



Build, Deploy and Scale Power Apps!



<https://aka.ms/mppc23builddeployscale>

Please do the survey

 Microsoft Power Platform

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Welcome to
Build, Deploy, Scale Power Apps!

Welcome to Build, Deploy, Scale Power Apps!

Learn how to build and deploy Power Apps for enterprise scale across your organization. For more advanced makers and developers, you'll get hands-on experience with the full application lifecycle: from setting up your tenant with the right guardrails, development best practices to ensure your apps run performantly, deploying your work using the newest AI-powered pipelines ALM capabilities, and ensuring all this is easily governable.

Power Apps at For Get
Enterprise Scale **Advanced makers** **Hands-on**

Goals for the Workshop

1. Learn how to **build** in healthy scalable ways, using Copilot, environment strategy, and solutions.
2. Learn how to **deploy** with ALM best practices, including using Pipelines and the ALM Accelerator.
3. Learn how to **scale** your Power Apps with admin approvals and Advisor.

Agenda

- Lab 1: Setup and Configure
- Lab 2: Develop
- Lab 3: Deploy
- Lab 4: Scale
- Lab 5: Bonus Stuff !

Time	Activity
09:00 – 09:15	Introduction
09:15 – 09:45	Lab 1 Presentation
09:45 – 10:00	Lab 1 : Setup and Configuration
10:00 – 10:15	Coffee Break
10:15- 10:45	Lab 1 : Setup and Configuration Contd.
10:45 – 11: 00	Lab 2 Presentation
11:00 – 11:45	Lab 2 : Build
11:45 – 12:45	Lunch
12:45 – 13:15	Lab 3 Presentation
13:15 – 14:00	Lab 3: Deploy
14:00 – 14:15	Lab 4 Presentation
14:15 – 15:00	Lab 4: Scale
15:00 – 15:45	Lab 5 Presentation & Bonus Stuff
15:45 – 16:00	Wrap up

Just Like Power Apps



Beautiful
Modern design



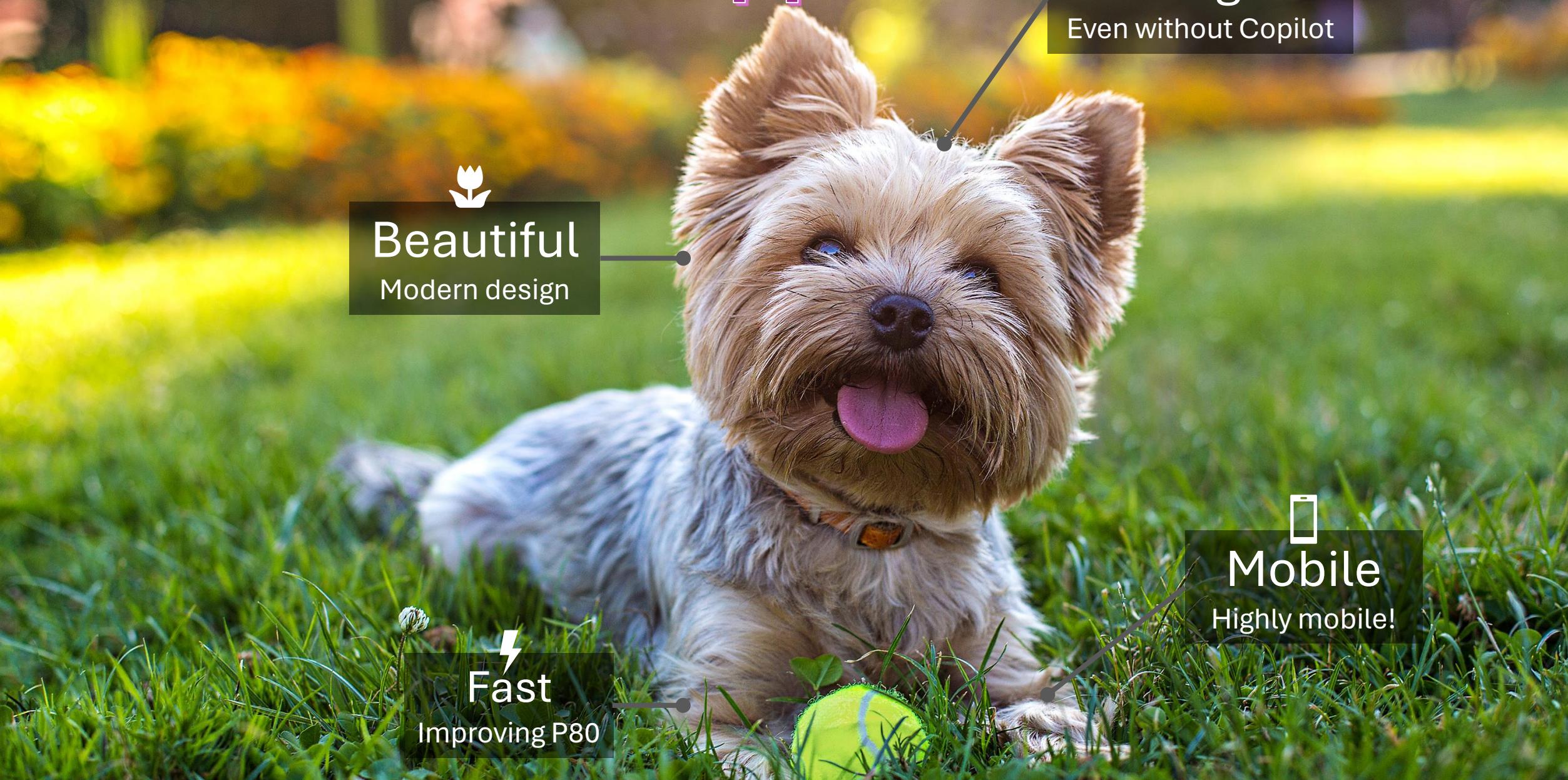
Fast
Improving P80



Intelligent
Even without Copilot



Mobile
Highly mobile!





