WorkshopPLUS
Power Platform for Admins

Module 6 – Application Lifecycle Management
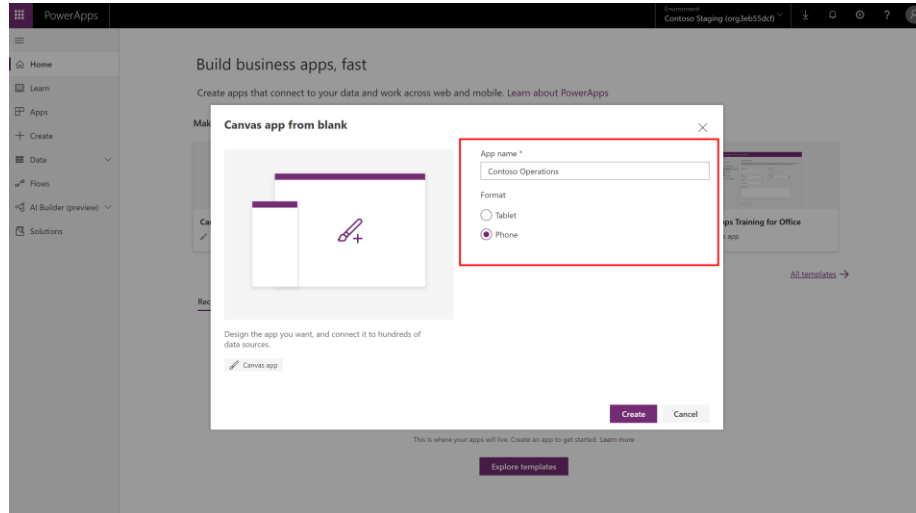
Content

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
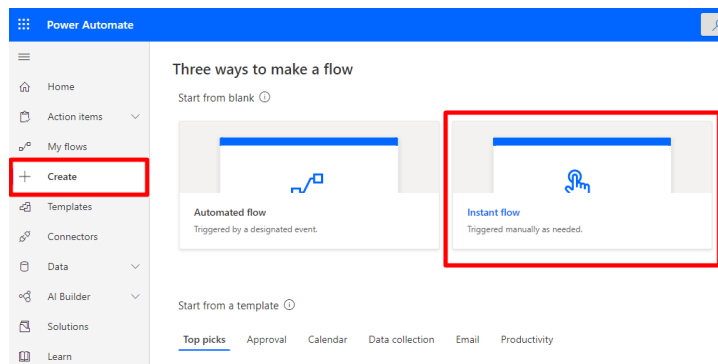   - Button: Text property = Send Email
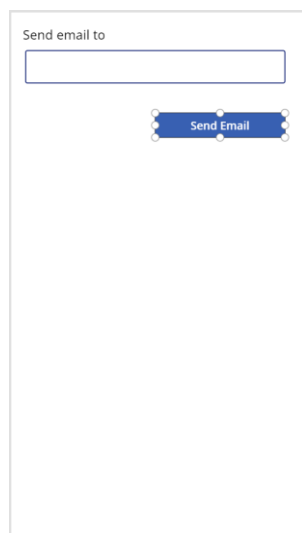
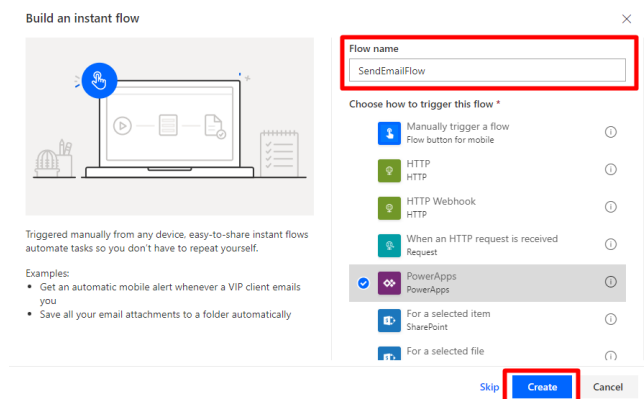4. Select the button to register the associated flow to this app to send emails.
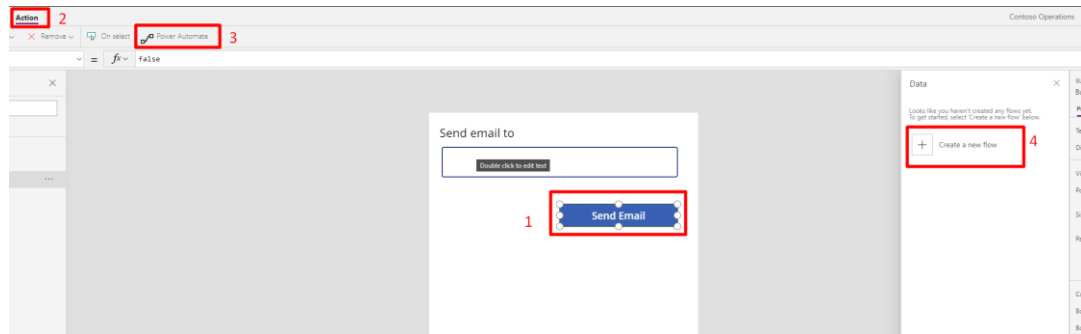
5. In Power Automate studio, switch to the Contoso (defualt) environment where the created app is hosted.
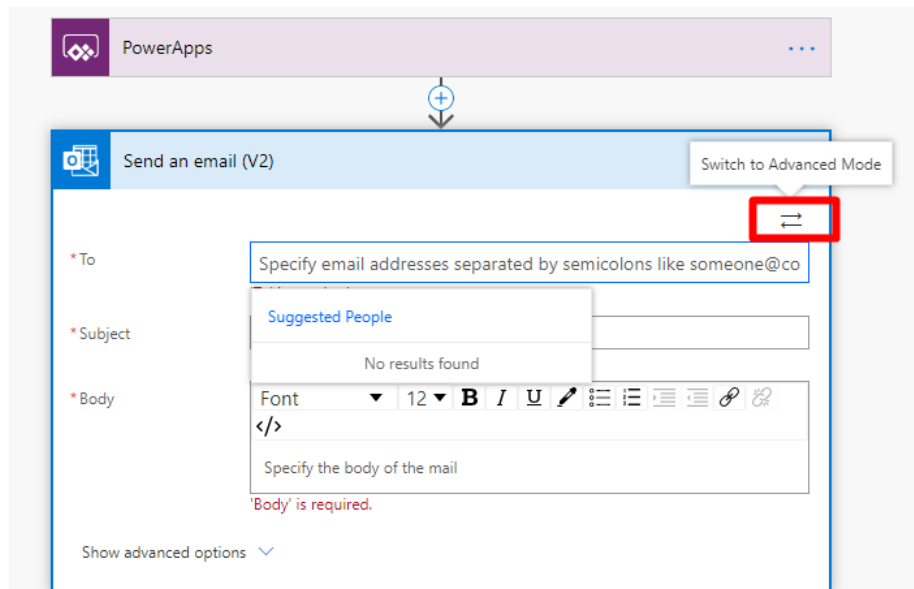
6. Under Power Automate, select Create, then Select Instant flow.

