



# Power Automate Flows with Dataverse

## - Deployment Practices-

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**What is the Best Practice  
to migrate  
Power Automate Flows?**

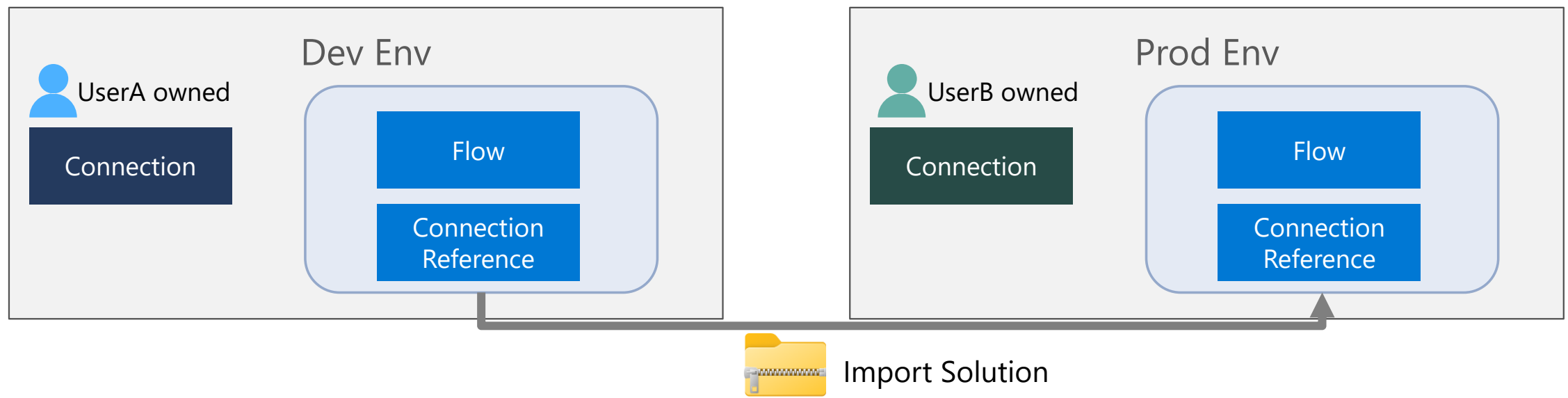
**Why would my Flows get  
deactivated every time after  
importing solution?**

# Common Challenges

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## ☹ Flows get deactivated after importing solution

- Cause
  - No connection reference
  - Connection Reference exists, but Connection doesn't exist
  - Connection Reference and Connection exists, but import user cannot read that Connection in a target env



# Common Challenges

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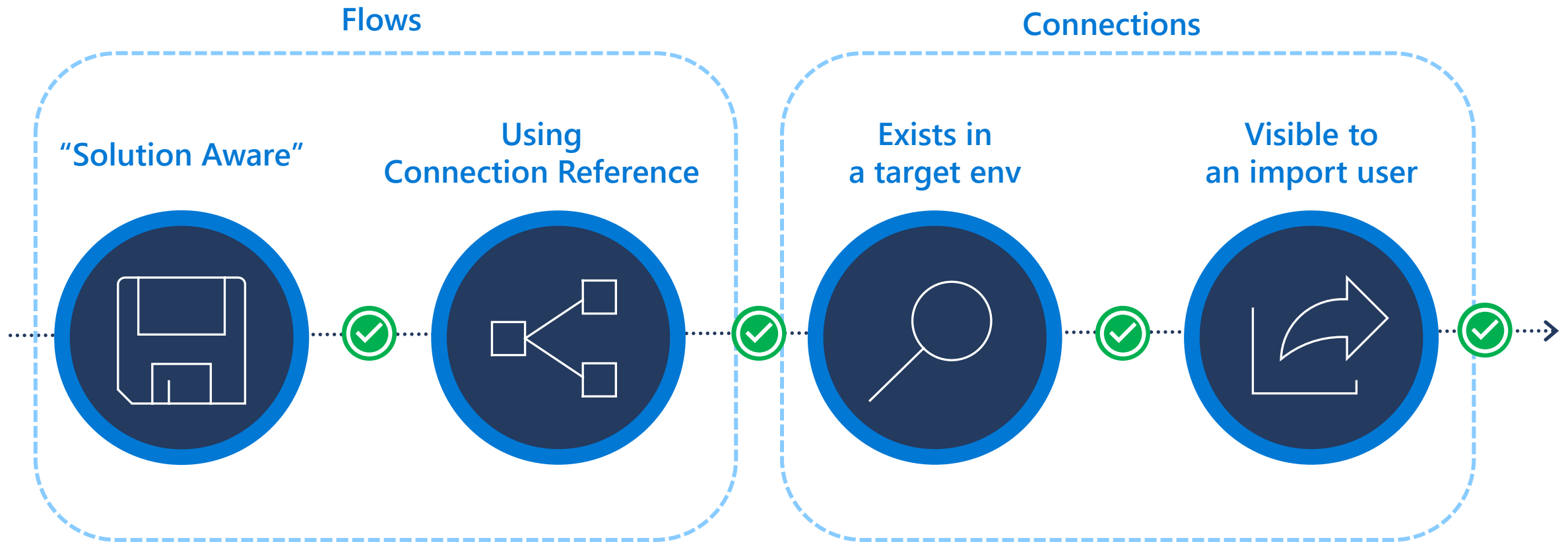
## ☹️ Flows get deactivated after importing solution