Generated with DALL-E



Generated with DALL-E



Generated with DALL-E

Just Like Power Apps





vs



Puppies

Build "by hand"

One shared environment

Dev in Prod

Manual import & export

"Fire fighting" governance

Cattle

Build with Copilot

Dedicated developer environments

Environment strategy

Automated ALM

Proactive reco's and visibility

⚡ Activate LAB 1

- Managed Environments
- Environment routing
- Power Platform CLI

🔧 Build LAB 2

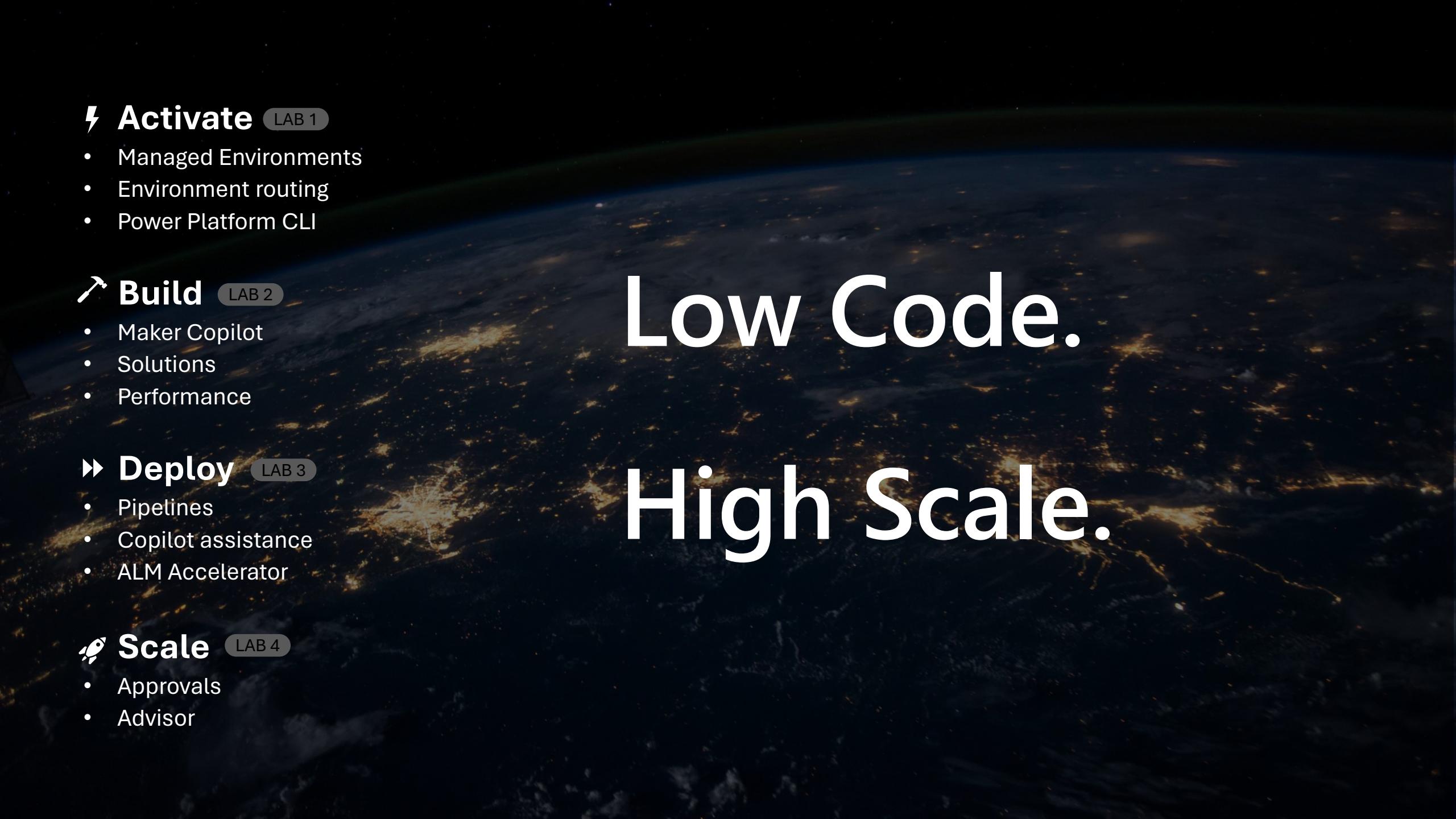
- Maker Copilot
- Solutions
- Performance

➡ Deploy LAB 3

- Pipelines
- Copilot assistance
- ALM Accelerator

🚀 Scale LAB 4

- Approvals
- Advisor



Low Code.
High Scale.

⚡ Activate

- ▶ Managed Environments
- Environment routing
- Power Platform CLI

🔨 Build

- Maker Copilot
- Solutions
- Performance

► Deploy

- Pipelines
- Copilot assistance
- ALM Accelerator

🚀 Scale

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- Advisor

Enable Managed Environments

Once enabled, all end users will need Power Apps or Power Automate licenses to continue using apps and flows in this environment.

[View licensing details](#)

Managed	State	Region
No	Ready	United States

Limit sharing

Help reduce risk by limiting how widely canvas apps and flows can be shared.

[Learn more](#)

Don't set limits

Limit sharing to security groups

Exclude sharing with security groups

Limit total individuals who can be shared to

Solution checker

Automatically run security and reliability validations during solution import.

[Learn more](#)

None Warn Block

Run security and reliability validations and block solution from being imported if critical issues are found.

Maker welcome content

First-time Power Apps makers will see this content in the Studio.

