

# Leveraging Power Apps for SAP on Azure Workshop

Deployment Guide of Complete Solution

March 2022

# Contents

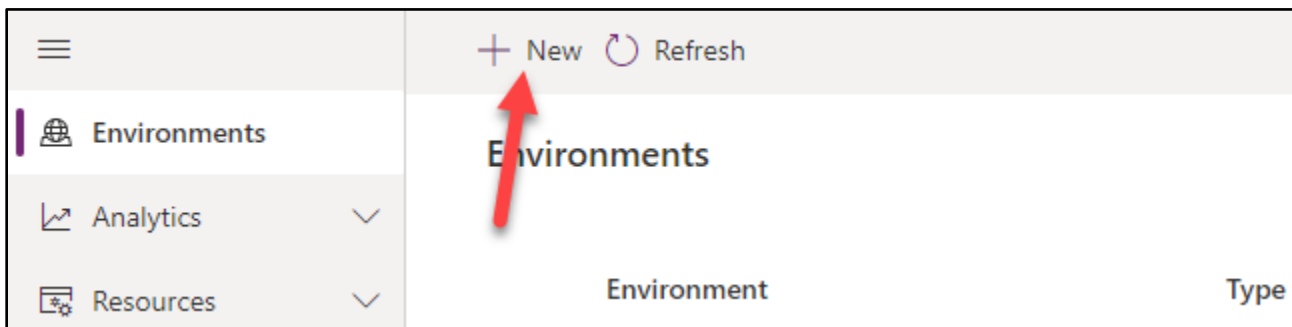
<b>Complete Solution</b>	<b>1</b>
<i>Task 1: Create a new environment</i>	<i>1</i>
<i>Task 2: Create Custom Connector</i>	<i>2</i>
<i>Task 3: Create Connection and test your Connector</i>	<i>6</i>
<i>Task 4: Import the app</i>	<i>9</i>
<i>Task 5: Test the app</i>	<i>18</i>

# Complete Solution

Follow the steps below to see the complete solution without completing the modules

## Task 1: Create a new environment

1. Open a new browser tab, navigate to [Power Apps admin portal](#), select **Environments** and click **New Environment**.



2. Provide an **Environment Name**, select **Trial** for **Type**, select **Region**, select **Yes**, for **Create** a database, and click **Next**.

A screenshot of the 'New environment' dialog box. It contains the following fields and controls:

- Name \***: A text input field containing 'Contoso Test'.
- Type ⓘ \***: A dropdown menu with 'Trial' selected.
- Region \***: A dropdown menu with 'United States' selected. Below it is a note: 'Local environments can provide quicker data access.'
- Purpose**: A text area with the placeholder 'Describe the environment purpose'.
- Create a database for this environment? ⓘ**: A toggle switch set to 'Yes'.
- At the bottom are two buttons: 'Next' (highlighted in purple) and 'Cancel'.

3. Select **Language**, **URL**, and **Currency**. Choose **Yes** for **Deploy sample apps and data** and then click **Save**.

**Add database**

**Language \***  
Default language for user interfaces in this environment  
English

**URL \***  
AIADTrial  
crm.dynamics.com

**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 production environment. You can create trial [here](#)

**Deploy sample apps and data**  
☒ Yes

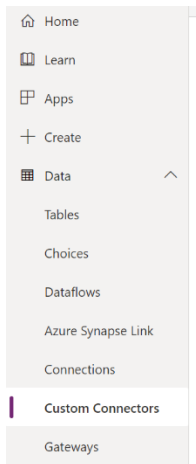
**Security group**  
Restrict environment access to people in this security group. Otherwise, everyone can access. [Learn more](#)  
+ Select

**Save** **Cancel**

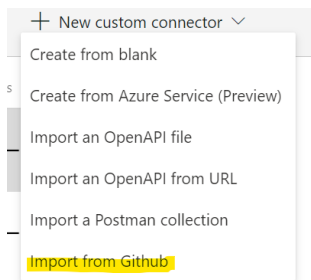
4. Wait for the environment to be created.

## Task 2: Create Custom Connector

1. Open Power Apps [Power Apps maker portal](#) and navigate to Data->Custom Connectors on the right panel



1. From the New custom connector on the right choose Import from Github



2. Choose Connector Type- Custom, Branch: master and Connector SAP-ODATA-Demo and choose Continue

A screenshot of the 'Import from Github' configuration window. The window has a title bar and a GitHub logo in the top right. The main content area includes a link 'Click here to explore the open source repository', a 'Connector Type' section with 'Custom' selected, a 'Branch' dropdown set to 'master', and a 'Connector' dropdown set to 'SAP-ODATA-Demo'. At the bottom are 'Continue' and 'Cancel' buttons.

Import from Github

[Click here](#) to explore the open source repository

Connector Type

☐ Certified ☒ Custom

Branch

master

Connector

SAP-ODATA-Demo

Continue Cancel

3. Change the name of your connector to SAP-ODATA-<yourname>  
Optionally change the icon or icon background color.

← Connector Name **SAP-ODATA-MARYSOL**


1. General > 2. Security > 3. Definition > 4. Code (Preview) > 5. Test

Swagger Editor ✓ Create connector ✕ Cancel

### General information

Add an icon and short description to your custom connector. Your host and base URL will be automatically generated from the swagger file.