7. Name the flow SendEmailFlow, then search for the PowerApps trigger as shown in the screen shot.
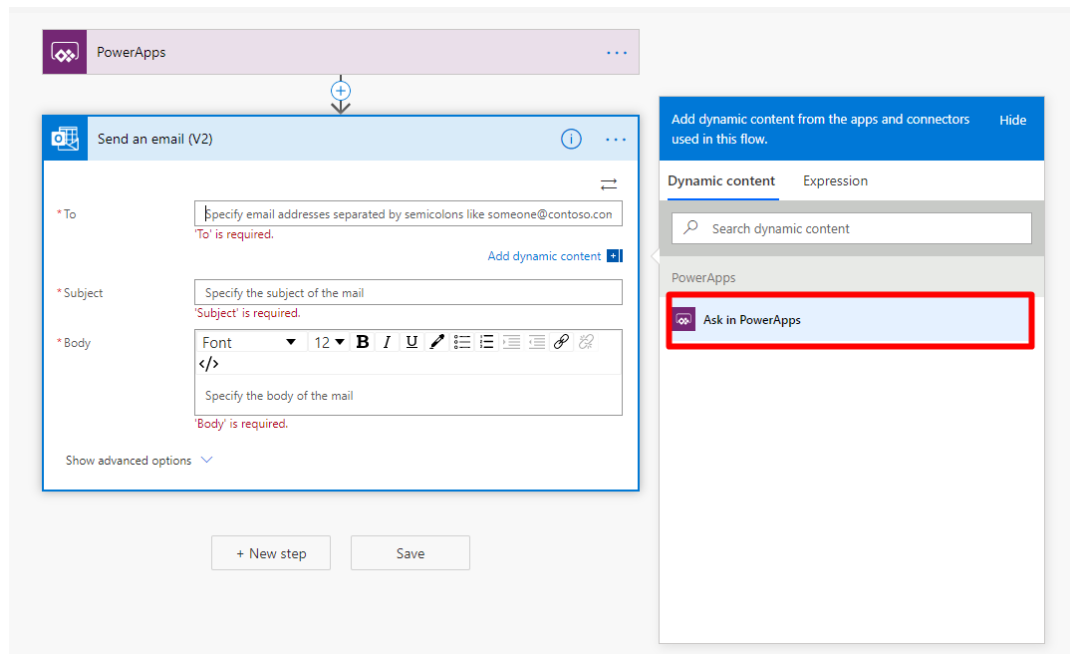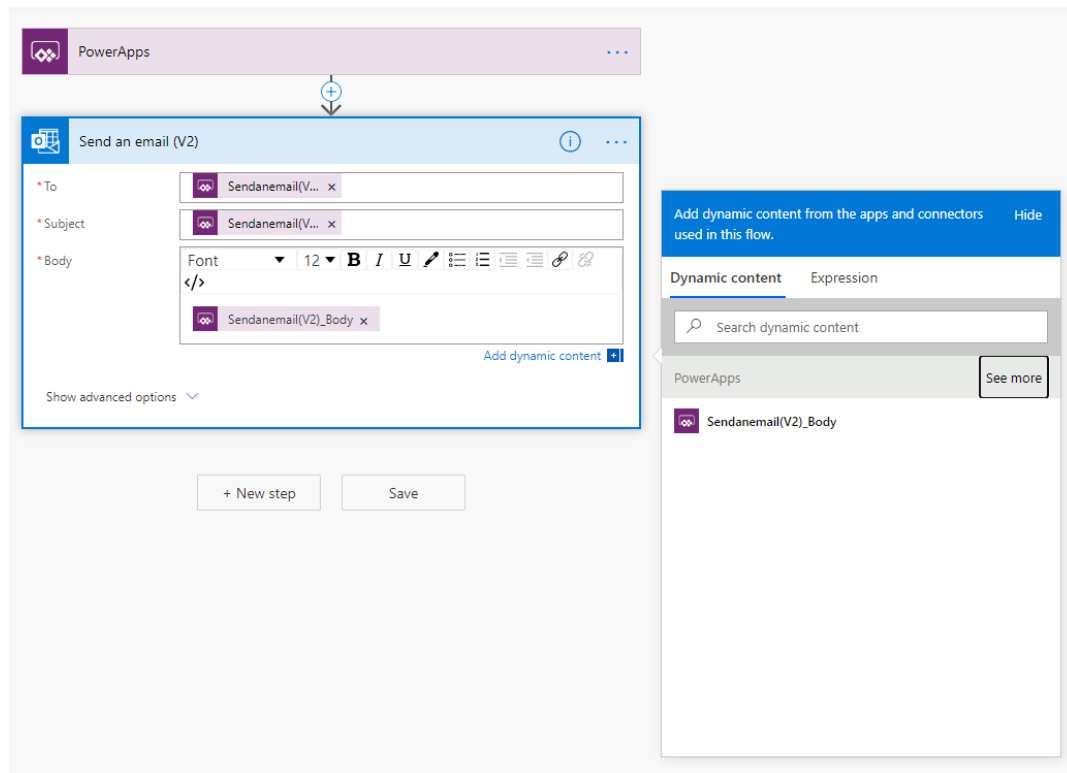
8. Next to the flow trigger, add the action step type "Send an email (V2)" Switch the action to Advanced mode.


