



Crash course in Power Platform pipelines



**Irish
Power Platform
Summit**

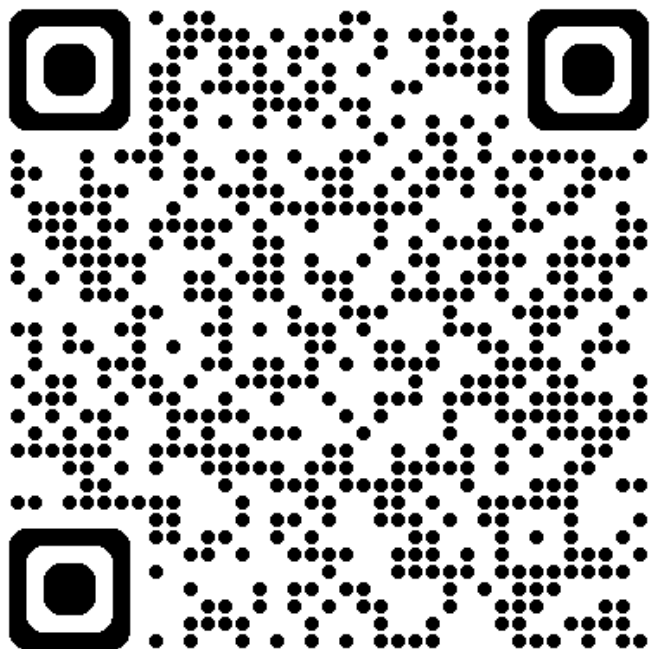
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Agenda

- What are Power Platform Pipelines
- Requirements
- Setting up your pipeline
- Running pipelines
- Lessons learned and gotchas

The screenshot displays the Power Apps Pipelines management interface. At the top, there's a navigation bar with 'Power Apps' and a search bar. Below this, a toolbar offers actions like 'Create pipeline', 'Add stage', 'Delete pipeline', 'Refresh', and 'Manage pipelines'. The main content area is titled 'Pipelines' and includes an introductory paragraph about application lifecycle management. A warning message states: 'Target Environments in pipelines must be enabled as Managed Environments.' Below this, a dropdown menu shows the selected pipeline as 'Podcast Management App'. A '+ Create new pipeline' link is also present. Two tabs, 'Details' and 'Run history', are visible, with 'Details' being the active tab. The 'Details' view is split into two panels. The left panel, titled 'Development', contains instructions: 'Securely test and verify in isolation. After you've got everything working properly, it's time to deploy. [Learn more](#)' and the 'Solution version' '1.2024.08.8'. The right panel, titled 'Podcast Management App', shows the environment 'PowerPlatformBoostProd' with a 'Go to this environment' link and the app name 'Podcast management app'. A 'Deploy here' button with a rocket icon is located at the bottom right of the right panel. A blue arrow points from the 'Solution version' text in the left panel to the 'Deploy here' button in the right panel.

