

Pipeline vs DevOps Pipeline

2023-03-15

Benedikt Bergmann

Power Platform Consultant
@CRM Konsulterna in Stockholm

- .Net development
- Angular
- Dynamics CRM/CE/MDA
- Power Platform

- Twitter: <https://twitter.com/benediktbergmann>
- LinkedIn: <https://www.linkedin.com/in/benedikt-bergmann>
- Mail: benedikt@benediktbergmann.se
- Blog: <http://benediktbergmann.se>



<https://bio.link/benediktbergmann>



Agenda



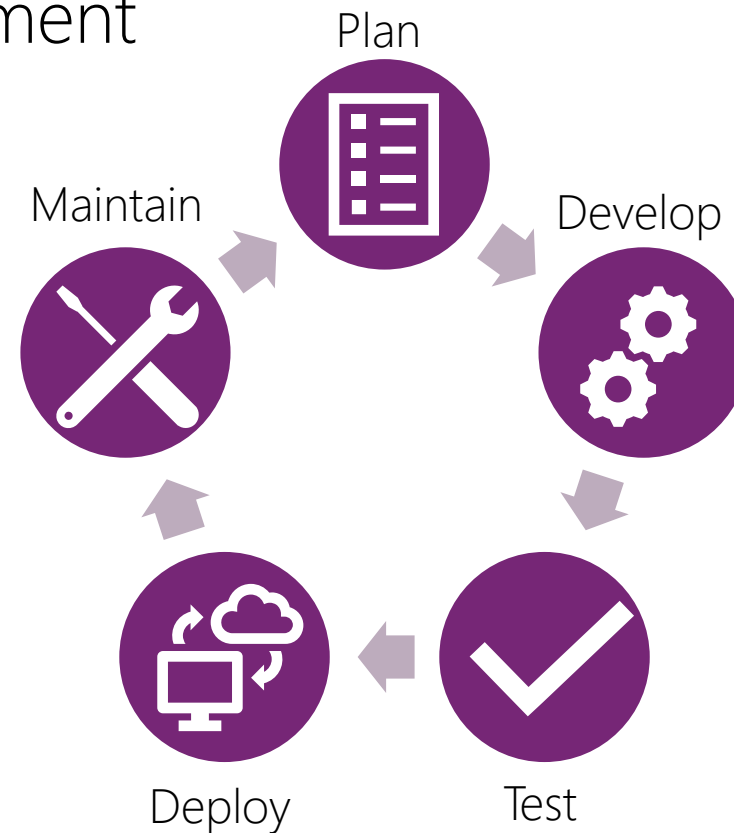
- ALM Basics
- Pipelines
- Functionality
- Setup
- Demo
- Pros & Cons
- Missing



