



# 2025 DYNAMICS CON

# Crash course in Power Platform pipelines



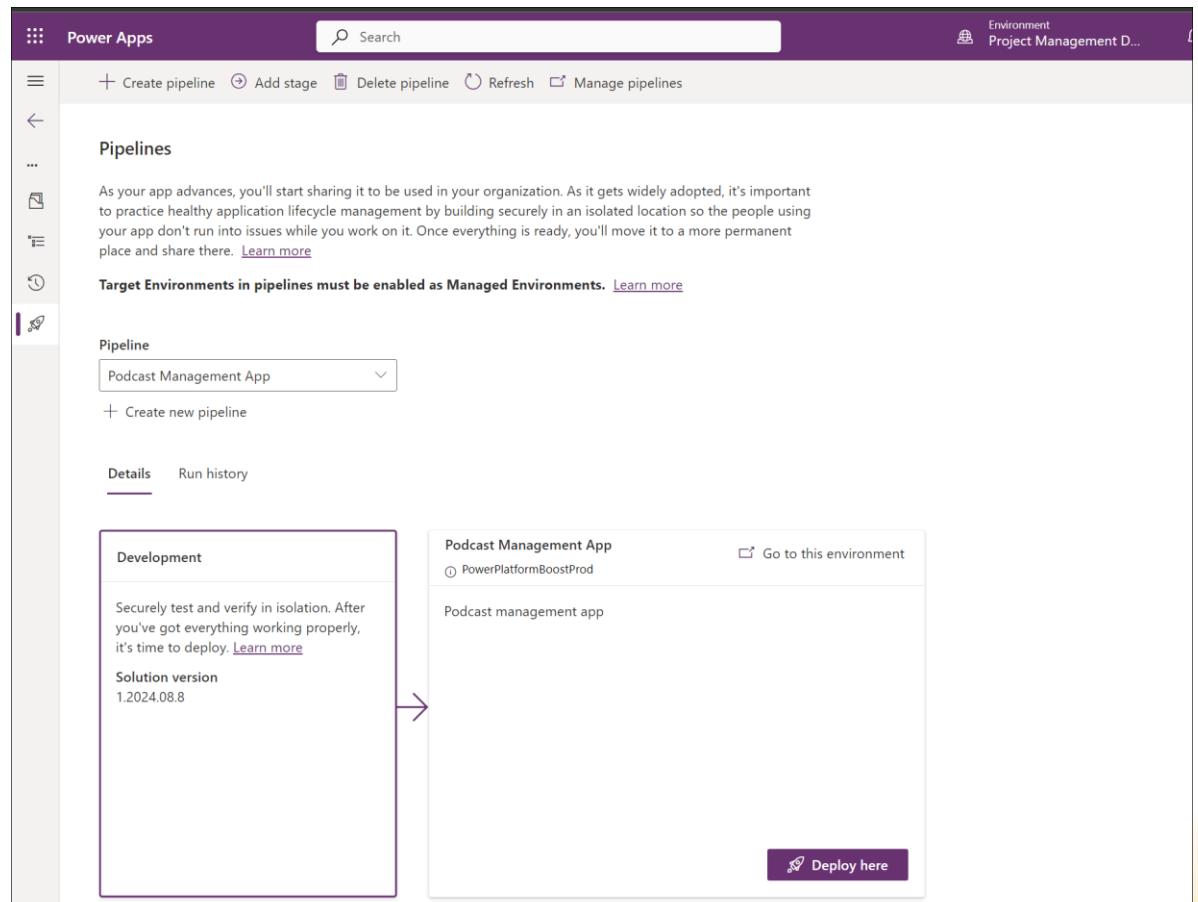
# Nick Doelman

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  - [@readyxrm](https://twitter.com/readyxrm)
  - <https://readyxrm.blog>
  - <https://powerplatformboost.buzzsprout.com/>
  - <https://youtube.com/@powerplatformboost>



# Agenda

- Why ALM?
- ALM in the Power Platform
- What are Power Platform Pipelines
- Requirements
- Setting up your pipeline
- Running pipelines
- Lessons learned and gotchas



# What are Power Platform pipelines?

## From MS Learn:

Pipelines in Power Platform aim to democratize application lifecycle management (ALM) for Power Platform and Dynamics 365 customers by bringing ALM automation and continuous integration and continuous delivery (CI/CD) capabilities into the service in a manner that's more approachable for all makers, admins, and developers

## TL;DR

A way to make moving solutions easier



# WHY?

- Safely build apps in an isolated environment
- When ready, deploy to test/UAT
- When that is ready, then deploy to prod
- Don't disrupt users or production systems



# ALM tool options

#	ALM Option	Primary Tooling / Auth	Automation Level	Strengths	Weaknesses / Gaps	Ideal Fit
1	<b>Manual Export / Import</b>	Maker Portal / Power Platform Admin Center • interactive sign-in	<b>None (manual)</b>	Fast to start, no extra setup	Error-prone, no audit trail, hard to repeat, cannot schedule	One-off hotfixes, PoC work
2	<b>PAC CLI / Solution Packager scripts</b>	PAC CLI + PowerShell • Service principal or PAT	<b>Scripted</b>	Full control, works cross-platform, integrates with any CI server	Higher maintenance, steeper learning curve, you own error handling	Teams that want full scripting freedom but don't yet use Azure DevOps or GitHub
3	<b>Azure DevOps Build Tools</b>	Azure Pipelines tasks + Service connection	<b>High</b>	Graphical pipeline designer, approvals & gates, full traceability, integrates with Boards/Repos ( <a href="#">Microsoft Learn</a> , <a href="#">Microsoft Learn</a> )	Requires Azure DevOps licensing, more initial setup	Enterprises already on Azure DevOps needing robust CI/CD
4	<b>GitHub Actions (powerplatform-actions)</b>	GitHub Actions workflows + secrets (service principal)	<b>High</b>	YAML-as-code, matrices, free minutes for OSS, integrates with Dependabot & Codespaces ( <a href="#">Microsoft Learn</a> , <a href="#">GitHub</a> )	Org may need GitHub Enterprise for advanced RBAC, YAML familiarity required	Teams standardizing on GitHub for source + Dev Ops
5	<b>Power Platform Pipelines (native)</b>	In-product low-code pipeline • environment roles	<b>Medium-High</b>	Zero-code setup, built-in environment approvals, works inside Managed Environments, aligns with CoE dashboards ( <a href="#">Microsoft for Developers</a> , <a href="#">PP Challenge</a> )	Currently Dataverse-solution-centric, limited extensibility vs. full CI/CD, requires Managed Environments add-on for prod governance	Citizen-dev heavy orgs or mixed teams that want governed, turnkey deployments



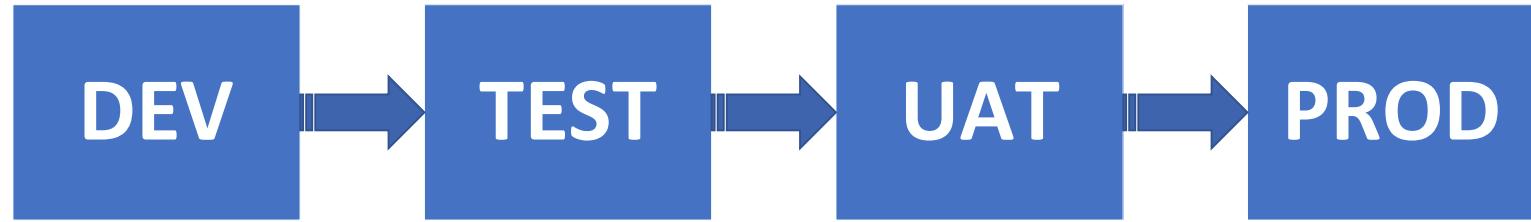
# Power Platform environment and solutions

- Environment
  - Container to store apps, data, processes.
  - Separate environments by purpose, business need or geography
- Solution
  - Container to hold specific business application assets
  - Managed and unmanaged

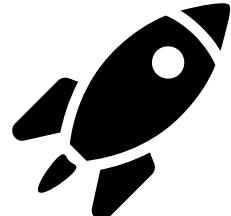
Display name ↑ \	Name \	Type \	Managed \	Customized \	Last Modif...
Episode	ppb_episode	Table	No	Yes	1 year ago
Get Topics from News ...	Get Topics from ...	Cloud Flow	No	Yes	11 months ago
Mail PodcastManagement	ppb_sharedsend...	Connection Refer...	No	Yes	1 year ago
Microsoft Dataverse P...	ppb_sharedcom...	Connection Refer...	No	Yes	1 year ago
news	ppb_news	Web Resource (\$...)	No	Yes	1 year ago
News Source	ppb_newssource	Table	No	Yes	1 year ago
Podcast	ppb_podcasticon	Web Resource (P...)	No	Yes	1 year ago
Podcast Management ...	ppb_PodcastMan...	Site Map	No	Yes	1 year ago
Podcast Management ...	ppb_PodcastMan...	Model-Driven App	No	Yes	1 year ago
Podcastsvg	ppb_podcast	Web Resource (\$...)	No	Yes	1 year ago
Power Platform Boost!	ppb_ppboostima...	Web Resource (P...)	No	Yes	1 year ago



# Environment strategy and pipeline process



Solution  
Tables  
Apps  
Plug-ins  
Flows  
Websites



# Requirements

- Dedicated host environment to store pipeline apps and configuration data
- Source (Developer environment)
- Destination environment (TEST, UAT, PROD) – managed environment



# Managed Environments

- Premium governance for simplified, scalable administration.
- Provides groups, insights, pipelines, and policies.
- Included with most paid Power Platform licenses.
- Strengthens security via CMK, Lockbox, firewalls.