9. 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.
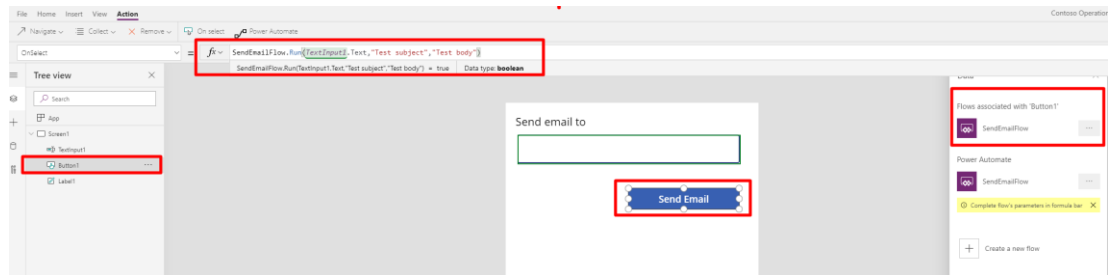
10. Save and navigate back to the Contoso Operations app to register the created flow.

11. Register the created flow by selecting the created flow name as shown in the screen shot.
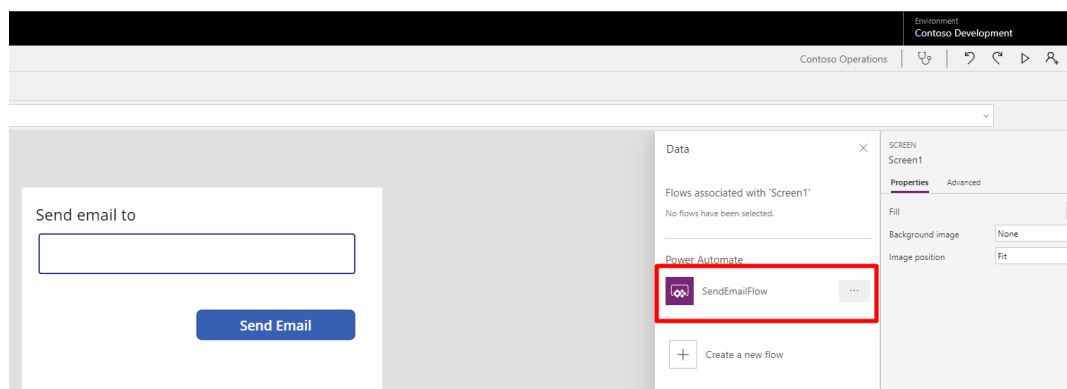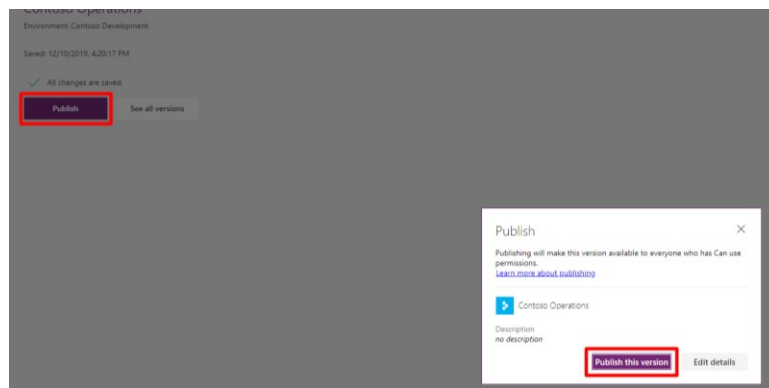
12. Type the flow parameters for email Id, subject, and body as shown below.
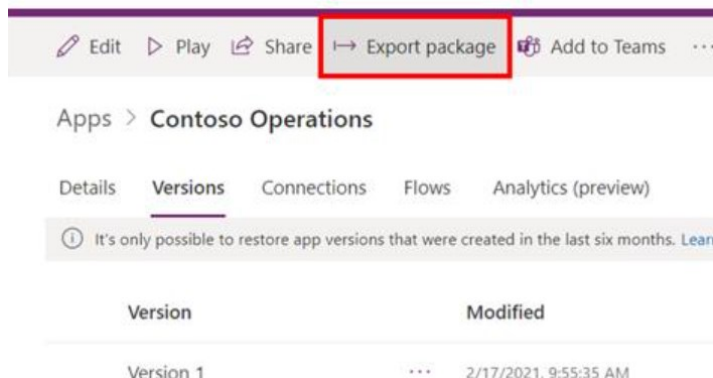

13. Press Ctrl + S to save changes.

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.

