



Microsoft Power Platform CONFERENCE

OCT 3-5
2023

MGM GRAND
LAS VEGAS

POWER BI

POWER AUTOMATE

POWER APPS

POWER VIRTUAL AGENTS

POWER PAGES

DYNAMICS 365 CE BONUS TRACKS!



SESSION: Low Code Power Pages ALM

25-minute

With **Ulrikke Akerbæk**

Microsoft MVP | Low Code Practice Lead, Itera



Microsoft Power Platform **CONFERENCE**

Low Code Power Pages ALM

Ulrikke Akerbæk

Low Code Practice Lead
Itera Fredrikstad

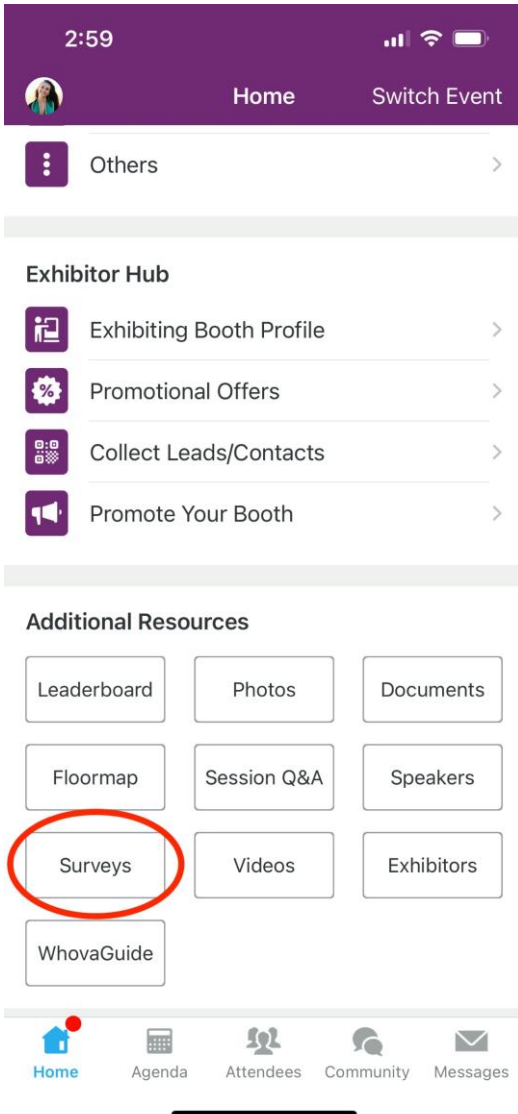
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**Event Invitation
Code: PPCFall2023**



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In the pursuit of making next year's Microsoft Power Platform Conference even better, we want to hear your feedback about this session.

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- *Click Session Feedback.*
- *Scroll down to find this session title.*
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- *Finally, click 'Submit'*

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Microsoft 365 CONFERENCE

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EPISODE 12 - AUGUST 9TH, 2023