The screenshot shows the Power Platform admin center interface. On the left, a sidebar menu includes Home, Actions, Manage (selected), Security, Copilot, Monitor, Deployments, Admin centers, and a three-dot ellipsis. The main area displays the 'Manage' section with tabs for Environments (selected), Environment groups, Tenant settings, Data (Data (preview), Data integration, Data export), Products (Power Apps, Power Automate, Power Pages, Dynamics 365 Apps), and Dataverse. In the center, a modal window titled 'Edit Managed Environments' is open for 'ReadyBMS Ltd'. The 'Details' tab is selected, showing the following information:

- Environment URL: readybms.crm3.dynamics.com
- Region: Canada
- Type: Production
- Organization ID: 17131b47-18ed-44b7-b8d8-8604d2ee23fa
- Created by: ReadyBMS Admin

On the right side of the modal, there are sections for 'Licensing details' (warning about premium use rights), 'Manage sharing' (with sub-sections for Power Apps, Power Automate, and Copilot Studio (Preview)), and 'Automation restrictions'. At the bottom of the modal are 'Save' and 'Close' buttons.



# DEMO

Setup Power Platform pipelines

Setup environments

Setup deployment steps

Make a change to a solution

Deploy a solution



# Setup a dedicated environment

The screenshot shows the Power Platform admin center interface. On the left, a sidebar menu is visible with various categories like Home, Actions, Manage, Security, Copilot, Monitor, Deployments, Licensing, Support, and Admin centers. The 'Manage' section is currently selected, and under it, the 'Environments' option is highlighted. The main content area displays the details of a specific environment named 'PipelineHost'. The 'Details' card provides information such as Environment URL (pipelinehost2025.crm.dynamics.com), State (Ready), Region (United States), Refresh cadence (Frequent), Type (Developer), Organization ID (585dd275-bf2a-f011-9a41-000d3a125a3e), Environment ID (0e46b13b-d5b3-ef5a-b9a0-4432ebdc7219), and Created by (Nick Doelman (Admin)). Below this is an 'Auditing' section with options for Auditing enabled (No) and Retain audit logs for (Forever). To the right, there are sections for Access (Security roles, Teams, Users, S2S apps, Business units) and Resources (Power Pages sites, Power Apps).



# Install Power Platform Pipelines

admin.powerplatform.microsoft.com/manage/environments/585dd275-bf2a-f011-9a41-000d3a125a3e/applications

Platform admin center Search for settings, pages, and more

Install app Open AppSource Refresh

Environments > PipelineHost > **Dynamics 365 apps**

Check the status of Dynamics 365 apps and manage them across your environments.

Name ↑
Business Copilot AI
Catalog Client



# Configure Pipeline - Add deployment environments

- Setup source (development) and target (test, UAT, prod, etc)

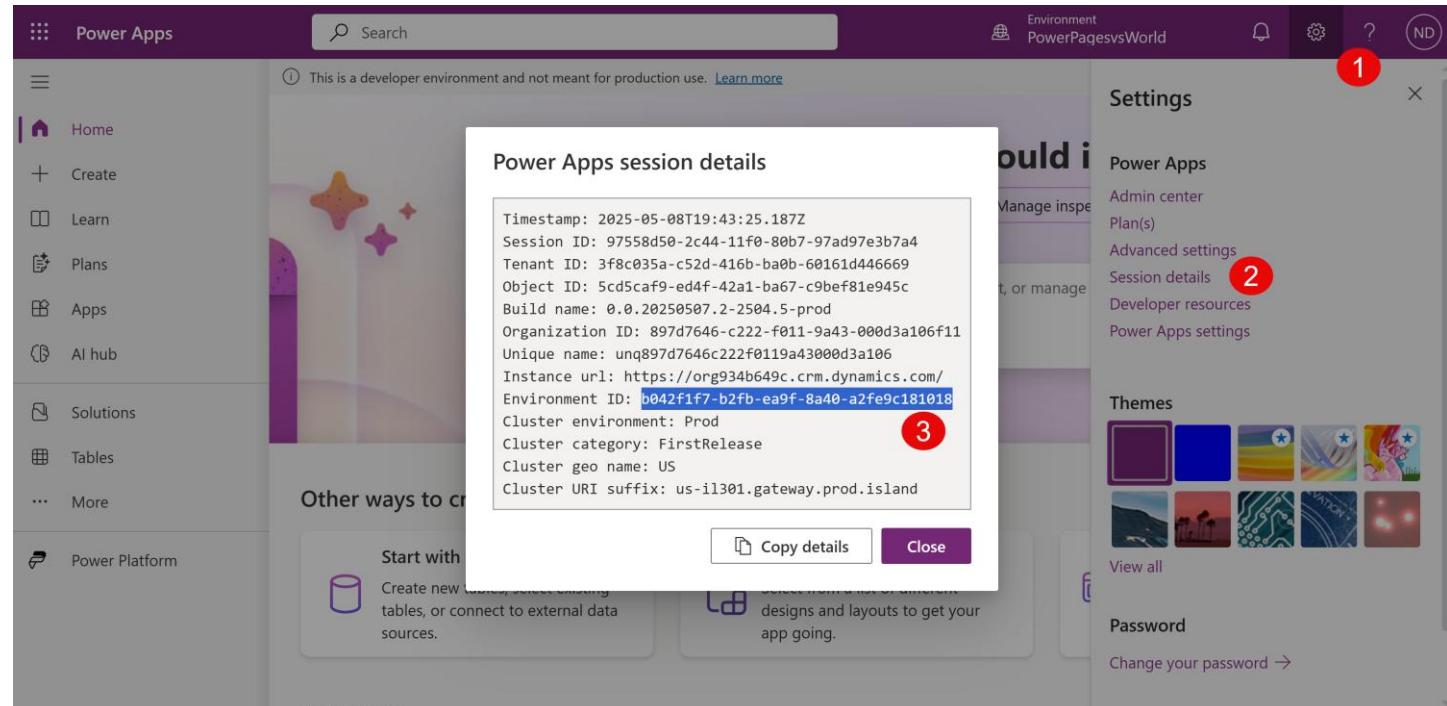
The screenshot shows two windows side-by-side. The left window is a modal titled 'Deployment Pipeline Configuration' for a 'DEV - Saved Deployment Environment'. It displays fields for Name (DEV), Owner (Nick Doelman), Environment Type (Development Environment), Environment ID (b042f1f7-b2fb-ea9f-8a40-a2fe9c181018), Validation Status (Pending), Error Message (empty), and Description (Development environment). The right window is a list view titled 'Added Deployment Environments' showing three entries: DEV, PROD, and TEST, each with their respective environment type, ID, validation status (all Success), owner (Nick Doelman), and creation/modification dates.

Name	Environment Type	Environment ID	Validation Status	Owner	Created On	Modified On
DEV	Development Environment	b042f1f7-b2fb-ea9f-8a40-a2fe9c181018	Success	Nick Doelman	5/8/2025 7:44 ...	5/8/2025 7:44 ...
PROD	Target Environment	851b9aa9-d9a4-e17...	Success	Nick Doelman	5/8/2025 7:48 ...	5/8/2025 7:48 ...
TEST	Target Environment	d307b196-ba40-e9...	Success	Nick Doelman	5/8/2025 7:47 ...	5/8/2025 7:47 ...



# Quick Tip: Get Environment ID

- Get environment id and other details from gear icon -> Session Details



# Configure Pipeline - Create Deployment Pipeline

The screenshot shows the 'Deployment Pipeline Configuration' screen in the Microsoft Power Apps portal. The left sidebar has a 'Pipelines' section selected under 'Pipeline Setup'. The main area displays the 'Main Deployment Pipeline' configuration. The 'General' tab is selected. The pipeline details include:

- Name:** Main Deployment Pipeline
- Description:** Deploy Power Pages vs the World solutions to TEST and PROD environments.
- Owner:** Nick Doelman (Offline)
- AI deployment notes:** Enabled
- Allow redeployments of older versions:** Enabled

A note at the bottom says 'To enable this content, save the record.' Below that is a 'Linked Development Environments' table with columns: Name, Environment Type, Environment ID, and Validation Status. A 'New Development En...' button is available to add new environments.



# Link Development environments

Power Apps | Deployment Pipeline Configuration

Target Environments in pipelines must be enabled as Managed Environments. [Learn more](#)

Home Recent Pinned Overview Pipelines Dashboard Pipeline Setup Environments Pipelines Deployments Run history Solution artifacts Settings

Main Deployment Pipeline - Saved Deployment Pipeline General Deployment stages Run history Related

Linked Development Environments + New Development Env...:

<input type="checkbox"/> Name ↑	Environment Type	Environment ID	Validation Status
<input type="checkbox"/> DEV	Development Environment	b042f1f7-b2fb-ea9f-8a40-a2fe9...	Success
<input type="checkbox"/> DEV2	Development Environment	b953aa7e-e6d9-e5ad-b79b-e69...	Success

Rows: 2



# Create Deployment stages

Power Apps | Deployment Pipeline Configuration

Target Environments in pipelines must be enabled as Managed Environments. [Learn more](#)

Home Recent Pinned Overview Pipelines Dashboard Pipeline Setup Environments Pipelines Deployments Run history Solution artifacts Settings

Main Deployment Pipeline - Saved Deployment Pipeline

General Deployment stages Run history Related

Deployment Stages (Deployment Pipeline)

Name	Deployment	Previous De...	Target Deplo...	Is Deleg...	Pre-Depl...	Create...
To TEST	Main Deploy...		TEST	No	No	5/8/2025 ...
TO PROD	Main Deploy...	To TEST	PROD	No	No	5/8/2025 ...

Rows: 2



# Create Deployment Stage

Power Apps | Deployment Pipeline Configuration

Target Environments in pipelines must be enabled as Managed Environments.