[Learn more](#)

```
  
# Welcome to Contoso Power Platform  
## Empower your teams on Low Code  
Before you get started, check out our company guidance and resources:
```

Learn more link

<https://contoso.com/powerapps/learnmore>

Preview in new tab

⚡ Activate

- Managed Environments
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- Power Platform CLI

🛠 Build

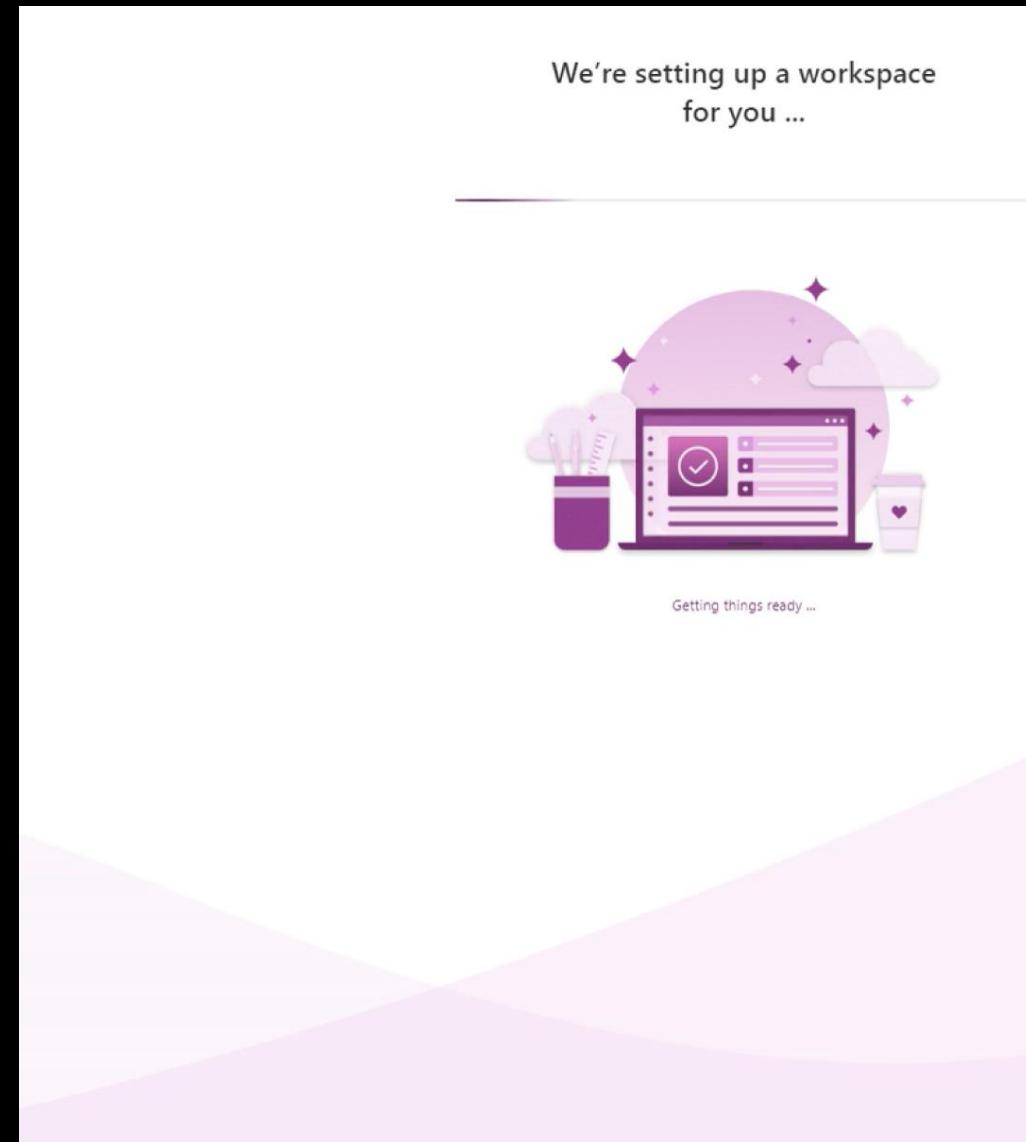
- Maker Copilot
- Solutions
- Performance

➡ Deploy

- Pipelines
- Copilot assistance
- ALM Accelerator

🚀 Scale

- Approvals
- Advisor



⚡ Activate

- Managed Environments
- Environment routing
- ▶ • Power Platform CLI

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```
kartikka@DCAMPA-1 ~ pwsh no config pac help
Microsoft PowerPlatform CLI
Version: 1.19.3+g34b8262

Usage: pac [admin] [application] [auth] [canvas] [connector] [data] [help] [org] [package] [paportal] [pcf] [pipeline] [plugin] [solution] [telemetry] [tool]