- Owner of a connection matters
  - Connections can only be read by the **Owner** who created them.
  - You will see the issue when...
    - Multiple members in your team are working on the same solution and any of them may perform solution import.
    - You are using Azure DevOps pipeline with Service Principal to import solutions
- If your Flows get deactivated,
  - You can reactivate flows from UI, PowerShell, or Flow (with impersonation if necessary)
  - However, you need to fix problems around connections first, if you have one

**Migrate Flows  
without getting deactivated**

# Migrate Flows without getting deactivated

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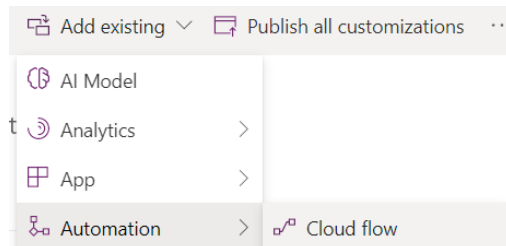


# Are your Flows...

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## “Solution Aware”?

- If you have created your flows in your solution in maker page, they are solution aware.
- If you haven't,
  1. Open your solution and “**Add existing**” -> “**Automation**”->“**Cloud flow**”



2. Select “**Outside Dataverse**” tab in “Add existing cloud flows” pane, add your flow(s)

## Using Connection Reference?

- If you have created a new flow from “**+New**” in your solution, Connection Reference was automatically created.
- If you have added your flow from “**Add existing**”, Connection Reference was **NOT** automatically created.
  - To create a connection reference, see: [Updating a flow to use connection references instead of connections](https://learn.microsoft.com/en-us/power-apps/maker/data-platform/create-connection-reference#updating-a-flow-to-use-connection-references-instead-of-connections) (<https://learn.microsoft.com/en-us/power-apps/maker/data-platform/create-connection-reference#updating-a-flow-to-use-connection-references-instead-of-connections>)

# Connections in a target env...

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## Already exists?

- "Connection" itself cannot be carried in solutions.
- If connection doesn't exist in target environment, you need to create manually before/when you import solutions with connection references.
- This needs to be done from UI (You cannot create connections with API so far)

## Visible to an import user?

- Connection is owned by an user who created it.
  - An user who import a solution needs to own connections for flows in that solution
  - Or...
- You can "share" connection with **Service Principals**, but **not with other users**
- If you are importing solutions from...
  - **Pipelines:** You need to share connections with the service principal you will use for your pipeline.
  - **UI(maker page):** You need to use a single user account.

