Default Solution	
Default Solution	

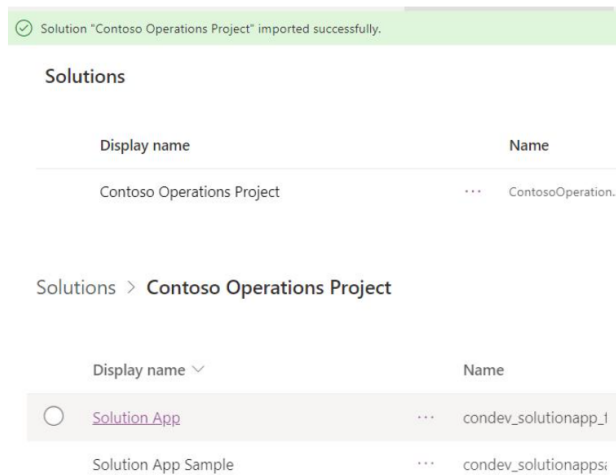
Import a solution

Select a file

Drag and drop or browse for the solution file to import.

Browse ContosoOperationsProject_1_0_0_1_managed.zip

23. Import will take couple of minutes and when ready test the apps of the solution



24. Switch to the **Contoso (default)** environment.

25. Open the Contoso Operations Solution, select the Solution App, then Edit the app by changing colors or adding controls, then save and publish these changes.

26. Return to the Solutions tab to export the modified solution.

27. Switch to the **Contoso Production** environment solution tab, then repeat solution import steps.

28. Note: Importing the same solution name marks the solution status as a solution update.

29. Test imported solution apps.