

# BPM Toolkit Setup guide (preview)

@sergeluca

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# Installing the BPM Toolkit (preview)

The set-by-step instructions are described in the following video: (link to do)

1. Download the file **BPMToolkit Setup\_12\_24\_2020.zip** from GitHub.



Create an  
Office 365  
trial Tenant


2. (Video 4'10'') Create an Office 365 E3 trial from the following URL:

<https://www.microsoft.com/en-us/microsoft-365/enterprise/office-365-e3?activetab=pivot%3aoverviewtab>

I've skipped some steps in the video for privacy reasons (phone numbers, e-mail...)

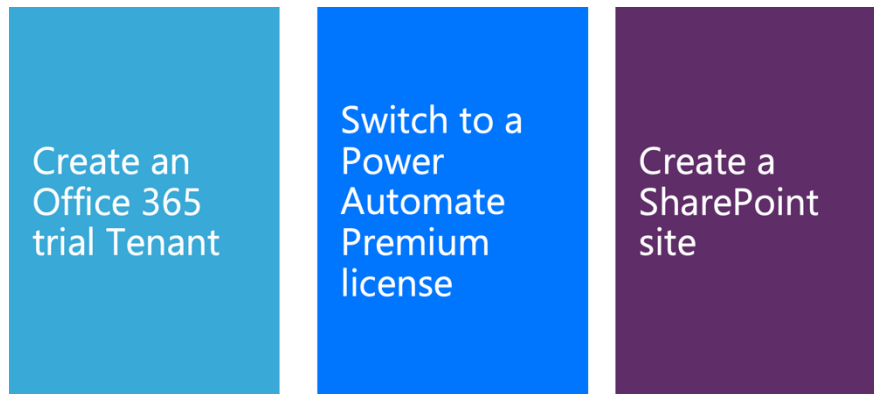


Create an  
Office 365  
trial Tenant

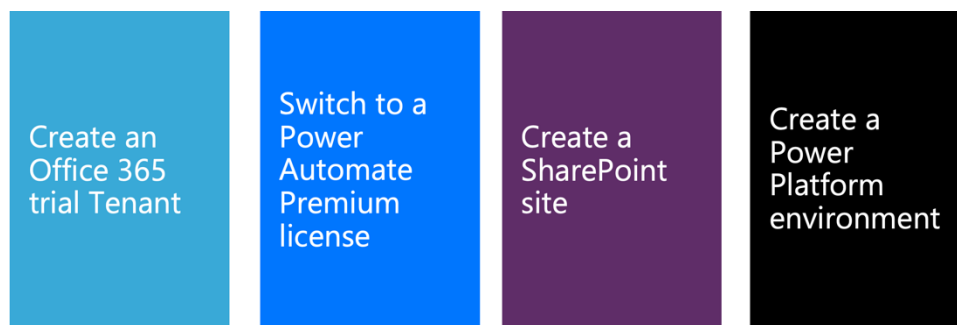


Switch to a  
Power  
Automate  
Premium  
license

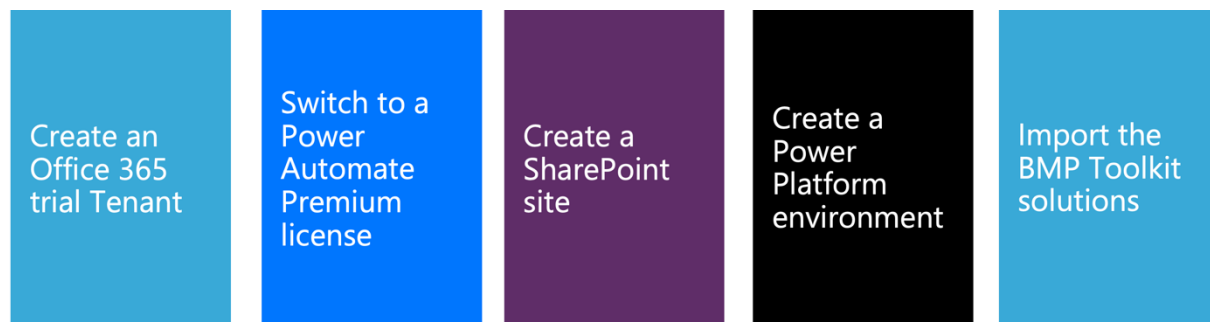
3. (Video 8' 16'') Select a Power Automate **Per user trial plan with attended RPA**; use this URL: <https://flow.microsoft.com/en-us/pricing/>



4. (Video 9' 14'') Create a SharePoint Online team site.

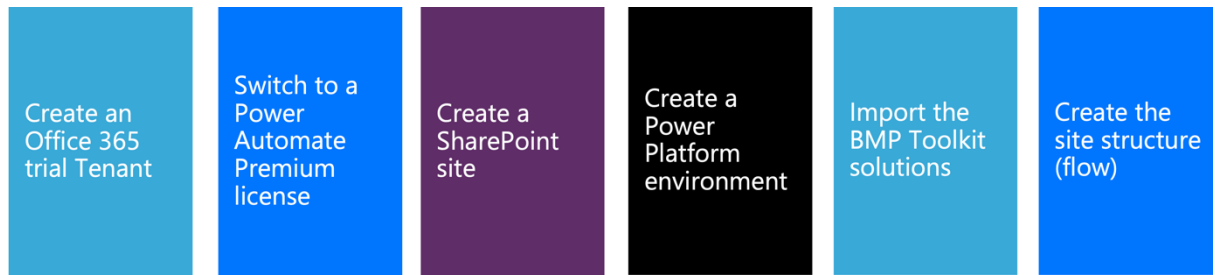


5. (Video 10' 49'') Create a trial Power Platform environment with a database.