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

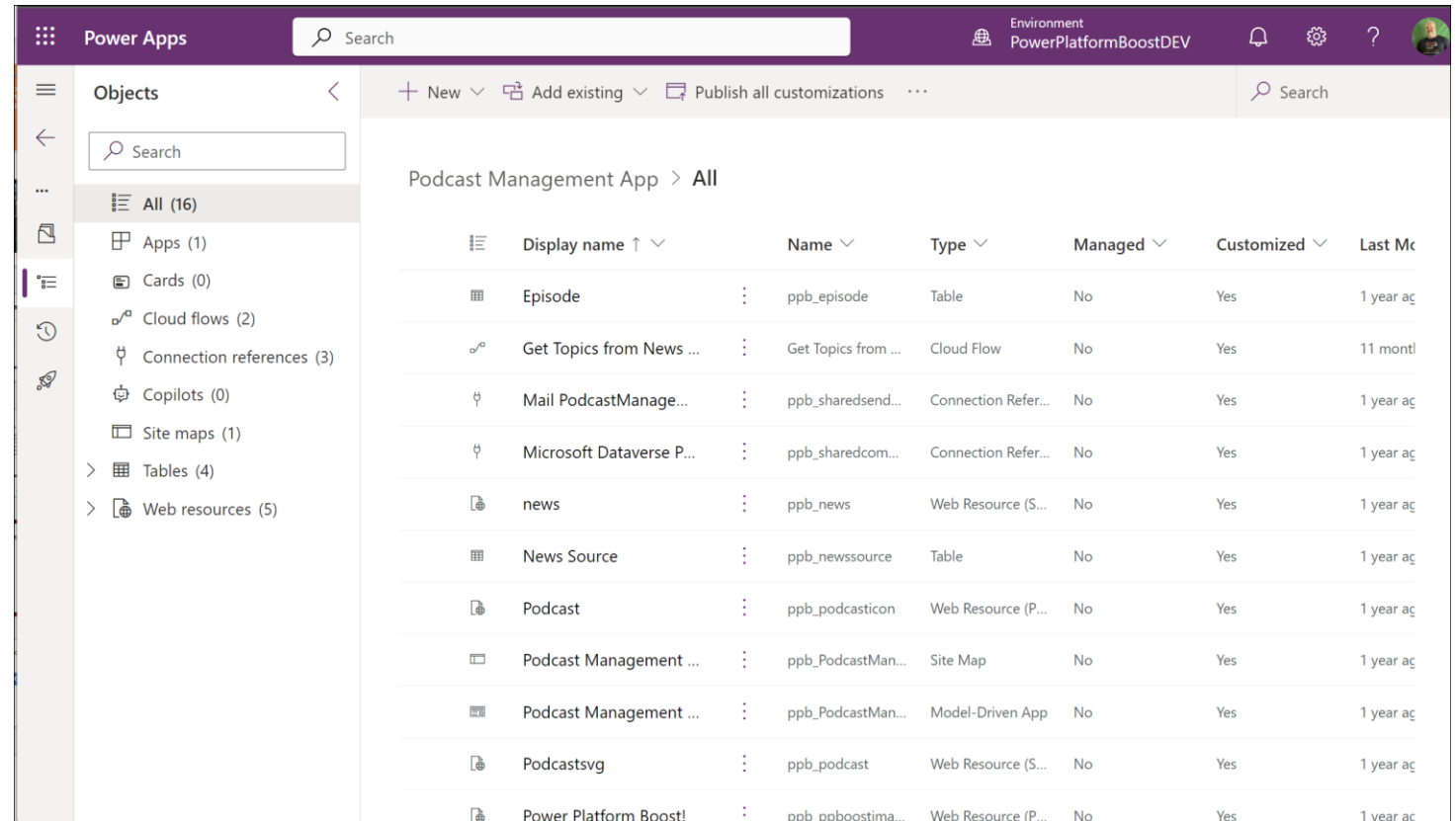
**A way to make moving
solutions easier**



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Power Platform environment and solutions