TO PROD - Saved  
Deployment Stage

General Related

Name: Main Deployment Pipeline  
Owner: Nick Doelman (Offline)  
Description: Deploy Power Pages vs the World solutions to TEST and PROD environments

Name: TO PROD  
Owner: Nick Doelman (Offline)  
Description: ---  
Deployment Pipeline: Main Deployment Pipeline  
Previous Deployment Stage: To TEST  
Target Deployment Environment ID: PROD  
Pre-Export Step Required:   
Pre-Deployment Step Required:   
Is Delegated Deployment:

Rows: 1

Name	Created On	Artifact ID	Artifact Na...	Solution Art...	Deploymen...	Stage Run S...	Development D...
TO PROD_EventDemo_1.0....	5/9/2025 5:28...	EventDemo	EventDemo	1.0.0.6	TO PROD	Deploying	DEV



# Running a deployment

The screenshot shows the Microsoft Power Apps Solutions page. On the left, there's a sidebar with options like Home, Create, Learn, Plans, Apps, AI hub, Solutions (which is selected), Tables, More, and Power Platform. The main area has a search bar at the top. Below it, there are buttons for New solution, Edit, Delete, Export solution, Deploy (which is highlighted with a red circle labeled '1'), Solution checker, Show dependencies, Set preferred solution, and a ND button. A bell icon, gear icon, and question mark icon are also present. The main content area is titled 'Solutions' and shows a 'Current preferred solution' box for 'Common Data Services Default Solution' with a 'Manage' button. To its right is a 'Deployment' box with a description: 'Track all solution deployments in one place. See what's active, what has failed, and get recommendations for improvement.' Below these boxes is a table with columns: Display name, Name, Created, Version, Publisher, Solution check, and Source control status. The table lists five solutions: Content Snippet Editor, EventDemo (selected and highlighted with a red circle labeled '1'), Common Data Services Def..., and Default Solution. The 'EventDemo' row shows details: Name: EventDemo, Created: 1 week ago, Version: 1.0.0.6, Publisher: Nick, Solution check: Hasn't been run, and Source control status: Not Connected to Git.

Display name	Name	Created	Version	Publisher	Solution check	Source control status
Content Snippet Editor	ContentSnippetE...	3 days ago	1.0.0.0	ReadyXRM	Hasn't been run	Not Connected to Git
EventDemo	EventDemo	1 week ago	1.0.0.6	Nick	Hasn't been run	Not Connected to Git
Common Data Services Def...	Cr59fbf	3 weeks ago	1.0.0.0	CDS Default Publ...	Hasn't been run	Not Connected to Git
Default Solution	Default	3 weeks ago	1.0	Default Publisher...	Not supported for analy...	Not Connected to Git

- Select solution
- Choose Deploy



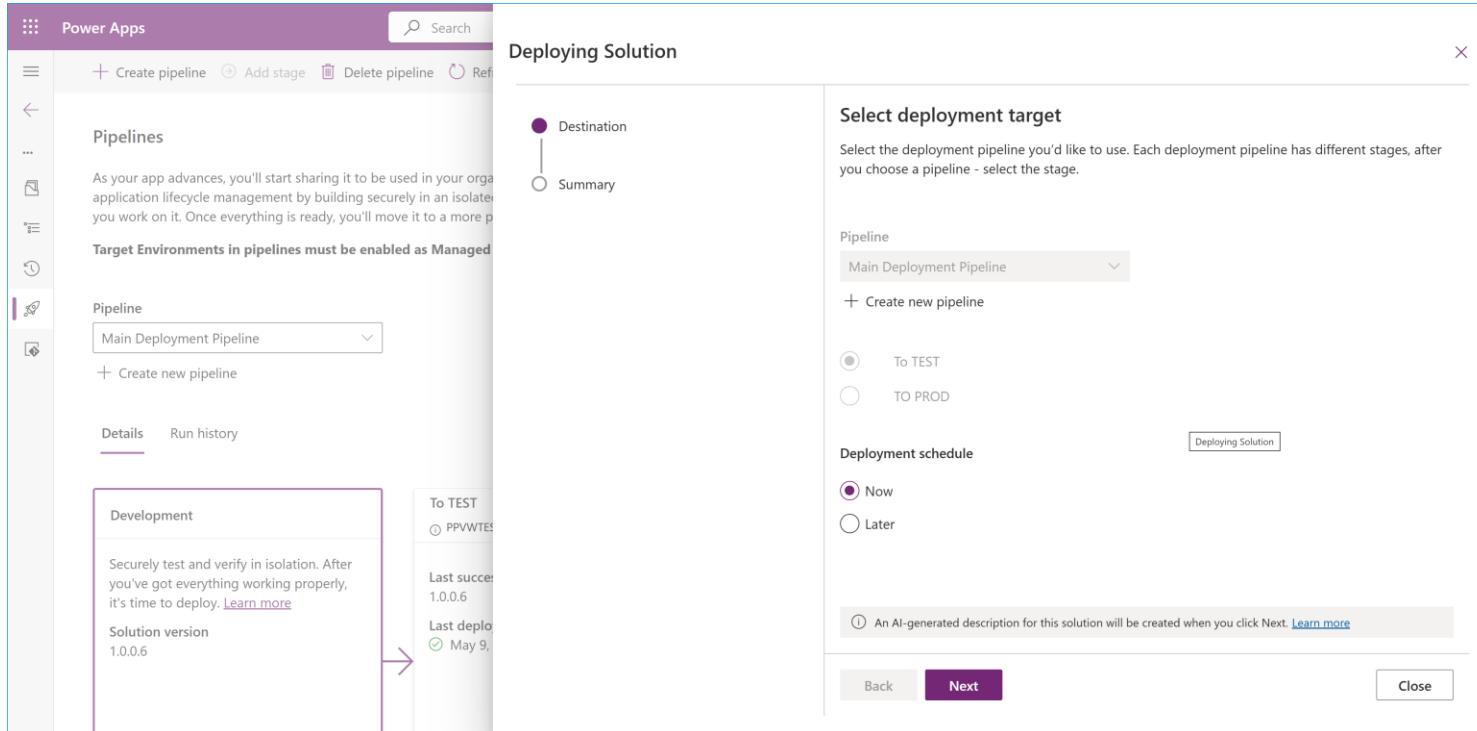
# Deployment

- Pick the pipeline, deploy to specific environment in order

The screenshot shows the Microsoft Power Apps Pipelines interface. On the left, a sidebar for the 'EventDemo' solution includes options for Overview, Objects, History, Pipelines (selected), and Source control. The main area displays a 'Pipelines' section with a dropdown set to 'Main Deployment Pipeline'. Below this are tabs for 'Details' and 'Run history'. The 'Details' tab shows three stages: 'Development' (Securely test and verify in isolation. After you've got everything working properly, it's time to deploy. [Learn more](#)), 'To TEST' (PPVWTEST, Go to this environment), and 'TO PROD' (PPVWPROD, Go to this environment). Arrows indicate the flow from Development to TEST and from TEST to PROD. Each stage shows the last successfully installed version (1.0.0.6) and the last deployed date (May 9, 2025). Buttons for 'Deploy here' are located at the bottom of each stage.



# Deployment

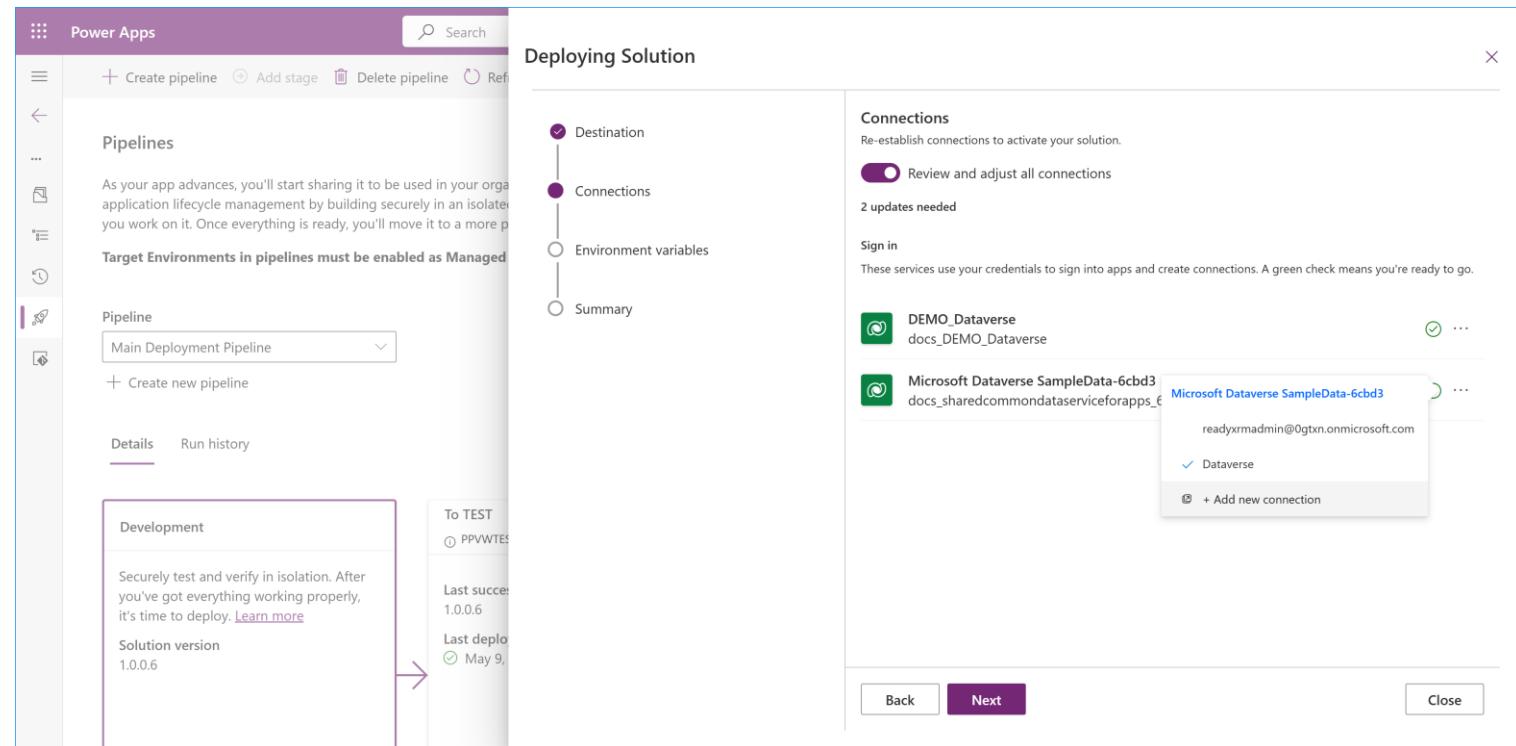


- Choose Now or Later
- Cannot choose a reoccurring schedule, but can delay a deployment