6. (Video 12'00'') Decompress the BPM Toolkit setup file and import the solution packages in the following sequence (this will also create the corresponding references during the import):

- BPMToolkit.zip
- BPMToolkitALM.zip
- BPMToolkitDemo.zip



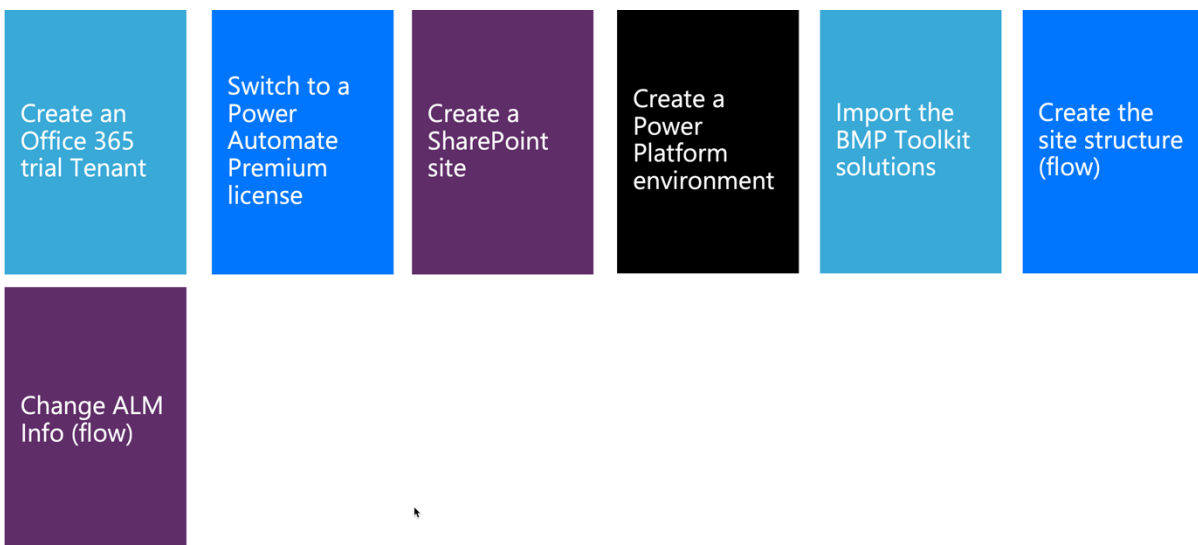
(Video 24') We will now create the **SharePoint site structure**

7. (Video 24'21'') Import the **AlmInfos.xlsx** file into the SharePoint document library.
8. (Video 26'20'') Update the Excel actions of the following flows to point to the new Excel document and table
  - a. BPM Toolkit – ALM – Search and Replace (2 actions to update)
  - b. BPM Toolkit – ALM – Update ALM Spreadsheet (1 action to update)
9. (Video 28'33'') Update the Excel document with your SharePoint site URL (in the “newstring” column, just in front of the old reference site). You have to fill in two cells with your site URL. (see the next picture). When the URL is stored in the 2 Excel rows, double-check to make sure it is the correct SharePoint URL!
10. (Video 29' 21'') Fill-in your service account in the new string:

| HRSA (last update: 28/10/2020)  |   |
|---|---|
| oldstring   | newstring   |
| <a href="https://tgaaccountecttaz.sharepoint.com/sites/HRSA">https://tgaaccountecttaz.sharepoint.com/sites/HRSA</a> | <a href="https://doctoflow12.sharepoint.com/sites/BPMToolkitcheck">https://doctoflow12.sharepoint.com/sites/BPMToolkitcheck</a> |
| <a href="https://tgaaccountecttaz.sharepoint.com/sites/hrsa">https://tgaaccountecttaz.sharepoint.com/sites/hrsa</a> | <a href="https://doctoflow12.sharepoint.com/sites/BPMToolkitcheck">https://doctoflow12.sharepoint.com/sites/BPMToolkitcheck</a> |
| xxxxxxxxxxxxxxxxxxxxxxxx  |   |
| 17213ae9-de77-4253-95e1-8b54abdbb754  |   |
| f08bf0d3-640f-47b8-b11d-f115ce2da3f8  |   |
| 818ba2d2-8ffd-4b49-a0ae-8a98122c1353  |   |
| 2a6ce768-78dd-4d63-846d-a2f363405e06  |   |
| 5ddad7a8-b0a0-478e-a0b8-9cb331f2366e  |   |
| 39c2cd37-727b-4a3b-997e-d47b7581f431  |   |
| 3ff93b33-c7e3-4a14-972e-d020274f1649  |   |
| 119859b3-b8f6-475a-b261-ec14257ecf80  |   |
| 2b8001a1-cd77-4791-9747-648d3a3ef3dd  |   |
| b6cbeca7-6525-4b83-951b-d5c637d2ed31  |   |
| c19d39ae-0c39-4ded-a5d1-23066cdf36f6  |   |
| 18c7f151-c03c-4195-91d9-40e9794e5431  |   |
| <a href="mailto:poweraut@ecttaz.com">poweraut@ecttaz.com</a>  | <a href="mailto:sergeluca@doctoflow12.onmicrosoft.com">sergeluca@doctoflow12.onmicrosoft.com</a>                                |
| 2862f96a-f002-493e-bcbb-751a028bc842  |   |
| 5cd7b2eb-27c7-4cf0-a49a-3206a797562b  |   |
| 8d4cb579-c959-432e-a0d6-74ac2e6404e6  |   |
| 8358eafd-b13f-47c0-9198-2d3073ae5ed7  |   |