admin                                Work with your Power Platform Admin Account
application                          Commands for listing and installing available Dataverse applications from AppSource
auth                                 Manage how you authenticate to various services
canvas                               Operating with Power Apps .msapp files
connector                            (Preview) Commands for working with Power Platform Connectors
data                                 Import and export data from Dataverse.
help                                 Show help for the Microsoft Power Platform CLI
org                                  Work with your Dataverse Organization
package                             Commands for working with Dataverse package projects
paportal                            Commands for working with Power Apps portal website
pcf                                 Commands for working with Power Apps component framework projects
pipeline                            Work with Pipelines
plugin                              Commands for working with Dataverse plug-in class library
solution                            Commands for working with Dataverse solution projects
telemetry                           Manage telemetry settings
tool                                Power Platform tools that can be installed and launched
```

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🛠 Build

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Let's build an app. What should it do?

Collect RSVPs

Track sales leads

List inventory

Manage inspections

Use everyday words to describe what your app should collect, track, list, or manage ...



⚡ Activate

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The screenshot shows the Microsoft Power Apps Make screen at <https://make.powerapps.com>. The main area features a large, colorful graphic of a smartphone displaying a dashboard. To the right, a search bar contains the placeholder text "Search". Below the search bar, there are four buttons: "Collect RSVPs", "Track sales leads", "List inventory", and "Manage inspection". A call-to-action box says "Let's build an app. What should it do?". Below this, a text input field is labeled "Use everyday words to describe what your app should collect, track, list, or manage...". On the left, a sidebar menu includes "Home", "Create", "Learn", "Apps" (which is selected), "Tables", "Solutions", "More", and "Power Platform". In the bottom right corner, a modal dialog is open titled "Set your preferred solution". It contains instructions: "Select where your updates will be saved so your work stays organized." and a link "Learn more about healthy application lifecycle management (ALM.)". It also has a dropdown menu set to "José's test space (msdyn)" and a "New solution" button. At the bottom of the modal are "Apply" and "Cancel" buttons.

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Honda inspections

Connecting to data ...

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▶ Deploy

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🚀 Scale

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The screenshot shows the Microsoft Power Apps Pipelines interface. At the top, there's a navigation bar with 'Power Apps', a search bar, and a dropdown for 'Environment' set to 'Contoso Development ...'. Below the navigation is a sidebar with 'Contoso Solution' and links for 'Overview', 'Objects', 'History', and 'Pipelines'. The main area is titled 'Pipelines' with a 'Preview' button. It displays a pipeline named 'Contoso Standard Pipeline'. The pipeline is shown in three stages: 'Development', 'Deploy to Test', and 'Deploy to Production'. Each stage has a 'Deploy here' button. Arrows indicate the flow from Development to Test and from Test to Production.

Pipelines Preview