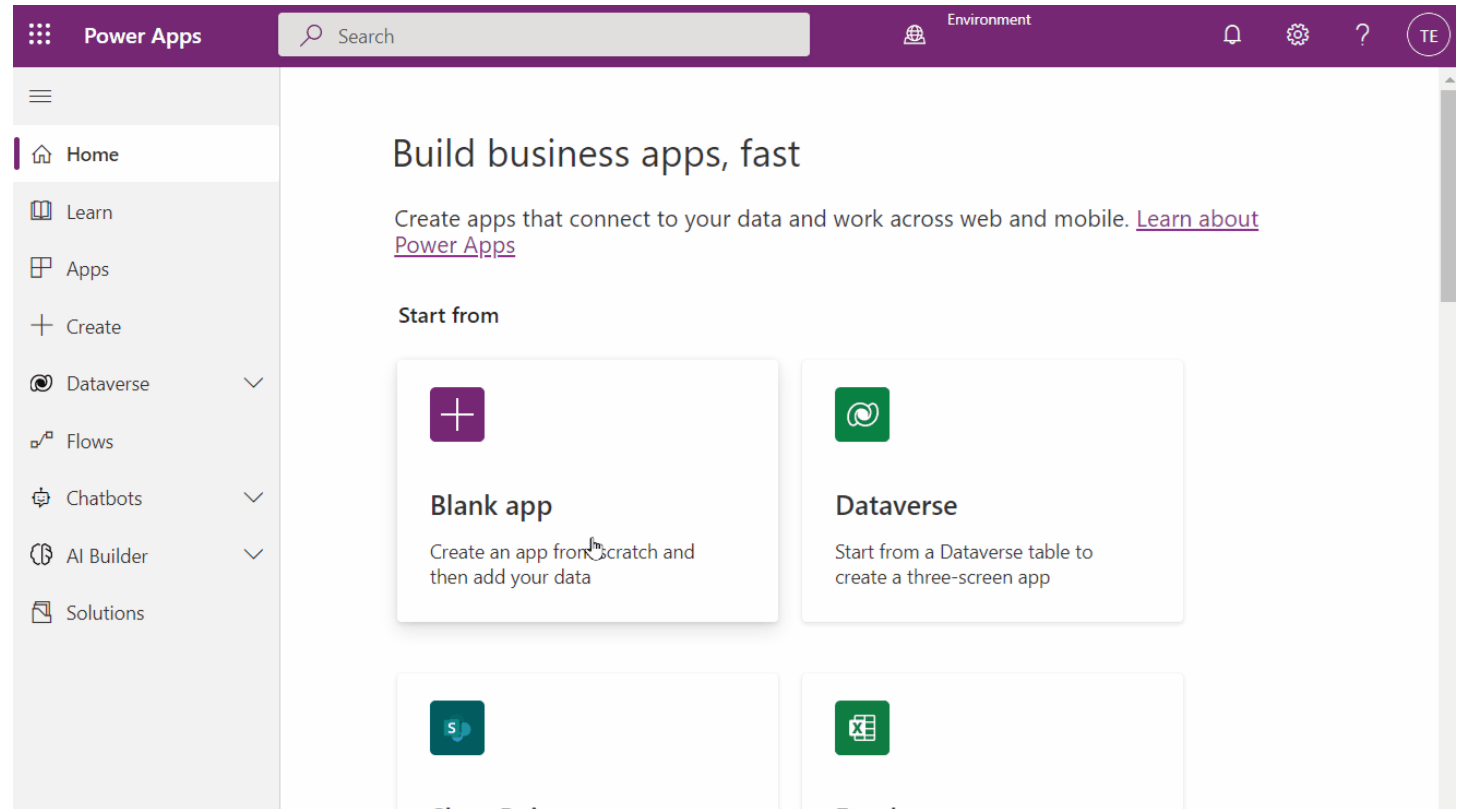
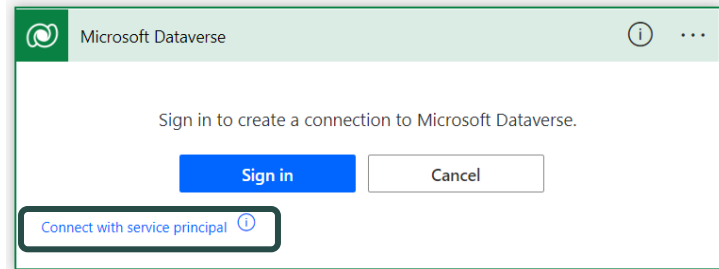


# Share connections with Service Principals

## How to share?

- Go to "make.powerapps.com"
- Click "Dataverse"->"Connections"
- Find connection you want to share
- Click "..."->"Share"

- **Note 1: Connection Owner is different from "Connect with Service Principal"**