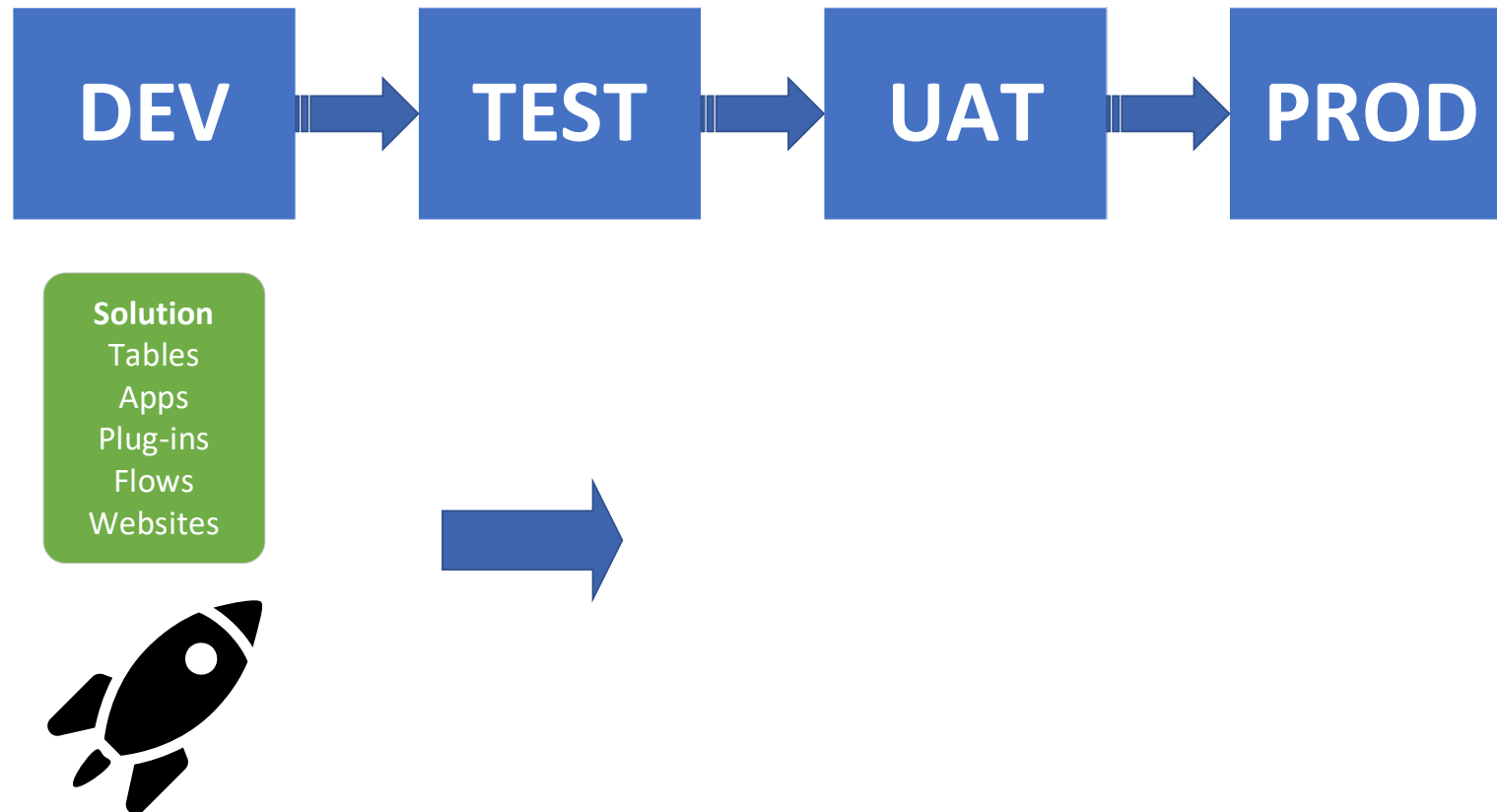
- Environment
 - Container to store apps, data, processes.
 - Separate environments by purpose, business need or geography
- Solution
 - Container to hold specific business application assets
 - Managed and unmanaged



The screenshot shows the Power Apps environment interface. The top bar includes the 'Power Apps' logo, a search bar, and the environment name 'PowerPlatformBoostDEV'. The left sidebar shows the 'Objects' pane with a search bar and a list of object types: All (16), Apps (1), Cards (0), Cloud flows (2), Connection references (3), Copilots (0), Site maps (1), Tables (4), and Web resources (5). The main area displays the 'Podcast Management App' solution, showing a list of objects with columns for Display name, Name, Type, Managed, Customized, and Last Modified.

Display name	Name	Type	Managed	Customized	Last Modified
Episode	ppb_episode	Table	No	Yes	1 year ago
Get Topics from News ...	Get Topics from ...	Cloud Flow	No	Yes	11 months ago
Mail PodcastManage...	ppb_sharesend...	Connection Refer...	No	Yes	1 year ago
Microsoft Dataverse P...	ppb_sharedcom...	Connection Refer...	No	Yes	1 year ago
news	ppb_news	Web Resource (S...	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 (S...	No	Yes	1 year ago
Power Platform Boost!	ppb_ppboostima...	Web Resource (P...	No	Yes	1 year ago