As your app advances, you'll start sharing it to be used in your organization. As it gets widely adopted, it's important to practice healthy application lifecycle management by building securely in an isolated location so the people using your app don't run into issues while you work on it. Once everything is ready, you'll move it to a more permanent place and share there. Learn more

Pipeline
Contoso Standard Pipeline

Details Run history

Development
Securely test and verify in isolation. After you've got everything working properly, it's time to deploy. Learn more
Solution version 1.0.0.2

Deploy to Test
Contoso Test Environment (Pipelines) Go to this environment
For quality assurance testing.

Deploy to Production
Contoso Production Environment (Pipelines) Go to this environment
Deploys to Production environment.

Deploy here

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Pipeline	Stage
Contoso delegated pipeline	Contoso Production
Display name	Name
Lab-Donation-App	LabDonationApp
Publisher	Prefix
PP1Lab1	pp1
Version *	
1.0.0.5	

Deployment notes

Summary:
This solution, called Lab-Donation-App, includes several components to solve the problem of managing donations in a laboratory setting. The main components are:

- Model-driven App: The PP1DonationApp, created by Prabhat, serves as the main interface for

ⓘ AI-generated content can have mistakes. Make sure it's accurate and appropriate before using it. [Read terms](#)

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▶ Deploy

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The screenshot displays the Power Platform ALM Accelerator interface. At the top, there's a navigation bar with 'Advanced Maker Experience' dropdown, 'Power Platform ALM Accelerator' title, and a 'Select Your Maker Environment' button set to 'Contoso CoE (New Dev)'. Below the navigation is a search bar labeled 'Search Solutions'.

The main area shows a list of solutions:

SOLUTION	COMMIT SOLUTION	DEPLOY SOLUTION
ALM Accelerator for Makers Open Solution Configure Deployment Settings	✓	✓
ALM Accelerator Sample Solution Open Solution Configure Deployment Settings	✓	✓
Center of Excellence - ALM Accelerator Open Solution Configure Deployment Settings	✓	○
Center of Excellence - Audit Logs Open Solution Configure Deployment Settings	✓	✓
Center of Excellence - Core Components Open Solution Configure Deployment Settings	✓	○
Center of Excellence - Flow Runs Open Solution Configure Deployment Settings	✓	○
Center of Excellence - Governance Co... Open Solution Configure Deployment Settings	✓	○
Center of Excellence - Maker Journey Open Solution Configure Deployment Settings	○	○
Center of Excellence - Microsoft Teams ... Open Solution Configure Deployment Settings	○	○
Center of Excellence - Nurture Compon... Open Solution Configure Deployment Settings	○	○
CoE - Current Value	○	○

To the right of the solution list is a 'PROFILE' section showing two Azure DevOps Test environments: 'Validation - Test - Prod' and 'Validation - Test - Prod'. Below this is a pipeline section titled 'Pipelines' with tabs for 'Recent', 'All', and 'Runs'. The 'Runs' tab is selected, showing a list of recently run pipelines:

Pipeline	Last run
deploy-test-ALMAcceleratorSampleSolution	#1.0.20220826.1 Individual CI for
deploy-validation-ALMAcceleratorSample...	#1.0.20220826.1 PR automated fo
export-solution-to-git	#export-ALMAcc Manually trigger
deploy-prod-ALMAcceleratorSampleSolut...	#1.0.20220825.1 Individual CI for
import-unmanaged-to-dev-environment	#import-ALMAcc Manually trigger

⚡ Activate

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🔧 Build

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- Performance

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🚀 Scale

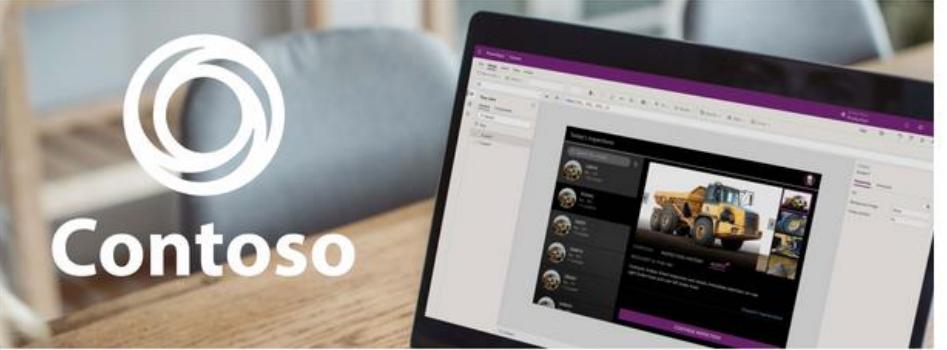
- • Approvals
- Advisor

 Approvals | Power Automate

Deployment to Production requires approval

Requested by **Casey Burke** <caburk@TestBlitzTIP.onmicrosoft.com>