#### General information



Upload connector icon  
Supported file formats are PNG and JPG. (< 1MB)

↑ Upload

Icon background color

Description

☐ Connect via on-premises data gateway [Learn more](#)

Scheme \*  
☒ HTTPS ☐ HTTP

Host \*

Base URL

Security →

The host for ES5 has been filled out already by the template.

4. Click **Security**


← Connector Name SAP-ODATA-MARYSOL

1. General > 2. Security > 3. Definition > 4. Code (Preview) > 5. Test

Swagger Editor ✓ Create connector ✕ Cancel

### General information

Add an icon and short description to your custom connector. Your host and base URL will be automatically generated from the swagger file.



Upload connector icon  
Supported file formats are PNG and JPG. (< 1MB)

↑ Upload

Icon background color

A color to show behind the icon (e.g., '#007ee5')

Description

SAP ODATA Demo using a custom connector. This connects to the sample ODATA service provided by SAP. This connector is provided as a sample as-is, for illustrative purpose only.

☐ Connect via on-premises data gateway [Learn more](#)

Scheme \*

☒ HTTPS ☐ HTTP

Host \*

sapes5.sapdevcenter.com

Base URL

/

Security →

5. Leave it as it is. Our new connector will be using Basic Authentication. Click **Definition**

← Connector Name SAP-ODATA-MARYSOL

1. General > 2. Security > 3. Definition > 4. Code (Preview) > 5. Test

Swagger Editor ✓ Create connector ✕ Cancel

### Security

Choose the authentication type and fill in the required fields to set the security for your custom connector. [Learn more](#)

#### Authentication type

Choose what authentication is implemented by your API \*

Basic authentication

Edit

ⓘ Do NOT enter secrets here. These fields are used to configure display names for connections.

#### Basic authentication

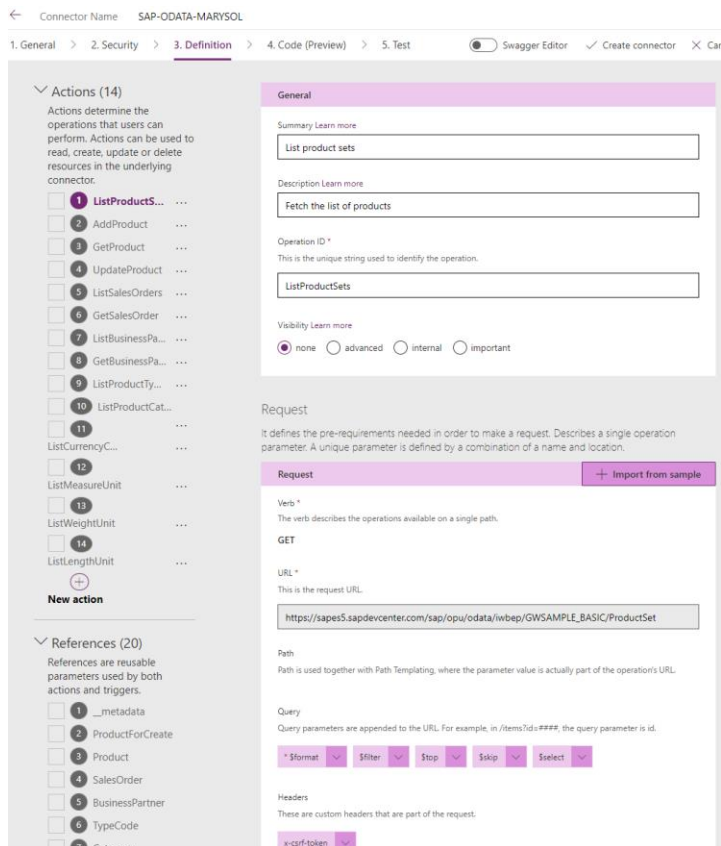
Users will have to provide a valid user name and password before using this API

Parameter label *	Parameter name
username	username
password	password

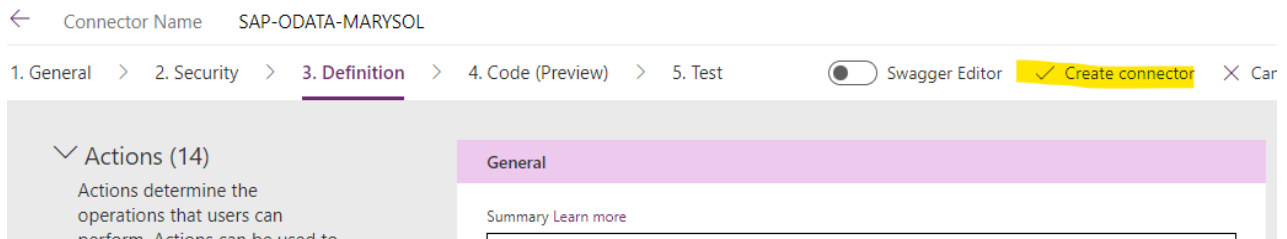
Edit

← General Definition →

6. In the Definition tab you can see all the actions available from the API. You can choose one from the left and look at the General, Request and Response to understand how the action looks like.