2

IMPORT SETUP

Update   1

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.
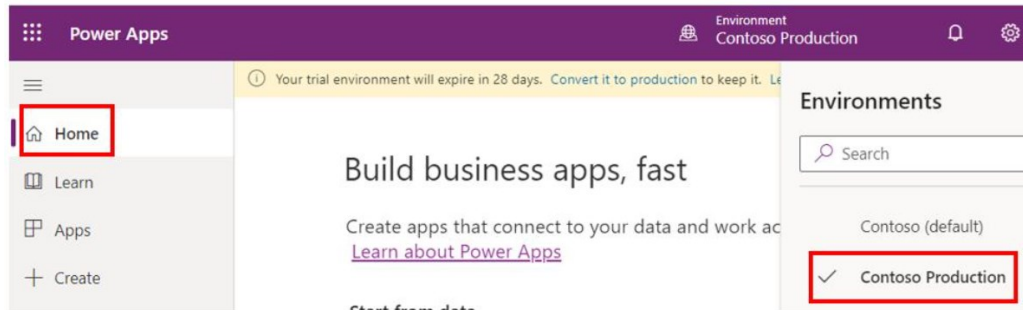
23. Select the Apps tab, then select the Import canvas app option.
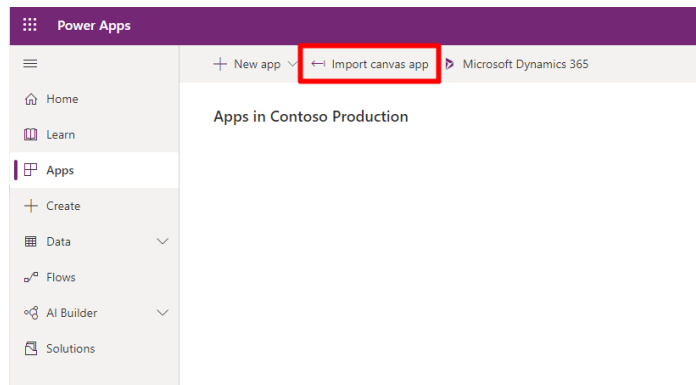
24. Select Upload, then locate the exported package to start the import process.
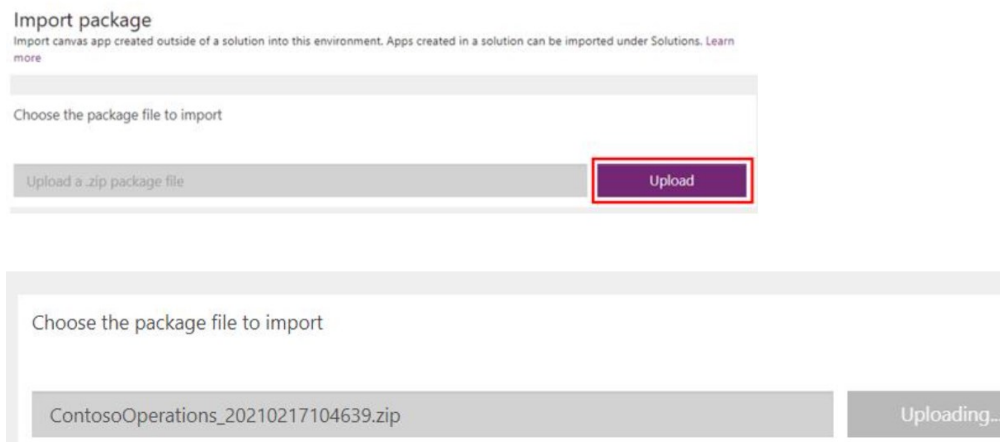
25. Once the package imports successfully, note that the app and flow resources import status is marked in green which means that the newly created resources are available. However, because these resources do not exist, the outlook