CLICK BAIT

ULRIKKE AKERBÆK



NICK DOELMAN

Ulrikke
Akerbæk

Low Code Practice Lead

Itera Fredrikstad

Microsoft Business Applications **MVP**

Norway's top 50 women in tech 2022

Conference Speaker

Power Platform BOOST Podcast host

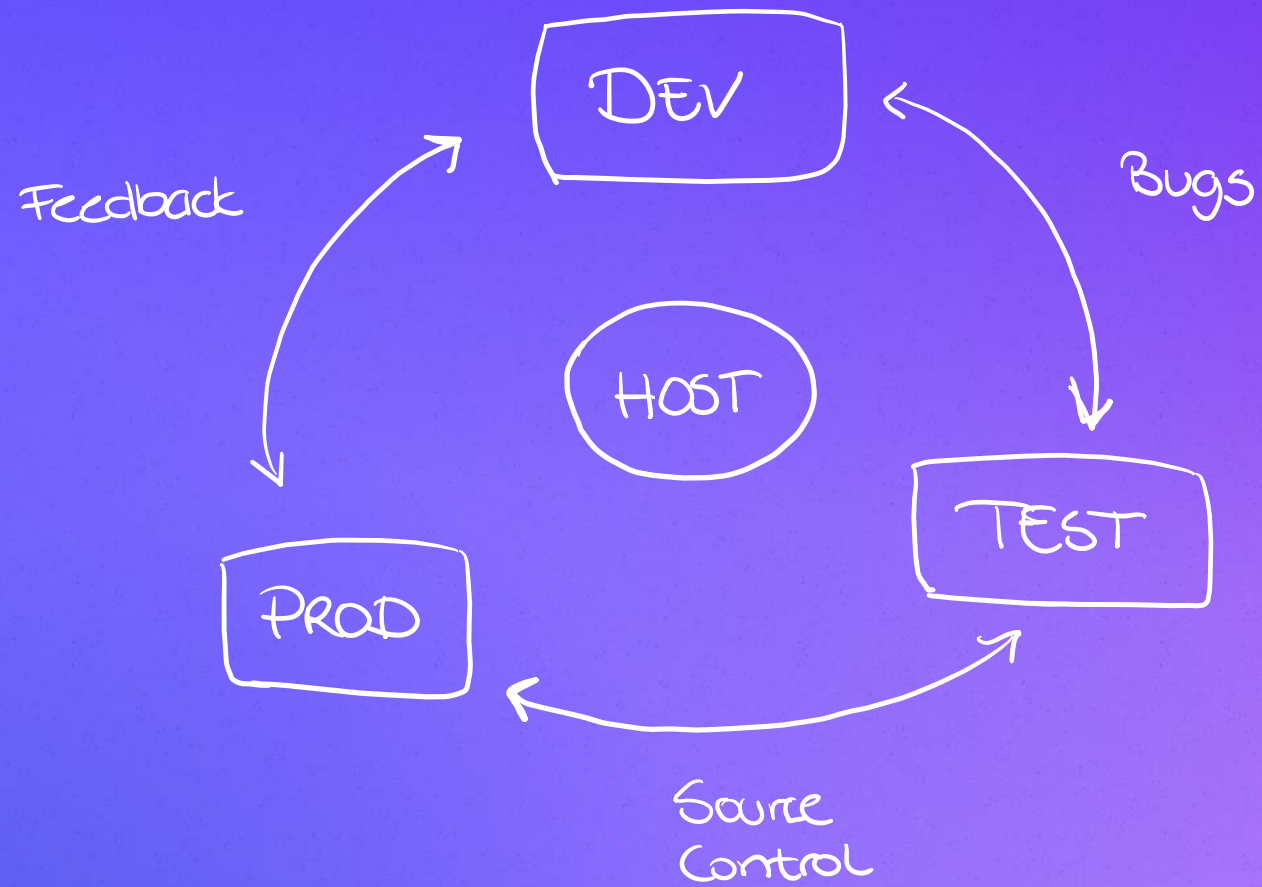
AGENDA

- 01 Power Platform Pipelines
- 02 Power Pages
- 03 All Together Now

ALM: Application Lifecycle Management

“In summary, **Application Lifecycle Management** is a comprehensive approach to managing software development projects from **inception** to **retirement**. It emphasizes collaboration, **quality assurance**, and the **systematic** management of changes and **improvements** throughout the application's lifecycle. Effective ALM practices contribute to the successful delivery of **high-quality software products**”





DEMO

1. Create environments
2. Enable Managed Environments
3. Install pipelines
4. Set up pipelines
5. Enable Enhanced Data model
6. Create a portal in the Dev environment
7. Add portal to solution
8. Run pipeline from Dev to Prod
9. Activate the new portal in Production
10. BIND and RESTART site