## 7. When ready Click **Create Connector**

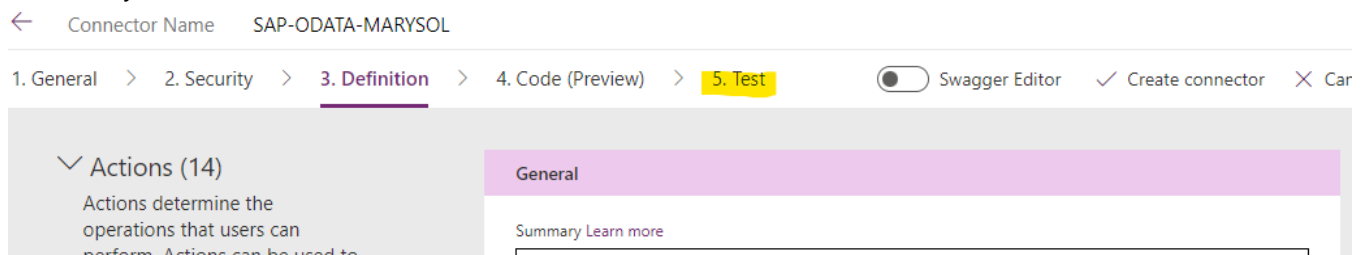


## 8. Your connector has been created and saved.

# Task 3: Create Connection and test your Connector

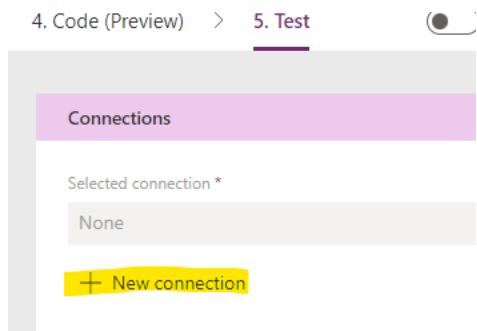
In this task, you will test your newly created connector.

## 2. Now that your connector has been created choose the **Test** tab

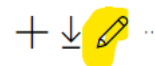
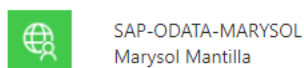


## 3. Before we can test the connector we need to create a Connection. For this you will require your ES5 user id and password from the pre-requisites.

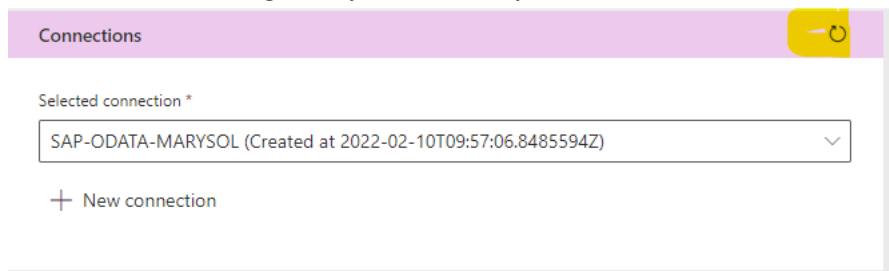


4. Choose **New Connection**5. In the pop up enter your P-number and password for ES5 and choose **Create**A screenshot of a dialog box titled 'SAP-ODATA-MARYSOL' with the Microsoft logo. The dialog contains a description: 'SAP ODATA Demo using a custom connector. This connects to the sample ODATA service provided by SAP. This connector is provided as a sample as-is, for illustrative purpose only.' Below the description are two input fields: 'Username \*' and 'Password \*'. The 'Password \*' field is masked with dots. At the bottom right, there are two buttons: 'Cancel' and 'Create'.

When the connection is created it you may have to navigate back to Data-> Custom Connectors and find your connector. Connectors should be in alphabetical order. Choose the pencil to go back to Edit mode.



Choose the Test tab again. If you don't see your connection click the refresh button in the Connections area



6. Now you should be ready to Test.
7. You can test some of the operations. For example, choose ListProductSets from the Operations list and enter 5 in the \$top parameter and click **Test Operation**.

In the Response area you should see the Top 5 Products data coming back from the SAP system.

The screenshot shows the 'SAP-ODATA-MARYSQL' connector interface in the 'Test' tab. On the left, a list of 14 operations is shown, with 'ListProductSets' selected and marked with a green checkmark. The main area displays the configuration for the 'ListProductSets' operation. The '\$format' is set to 'json', '\$filter' is empty, '\$top' is set to '5', '\$skip' is empty, '\$select' is empty, and 'x-csrf-token' is empty. A 'Test operation' button is visible. Below the configuration, the 'Request' and 'Response' tabs are shown. The 'Response' tab displays a successful status (200) and a JSON body containing product information.

Connector Name: SAP-ODATA-MARYSQL

1. General > 2. Security > 3. Definition > 4. Code (Preview) > **5. Test** Swagger Editor Update connector Close

**Operations (14)**  
These are the operations defined by your custom connector. This includes actions and triggers.

- ☒ **1 ListProductSets**
- ☐ 2 AddProduct
- ☐ 3 GetProduct
- ☐ 4 UpdateProduct
- ☐ 5 ListSalesOrders
- ☐ 6 GetSalesOrder
- ☐ 7 ListBusinessPartner
- ☐ 8 GetBusinessPartner
- ☐ 9 ListProductTypeC...
- ☐ 10 ListProductCateg...
- ☐ 11 ListCurrencyCode
- ☐ 12 ListMeasureUnit
- ☐ 13 ListWeightUnit
- ☐ 14 ListLengthUnit