Date Sunday, October 1, 2023 11:46 AM
Created
Link <https://org68c25892.crm.dynamics.com/main.aspx?appid=76ca693a-44b9-ed11-9884-000d3a1829e9&pagetype=entityrecord&etn=deploymentstagerun&id=e2b7c391-8a60-ee11-be6e-00224829b02e>



Deployment request requires your approval

1. **Requested by:** David Blyth
2. **Pipeline:** Contoso Deployment Pipeline
 - 1. **Target environment:** Production
 - 3. **Artifact name:** Retrospectives
 - 4. **Artifact version:** 1.0.0.5
 - 5. **Scheduled time:**
 - 6. **Deployment notes:**

This solution, Retrospectives, provides a comprehensive set of tools to manage retrospectives within an enterprise:

 - Classic Canvas App: Retrospectives
 - Entity: Retros Item

⚡ Activate

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🔧 Build

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► Deploy

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🚀 Scale

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The screenshot shows the Power Platform admin center interface. On the left, a sidebar menu includes Home, Environments, Advisor (Preview), Analytics, Billing (Preview), Settings, Resources, Help + support, Data integration, Data (preview), Policies, and Admin centers. The main content area features a purple header with the text "Welcome, MOD" and a subtitle "The Power Platform admin center is the place to manage users, environments, policies, and more." Below this is a central panel titled "Adviser (Preview)" with a "Updated on 9/27/2023" message. It displays "4 recommended actions" regarding security threats in the tenant. A "View recommendations" button is at the bottom of this panel. To the right, there's a "Message center" section with "15 unread messages" about Dynamics 365 service updates. At the bottom, a "Service health" section shows "0 incidents or advisories".

⚡ Activate LAB 1

- Managed Environments
- Environment routing
- Power Platform CLI

🔧 Build LAB 2

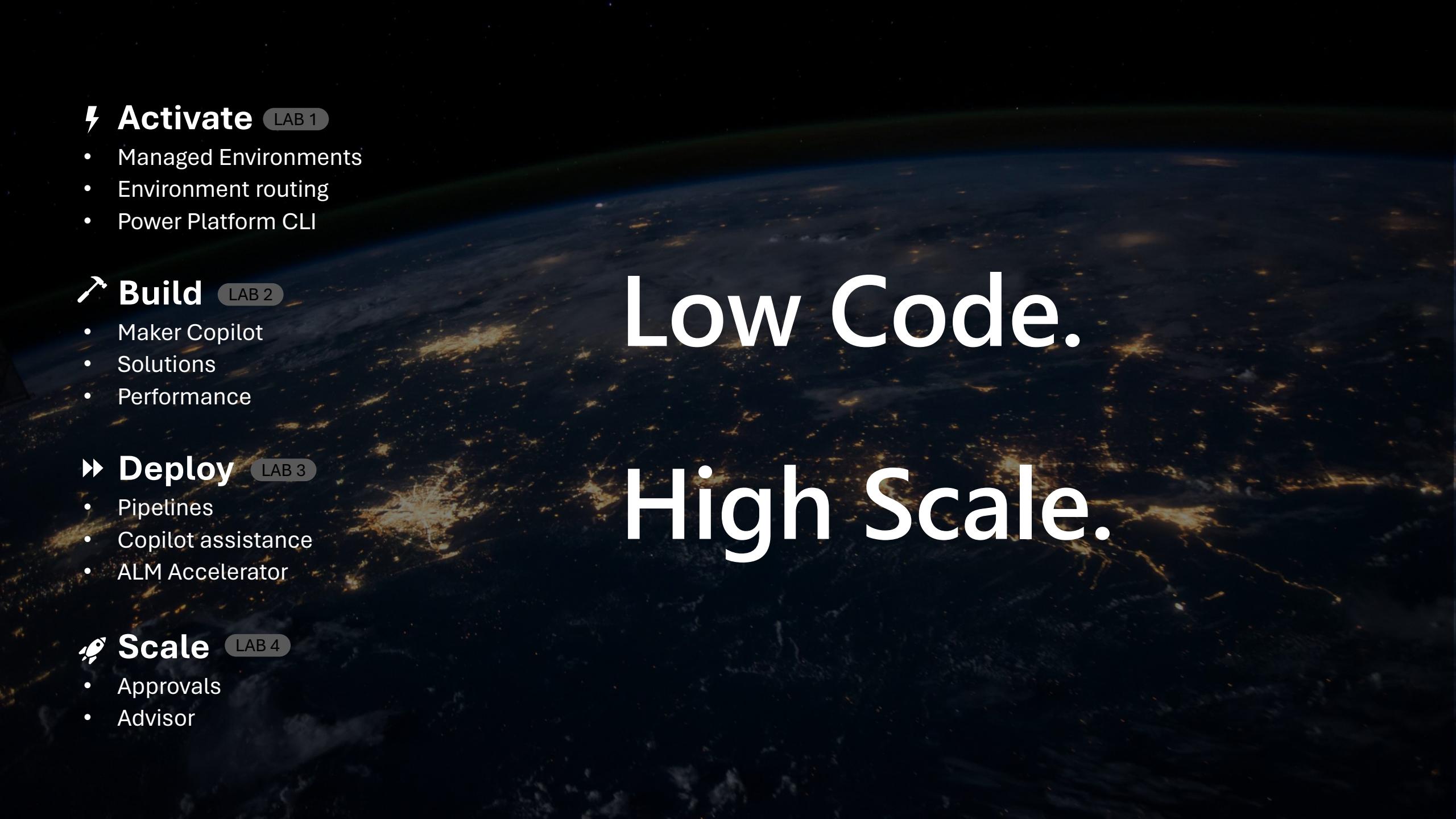
- Maker Copilot
- Solutions
- Performance

➡ Deploy LAB 3

- Pipelines
- Copilot assistance
- ALM Accelerator

🚀 Scale LAB 4

- Approvals
- Advisor



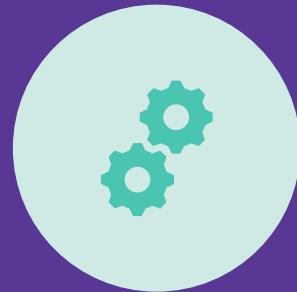
Low Code.
High Scale.

Various Approaches to Choose from

Power Platform ALM Landscape



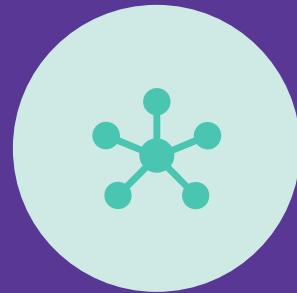
Manual deployment with
export / import of
solutions



Repeatable deployments
with Pipelines for Power
Platform



Automated deployment
with Tools and
Automation



Automated deployment
with ALM Accelerator for
Power Platform

GitHub Codespaces

- Write code, build your applications, run test suites, debug issues, and deploy all in your browser
- Use web-based Visual Studio Code or your favorite IDE
- Customize with extensions, settings, scripts, and features
- Customize further using Docker and Docker Compose
- Onboard new developers quickly with environments that are ready in minutes
- Standardize developer environments within your organization
- Distribute developer environment configuration as part of your demos

Environments

Definition:

Container to store, manage, and share your organization's business data, apps, flows, chatbots and other Power Platform resources.

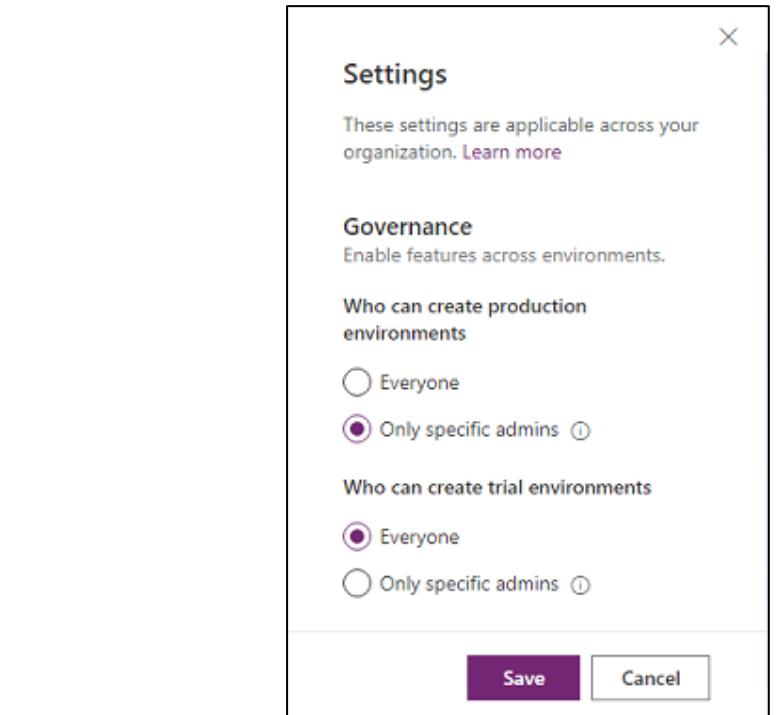
Serves as a container to separate apps that might have different roles, security requirements, or target audiences.

Key facts:

- Created under an AAD tenant, resources can only be accessed by tenant users.
- Tied to a geographic location
- Different types of environment exists
- Can have either **zero** or **one** Dataverse database
- Every tenant has a Default environment where all licensed Power Apps and Power Automate users can create apps & flows.

Security tips:

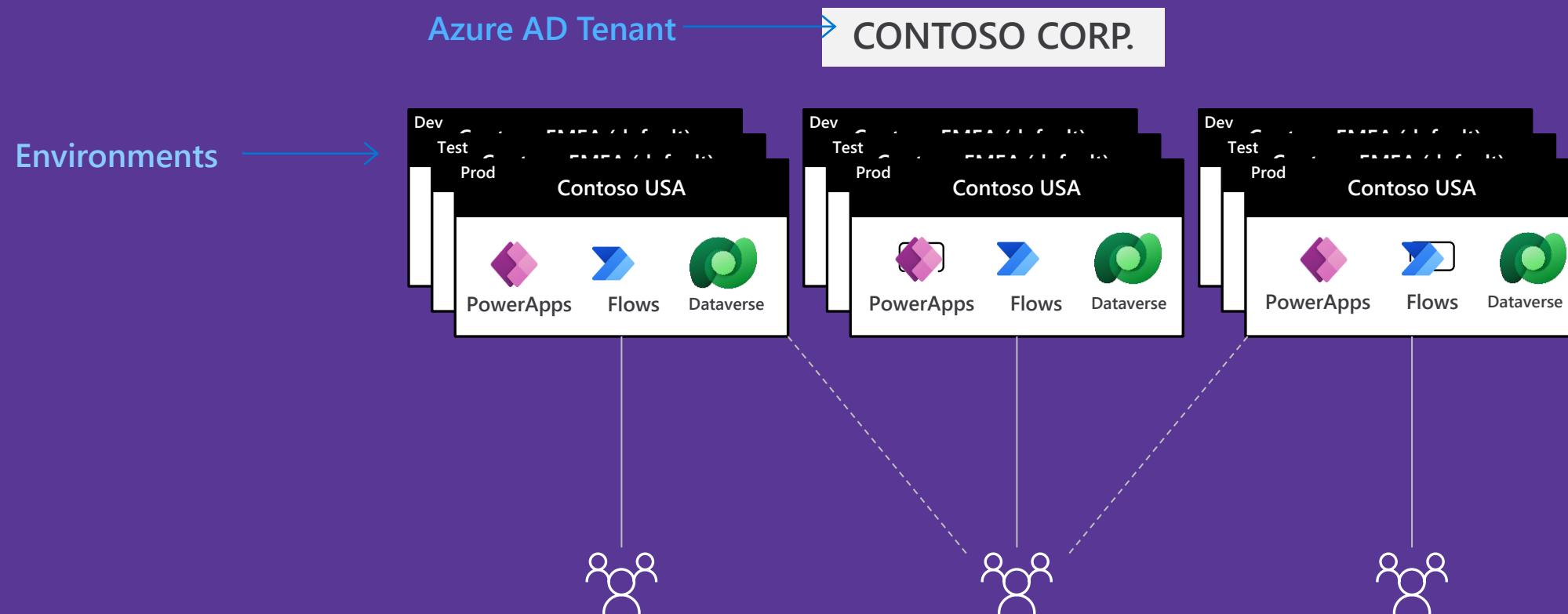
- Non-default environments offer more permission controls.
- Non-default environment creation can be restricted to specific admins.