1. Create environments

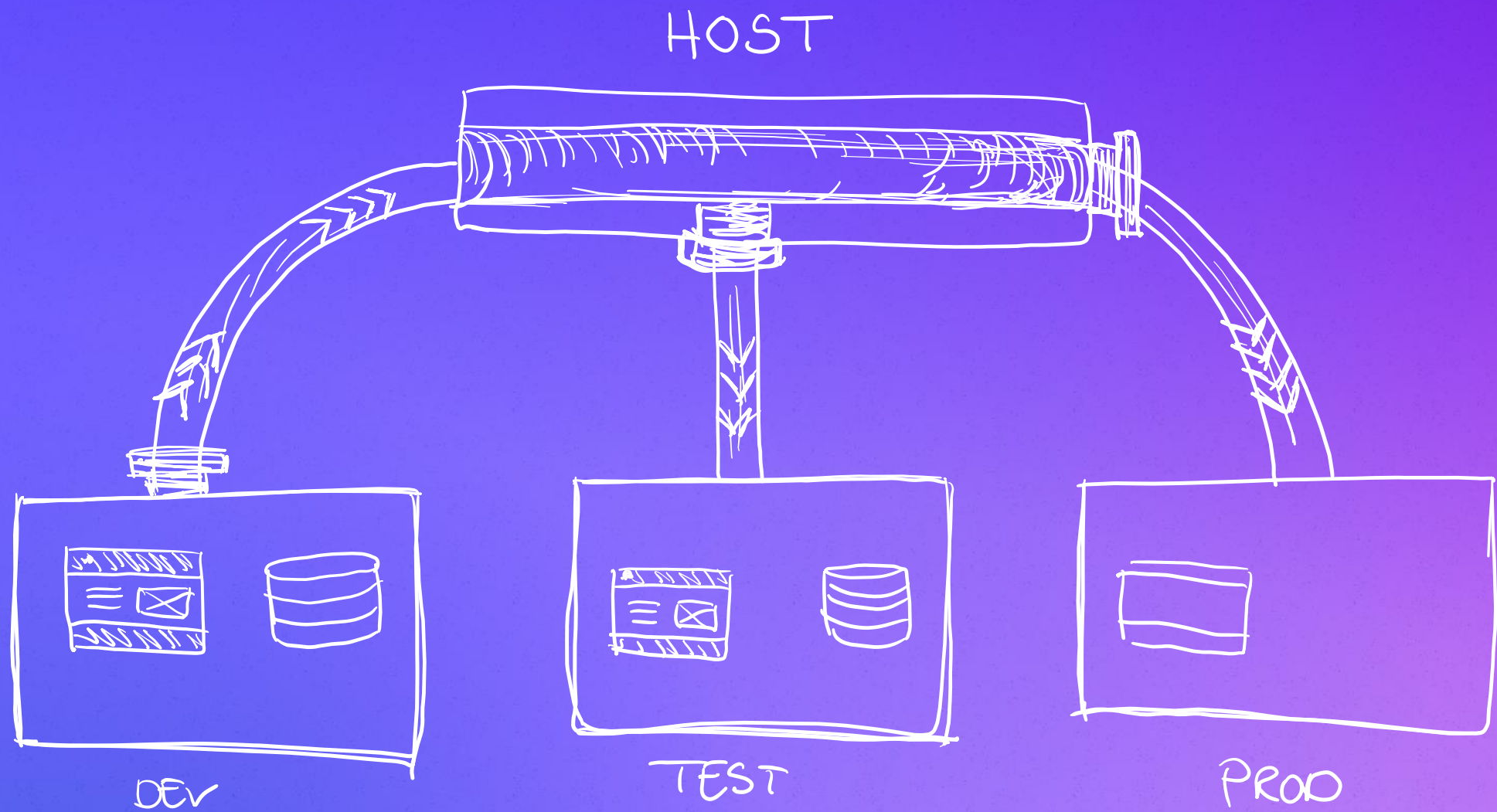
Power Platform admin center

+ New Refresh Recently deleted environments Environments overview Learn about Managed Environments Search

✓ New environment [Host](#) has been successfully created

Environments

Environment	Type	State	Dataverse	Managed	Region	
Host	...	Production	Ready	Yes	No	United States
Copilot Prod (us)	...	Production	Ready	Yes	No	United States
Copilot Dev (US)	...	Developer	Ready	Yes	No	United States
Ulrikke Dev	...	Developer	Ready	Yes	No	Europe
Ulrikke Akerbæk's Environment	...	Developer	Ready	Yes	No	Europe
Ulrikke Akerbæk's Environment	...	Developer	Ready	Yes	No	Europe
Personal Productivity (default)	...	Default	Ready	No	No	Europe



2. Enable Managed Environments

The screenshot shows the Power Platform admin center interface. On the left is a navigation pane with links to Home, Environments, Analytics, Billing (Preview), Settings, Resources, Help + support, Data integration, Data (preview), Policies, and Admin centers. The main area is titled 'Environments' and contains a table of environments. The first row, 'Copilot Prod (us)', is selected, indicated by a checkmark icon in a red box. A context menu is open for this environment, with a red arrow pointing from the selection box to the menu. The menu includes options: Copy, Delete, History, and 'Enable Managed Environments', which is highlighted with a red box. A red arrow also points from the 'Enable Managed Environments' option back to the 'Copilot Prod (us)' row in the table.