connector used in the associated flow shows a red error mark because this connector doesn't exist in the targeted environment.
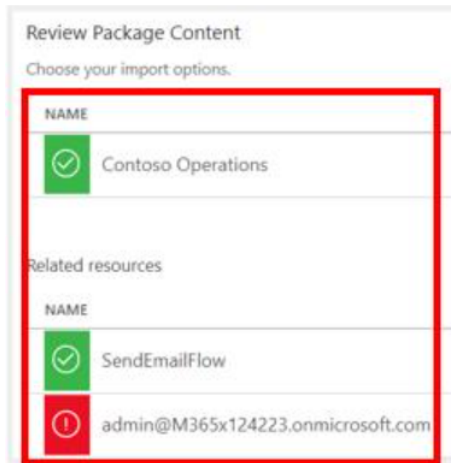
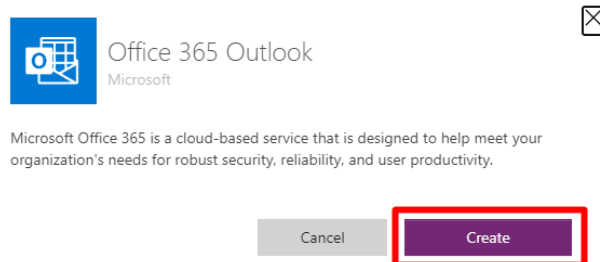26. Next, choose the **Select during import** option and **Create new** to create new connection for the Office 365 Outlook connector
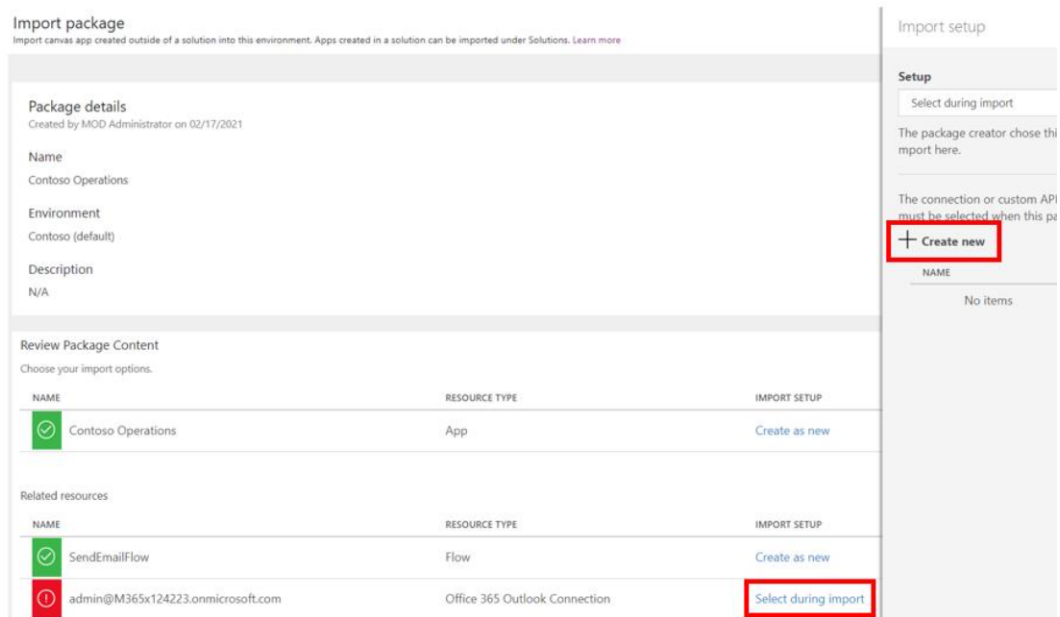
27. In the connection window, select the Create a connection button.
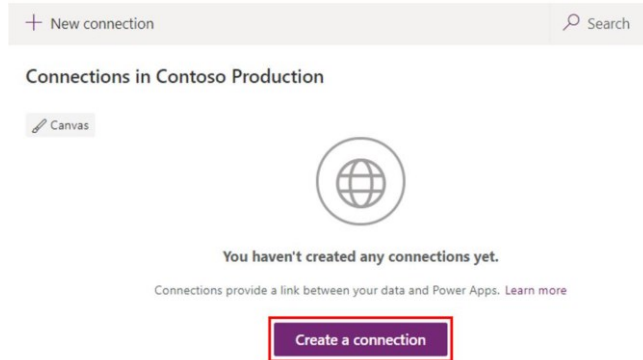
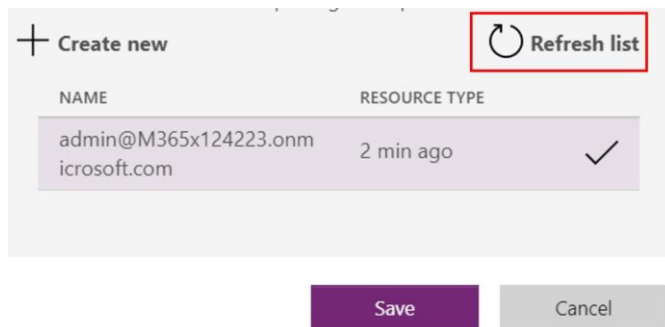28. Add or search for the required connector to be added.