11. Ensure the Excel document is not open in Excel rich client (to avoid locking), but it can be open in Excel web.
12. (Not in the video!) Make sure all flows in the BPM Toolkit ALM solution are activated (turned on) and activate them all.
13. (Video 29' 42'') Run the flow **BPM Toolkit – ALM – Create BPM Toolkit structure** (in the BPM Toolkit ALM solution). This flow creates all the lists of your SharePoint site. The flow duration is between 6 and 9 minutes.
14. (Video 30'38'') Check your Excel document, all the entries must be filled in:

|   |   |
|---|---|
| HRSA (last update: 28/10/2020)  |   |
| oldstring   | newstring   |
| <a href="https://tgaaccountecttaz.sharepoint.com/sites/HRSA">https://tgaaccountecttaz.sharepoint.com/sites/HRSA</a> | <a href="https://doctoflow12.sharepoint.com/sites/BPMToolkitcheck">https://doctoflow12.sharepoint.com/sites/BPMToolkitcheck</a> |
| <a href="https://tgaaccountecttaz.sharepoint.com/sites/hrsa">https://tgaaccountecttaz.sharepoint.com/sites/hrsa</a> | <a href="https://doctoflow12.sharepoint.com/sites/BPMToolkitcheck">https://doctoflow12.sharepoint.com/sites/BPMToolkitcheck</a> |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxx  | 031c986b-4407-476d-a259-fa88c3bb682d  |
| 17213ae9-de77-4253-95e1-8b54bdbb754   | 4945cb61-7c7a-495f-8db5-f70ded294de9  |
| f08bf0d3-640f-47b8-b11d-f115ce2da3f8  | 01aab417-6721-4f8c-85ee-7e2743b58a21  |
| 818ba2d2-8ffd-4b49-a0ae-8a98122c1353  | 071724d3-56bd-4f6e-9d7e-37260803a5ac  |
| 2a6ce768-78dd-4d63-846d-a2f363405e06  | cbba3bbb-62b7-4a27-8302-5a1cd61d10e3  |
| 5ddad7a8-b0a0-478e-a0b8-9cb331f2366e  | a240e311-de7e-4371-8ae4-4a342577e809  |
| 39c2cd37-727b-4a3b-997e-d47b7581f431  | 5b75dc52-b9b1-4583-a8a9-9743f52c05d9  |
| 3ff93b33-c7e3-4a14-972e-d020274f1649  | 82c32b65-7b99-4832-8653-8885a0acca66  |
| 119859b3-b8f6-475a-b261-ec14257ecf80  | b7932558-f432-4ae2-b754-6a6d38afc017  |
| 2b8001a1-cd77-4791-9747-648d3a3ef3dd  | 7f2df1df-9c94-4c80-9727-92bd235fd148  |
| b6cbeca7-6525-4b83-951b-d5c637d2ed31  | 9312b6e4-d532-4f8b-ac8b-82bf9ce7c56e  |
| c19d39ae-0c39-4ded-a5d1-23066cdf36f6  | 3eb8219d-5107-43f3-9196-15051e304a11  |
| 18c7f151-c03c-4195-91d9-40e9794e5431  | f03cf5d6-66a2-4a67-9a8d-6a7e580f720c  |
| poweraut@ecttaz.com   | sergeluca@doctoflow12.onmicrosoft.com   |
| 2862f96a-f002-493e-bcbb-751a028bc842  | f61d9c0b-a039-4c2a-9600-bf8976cd949a  |
| 5cd7b2eb-27c7-4cf0-a49a-3206a797562b  | 492e10f3-b79d-4ad7-b7ad-d5babbfa1868  |
| 8d4cb579-c959-432e-a0d6-74ac2e6404e6  | 56cb77ae-32d5-4417-b5e9-cb57d55ca13b  |
| 8358eafd-b13f-47c0-9198-2d3073ae5ed7  | 95415804-9e02-43c1-9200-c0c8c05375c0  |




15. (Video 31'40'') Run the flow **BPM Toolkit – ALM \_ Search and Replace** (from the BPM Toolkit solution). Select the parameter “pass1”. This flow takes between 10 and 15 minutes to complete.
16. Double-check that all flows have been activated:
  - a. in the BPM Toolkit solution (except for the **BPM Toolkit workflow runtime**)
  - b. in the BPM Toolkit Demo solution
  - c. (Video 35'31'') In the BPM Toolkit solution, edit the flow **BPM Toolkit – Delegation – Pending task to delegate**.
    - i. Edit the setting Run only users:

**Connection References** [Edit](#)

 BPM Toolkit SP Connection ref [Permissions](#) sergeluca@doctoflow12.onmi 

**Owners** [Edit](#)

 serge luca

**Run only users** [Edit](#)

Your flow hasn't been shared with anyone.

ii. Change to setting to use your service account:

#### Connections Used

These connections will provide the users listed here to have run-only access to this flow. Unless providing their own connection, run-only users will not have access to these connections outside this flow.