Environment	Type	State	Dataverse			
<input checked="" type="checkbox"/> Copilot Prod (us)	...	Production	Ready	Yes		
Copilot Dev (US)	...	Developer	Ready	Yes	No	United States
Ulrikke Dev	...	Developer	Ready	Yes	No	Europe
Ulrikke Akerbæk's Environment	...	Developer	Ready	Yes	No	Europe
Ulrikke Akerbæk's Environment	...	Developer	Ready	Yes	No	Europe
Personal Productivity (default)	...	Default	Ready	No	No	Europe

3. Install Pipelines

Power Platform admin center

Home

Environments

Analytics

Billing (Preview)

Settings

Resources

Help + support

Data integration

Data (preview)

Policies

Admin centers

Install app Open AppSource Refresh

Environments > Host > Dynamics 365 apps

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

Name ↑		
Catalog Client	...	
Data Archive Service - Trial	...	Ir
Data Validation App	...	Ir
Dynamics 365 ContextualHelp	...	Ir
Environment variables	...	Ir
Excel to Table in Dataverse and Canvas App	...	
Microsoft Flow Extensions	...	Ir

← Install Power Platform Pipelines

Name

Power Platform Pipelines

Description

Enables in-product deployment pipelines

Publisher

Microsoft Dynamics 365

Package(s)

Name	Version	
App Deployment Anchor Solution	9.1.1.7	Terms of service

☒ I agree to the terms of service

Install

Cancel

4. Setup Pipelines

The screenshot displays the Power Apps 'Deployment Pipeline Configuration' interface. The main window shows the 'Copilot Pipeline' configuration with tabs for 'General', 'Deployment stages', 'Run history', and 'Deployment Stages'. The 'General' tab is active, showing the pipeline name 'Copilot Pipeline' and a 'Save' button. A 'Quick Create: Deployment Stage' dialog is open on the right, allowing for the creation of a new deployment stage. The dialog includes fields for 'Deployment Pipeline' (set to 'Copilot Pipeline'), 'Name' (set to 'Deploy to Prod'), 'Description' (empty), 'Previous Deployment Stage' (empty), 'Target Deployment Environment' (set to 'Copilot - Prod'), and 'Pre-Deployment Step Required' (unchecked). A search icon is visible next to the 'Target Deployment Environment' field. At the bottom of the dialog, there are buttons for 'Add to Teams' and 'Deactivate'.

Power Apps | Deployment Pipeline Configuration

Pipelines is a feature of Managed Environments.

Copilot Pipeline - Saved
Deployment Pipeline

General | Deployment stages | Run history | Deployment Stages | Rel...

1 - 1 of 1

Deployment Stages (Deployment Pipeline)