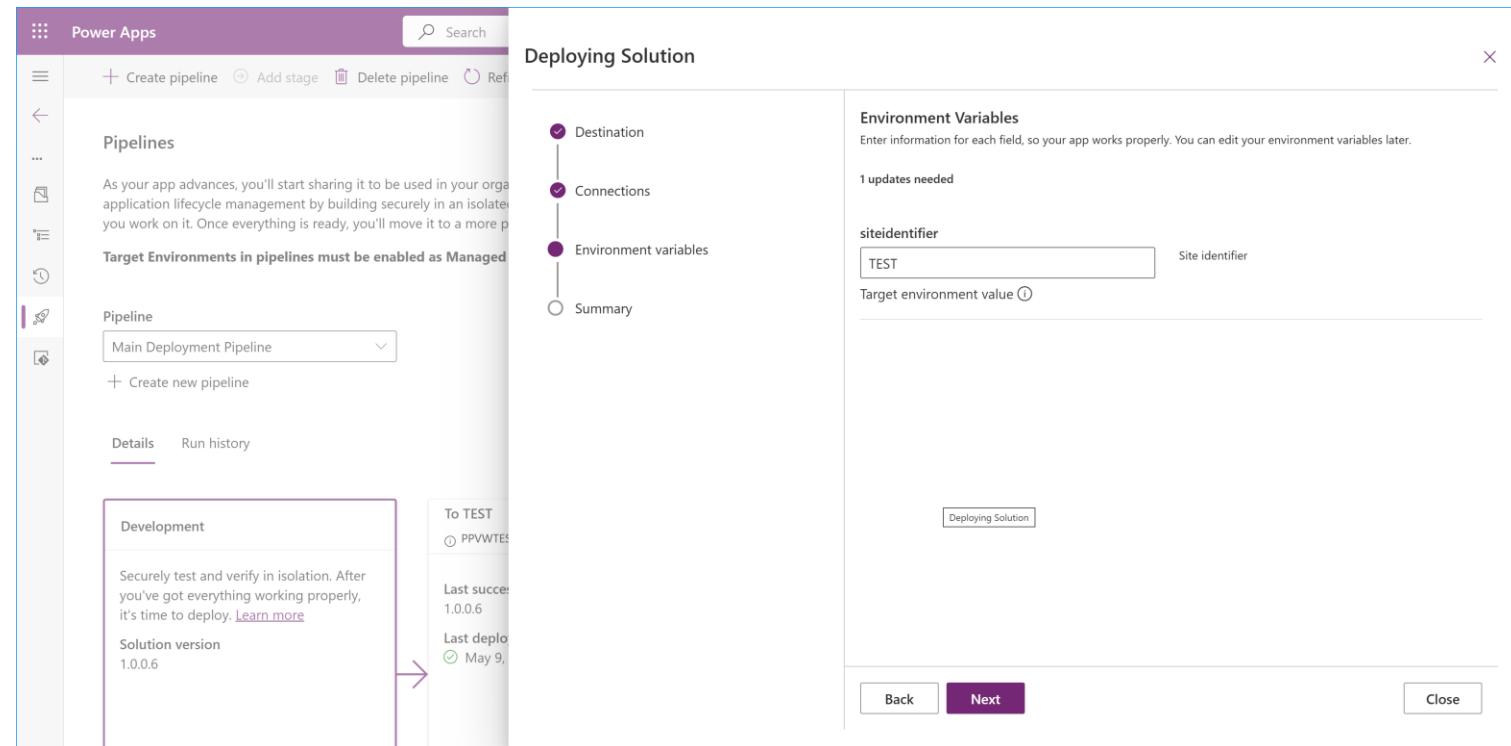
# Create Connections

- Create new connections or link to existing connections in target environment



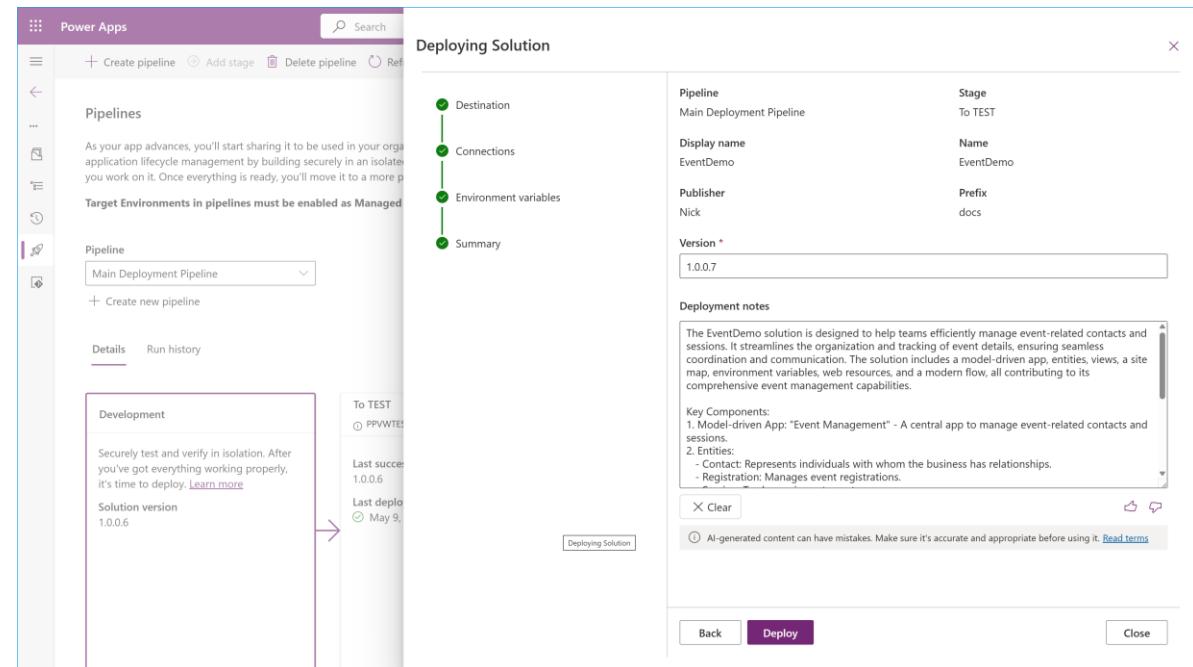
# Environment Variables

- Set or update environment variables for target environment



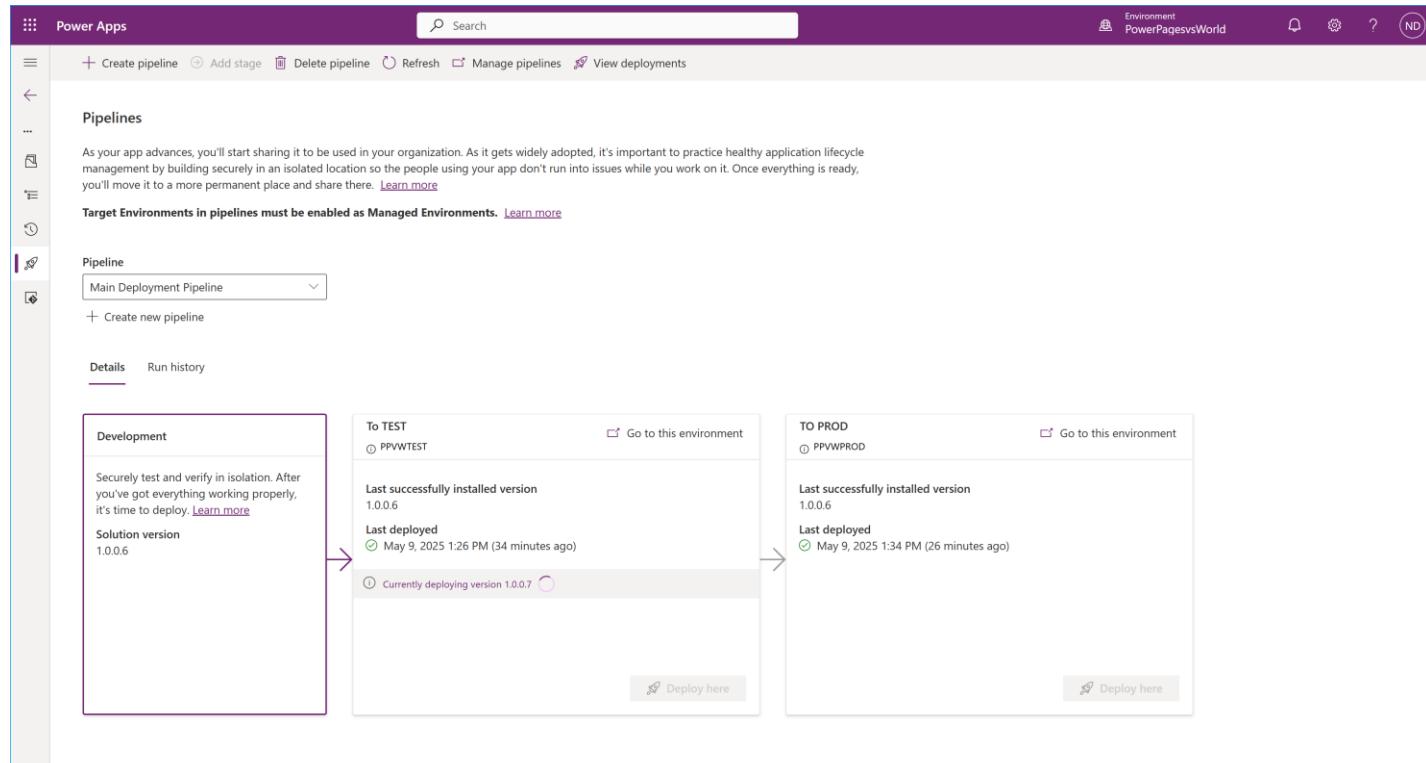
# Deployment

- Version number incremented
- AI generated deployment notes (review)
- Select Deploy



# Deployment

- Deployment will start running
- You can close window
- Deployment time depends on size of the solution (minutes to hours)



# Deployment Status

- View solution history of target environment
- Within deployment app

The screenshot displays two main sections of the Microsoft Power Apps portal:

**Solutions > History:** This section shows a table of deployment histories for a solution named "EventDemo". The columns include Name, Start time, End time, Version, Publisher name, Operation, Suboperation, Result, and Error. The data shows three runs: one successful import at 10:07, one new import at 10:06, and one failed import at 10:05.