**ListProductSets**

\$format \*  
json

\$filter

\$top  
5

\$skip

\$select

x-csrf-token

**Test operation**

**Request** **Response**

**Status**  
(200)

**Headers**

```
"sap-perf-fesrec": "261777.000000",  
"sap-processing-info": "ODataBEP=,crp=,RAL=,st=X,MedCacheHub=Table,MedCacheBEP=SHM",  
"sap-server": "true",  
"x-ms-apidhub-cached-response": "false",  
"x-ms-apidhub-obo": "true"
```

**Body**

```
{  
  "id": "https://sapes5.sapdevcenter.com/sap/opu/odata/iwbep/GWSAMPLE_BASIC/Product",  
  "uri": "https://sapes5.sapdevcenter.com/sap/opu/odata/iwbep/GWSAMPLE_BASIC/Product",  
  "type": "GWSAMPLE_BASIC.Product",  
  "etag": "W/\"datetime'2022-02-10T02%3A15%3A16.7282130\\\"\"",  
  "ProductID": "0003350",  
  "TypeCode": "PR",  
  "Category": "Accessories",  
  "Name": "MEDICAL PROBE",  
  "NameLanguage": "EN",  
  "Description": "To Be Filled In Later",  
  "DescriptionLanguage": "EN",  
  "SupplierID": "0100000047",  
  "SupplierName": "Becker Berlin",  
}
```

8. If you want to do another test choose the GetProduct operation and enter HT-1000 as the id and click Test Operation.

Operations (14)

These are the operations defined by your custom connector. This includes actions and triggers.

☒

1

ListProductSets

☐

2

AddProduct

☒

3

**GetProduct**

☐

4

UpdateProduct

☐

5

ListSalesOrders

☐

6

GetSalesOrder

☐

7

ListBusinessPartner

☐

8

GetBusinessPartner

☐

9

ListProductTypeC...

☐

10

ListProductCateg...

☐

11

ListCurrencyCode

☐

12

ListMeasureUnit

☐

13

ListWeightUnit

☐

14

ListLengthUnit

GetProduct

id \*

HT-1000

x-csrf-token

\$format \*

json

Test operation

Request

Response

Status

(200)

Headers

"sap-perr-resrec": "283416.000000",  
"sap-processing-info": "ODatBEP=,crp=,RAL=,st=,MedCacheHub=Table,codeployed=X,softstz",  
"sap-server": "true",  
"x-ms-apihub-cached-response": "true",  
"x-ms-apihub-obo": "true"

Body

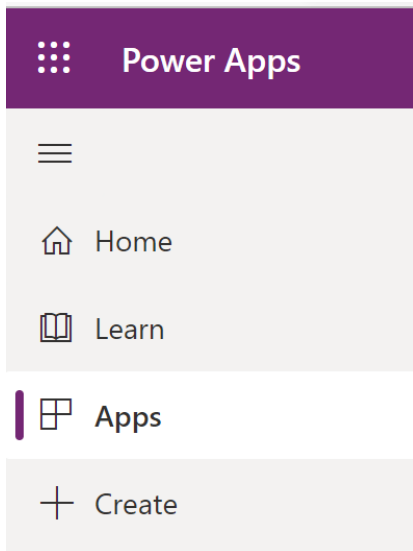
{"type": "GWSAMPLE\_BASIC.Product",  
"etag": "W/\"datetime'2022-02-10T00%3A01%3A31.0000000\""}  
},  
"ProductID": "HT-1000",  
"TypeCode": "PR",  
"Category": "Notebooks",  
"Name": "Notebook Basic 15",  
"NameLanguage": "EN",  
"Description": "Notebook Basic 15 with 2,80 GHz quad core, 15\" LCD, 4 GB DDR3 RAM, 500 C",  
"DescriptionLanguage": "EN",  
"SupplierID": "0100000046",  
"SupplierName": "SAP",  
"TaxTariffCode": 1,  
"MeasureUnit": "EA",

CONGRATULATIONS!! You have created your custom connector calling an SAP API of the ES5 system by using a Github Template. For more information about the template go to [GitHub](#)

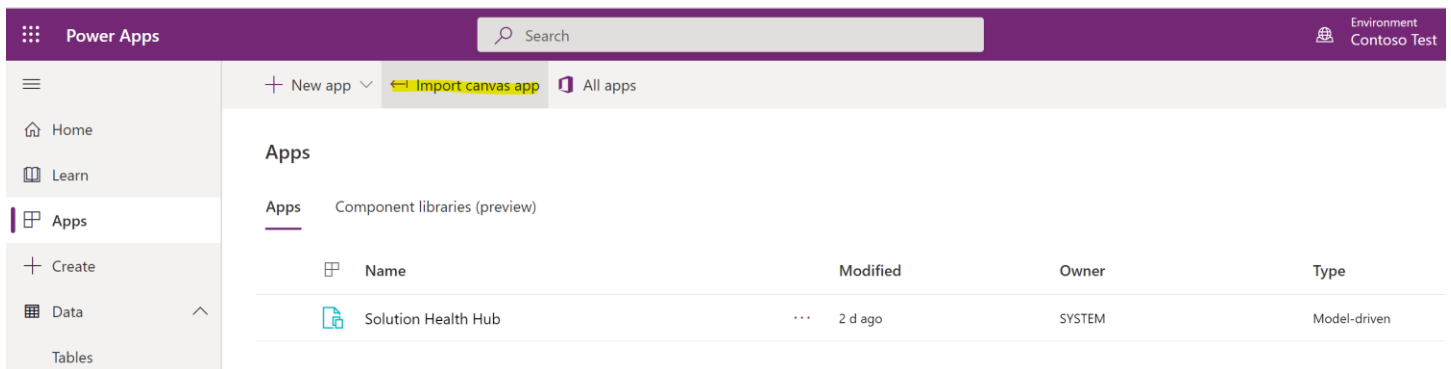
## Task 4: Import the app

In this task, you will import the completed module 4 solution.