Name ▼ | Deployment Pip... ▼ | Previous Deployme

Quick Create: Deployment Stage

Deployment Pipeline * **Copilot Pipeline**

Name * **Deploy to Prod**

Description ---

Previous Deployment Stage ---

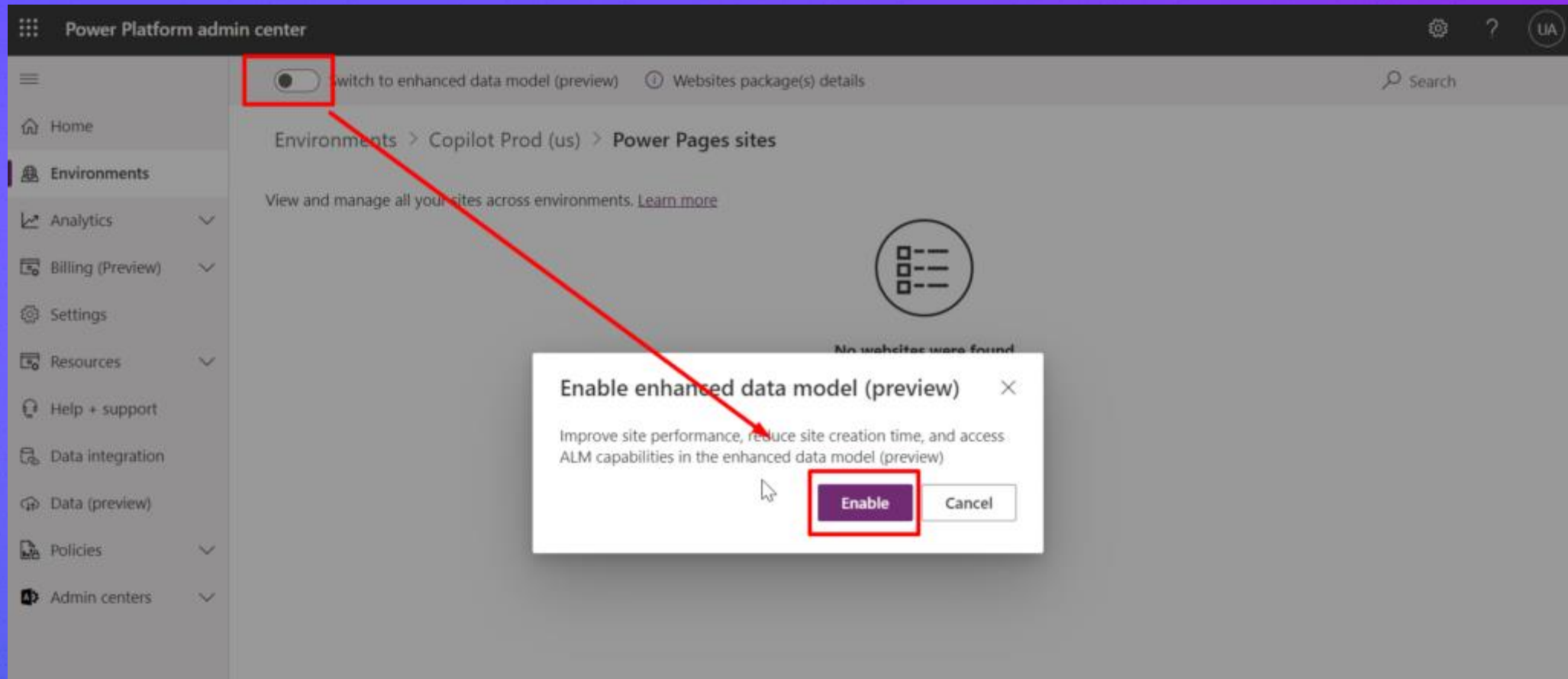
Target Deployment Environment * **Copilot - Prod** X

Pre-Deployment Step Required ☐

Add to Teams

Deactivate

5. Enable Enhanced Datamodel



6. Create Power Pages site

Power Pages

Environment
Copilot Dev (US)

UA

Blank page

Step 2 of 2

Great, let's add a few basic details while we start setting up your new site

Give your site a name *

Copilotsite

Create a web address *

copilotsitetest.powerappsportals.com

✓ copilotsitetest.powerappsportals.com

Site language

English (United States)

Hide details ^

Back

Done

7. Add site to Solution

The screenshot displays the Power Pages interface. The top navigation bar includes the 'Power Pages' logo, the environment 'Copilot Dev (US)', and user information 'UA'. The left sidebar shows a hierarchy of objects: All (132), Apps (0), Cards (0), Chatbots (0), Cloud flows (0), Site (1), Site Component (130), Site Language (1), and Tables (0). The 'Site (1)' folder is selected, showing a table of sites.

The main area displays the 'Copilot Site > Site' view. A table lists the site details:

✓	☰	Display name ↑	Name	Type	Managed	Last Modif...	Owner
✓		Copilotsite - copilotsit...	Copilotsite - copi...	Site	No	1 day ago	Ulrikke

A context menu is open for the selected site, showing options: Edit, Advanced, and Remove. The 'Advanced' option is expanded, revealing further actions: Add required objects, Show dependencies, See solution layers, and Managed properties.

8. Run Pipeline

The screenshot shows the 'Deploying Solution' dialog in the Power Pages interface. The dialog is divided into two main sections. The left section contains a progress indicator with two steps: 'Destination' (selected with a blue dot) and 'Summary' (unselected with a grey dot). Below this, there is a 'Pipeline' dropdown menu set to 'Copilot Pipeline'. The right section is titled 'Select deployment target' and includes instructions: 'Select the deployment pipeline you'd like to use. Each deployment pipeline has different stages, after you choose a pipeline - select the stage.' Below the instructions, there is a 'Pipeline' dropdown menu set to 'Copilot Pipeline'. Underneath, there are two radio button options: 'Run to Prod' (selected) and 'Run to Dev'. A 'Deployment schedule' section follows, with 'Now' selected and 'Later' as an alternative. At the bottom of the right section, there is a note: 'This pipeline uses AI to generate a solution overview. This feature is controlled in the pipeline settings by your admin. [Learn more](#)'. The dialog has a 'close' button in the top right corner and 'Back', 'Next', and 'Close' buttons at the bottom.