29. Select the **Create** button.

30. Then pick **MOD Administrator** account, the Connection will be added.
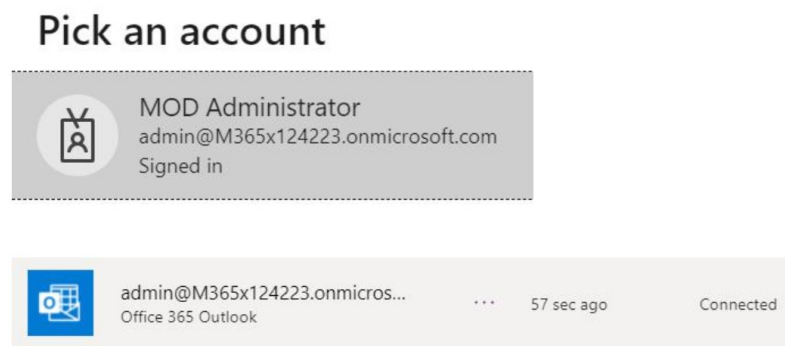
31. Navigate back to the import package screen to refresh the list and select added connector and **Save.**

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
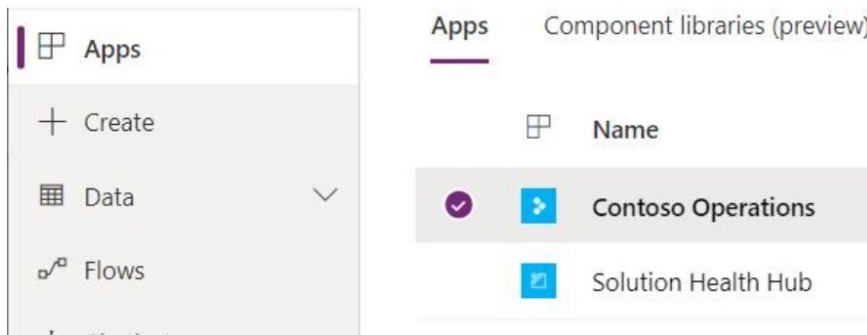
35. Navigate to PowerApps studio then select the **Home** tab and switch environments to **Contoso (default).**

36. Open **Contoso Operations** app in edit mode and change color, text and position for some controls as shown in the screenshot.
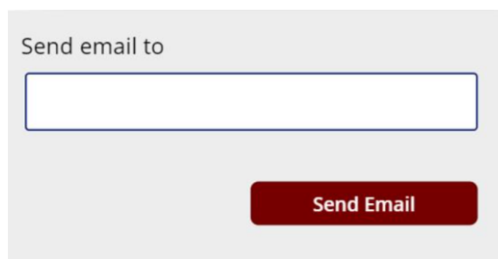
37. **Save** and **Publish** (File -> Save) the app after making the required changes. **NOTE**: If the app is not published, the exported package will only include the Live latest published version of the app.

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.
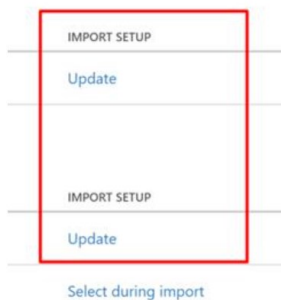

39. Keep the import setup options as **Update**, then select **Export**.

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.

42. When clicking Update, Power Apps will recognize that a resource with the same name already exists. Select the resource name to overwrite it.
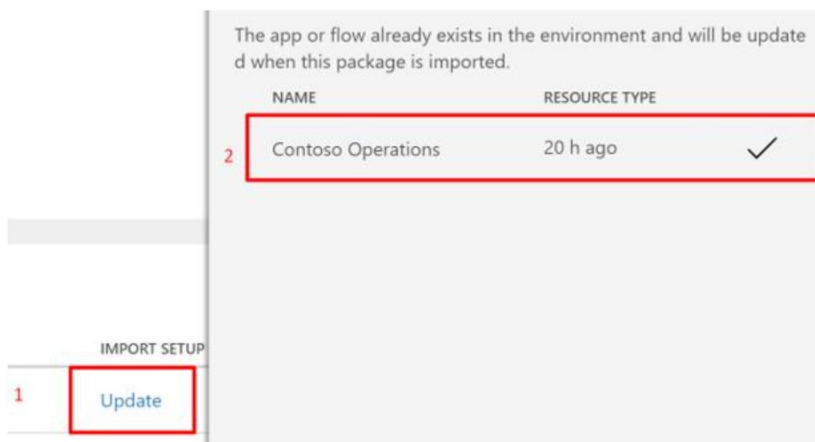
43. Repeat the same steps for the rest of the components, then select the Import button.