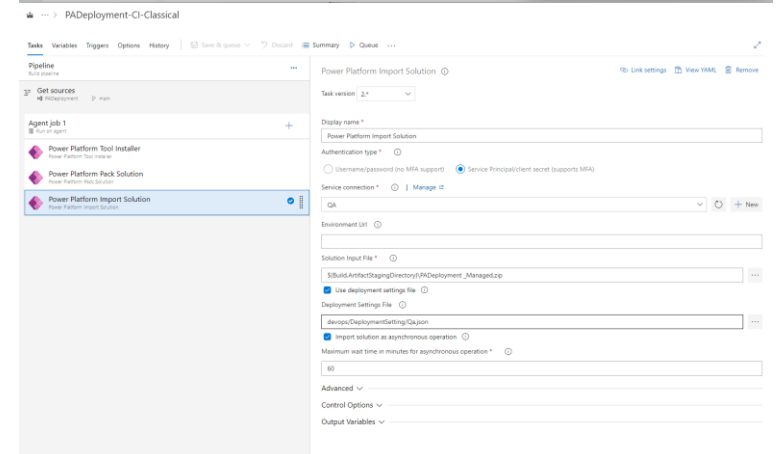
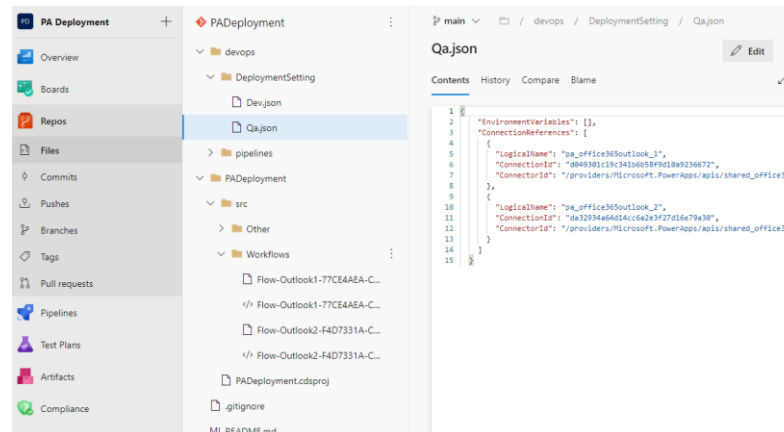
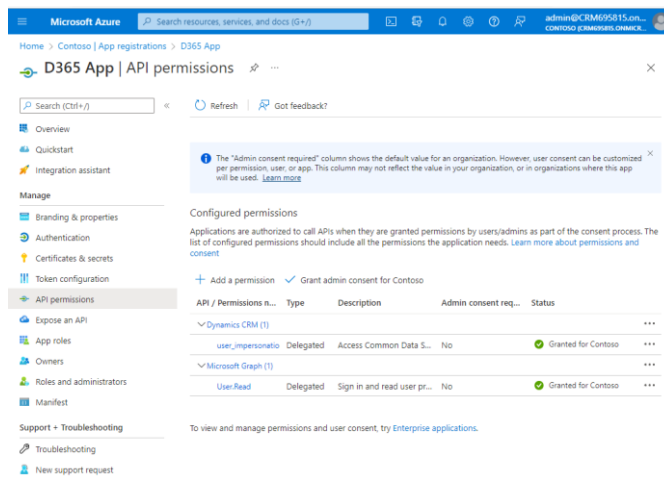
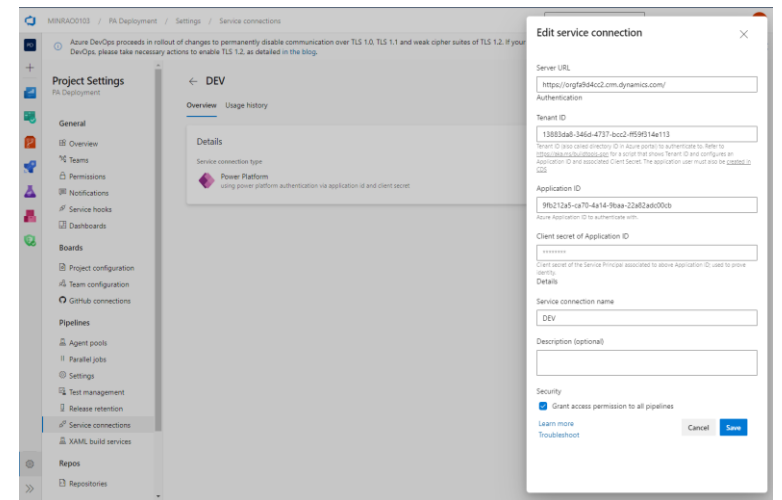
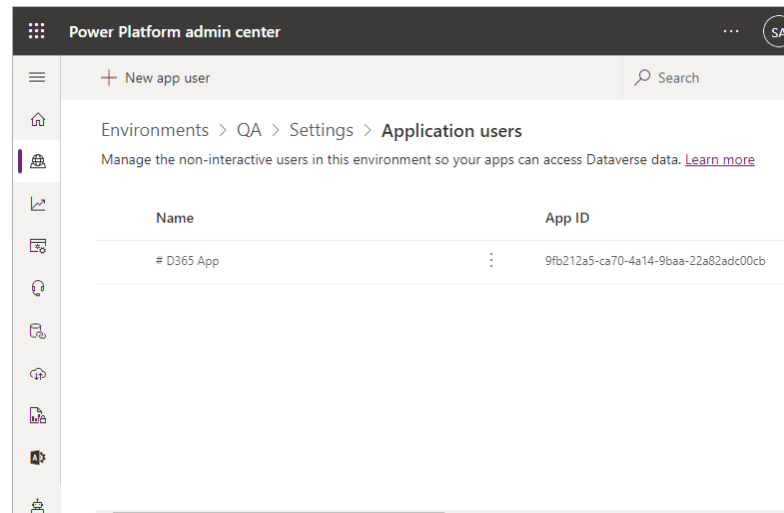
- **Note 2: Power Platform Request Limits are applied based on the Owner of a Flow itself, not Connection Owner**  
[Types of Power Automate licenses - Power Platform | Microsoft Learn](#)