Power Pages

Pipelines

As your app advances, it's important to practice deploying your app so the people using it can move it to a more production environment.

Pipeline

Copilot Pipeline

Details Run history

Development

Securely test and deploy your app. Once you've got everything working, it's time to deploy to production.

Solution version
1.0.0.0

Deploying Solution

Destination

Summary

Select deployment target

Select the deployment pipeline you'd like to use. Each deployment pipeline has different stages, after you choose a pipeline - select the stage.

Pipeline

Copilot Pipeline

☒ Run to Prod

Deployment schedule

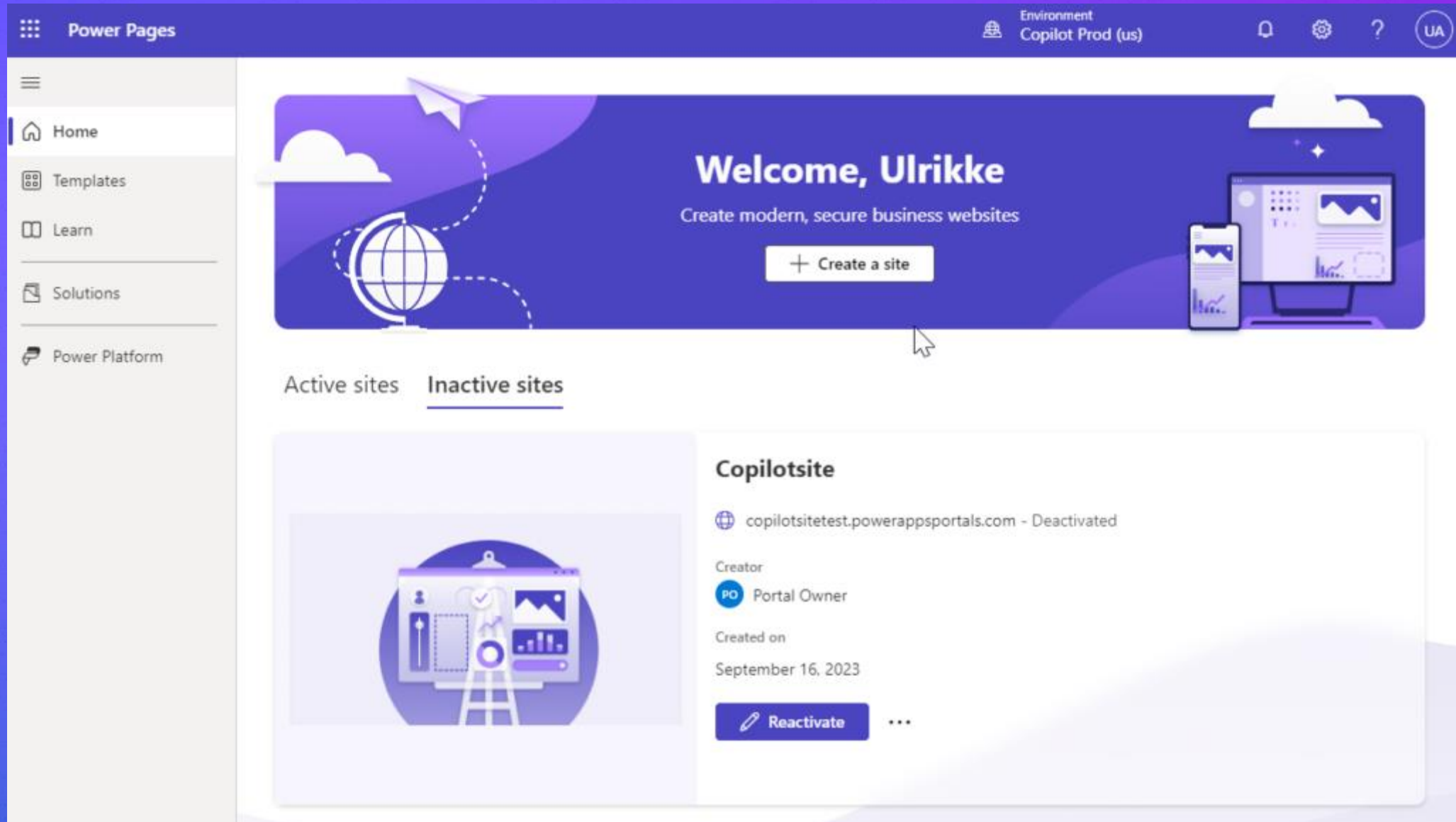
☒ Now

☐ Later

i This pipeline uses AI to generate a solution overview. This feature is controlled in the pipeline settings by your admin. [Learn more](#)

Back **Next** **Close**

9. Reactivate the site in PROD



The screenshot displays the Power Pages user interface. The top navigation bar includes the 'Power Pages' logo, the environment 'Copilot Prod (us)', and user information 'UA'. A left-hand sidebar contains navigation links for Home, Templates, Learn, Solutions, and Power Platform. The main content area features a welcome banner for 'Ulrikke' with a 'Create a site' button. Below the banner, the 'Inactive sites' tab is selected, showing a list of deactivated sites. The first site listed is 'Copilotsite', with the URL 'copilotsitetest.powerappsportals.com - Deactivated'. It was created by the 'Portal Owner' on September 16, 2023. A blue 'Reactivate' button is visible next to the site name, along with a three-dot menu icon.

Power Pages

Environment
Copilot Prod (us)

UA

Home

Templates

Learn

Solutions

Power Platform

Welcome, Ulrikke

Create modern, secure business websites

+ Create a site

Active sites Inactive sites

Copilotsite

copilotsitetest.powerappsportals.com - Deactivated

Creator
PO Portal Owner

Created on