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

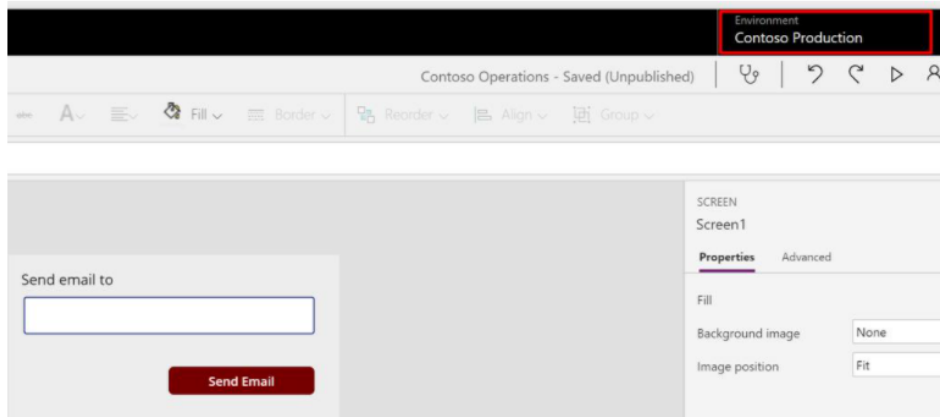## Exercise 2 - Deploy Resources Between Environments Using a Solution

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).

4. Click on +Add database.

5. Leave the default values and click Add.

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

7. From left navigation panel select Solutions, then click on new Solution.
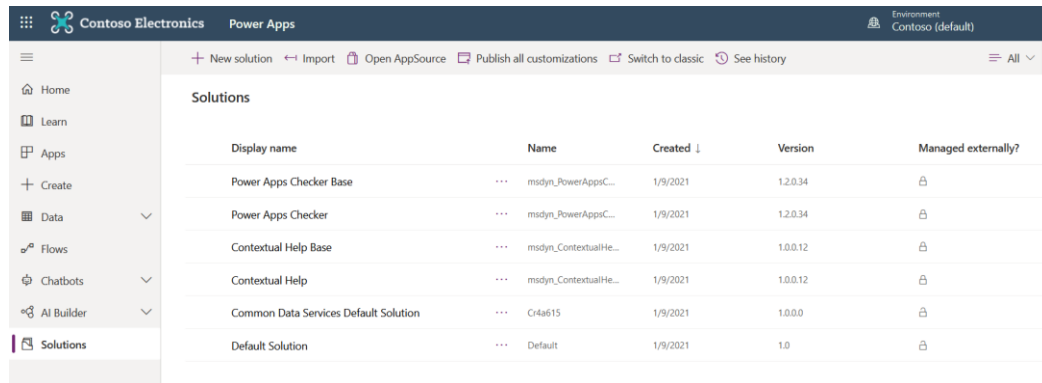
8. In the new solution screen, type the solution name: **Contoso Operation Project**.

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

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**

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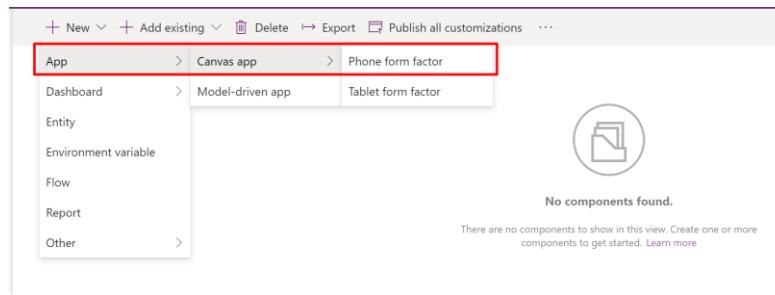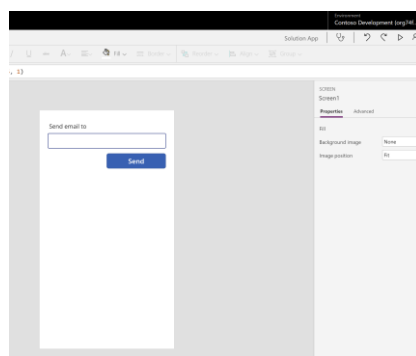
12. Select the created solution name.