SharePoint

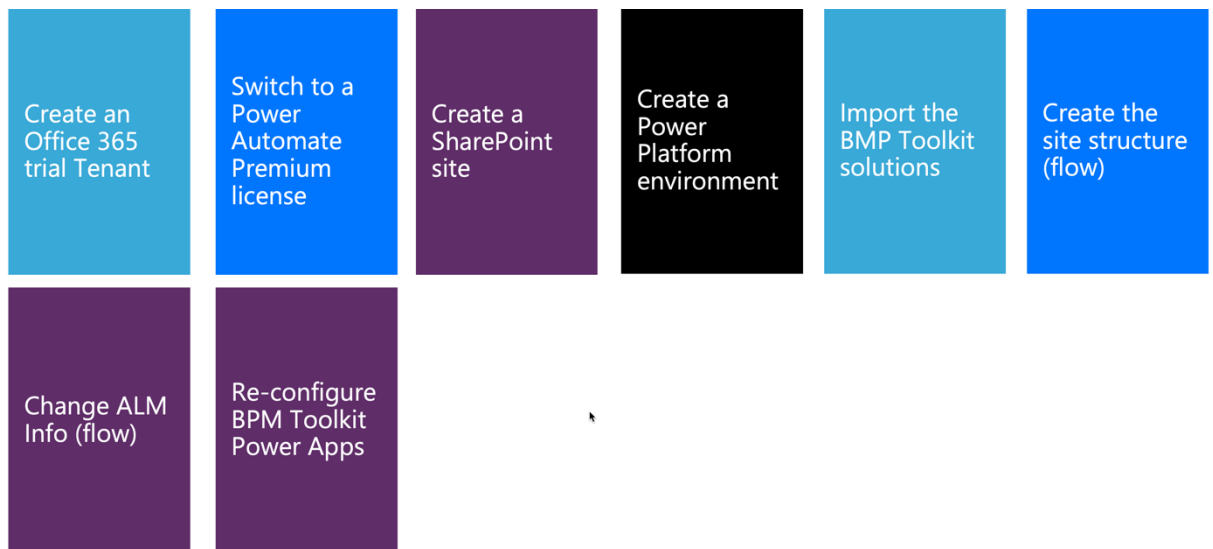
Run-only users will be asked to provide their own connection to this connector.

Use this connection (sergeluca@doctoflow12.onmicrosoft.com) ▼

And save the change.

Usually, this modification is automatically done for all flows who need it, but we still need to understand why we must force it manually. We will automate that later.

17. (Video 35'39'') Run the flow **BPM Toolkit – ALM \_ Search and Replace** (from the BPM Toolkit solution). Select the parameter “**pass2**”. This flow takes less than a minute to complete.
18. Check to make sure all flows, including the **BPM Toolkit – Workflow Runtime**, have been activated.
19. Check in the **BPM Toolkit Demo** solution that the flow **PPA-Submit Form Data - Proxy** has been activated. Activate it manually if it is not activated.
20. (not in the video) Go to the BPM Toolkit solution and run the flow **BPM Toolkit – Configuration** (pass the e-mail of your service account as a parameter).



Now we are ready for **re-configuring the BPM Toolkit Power Apps applications:**  
([Video 37'00''](#))

| Solutions        | Applications                          |
|------------------|---------------------------------------|
| BPM Toolkit      | BPM Toolkit – Workflow Control Center |
| BPM Toolkit      | BPM Toolkit – Workflow Panel          |
| BPM Toolkit      | BPM Toolkit – Your Dashboard          |
| BPM Toolkit Demo | PPA_Order                             |

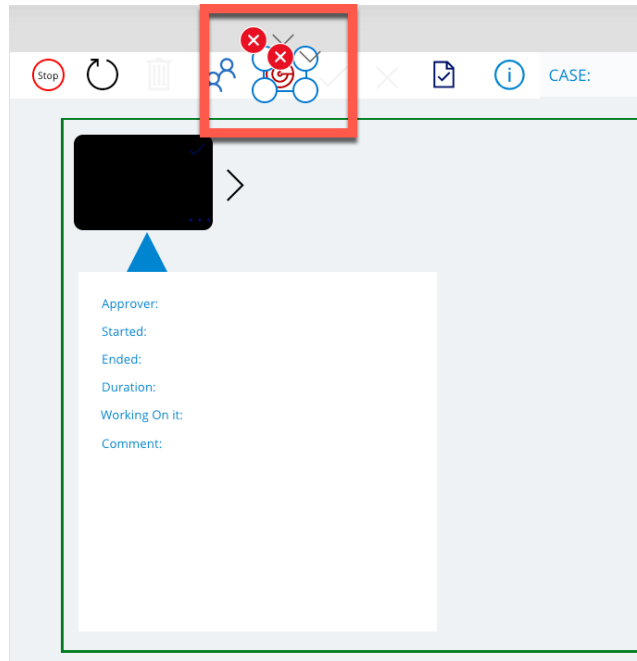
21. ([Video 37' 52''](#)) Edit the Power Apps application **BPM Toolkit – Workflow Control Center**

- Remove the following datasources:
  - **BPM Statistics**
  - **BPM Person in Roles**
  - **Case Lifecycle**
  - **Case Workflows**
- Add the same data sources by adding the SharePoint connector (provide your site URL, and select the corresponding lists).
- Remove the datasource BPMToolkit – Statistics – GetMainKPI Proxy
- To avoid breaking the existing source code, add a screen, select the screen, and add the Power Automate action. Make sure you are pointing to the correct flow. Many flows are duplicated like “flow xxxx” and “flow xxx proxy”; the distinction of the flow names is confusing in Power Apps.
- Remove the dummy screen you have added.
- Save, publish, and share the application with everyone.