- Non-default and non-developer environments with Dataverse can be restrict access to a specific AAD security group.



Power Platform		Admin center
		+ New ⏪ Refresh
Environments		
Capacity	Environment	Type
Common Data Service	CRMProduction	Production
	CRMDevelopment	Sandbox

Develop Your Environment Strategy

Environments are containers that administrators can use to manage apps, flows, connections, and other assets; along with permissions to allow organization users to use the resources



Create an environment

You can create environments in the Power Platform Admin Center or using Power Platform CLI

Environment can be created either with or without Dataverse database

To create an environment, all the following must be **true**:

- The user has a license that allows environment creation
- Environment creation is allowed in tenant level (if user is not Global, Power Platform or Dynamics Admin)
- For production and sandbox environments, the tenant must have at least 1GB of database storage capacity available
- For trial (subscription-based) environments, each offer-based trial (also known as "admin trial") subscription entitles the tenant to three subscription-based trial environments. Only tenant-level admins are able to provision trial (subscription-based) environments.
- For trial (standard) environments, the user needs a license providing per-user entitlement for trial environments. This applies to tenant-level admins, as well.
- All users can create max three Developer (personal) environments even without having Power Platform Developer Plan

License	Trial	Production	Developer
Microsoft 365 Plans	No	No	Yes
Dynamics 365 Teams Plans	No	No	Yes
Power Apps Developer Plan	No	No	Yes
Dynamics 365 trial	Yes (one)	No	Yes
Dynamics 365 Plans	Yes (one)	Yes	Yes
Power Apps plan	Yes (one)	Yes	Yes
Power Apps trial	Yes (one)	Yes	Yes
Power Virtual Agents trial plan	Yes	No	Yes
Power Virtual Agents plan	No	Yes	Yes

NOTE! Global and Power Platform Administrators can create environments without any license

Default environment

Definition:

A single default environment is automatically created for each tenant and is shared by all users in the tenant (who are Environment Makers). Learn more [here](#).

Key facts:

- Auto-created for every tenant
- Can't be disabled or deleted
- Whenever a new user creates their first Power App or Flow, they're automatically added to the Environment Maker role
- Default is not for development of critical apps.
- You can't backup and restore the default environment.
- Limited to max 1TB of storage capacity and following included capacity.
 - 3 GB Database Capacity
 - 3 GB File Capacity
 - 1 GB Log Capacity

Security tips:

- Rename the environment to make the purpose of that environment self-explanatory like "Personal Productivity"
- Configure a Data Loss Prevention policy to control the connectors that can be used by apps and flows in the default environment.

Environments		
Environment	Type ↑	State
Personal Productivity	...	Default

Developer environment (Developer Plan)

Definition:

You get a free developer environment to develop and test apps, including support for premium and custom connectors and Dataverse. Learn more [here](#).

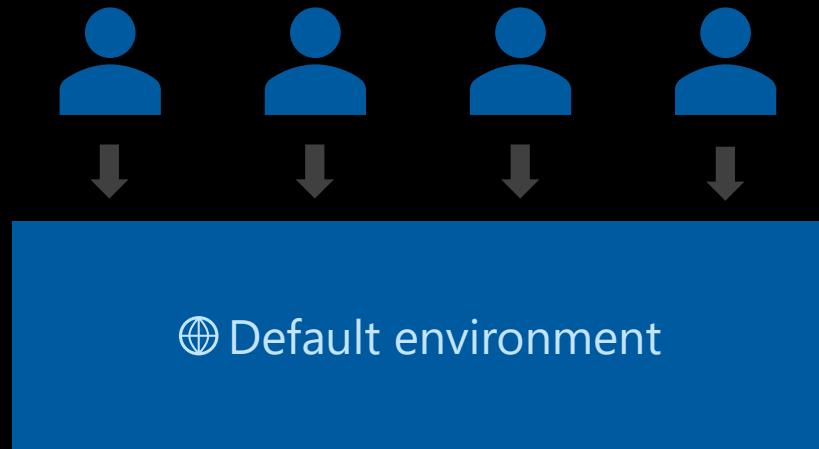
Key facts:

- Create apps and flow and share and collaborate on these solutions with others.
- Connect to any data source by using OOB connectors or by creating custom connectors.
- Use a fully managed, scalable data platform with Dataverse
- Offers backup/restore, reset and copy functionalities
- Not meant for production use
- Environment capacity limits are:
 - Flow runs/month – 750
 - Database size – 2GB

The screenshot shows a user interface for managing environments. At the top, there's a navigation bar with icons for 'Open environment', 'Settings', 'Resources', 'Delete', and 'History'. Below the navigation, the title 'Environments > 's Environment' is displayed. A 'Details' section contains several configuration items: 'Environment URL' (orgff694029.crm4.dynamics.com), 'State' (Ready), 'Region' (Europe), 'Refresh cadence' (Frequent), 'Type' (Developer, highlighted with a red border), and 'Security group' (Not assigned).