13. The solution displayed is blank with no components found. Now you can start creating new or add from existing solutions or outside solutions.
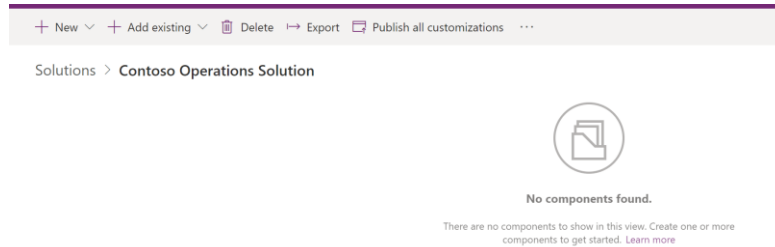
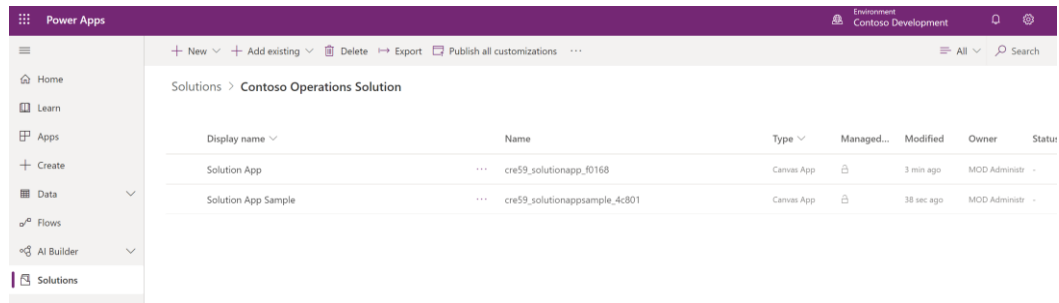14. Choose New → App → Canvas app → Phone form factor

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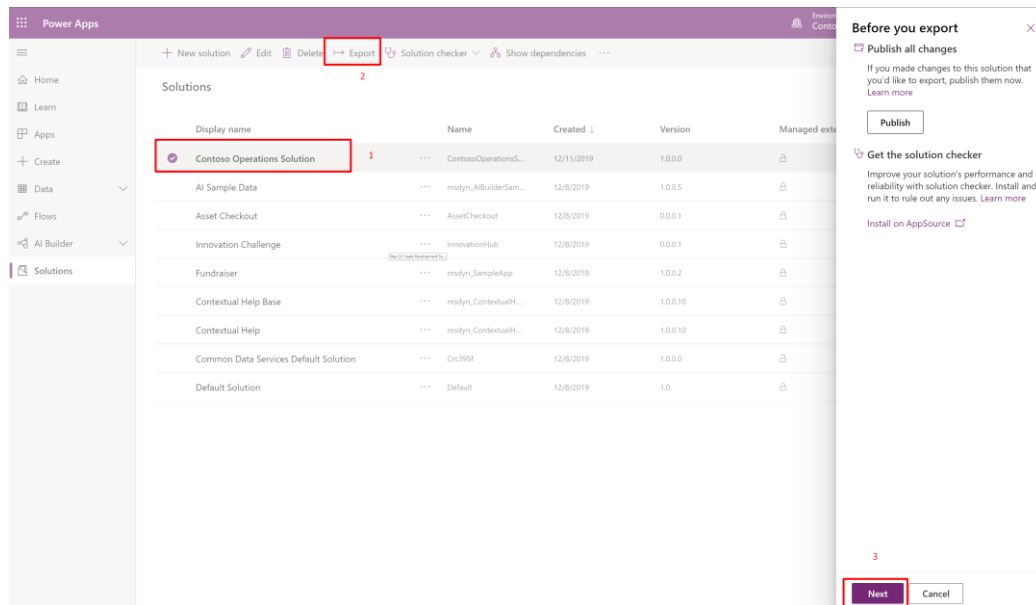

16. Create a second app with the same solution and name it, **Solution App Sample** and **Save** and **Publish** that one.

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.**

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**.

23. Import will take couple of minutes and when ready test the apps of the solution
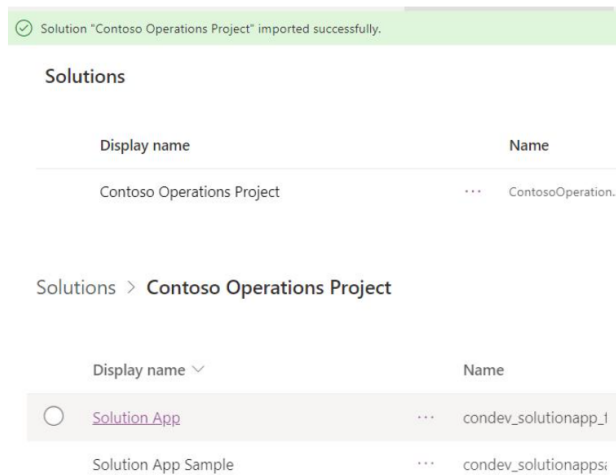
24. Switch to the **Contoso (default)** environment.

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** envoirnment 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.