22. (Video 44' 45'') Edit the Power Apps application **BPM Toolkit – Workflow Panel**

- Remove the datasources:
  - **Cases**
  - **BPM Internal Messages**
  - **BPM Persons in Roles**
  - **BPM Roles**
  - **Case Workflows**
  - **Case Lifecycle**
  - **BPM Parameters**
- Add the same data sources by adding the SharePoint connector (provide your site URL, and select the corresponding lists).
- Remove the flow datasources :
  - **BPMToolkit-RemoveCaseProxy**
  - **BPMToolkit-Messages-AddMessageToCaseProxy**
  - **BPMToolkit-SkipOrReassignStepProxy**
  - **BPMToolkit.ActonTaskProxy**
  - **BPMToolkit-StopWorkflowProxy**
  - **BPMToolkit-InsertnewStepProxy**
  - **BPMToolkit.RedirecttoActorProxy**
  - **BPMToolkit-RedirectToStepproxy**
  - **BPMToolkit-TakeCaseStepOwnershipProxy**
  - **BPMToolkit-ReleaseStepOwnershipProxy**
- Add a screen, and add the reference to the previous flows and remove this dummy screen
- You should see the following error in the “Single-case Workflow Screen”:





Update the code with the suffix proxy:

```
'BPMToolkit-ReleaseStepOwnership'.Run(
'BPMToolkit-ReleaseStepOwnershipProxy'.Run
```

- Save, publish and share the application with everyone
- Copy the Application URL.
- Edit the application Workflow Center, open the event OnVisible of FullDashboard screen and replace the Workflow panel URL you've copied and don't forget to append the url with the query string **?itemid=**

```
Set(
    gblCaseDetailUrl,
    "https://apps.powerapps.com/play/fbb93025-9466-4951-a5d2-b8aad9c9c4cc?tenantId=2798645b-6f00-414c-8a15-e35c7009f7fd?itemid="
);
```

- Save, publish, and share with everyone the Workflow Control Center application.

## 23. (Video 1h06'00'') Edit the Power Apps application **BPM Toolkit – Your Dashboard**

- Remove the data sources:
  - **Case Lifecycle**
  - **BPM Forms**
  - **Case Delegations**
  - **Cases**
- Add the same datasources by adding the SharePoint connector (provide your site URL, and select the corresponding lists).
- Remove the flow data sources:

- **BPMToolkit-Delegation-CreatenewDelegationProxy**
- **BPMToolkit-Delegation-RemoveDelegationProxy**
- **BPMToolkit-ActonTaskProxy**
- **BPMToolkit-StopWorkflowproxy**
- **BPMToolkit-RemoveCaseproxy**

- Add a screen, and add the reference to the previous flows and remove this dummy screen.
- Save, publish, and share the application with everyone.

24. (Video 1h15'05'') Edit the Power Apps application **PPA\_ORDER** (you will find it in the BPM Toolkit Demo solution). This is a demo application that we will detail in another tutorial.

- Remove the data sources:

**PPA\_ORDERS**  
**PPA-SubmitDataToBPMToolkit**

- Add the same data source, by adding using the SharePoint connector (provide your site URL, and select the corresponding lists).
- Add a dummy screen, add the reference to the flow, and remove the dummy screen.
- You will quickly notice an error in the screens **OrderFormScreen** and **ToWorkflowScreen**
- Edit the errors and update the code like this:

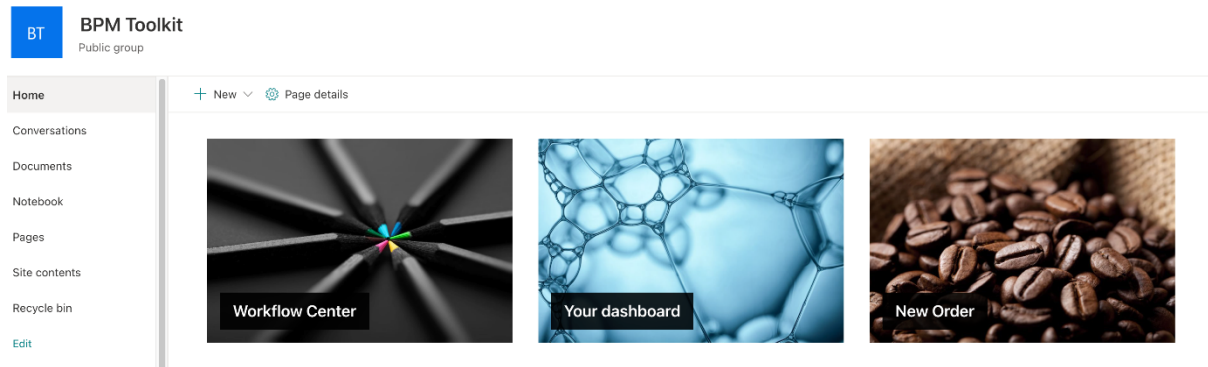
```

    }
  );
  Set ( newOrder, 'PPA-SubmitFormData-Proxy'.Run(
    JSON(
      gblOrder,
      JSONFormat.IndentFour
    ),
    "PPA_ORDER"
  ));

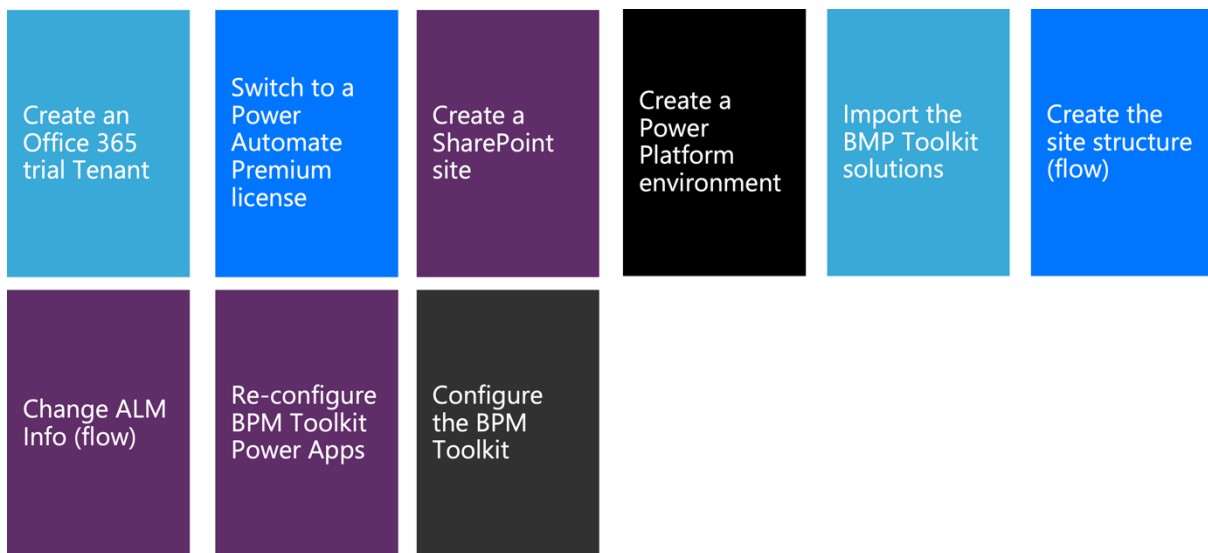
```