September 16, 2023

Reactivate

10. BIND and RESTART site

The screenshot displays the Power Platform admin center interface. On the left is a navigation menu with options: Home, Environments, Analytics, Billing (Preview), Settings, Resources, Help + support, Data integration, Data (preview), Policies, and Admin centers. The main content area is titled 'Websites > Copilotsite'. At the top of this area, there are 'Site Actions' and a 'Switch To Classic' button. A yellow banner below the header states: 'Your trial website will expire in 30 day(s). Convert your website to production to avoid its suspension. [Learn More](#)'. The 'Site Details' section for 'Copilotsite' shows the URL 'https://copilotsiteprod.powerappsportals.com' and a 'Connect Custom Domain' option. Below this is a table with site configuration details:

Application Type	Early Upgrade	Site Visibility	Site State	App ID
Trial	No	Private	On	0596...
Org URL	Data Model			
https://org7132b232.c...	Enhanced			

The 'Security' section is partially visible at the bottom. On the right, the 'Edit Details' sidebar is open, showing fields for: Site Name (Copilotsite), Website Record (Copilotsite - copilotsitetest), Site URL (https://copilotsiteprod.powerappsportals.com), Audience (Customer), Site Visibility (Private), Site State (On), Owner (Ulrikke Akerbæk), and Application Type (Trial).

Learnings from the trenches

Power Pages Environment Copilot Dev (US) UA

Objects

- All (132)
- Apps (0)
- Cards (0)
- Chatbots (0)
- Cloud flows (0)
- Site (1)**
- Site Component (130)
- Site Language (1)
- Tables (0)

Copilot Site > Site

✓	Display name ↑	Name	Type	Managed	Last Modif...	Owner
✓	Copilotsite - copilotsit...	Copilotsite - copi...	Site	No	1 day ago	Ulrikke

- Edit
- Advanced
- Remove
- + Add required objects
- Show dependencies
- See solution layers
- Managed properties

What I learned from Jens

How should I think about all these options?