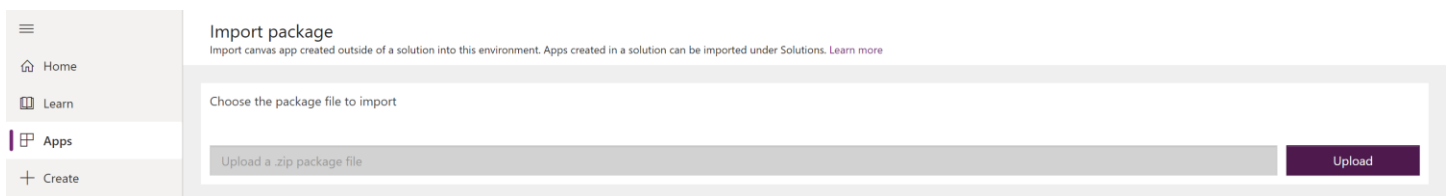
9. Navigate to [Power Apps maker portal](#)
10. Make sure you are in the **Contoso Test** Environment you created.
11. Select **Apps**.



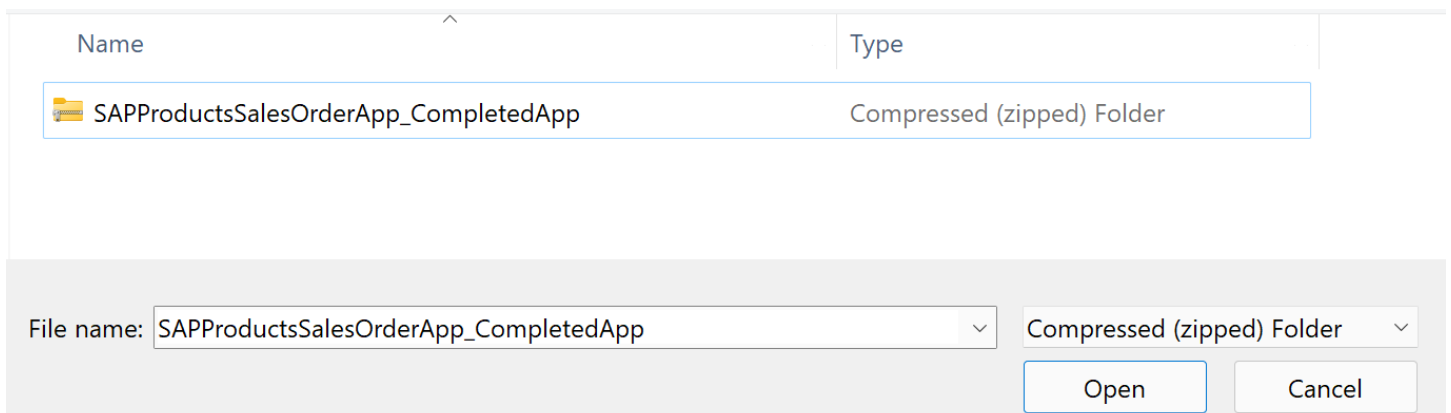
## 12. Click **Import canvas app**



## 13. Click **Upload**.



## 14. Select the **SAPProductsSalesOrderApp\_CompletedApp** zip file and click **Open**.



15. Wait for the solution to fully loaded and you will see the Review screen as below.

#### Import package

Import canvas app created outside of a solution into this environment. Apps created in a solution can be imported under Solutions. [Learn more](#)

#### Package details

Created by System Administrator on 03/14/2022

#### Name

SAP Products Sales Order App

#### Environment


CRM023140

#### Description

N/A

#### Review Package Content

Choose your import options.

NAME	RESOURCE TYPE	IMPORT SETUP	ACTION
 SAP Products Sales Order App	App	Create as new	

#### Related resources







NAME	RESOURCE TYPE	IMPORT SETUP	ACTION
 SAP-ODATA-Demo	Connector	Select during import	
 SAP Create Sales Order	Flow	Update	
 P2004833377	OData Connection	Select during import	

Import

Cancel

16. Click on **Configure icon** of **SAP-ODATA-DEMO Connector** and select the **Custom Connector** we just created earlier then Save.

#### Related resources

NAME	RESOURCE TYPE	IMPORT SETUP	ACTION
 SAP-ODATA-Demo	Connector	Select during import	
 SAP Create Sales Order	Flow	Update	
 P2004833377	OData Connection	Select during import	

Import setup ✕

**Setup**

Select during import ▼

The package creator chose this setup. You can make changes to the import here.







---

The connection or custom API already exists in the environment and must be selected when this package is imported.

NAME	RESOURCE TYPE
SAP-ODATA-Nghiem	9 min ago

17. Click on **Configure icon** of flow **SAP Create Sales Order** and Select Setup **Create as New** and Save

Related resources

NAME	RESOURCE TYPE	IMPORT SETUP	ACTION
 SAP-ODATA-Demo	Connector	Select during import	
 SAP Create Sales Order	Flow	Update	
 P2004833377	OData Connection	Select during import	

Import setup ✕

**Setup**

Create as new ▼

The package creator chose this setup. You can make changes to the import here.