- Save, publish, and share the application with everyone.

25. (Video 1h20'00'') Edit the SharePoint site homepage, add a new 3 columns section, and add 3 pictures like this:



The pictures should point to the Power Apps Workflow Command Center (not the Panel), the Dashboard, and the Order applications. Grab their URLs and paste them in the corresponding picture settings.



The BPM Toolkit has been configured. What will follow is what we will have to do for each new request, and like before, more automation will be provided in the next releases of the BPM Toolkit ☺. A flow will automatically perform the following actions. But right now, you have to do it manually.

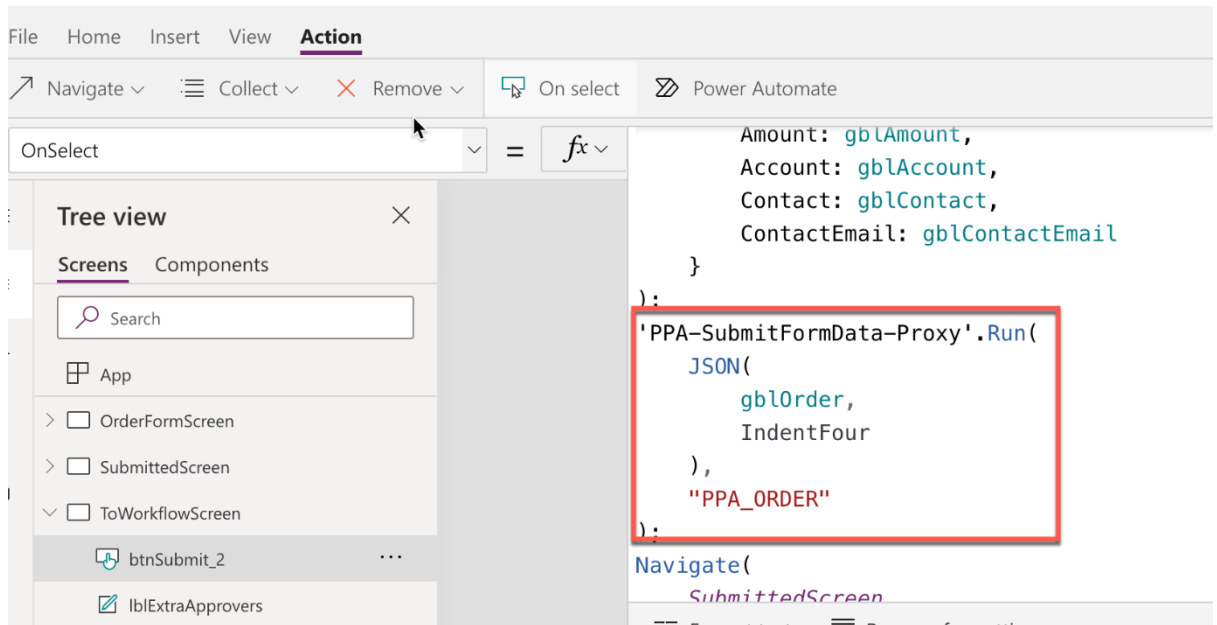
26. You will now configure the BPM Toolkit for the following scenario:

**A user submits an order.**

The order must be reviewed by 3 teams of people:

ORDER\_SUPPORT\_PARIS,  
ORDER\_SUPPORT\_NYC,  
ORDER\_SUPERVISOR

27. If you edit the PPA\_ORDER application, you will notice that when the user submits his order request, the type of request must be provided to the BPM Toolkit: in this case, the type of request is **"PPA\_ORDER"**: (Video 1h27'51")



Nothing else has been configured yet regarding this type of request—Let's see what happens when we submit an order.