# Deploy Flows with Azure Pipelines

# Deploy Flows with Azure Pipelines

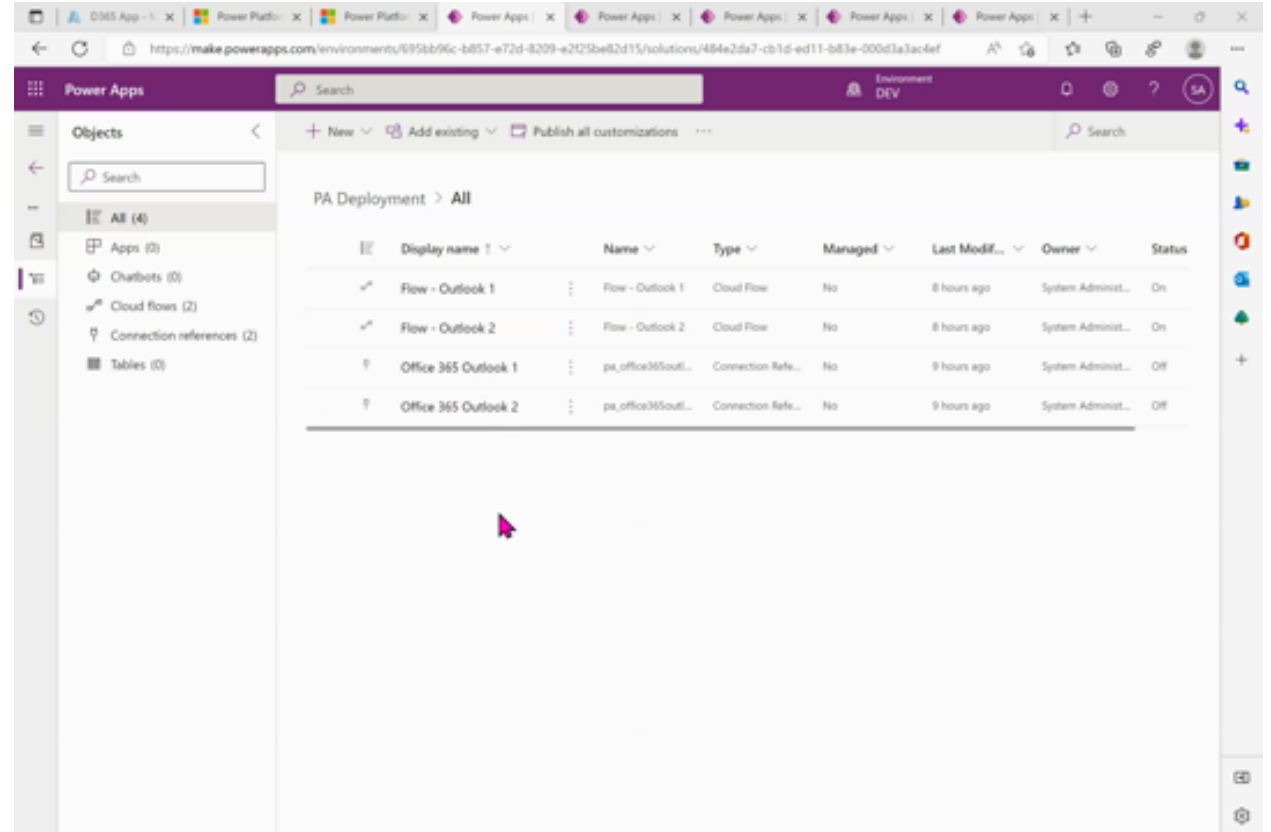
## How to deploy ?

- Prerequisites(Service Principal, Service Connection, Application User.)
- GIT.
- Deployment setting file.
- Azure Pipeline



# Deploy Flows through Azure Pipelines(Demo)

- Export/import solution with a pipeline
- Configure pipeline to specify connections with deployment settings file
- See the difference in behavior between shared and unshared connections





Thank you