---







This app or flow will be new to the environment when the package is imported.

**Resource name \***

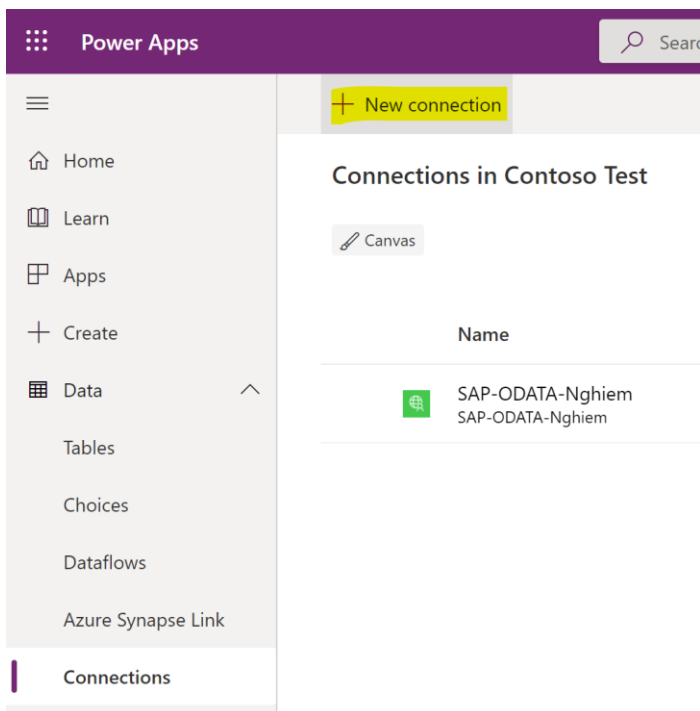
SAP Create Sales Order

18. Click on **Configure icon** of **P2004833377 ODATA Connection** and select Create New

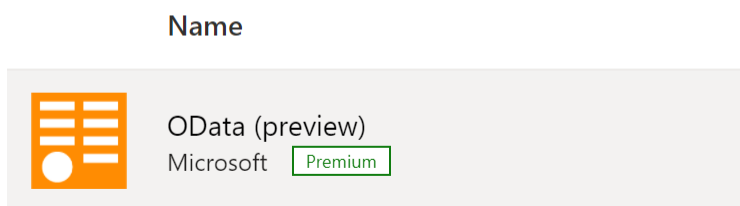
## Related resources

NAME	RESOURCE TYPE	IMPORT SETUP	ACTION
 SAP-ODATA-Demo	Connector	<a href="#">Select during import</a>	
 SAP Create Sales Order	Flow	<a href="#">Update</a>	
 P2004833377	OData Connection	<a href="#">Select during import</a>	


## Select New connection



Select **OData (preview) Connector**

## Connections &gt; New connection



Enter ES5 user id and password from the pre-requisites again in OData Connection and select Create



OData  
Microsoft  Preview  Premium

The OData connector can be used to invoke an ODATA service for performing various operations like create, read, update and delete of entities, as well as invoking functions on the service.

Authentication Type \*

Basic

Username \*

P2004833377

Password \*

.....

Cancel

Create

Go back to the Import package tab, we should see the **P2004833377 connection** now. Select and Save.

## Import setup


### Setup

Select during import

The package creator chose this setup. You can make changes to the import here.

The connection or custom API already exists in the environment and must be selected when this package is imported.

+ Create new

 Refresh list

NAME	RESOURCE TYPE	
P2004833377	1 min ago	✓



**Note:** If you cannot find the OData Connector, in the new tab that opens in Power Automate add **?addConnectorHideKey=odataconnector** at the end of the URL to be able to use the OData connector that is in preview.

19. Now we have all the related resources, we can click **Import**.

#### Import package

Import canvas app created outside of a solution into this environment. Apps created in a solution can be imported under Solutions. [Learn more](#)

#### Package details

Created by System Administrator on 03/14/2022



**Name**  
SAP Products Sales Order App

**Environment**  
CRM023140







**Description**  
N/A

#### Review Package Content

Choose your import options.

NAME	RESOURCE TYPE	IMPORT SETUP	ACTION
 SAP Products Sales Order App	App	<a href="#">Create as new</a>	

Related resources


NAME	RESOURCE TYPE	IMPORT SETUP	ACTION
 SAP-ODATA-Demo	Connector	<a href="#">Select during import</a> SAP-ODATA-Nghiem	
 SAP Create Sales Order	Flow	<a href="#">Create as new</a> SAP Create Sales Order	
 P2004833377	OData Connection	<a href="#">Select during import</a> P2004833377	

Import

Cancel

20. Once the app is imported successfully, open the app to test and publish.

## SAP Products Sales Order App

 All package resources were successfully imported.

**Next steps ...**

- Open and test your app in the Power Apps Studio. [Open app](#)
- If the app is working, [share](#) your app with your organization.

21. Make sure we Allow all connections when opening the app

Almost there ...

SAP Products Sales Order App needs your permission to use the following.  
Please allow the permissions to proceed.