28. The BPM Toolkit is designed to deal with highly confidential information, like HR, medical data, or defense sensitive data. Therefore, the information related to the request must be end to end secured:
29. only the user who submits the information (or the person who submits the request on behalf of the user) can see the information.  
If the request is submitted for review/approval, only people in the review/approval pipeline can see the information. This is typically the case in HR or DOD (Department of Defense) systems.

30. (Video 1h28'30'') Let's define a SharePoint security group for the type PPA\_ORDER.

- Go to the SharePoint list **BPM Security Groups for Case**. Add a new entry: type PPA\_ORDER in the Case Type column. Save the information.
- (Video 1h29'05'') We will specify the Security group associated with PPA\_ORDER in the security group column, but let's define the SharePoint security group.
  - a. Go to the **site settings- site permissions- advanced permissions settings**
  - b. Create a Group named PPA\_ORDER\_GROUP with **read** permissions.
- (Video 1h30'14'') Go to the SharePoint list **BPM Security Groups for Case** and select PPA\_ORDER\_GROUP in the security group column

BPM Security groups for Case

| Title | Case Type | Security Group  | Security Group... |
|-------|-----------|-----------------|-------------------|
|       | PPA_ORDER | PPA_ORDER_GROUP |                   |

31. (Video 1h30'41'') On your SharePoint home page, click on the new Order picture.
32. Fill in the form:

**New Order**

Power Platform Associates

Product:  
Tesla 2021

Amount:  
50.000

Account:  
Paul

Contact:  
John

Contact e-mail:  
serge@ppa.com

On Behalf of:  
sergeluca@doctoflow12.onmicrosoft.com

Submitter:  
sergeluca@doctoflow12.onmicrosoft.com

**Save (Draft)** **Submit to approval**

(Video 1h32'31'') Click on **Save (Draft)**. No workflow has been defined yet for the PPA\_ORDER request, so we will just try to save, view, and edit the form. The form calls a flow that will store the right in a dedicated list. Each request type must have its dedicated list (or Entity in the Dataverse version of the BPM Toolkit).

The PPA\_ORDER requests are saved in the PPA\_ORDERS list and are secured by the BPM Toolkit.

Saving a request (even in draft mode) already creates a Case. If you check the Case list, you will see your request.

Go to your SharePoint site homepage and click on the picture Your Dashboard.

The Dashboard is where users can manage all their requests, approve/review tasks, and delegate their activities to other users for a specific timeframe.

Your request is a draft; filter the draft requests by clicking on the grey circle:

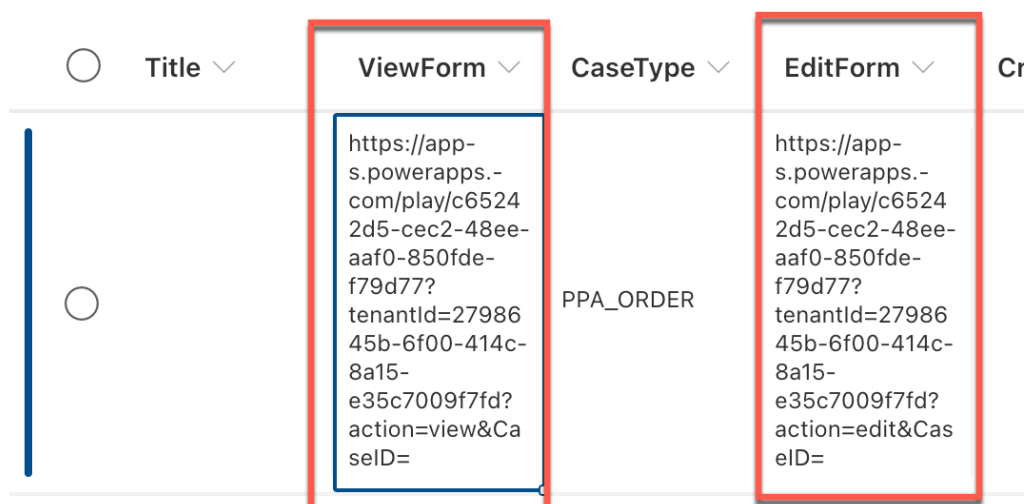


If you want to edit, view the request, click the icon in the Action column (don't click the delete icon yet) : nothing happens. The reason is that when a request is created, the associated View and Edit forms must be specified. You will do it in the next step.

33. (Video 1h34'21'') To associate these forms with the request PPA\_ORDER:

- Copy the PPA\_ORDER application URL
- go to the SharePoint list **BPM Forms**
- Create a new entry with CaseType = PPA\_ORDER, paste the app URL in ViewForm and EditForm.
- For ViewForm append the url with **?action=view&CaseID=**
- For EditForm append the url with **?action=edit&CaseID=**


## BPM Forms



34. Go back to MyDashboard app, refresh the app in the browser (F5) and view and edit your request and save it. Check if the modifications have been saved. Don't submit the request for approval yet; we still have to define the workflow logic for the review/approval.