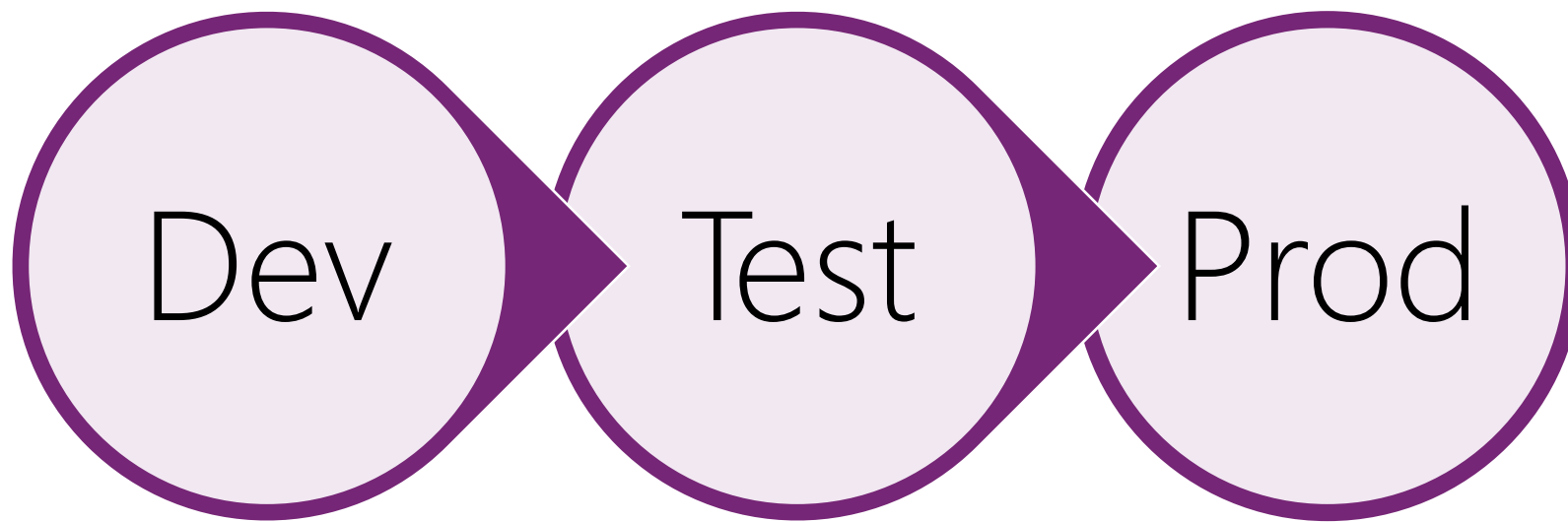


What is ALM? Why do we need it?

- Application Lifecycle Management
- Automation
- Minimize manual work
- Increase Quality



Basic process



“Full blown” Pipeline



- Run automated tests (C# & TS)
- Deploy to DEV
- Check against solution Checker
- Export as unmanaged
- Add to repo (unpacked)
- Export as managed
- Deploy



Pipeline ≠ Pipeline



- Power Platform Pipelines
- ALM Accelerator
- Azure DevOps Pipelines

The screenshot displays the Power Apps Pipelines interface, specifically the Power Platform ALM Accelerator. The interface is divided into several sections:

- Sidebar:** Contains navigation options: Overview, Objects, History, and Pipelines.
- Main Content Area:** Displays a table of solutions with columns for solution name, commit status, deployment status, and environment. The table lists several solutions, including "ALM Accelerator for Makers", "ALM Accelerator Sample Solution", "Center of Excellence - ALM Accelerator", "Center of Excellence - Audit Logs", "Center of Excellence - Core Comp...", "Center of Excellence - Flow Runs", "Center of Excellence - Governance", "Center of Excellence - Maker Jour...", "Center of Excellence - Microsoft T...", "Center of Excellence - Nurture Co...", and "CoE - Current Value".
- Jobs in run #20230313.3:** A panel showing the progress of various tasks. The tasks listed are: Export Solution (57s), Deploy First Solution (1m 10s), Initialize job (3s), Download (4s), Power Platform Tool Installer (6s), Import Solution (53s), Apply Upgrade (<1s), and Finalize Job (<1s).
- Terminal Window:** Shows the command-line output for the "Import Solution" task. The output includes the task name, description, version, author, and help text, followed by a series of status messages indicating the progress of the import process.

Power Platform Pipelines



Functionality



- Deploy single Solution
 - Several target environments
 - Run through CLI
-
- (Pre-steps)
 - (Approvals)
 - (Scheduled)



Setup



Environment purpose	Environment type	Standalone license required	Managed Environment
Host	Production	No	Recommended
Development	Developer	No	Yes
QA	Developer	No	Yes
Production	Production	Yes	Yes



An aerial photograph of a city, likely Gothenburg, Sweden, featuring a large suspension bridge (Kungälvbron) spanning a wide river. A large ship is docked at a quay in the foreground, and the city's urban landscape is visible on both banks. The image is overlaid with a semi-transparent purple rectangle containing the word "Demo".

Demo

Pros & Cons

Pros

- Easy to setup
- Easy to use/run
- Maker friendly
- Part of the Platform
- Developed by Product Team

Cons

- Not as flexible
- Missing functionality
- Managed environments needed
- Only Upgrade
- Maintain Customizations
- Triggering user Owner of components
- No publish before export
- Specific Role
- Same Geo
- Same flow for all solutions



Missing

- Several Solutions
- Export to Repo
- Settings files
 - Environment Variables
 - Connection References
- Azure parts
- Access



Thank you

Twitter: <https://twitter.com/BergmannBene>

LinkedIn: <https://www.linkedin.com/in/benedikt-bergmann>

Mail: benedikt@benediktbergmann.eu

Blog: <http://benediktbergmann.eu>



<https://bio.link/benediktbergmann>