Capability	Pipelines	ALM Accelerator	DevOps/GitHub
IT / Developer involvement	Not required	Up front setup	Required for every project
Source Code integration	No, but planned	Yes	Yes
Rigid Control	Stages	Steps	Unlimited
Maker requires elevated privileges in target environment	Yes, but Service Principal support planned	Service Principal Supported	Service Principal Supported
Quality Control	Minimal	Best Practices	Unlimited
Democratized for Citizen Development	Yes	Yes	No
In-Product Experience	Yes	Canvas app provided, but not in Maker experience	No
Sharing and Ownership Experiences	No, but planned	Yes	No
Code-first development	No	Yes	Yes



Jens Schröder
Microsoft,
Sr. Program Manager,
Power CAT
[LinkedIn](#)

Good to know

- Recommended to use 4 environments
- Need Dataverse in all solutions
- Microsoft Dataverse for Teams is not supported
- Setup requires Power Platform administrator / Dataverse system administrator role
- Managed Environments require Premium Licenses
- All downloads are stored in pipeline hosts as artifacts

Docs

[Overview of Power Pages ALM](#)

[Overview of pipelines in Power Platform](#)

[Use solutions with Power Pages](#)

[Enhanced data model](#)

[Use Power Platform pipelines with Power Pages](#)

[Power Platform CLI solution support for Power Pages](#)

Blog posts



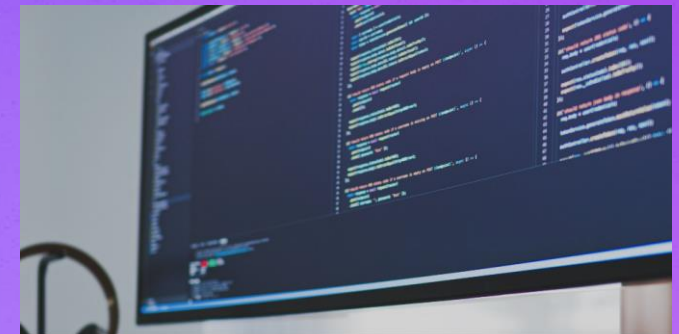
16/09/2023 / ULRRIKE AKERBÆK / LOW CODE
**LOW CODE POWER PAGES
ALM WITH POWER
PLATFORM PIPELINES**



15/09/2022 / ULRRIKE AKERBÆK / CSS
**POWER PAGES BRANDING –
VS CODE, CLI, CSS AND
SCSS**



22/11/2022 / ULRRIKE AKERBÆK / MICROSOFT STACK
**GET STARTED WITH POWER
PLATFORM IN YOUR OWN
SANDBOX**



25/11/2022 / ULRRIKE AKERBÆK / PORTAL
**PRO DEV SETUP FOR
POWER PAGES**

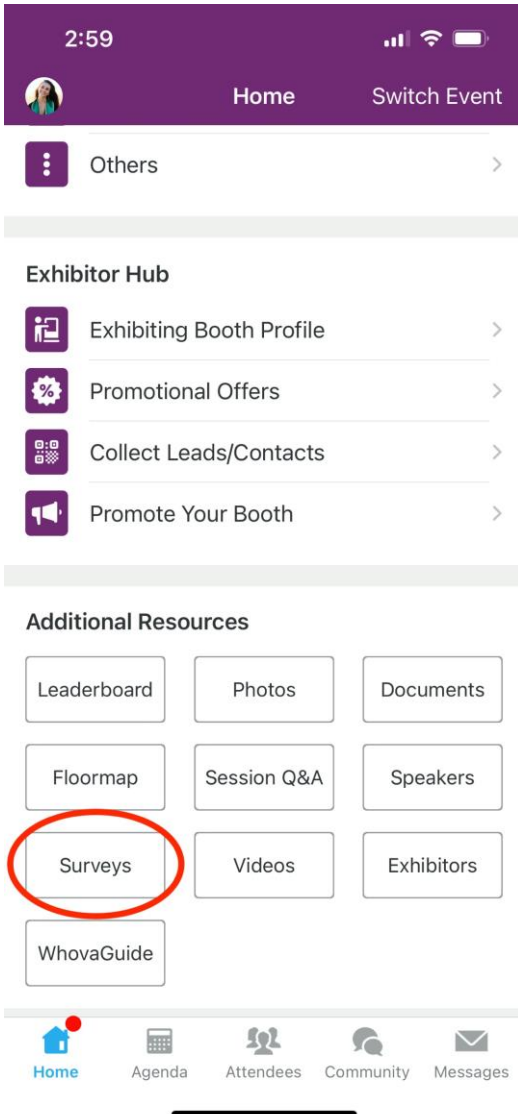
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It's just that easy!



Ulrikke Akerbæk

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Blog ulrikke.akerbak.com

Thank You