## Define request Categories

35. If you take a look at the MyDashboard the type column of your draft request is empty



All





Waiting

Rejected

Approved


Draft

Stopped









| Status  | Submitted on     | Request Id                      | Name of requester | Type | Action  |
|---|------------------|---------------------------------|-------------------|------|---|
|  | 22/12/2020 09:40 | Req-2020-12-22T09:40:33.6694635 | sergeluca         |      |    |

36. (Video 1h41'29'') This is the request category. Let's define the request category in the BPM Case Categories: add the following entries:

### BPM Case Categories

| Title ▾  | Workflow ▾ | Case Category ▾ | Case Type Int... ▾ | Case Type Frie... ▾ | + |
|--|------------|-----------------|--------------------|---------------------|---|
|  |            | PPA_ORDER       | PPA_ORDER          | PPA_ORDER           |   |

The existing request won't get the category name, but if you create a new draft request you will see the category:

| Status  | Submitted on     | Request Id                      | Name of requester | Type      | Action  |
|---|------------------|---------------------------------|-------------------|-----------|---|
|  | 22/12/2020 10:52 | Req-2020-12-22T10:52:14.3105561 | sergeluca         | PPA_ORDER |    |
|  | 22/12/2020 09:40 | Req-2020-12-22T09:40:33.6694635 | sergeluca         |           |    |

Let's define the **workflow**.

The logic is our PPA\_ORDERS must be reviewed by 3 teams that we will define and name:

ORDER\_SUPP\_PARIS  
ORDER\_SUPP\_NYC  
ORDER\_SUPERVISORS

37. (Video 1h41'59'') Go to the **Meta workflows** list and define 3 entries (1 for each step of the workflow):

## Meta Workflows

| Title ▾ | Step ▾ | Actor ▾           | Type of actor ▾ | CaseType ▾ | ActionExpected ▾ |
|---------|--------|-------------------|-----------------|------------|------------------|
| ⌵       | 0      | ORDER_SUPP_PARIS  |                 | PPA_ORDER  | Feedback         |
| ⌵       | 1      | ORDER_SUPP_NYC    |                 | PPA_ORDER  | Feedback         |
| ⌵       | 2      | ORDER_SUPERVISORS |                 | PPA_ORDER  | Feedback         |

We need to define what exactly the actors are.

38. (Video 1h44'06'') Define the actors in the **BPM Roles** list.

## BPM Roles

| Title ▾ | Role ▾            |
|---------|-------------------|
| ⌵       | ORDER_SUPP_PARIS  |
| ⌵       | ORDER_SUPP_NYC    |
| ⌵       | ORDER_SUPERVISORS |

39. (Video 1h45'20'') Define who is part of which role in the **BPM Persons in roles** list: Add your e-mail for each role.

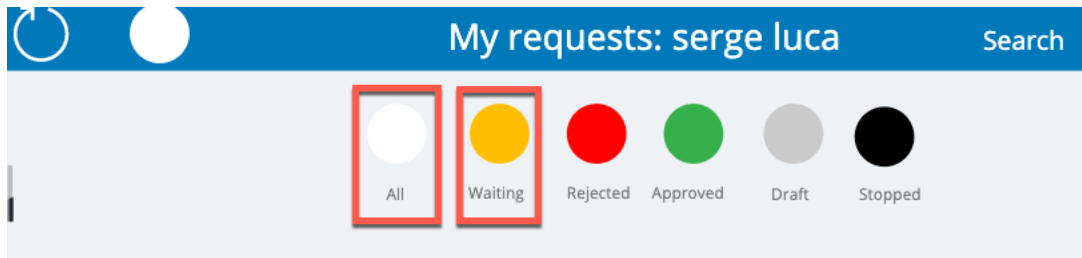
## BPM Persons in Roles

| Title ▾ | PersonEmail ▾                              | Active ▾ | Role ▾            | + / |
|---------|--|----------|-------------------|-----|
| ⌵       | sergeluca@doctorflow<br>12.onmicrosoft.com |          | ORDER_SUPERVISORS |     |
| ⌵       | sergeluca@doctorflow<br>12.onmicrosoft.com |          | ORDER_SUPP_NYC    |     |
| ⌵       | sergeluca@doctorflow<br>12.onmicrosoft.com |          | ORDER_SUPP_PARIS  |     |

40. (Video 1h46'37'') Go to the **MyDashoard** app, edit your request, and submit it for approval. Don't provide any extra approvers.



If you go back to MyDashboard, you will see that the request is not in the draft mode anymore; it is in the “All” category.



It can take a minute to generate and to secure the workflow steps. Click the refresh button until you see that the request becomes orange. At some point (in the waiting category), you will see that the system generates the steps very slowly.

After 1 minute, you should see this:

A screenshot of the "My requests" dashboard. At the top, there is a header with the "Power Platform Associates" logo and a status filter bar. Below the header, there is a table with the following columns: Status, Submitted on, Request Id, Name of requester, Type, and Action. The table contains one row with a yellow status icon, the date "22/12/2020 12:58", the request ID "Req-2020-12-22T12:58:53.6146742", the requester name "sergeluca", and the type "PPA\_ORDER". Below the table, there is a section titled "Order for sergeluca" which displays a workflow diagram. The diagram shows three steps: "SUPP\_PARIS" (orange box), "SUPP\_NYC" (grey box), and "SUPERVISORS" (grey box), connected by right-pointing arrows.

Next (to be inserted in the document)

Follow the procedure in the video from 1h50 to use the Workflow Command Center.

The Workflow command center is to be used by Officers.

The MyDashboard is for anyone:

- To follow the submitted requests,
- To delegate tasks
- To approve/review/comment tasks

This is not a user guide that illustrates all the functionalities of the BPM Toolkit. What you have seen so far is only a subset of the BPM Toolkit functionalities. This guide will be shared soon.