SAP-ODATA-Nghiem  
SAP-ODATA-Nghiem  
Signed in

[Switch account](#)



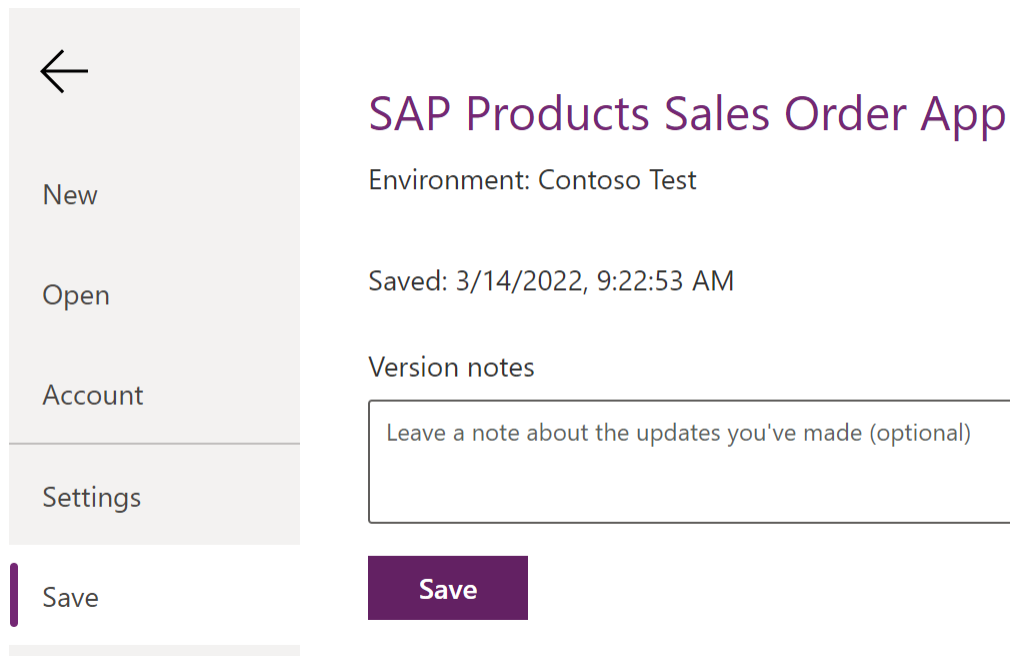
ODATA Preview Premium  
P2004833377  
Signed in


[Switch account](#)

Allow

Don't Allow

22. Select **File** > **Save**; Hit **Save** then **Publish** the app



  
New  
Open  
Account  
Settings

## SAP Products Sales Order App

Environment: Contoso Test

Saved: 3/14/2022, 9:23:43 AM

✓ All changes are saved.

**Publish** See all versions

Save

23. Go back to **make.powerapps.com**, environment **Contoso Test**. Select **Flows** and **Turn on** the Flow we just imported.

Power Apps

Search

Home

Learn

Apps

Create

Data

**Flows**

Chatbots

AI Builder

Solutions

+ New flow

Run

Edit


Share

Save As

...

Flows

Cloud flows Desktop flows Business process flows Shared with me

	Name	Modified
	SAP Create Sales Order	28 min ago

Run

Edit

Share

Save As

Send a copy

Export

Run history

**Turn on**








Repair tips off

Delete

Details

## Flows

[Cloud flows](#)[Desktop flows](#)[Business process flows](#)[Shared with me](#)








	Name	
 	SAP Create Sales Order 	  

## Task 5: Test the app

1. Select Apps tab, click on the ... button of the application you imported and click Play.

## Apps

[Apps](#)[Component libraries \(preview\)](#)

	Name	Modified
 	SAP Products Sales Order App	 1 min ago
	Solution Health Hub	 Edit  Play

2. The first page is Business Partner List, you can navigate to Sales Order List by using the side menu

**SAP ODATA DEMO APP**  
SALES ORDERS (10000)

Molly Clark  
Procurement Agent

Search

Sales Order ID	Company	Customer ID	Net Value	Tax Amount	Gross Value	Delivery Status	Note
0500003365	Anav Ideon	0100000014	\$5,125.4	\$973.82	\$6,099.22	Delivered	EPM DG: SO ID 0500.
0500003390	HEPA Tec	0100000013	\$5,125.4	\$973.82	\$6,099.22	Delivered	EPM DG: SO ID 0500.
0500003394	New Line Design	0100000012	\$10,000.	\$1,900.	\$11,900.	Delivered	EPM DG: SO ID 0500.
0500010036	African Gold And Di...	0100000036	\$96.	\$18.24	\$114.24	Initial	EPM DG: SO ID 0500.
0500010037	Siwusha	0100000042	\$438.	\$83.22	\$521.22	Initial	EPM DG: SO ID 0500.
0500010038	PicoBit	0100000037	\$345.8	\$65.7	\$411.5	Initial	EPM DG: SO ID 0500.
0500010039	Bionic Research Lab	0100000038	\$4,917.	\$934.23	\$5,851.23	Initial	EPM DG: SO ID 0500.
0500010034	Danish Fish Trading ...	0100000043	\$4,911.	\$933.08	\$5,844.08	Initial	EPM DG: SO ID 0500.
0500010035	Sorali	0100000044	\$95,508.5	\$18,146.61	\$113,655.11	Initial	EPM DG: SO ID 0500.
0500010028	PicoBit	0100000037	\$4,363.4	\$829.05	\$5,192.45	Initial	EPM DG: SO ID 0500.