Environment strategy and pipeline process



Requirements

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



DEMO

Setup Power Platform pipelines

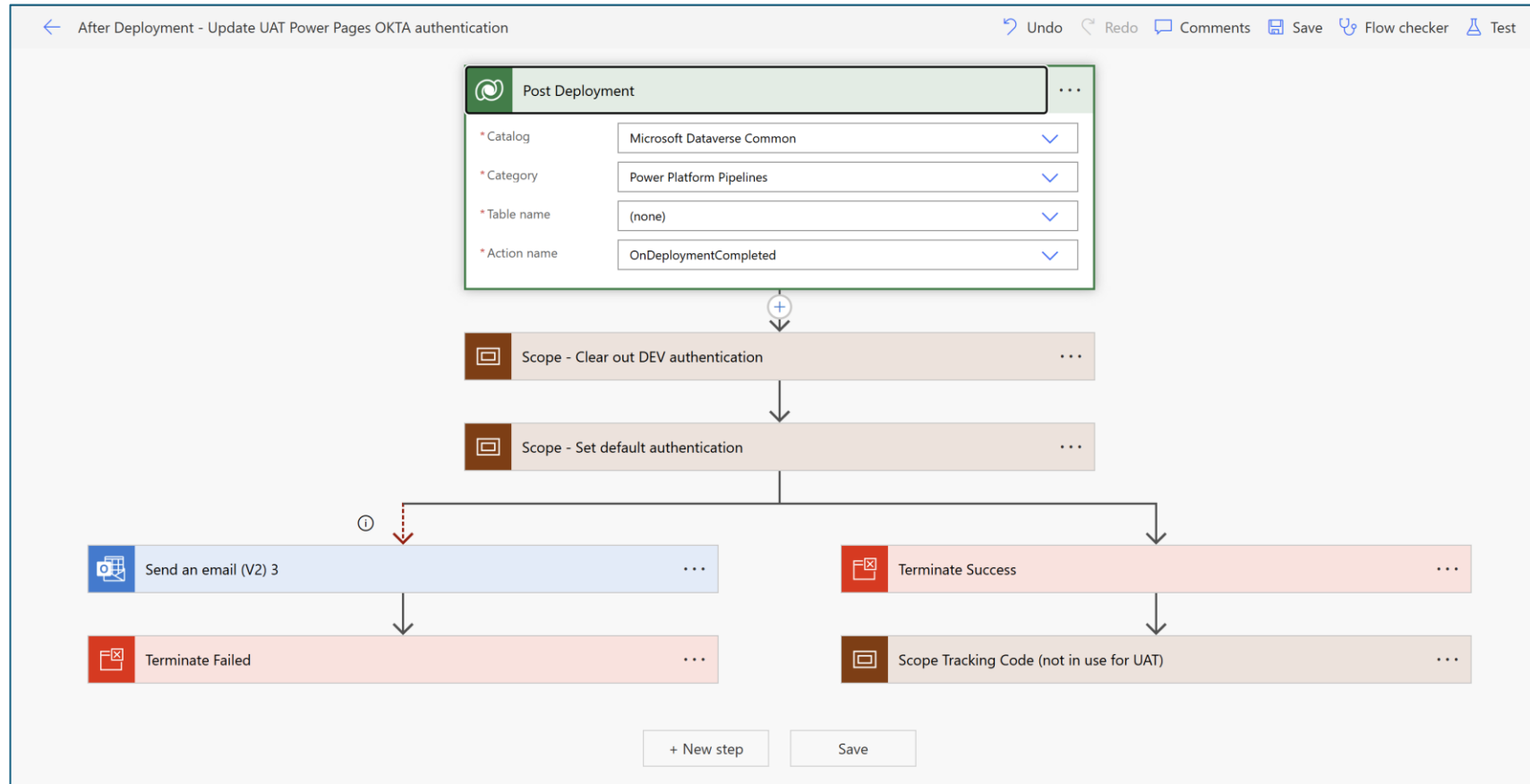
Setup environments

Setup deployment steps

Make a change to a solution

Deploy a solution

Extending pipelines



Other stuff

Other options (ALM Accelerator, Build Tools, Open source)

Lessons learned and gotchas

Questions!

Evolution (my journey through blog posts)

Started with Powershell and Git

<https://readyxrm.blog/2019/10/31/simple-alm-for-dynamics-365-cds-projects/>

Power Platform Build Tools

<https://readyxrm.blog/2020/04/07/simple-alm-for-power-apps-dynamics-365-projects-revisited-power-apps-build-tools-edition/>

Power Platform Pipelines

<https://readyxrm.blog/2023/06/11/use-power-platform-pipelines-with-power-pages/>