Name	Start time	End time	Version	Publisher name	Operation	Suboperation	Result	Error
EventDemo	5/9/2025, 02:03 ...		1.0.0.7	Nick	Import	None	Success	-
EventDemo	5/9/2025, 01:21 ...	5/9/2025, 01:25 ...	1.0.0.6	Nick	Import	New	Success	-
EventDemo	5/9/2025, 12:06 ...	5/9/2025, 12:08 ...	1.0.0.5	Nick	Import	None	Failure	8004

**Deployment Pipeline Configuration:** This section shows the "Main Deployment Pipeline" configuration. It includes tabs for General, Deployment stages, Run history, and Related. The Run history tab is selected, displaying a list of pipeline runs. Each run is shown with its name, start time, end time, status (Succeeded or Failed), artifact version, and solution name. The last six runs are listed, all of which have succeeded.

Deployment Pipeli...	Name (...)	Start Ti...	End Time	Scheduled T...	Stage Run S...	Artifact ...	Solutio...	
Main Deployment Pi...	To TEST	5/9/2025 5...	5/9/2025 6:0...			Succeeded	EventDemo	1.0.0.7
Main Deployment Pi...	TO PROD	5/9/2025 5:...	5/9/2025 5:3...			Succeeded	EventDemo	1.0.0.6
Main Deployment Pi...	To TEST	5/9/2025 5:...	5/9/2025 5:2...			Succeeded	EventDemo	1.0.0.6
Main Deployment Pi...	To TEST	5/9/2025 3:...	5/9/2025 4:0...			Failed	EventDemo	1.0.0.5
Main Deployment Pi...	To TEST	5/8/2025 9:...	5/8/2025 9:4...			Failed	EventDemo	1.0.0.4



# Deployment complete

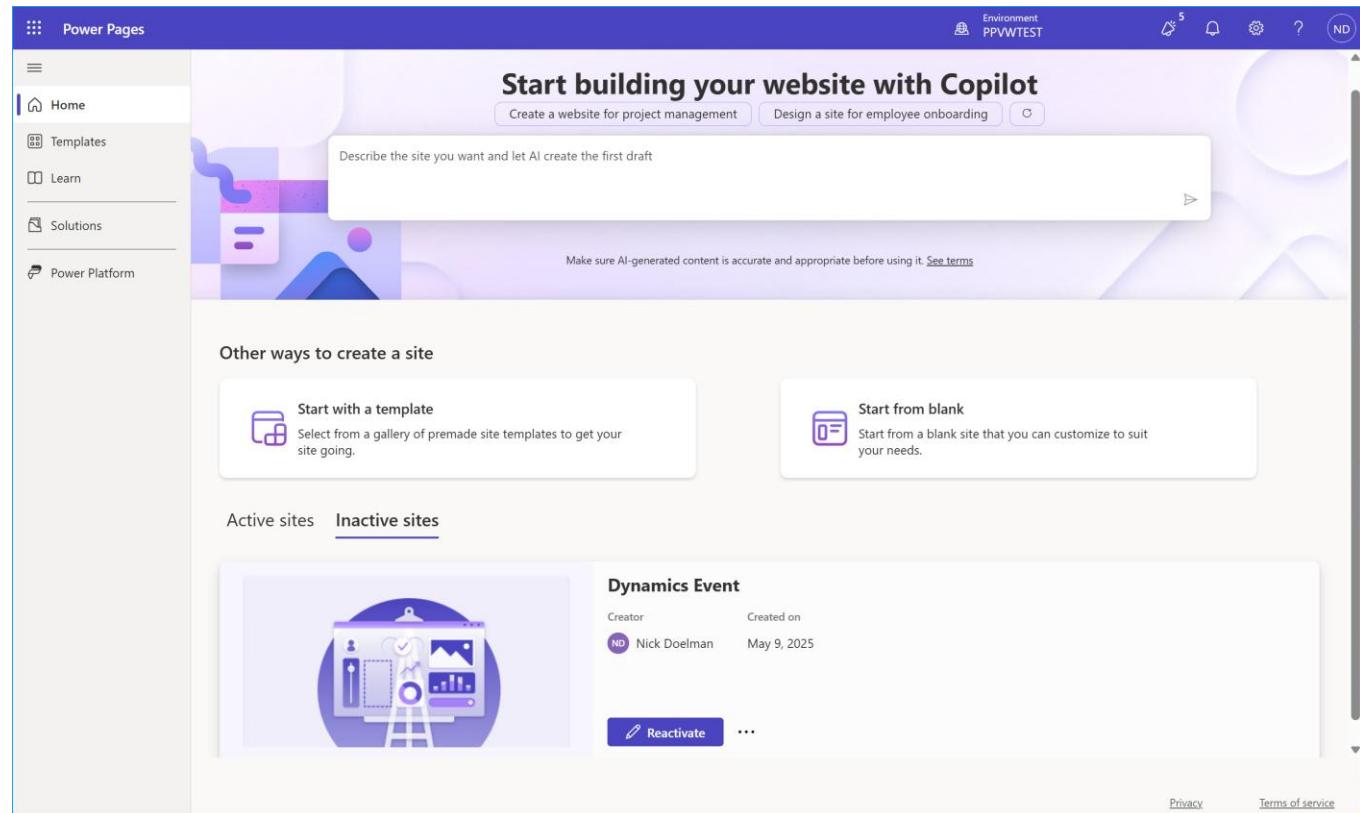
- Deployment will show as completed

The screenshot shows the Microsoft Power Apps Pipelines interface. At the top, there's a navigation bar with 'Power Apps' and a search bar. Below it, a sidebar has icons for 'Create pipeline', 'Add stage', 'Delete pipeline', 'Refresh', 'Manage pipelines', and 'View deployments'. The main area is titled 'Pipelines' and contains a message about sharing and healthy application lifecycle management. It specifies that 'Target Environments in pipelines must be enabled as Managed Environments.' A 'Pipeline' dropdown is set to 'Main Deployment Pipeline'. Below it, a 'Development' section shows a summary: 'Securely test and verify in isolation. After you've got everything working properly, it's time to deploy.' It lists the 'Last successfully installed version' as 1.0.0.7 and the 'Last deployed' as May 9, 2025, 2:05 PM (4 minutes ago). A 'Deploy here' button is at the bottom. To the right, two other sections show 'To TEST' (PPVWTEST) and 'TO PROD' (PPVWPROD), both listing the same version and deployment details, also with 'Deploy here' buttons. Arrows point from the Development section towards the TEST and PROD sections.



# Post deployment steps

- Ensure all flows are activated
- Activate Power Pages site (first run)
- Ensure environment variables are correct



# Deployment history

The screenshot shows the Microsoft Power Apps Deployment Pipeline Configuration interface. The left sidebar includes sections for Home, Recent, Pinned, Overview, Pipelines Dashboard, Pipeline Setup (Environments, Pipelines), Deployments (Run history, Solution artifacts), Settings (Security Teams, Advanced Settings), and a note about enabling Managed Environments. The main content area displays a deployment run titled "To TEST\_EventDemo\_015a4c79-2fa5-4201-a3b8-56d239155aab - Saved Deployment Stage Run". The "Operation details" tab is selected, showing a table of deployment operations. The table has columns for Operation, Suboperation, Operation Status, Deployment Stage Run, Error Message, and Start Time. The data shows six successful operations: Validate (None, Succeeded), Validate (Retrieving Artifact Configuration, Succeeded), Validate (Validating Artifact Configuration, Succeeded), Deploy (None, Succeeded), Deploy (Retrieving Artifact, Succeeded), and Deploy (Deploying Artifact, Succeeded). All operations started on 5/9/2025 at 5:00 AM.