3. Select the **Plus** icon to create a new Sales order

4. On the Product list screen, select few items to add to cart then select button **Go to cart**

**SAP ODATA DEMO APP**  
PRODUCTS (129)

Molly Clark  
Procurement Agent

Search

Wireless DSL Router / Repeater and P...  
Price: \$69

- 2 +

Wireless DSL Router / Repeater (avail...  
Price: \$59

- 0 +

Wireless DSL Router (available in blue...  
Price: \$49

- 0 +

Color webcam, color, High-Speed USB  
Price: \$39

- 0 +

USB 2.0 High-Speed 64 GB  
Price: \$35

- 5 +

Universal card reader


4800 dpi x 1200 dpi - up to 35 ppm (...)


4800 dpi x 1200 dpi - up to 35 ppm (...)

1000 dpi x 1000 dpi - up to 35 ppm (...)

Universal Travel Adapter

5. On the Sales order review screen, check the list of products, select Customer and Delivery Date; add Note if needed then hit Save Order

**SAP ODATA DEMO APP**  
CREATE SALES ORDER

Molly Clark  
Procurement Agent





Customer

Asia High tech

Delivery Date

3/30/2022

Selected Products

	Wireless DSL Router / Repeater and Print Server	+	2	-	×
	Smartphone Alpha	+	2	-	×
	Notebook Professional 17	+	1	-	×
	USB Stick	+	5	-	×

Note

Urgent order. Need before end of month.

Order Summary

Sales Orders

CUSTOMER NAME

**Asia High tech (0100000006)**

ADDRESS

**1-7-2 Otemachi**

CITY

**Tokyo**

COUNTRY

**JP**

POSTAL CODE


**100-0004**


DELIVERY DATE

**3/30/2022**


Save Order

6. Once the Sales Order is saved, it shows Confirmation Screen with new Sales Order number.

**SAP ODATA DEMO APP**  
CREATE SALES ORDER

Molly Clark  
Procurement Agent


0500010040







New Sales Order 0500010040 has been created successfully in SAP system.

Back

7. Once Select Back, the app shows list of Sales Order again and the newly created order is on top of the list


**SAP ODATA DEMO APP**  
 SALES ORDERS (10001)

Molly Clark  
 Procurement Agent
 

Sales Order ID	Company	Customer ID	Net Value	Tax Amount	Gross Value	Delivery Status	Note
0500010040	Asia High tech	0100000006	\$3,810.	\$723.9	\$4,533.9	Initial	Urgent order. Need ..
0500003365	Anav Ideon	0100000014	\$5,125.4	\$973.82	\$6,099.22	Delivered	EPM DG: SO ID 0500.
0500003390	HEPA Tec	0100000013	\$5,125.4	\$973.82	\$6,099.22	Delivered	EPM DG: SO ID 0500.
0500003394	New Line Design	0100000012	\$10,000.	\$1,900.	\$11,900.	Delivered	EPM DG: SO ID 0500.
0500010036	African Gold And Di...	0100000036	\$96.	\$18.24	\$114.24	Initial	EPM DG: SO ID 0500.
0500010037	Siwusha	0100000042	\$438.	\$83.22	\$521.22	Initial	EPM DG: SO ID 0500.
0500010038	PicoBit	0100000037	\$345.8	\$65.7	\$411.5	Initial	EPM DG: SO ID 0500.
0500010039	Bionic Research Lab	0100000038	\$4,917.	\$934.23	\$5,851.23	Initial	EPM DG: SO ID 0500.
0500010034	Danish Fish Trading ...	0100000043	\$4,911.	\$933.08	\$5,844.08	Initial	EPM DG: SO ID 0500.
0500010035	Sorali	0100000044	\$95,508.5	\$18,146.61	\$113,655.11	Initial	EPM DG: SO ID 0500.
0500010028	PicoBit	0100000037	\$4,363.4	\$829.05	\$5,192.45	Initial	EPM DG: SO ID 0500.

# Copyright

Information in this document, including URL and other Internet Web site references, is subject to change without notice. Unless otherwise noted, the example companies, organizations, products, domain names, e-mail addresses, logos, people, places, and events depicted herein are fictitious, and no association with any real company, organization, product, domain name, e-mail address, logo, person, place or event is intended or should be inferred. Complying with all applicable copyright laws is the responsibility of the user. Without limiting the rights under copyright, no part of this document may be reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), or for any purpose, without the express written permission of Microsoft Corporation.

Microsoft may have patents, patent applications, trademarks, copyrights, or other intellectual property rights covering subject matter in this document. Except as expressly provided in any written license agreement from Microsoft, the furnishing of this document does not give you any license to these patents, trademarks, copyrights, or other intellectual property.

The names of manufacturers, products, or URLs are provided for informational purposes only and Microsoft makes no representations and warranties, either expressed, implied, or statutory, regarding these manufacturers or the use of the products with any Microsoft technologies. The inclusion of a manufacturer or product does not imply endorsement of Microsoft of the manufacturer or product. Links may be provided to third party sites. Such sites are not under the control of Microsoft and Microsoft is not responsible for the contents of any linked site or any link contained in a linked site, or any changes or updates to such sites. Microsoft is not responsible for webcasting or any other form of transmission received from any linked site. Microsoft is providing these links to you only as a convenience, and the inclusion of any link does not imply endorsement of Microsoft of the site or the products contained therein.

© 2022 Microsoft Corporation. All rights reserved.

Microsoft and the trademarks listed at <https://www.microsoft.com/en-us/legal/intellectualproperty/Trademarks/Usage/General.aspx> are trademarks of the Microsoft group of companies. All other trademarks are property of their respective owners.