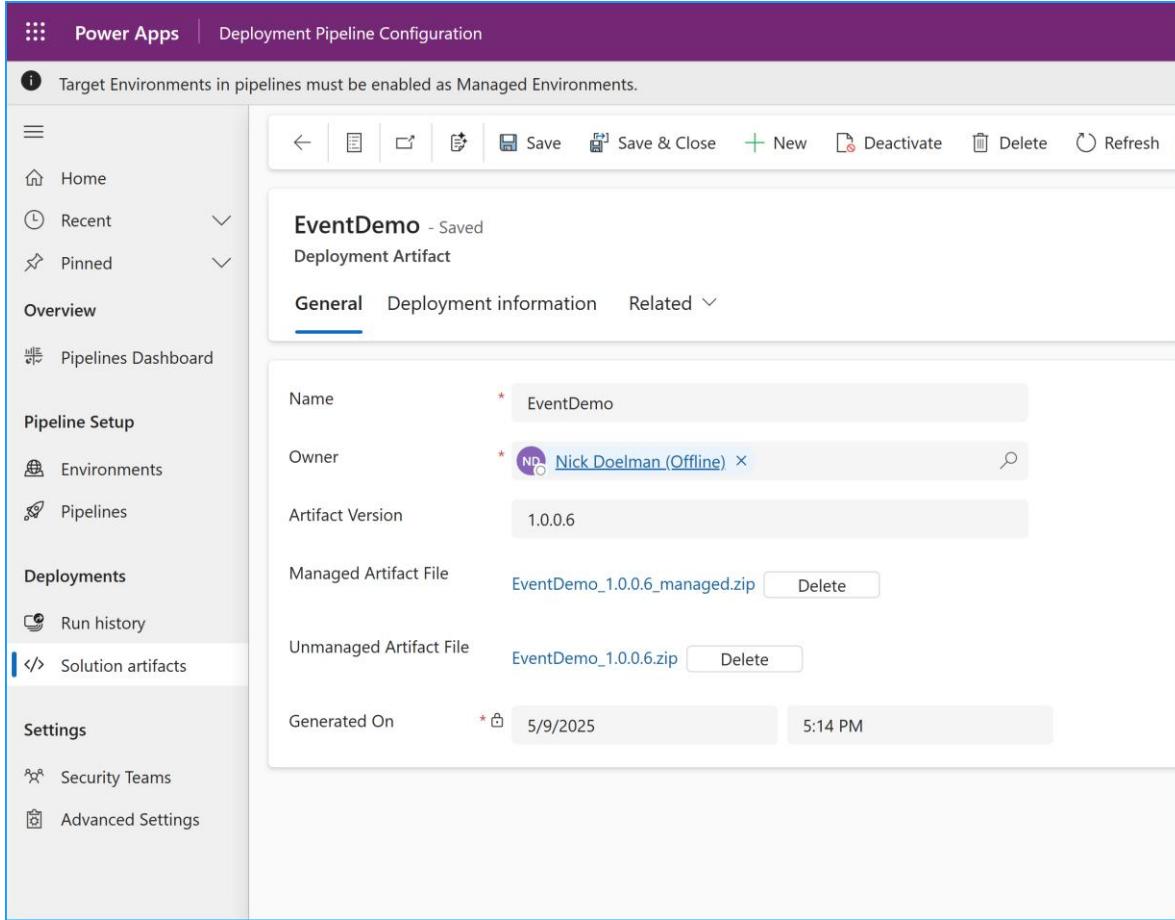
Operation	Suboperation	Operation Status	Deployment Stage Run	Error Message	Start Time
Validate	None	Succeeded	To TEST_EventDemo_0...		5/9/2025 5:
Validate	Retrieving Artifact Configuration	Succeeded	To TEST_EventDemo_0...		5/9/2025 5:
Validate	Validating Artifact Configuration	Succeeded	To TEST_EventDemo_0...		5/9/2025 5:
Deploy	None	Succeeded	To TEST_EventDemo_0...		5/9/2025 5:
Deploy	Retrieving Artifact	Succeeded	To TEST_EventDemo_0...		5/9/2025 5:
Deploy	Deploying Artifact	Succeeded	To TEST_EventDemo_0...		5/9/2025 5:

Rows: 6

- View operations and history in Deployment App

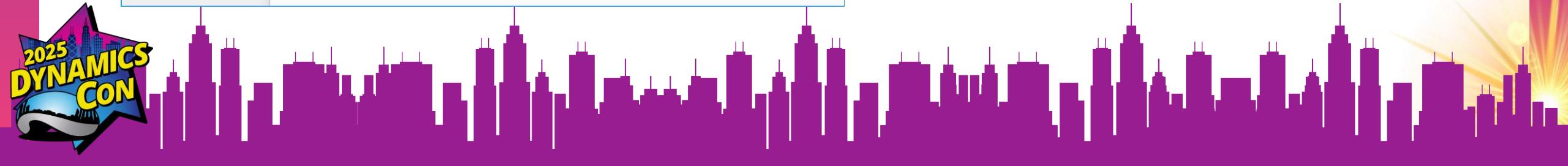


# Deployment Artifacts



The screenshot shows the 'Deployment Pipeline Configuration' screen in the Power Apps portal. On the left, a navigation sidebar lists various sections: Home, Recent, Pinned, Overview, Pipelines Dashboard, Pipeline Setup, Environments, Pipelines, Deployments, Run history, Solution artifacts (which is selected), Settings, Security Teams, and Advanced Settings. The main content area is titled 'EventDemo - Saved Deployment Artifact'. It has tabs for General, Deployment information, and Related. Under General, the artifact is named 'EventDemo', owned by 'Nick Doelman (Offline)', has an artifact version of '1.0.0.6', and contains two files: a managed artifact file ('EventDemo\_1.0.0.6\_managed.zip') and an unmanaged artifact file ('EventDemo\_1.0.0.6.zip'). It was generated on '5/9/2025' at '5:14 PM'.

- Artifacts (solutions) are stored as managed and unmanaged
- Used in later stages of pipeline, export only happens on first stage



# Troubleshooting

- Missing dependencies not always caught
- Run a manual export and note missing unmanaged components

The image contains two screenshots of the Microsoft Power Apps portal, demonstrating troubleshooting for deployment issues.

**Screenshot 1: Pipelines Page**

This screenshot shows the Pipelines page in the Power Apps portal. It displays a pipeline named "Development" set to "To TEST". A deployment step is currently running version 1.0.0.6, while version 1.0.0.5 failed to deploy. A tooltip indicates "Solution version 1.0.0.5 failed to deploy". The "View details" button is visible.

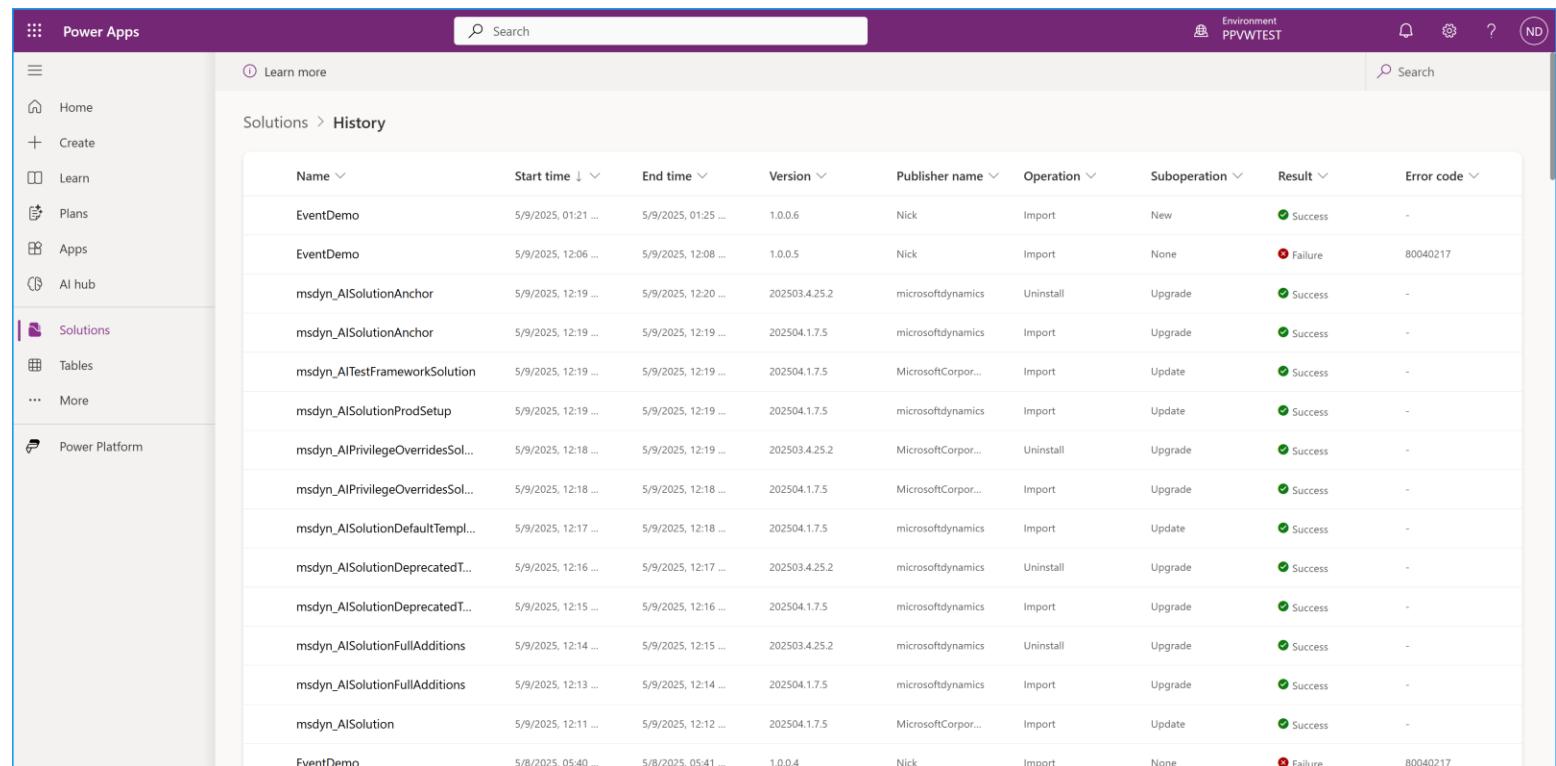
**Screenshot 2: Solutions Page**

This screenshot shows the Solutions page in the Power Apps portal. It highlights a "Missing required unmanaged components" message. A table lists unmanaged components that are missing from the solution, including "Content Snippet Editor", "EventDemo", "Common Data Services Defa...", and "Default Solution". The "Add to solution" button is at the bottom right.



# Troubleshooting

- Deployment keeps running
- Deployment has failed?
- Check solution history of target environment



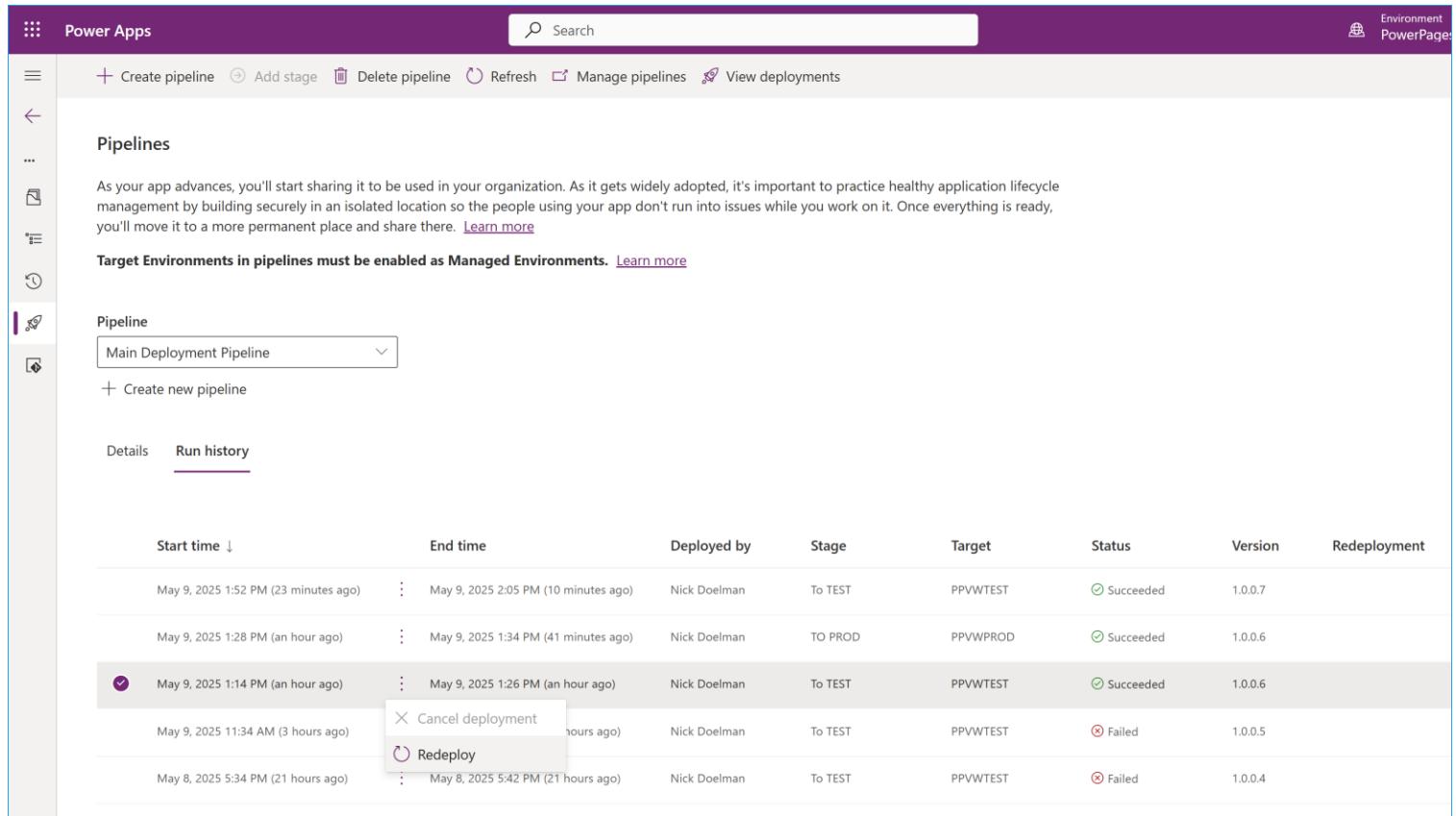
The screenshot shows the Microsoft Power Apps interface with the 'Solutions' section selected. The 'History' tab is active, displaying a list of deployment logs. The columns include Name, Start time, End time, Version, Publisher name, Operation, Suboperation, Result, and Error code. Most entries show a green success status, while one entry for 'EventDemo' on 5/8/2025 shows a red failure status with error code 80040217.

Name	Start time	End time	Version	Publisher name	Operation	Suboperation	Result	Error code
EventDemo	5/9/2025, 01:21 ...	5/9/2025, 01:25 ...	1.0.0.6	Nick	Import	New	Success	-
EventDemo	5/9/2025, 12:06 ...	5/9/2025, 12:08 ...	1.0.0.5	Nick	Import	None	Failure	80040217
msdyn_AISolutionAnchor	5/9/2025, 12:19 ...	5/9/2025, 12:20 ...	202503.4.25.2	microsoftdynamics	Uninstall	Upgrade	Success	-
msdyn_AISolutionAnchor	5/9/2025, 12:19 ...	5/9/2025, 12:19 ...	202504.1.7.5	microsoftdynamics	Import	Upgrade	Success	-
msdyn_AITestFrameworkSolution	5/9/2025, 12:19 ...	5/9/2025, 12:19 ...	202504.1.7.5	MicrosoftCorpor...	Import	Update	Success	-
msdyn_AISolutionProdSetup	5/9/2025, 12:19 ...	5/9/2025, 12:19 ...	202504.1.7.5	microsoftdynamics	Import	Update	Success	-
msdyn_AIPrivilegeOverridesSol...	5/9/2025, 12:18 ...	5/9/2025, 12:19 ...	202503.4.25.2	MicrosoftCorpor...	Uninstall	Upgrade	Success	-
msdyn_AIPrivilegeOverridesSol...	5/9/2025, 12:18 ...	5/9/2025, 12:18 ...	202504.1.7.5	MicrosoftCorpor...	Import	Upgrade	Success	-
msdyn_AISolutionDefaultTempl...	5/9/2025, 12:17 ...	5/9/2025, 12:18 ...	202504.1.7.5	microsoftdynamics	Import	Update	Success	-
msdyn_AISolutionDeprecatedT...	5/9/2025, 12:16 ...	5/9/2025, 12:17 ...	202503.4.25.2	microsoftdynamics	Uninstall	Upgrade	Success	-
msdyn_AISolutionDeprecatedT...	5/9/2025, 12:15 ...	5/9/2025, 12:16 ...	202504.1.7.5	microsoftdynamics	Import	Upgrade	Success	-
msdyn_AISolutionFullAdditions	5/9/2025, 12:14 ...	5/9/2025, 12:15 ...	202503.4.25.2	microsoftdynamics	Uninstall	Upgrade	Success	-
msdyn_AISolutionFullAdditions	5/9/2025, 12:13 ...	5/9/2025, 12:14 ...	202504.1.7.5	microsoftdynamics	Import	Upgrade	Success	-
msdyn_AISolution	5/9/2025, 12:11 ...	5/9/2025, 12:12 ...	202504.1.7.5	MicrosoftCorpor...	Import	Update	Success	-
EventDemo	5/8/2025, 05:40 ...	5/8/2025, 05:41 ...	1.0.0.4	Nick	Import	None	Failure	80040217



# Rolling back

- Can redeploy a previous version, but note loss of data



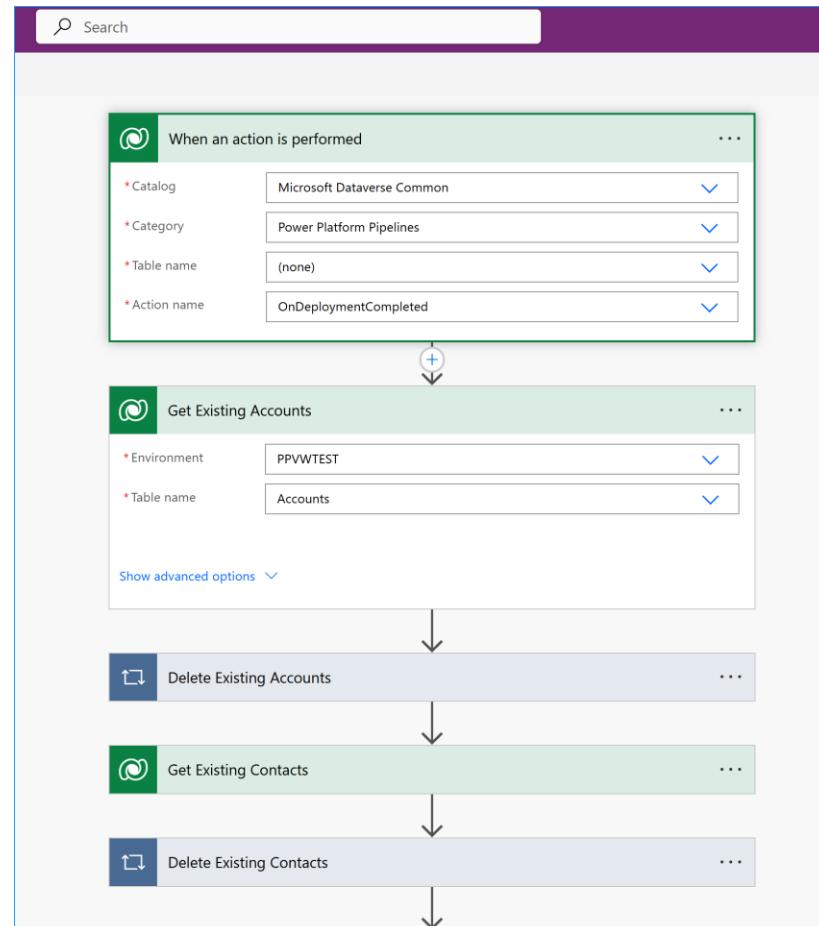
The screenshot shows the Microsoft Power Apps Pipelines interface. At the top, there's a navigation bar with 'Power Apps' and a search bar. Below it, a toolbar has icons for 'Create pipeline', 'Add stage', 'Delete pipeline', 'Refresh', 'Manage pipelines', and 'View deployments'. A sidebar on the left has icons for 'Pipelines', 'App', 'Data', 'Pages', and 'Components'. The main area is titled 'Pipelines' and contains a message about application lifecycle management. It shows a 'Pipeline' dropdown set to 'Main Deployment Pipeline' and a '+ Create new pipeline' button. Below this is a table with columns: Start time, End time, Deployed by, Stage, Target, Status, Version, and Redeployment. The table lists five deployment runs:

Start time ↓	End time	Deployed by	Stage	Target	Status	Version	Redeployment
May 9, 2025 1:52 PM (23 minutes ago)	May 9, 2025 2:05 PM (10 minutes ago)	Nick Doelman	To TEST	PPVWTEST	<span style="color: green;">Succeeded</span>	1.0.0.7	
May 9, 2025 1:28 PM (an hour ago)	May 9, 2025 1:34 PM (41 minutes ago)	Nick Doelman	TO PROD	PPVWPROD	<span style="color: green;">Succeeded</span>	1.0.0.6	
May 9, 2025 1:14 PM (an hour ago)	May 9, 2025 1:26 PM (an hour ago)	Nick Doelman	To TEST	PPVWTEST	<span style="color: green;">Succeeded</span>	1.0.0.6	
May 9, 2025 11:34 AM (3 hours ago)	May 9, 2025 11:45 AM (1 hour ago)	Nick Doelman	To TEST	PPVWTEST	<span style="color: red;">Failed</span>	1.0.0.5	<span style="color: red;">Cancel deployment</span>
May 8, 2025 5:34 PM (21 hours ago)	May 8, 2025 5:42 PM (21 hours ago)	Nick Doelman	To TEST	PPVWTEST	<span style="color: red;">Failed</span>	1.0.0.4	<span style="color: purple;">Redeploy</span>



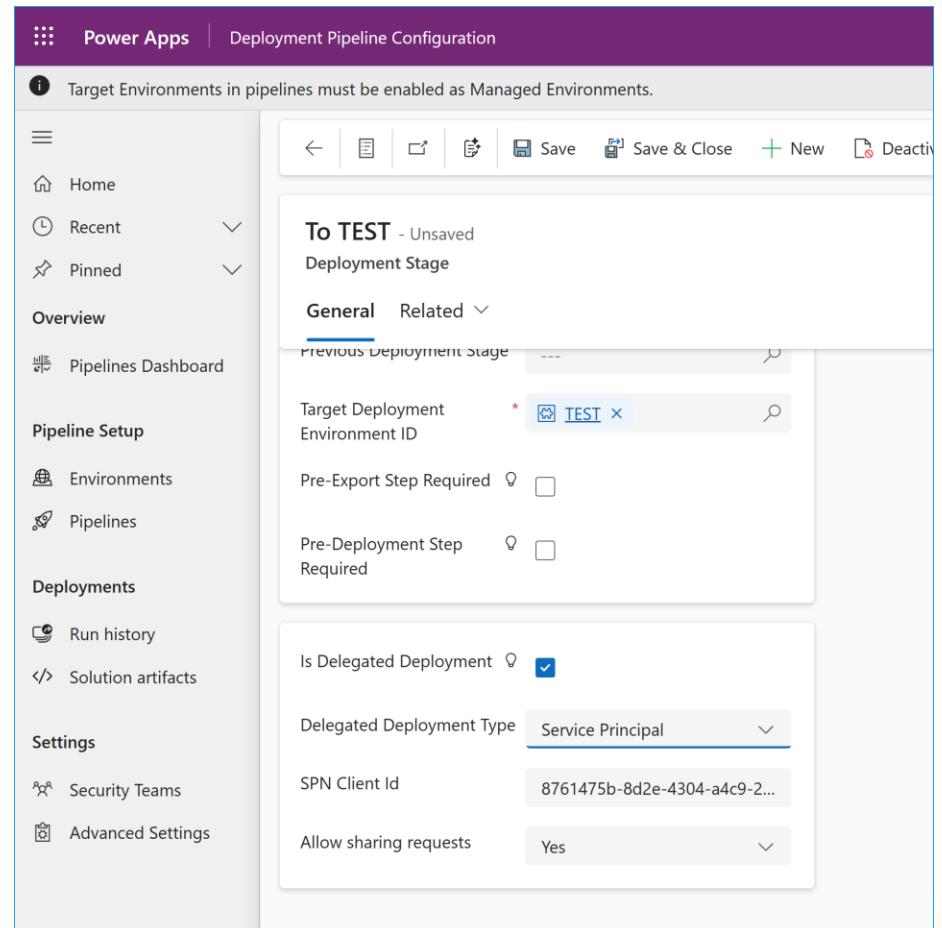
# Extending pipelines

- Can run Power Automate Flows pre or post deployment or deployment stage
- Allows for Approvals! (email, teams, etc)
- DEMO – update test data



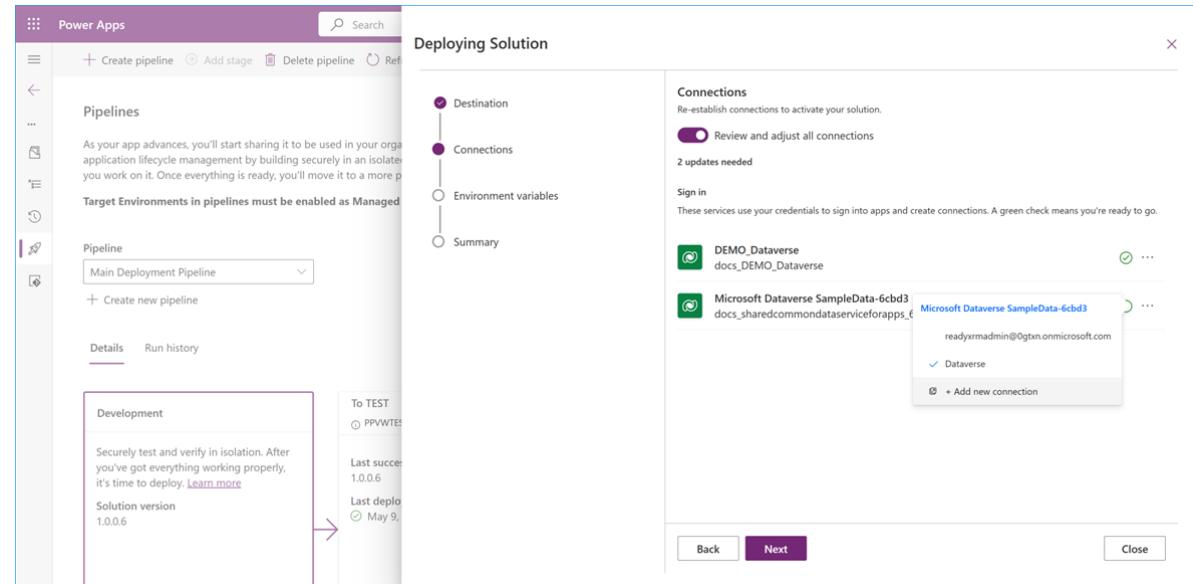
# Delegated deployments

- Run a deployment stage using a different account
- Allows deployment but no other access to environment



# Connections and Connection References

- Connections
  - Setup on each environment connecting to a service or data
  - Not part of a solution
  - Needs to be created (can be created during solution deployment)
- Connection Reference
  - Link between app or flow to the connection
  - Solution aware



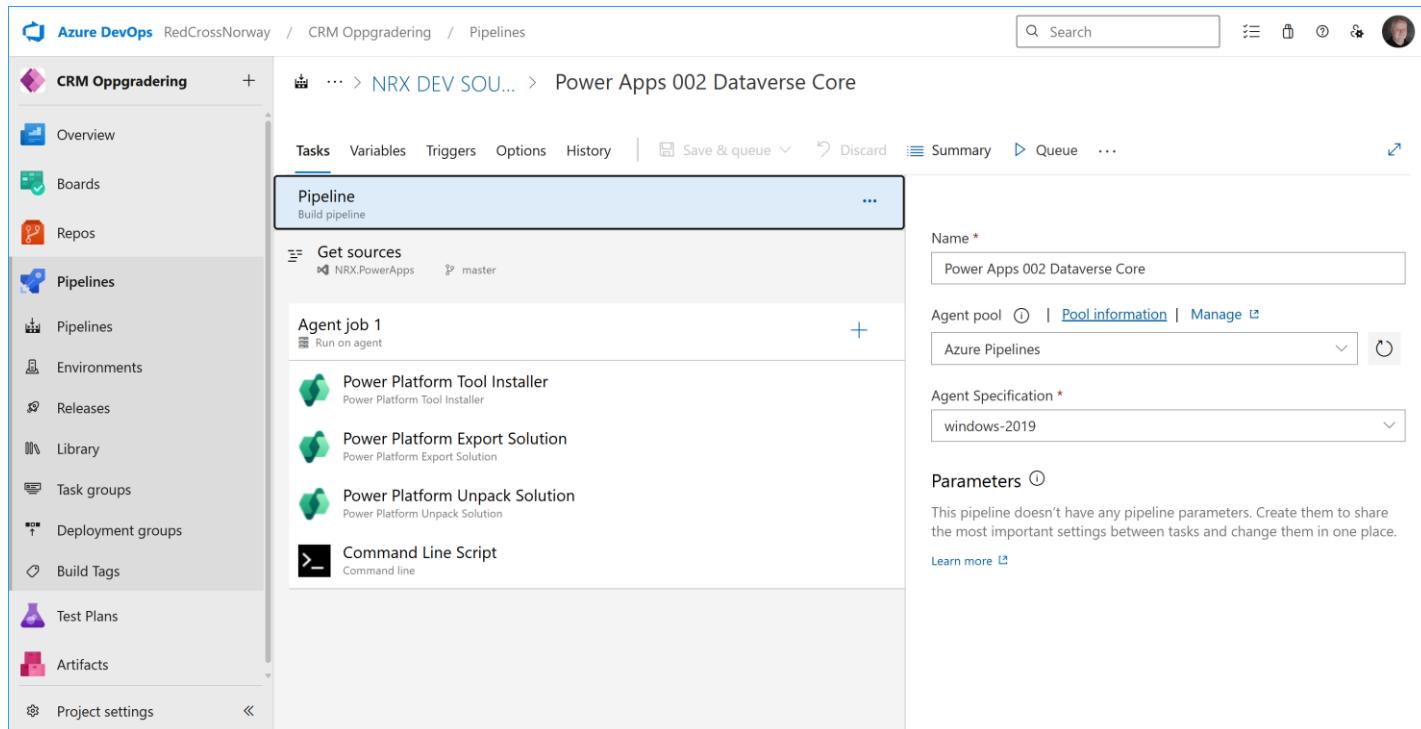
# Things you can't do

- Reoccurring scheduled deployments
- Check into source control automatically
- Branching
- Deploy unmanaged solutions
- Use an environment both as a dev and target



# Azure Dev Ops – Power Platform Build Tools

- Azure Dev Ops method
- More complex to configure
- Commit to source control
- Greater control over process
- Requires more management



# Quick and easy ALM...



# Develop directly in PROD

JUST KIDDING! DON'T!



# QUESTIONS?