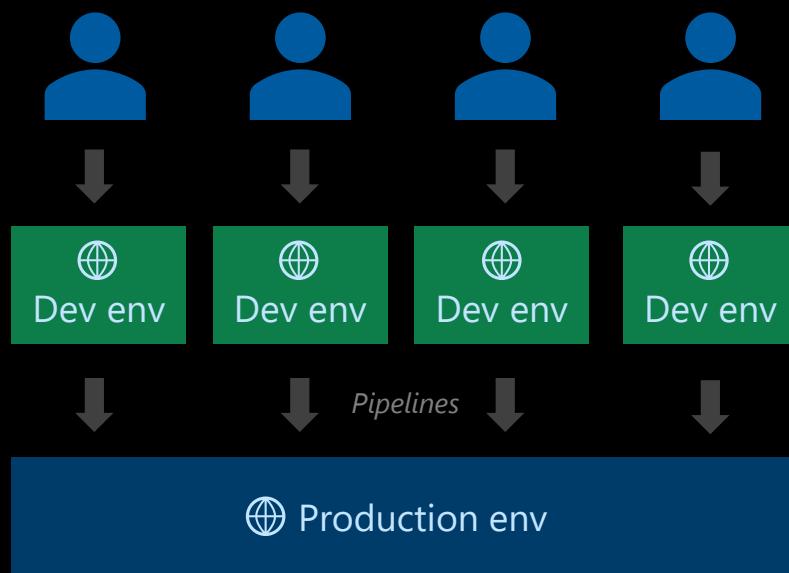
Setting	Value	Status
Environment URL	orgff694029.crm4.dynamics.com	State Ready
Region	Europe	Refresh cadence Frequent
Type	Developer	Security group Not assigned

Taming the Default



- App sprawl** → Many assets in one shared environment
- Maker collisions** → Makers can accidentally step on each others work
- Data exposure** → Shared access to Dataverse in Default
- Guardrails** → Difficult to customize permissions and policies
- ALM** → Steep ALM learning curve

Default Environment Routing



	Building in Default	Building in Dev Envs
App sprawl	Many assets in one shared environment	Each maker's assets in their own environment
Maker collisions	Makers can accidentally step on each others work	Developer isolation
Data exposure	Shared access to Dataverse in Default	Personal Dataverse per environment
Guardrails	Difficult to customize permissions and policies	Tailor permissions and policies for each / all dev environments
ALM	Steep ALM learning curve	Seamless Pipelines onramp



Managed Environments

Streamline governance at scale



More visibility

- Usage insights
- Admin digest
- License reports
- Data policy view
- Advisor New



More control

- Sharing limits
- Solution checker
- Maker onboarding
- Environment routing New
- Enhanced network security New



Less effort

- Easy activation
- Pipelines
- Delegated deployments New
- AI deployment notes New
- AI app descriptions New

Managed Environments Adoption



“What Microsoft offers with **Managed Environments is something that you don’t really get from other low-code vendors ...”**

– Kyle Davis, Gartner

More Visibility

Usage insights

Power Platform admin center

Welcome, Mona

The Power Platform admin center is the place to manage users, environments, policies, and more.

+ Add cards Share feedback

Managed Environment Insights

Top makers

Maker name ↑	Total sessions	Apps
Cameron Williamson	1,543	17
Brooklyn Simmons	912	13
Leslie Alexandar	873	20
Jenny Wilson	409	5
Robert Fox	112	6

Managed Environment Insights

Top apps

App name ↑	Environment	Sessions
PG&E Event Planner	Operations	24,363
Pay Your Bill	Development	22,342
News Feed	Default Productivity	22,110
Employee Onboarding	Operations	19,234
Employee Directory	Operations	18,574

Least used apps

App name ↑	Environment	Last run
Customer Service	Default Productivity	3 weeks ago
Home Energy Audit	Development	2 months ago
Survey	Staging	2 months ago
Field Service App	Cloud	4 months ago
System Monitoring	Cloud	6 months ago

Managed Environment Insights

Managed Environment Insights

4/17 environments require licensing attention
Manage and assign license to ensure users have uninterrupted access to their apps and flows.

View details

Managed Environment Insights

Managed Environment Insights

Admin digest

Microsoft Power Platform

Review the digest on Managed Environments for the week of September 12, 2022

See all analytics >

You have one or more Managed Environments that requires attention. Please review the Licensing section of this digest to learn more and resolve the issue.

Here's what happened in the 16 Managed Environments in the last month:

18

Active apps

202

Active flows

3,091

Active app users

Consider cleaning these up

These apps haven't run in a while. For organizational hygiene and security, consider contacting their owners to update or remove them.

App	Environment	Last run
Customer Service	Default Productivity	3 weeks ago
Home Energy Audit	Development	2 months ago
Survey	Staging	2 months ago
Field Service App	Cloud	4 months ago
System Monitoring	Cloud	6 months ago

Flow	Environment	Last run
Block_email_attach...	Staging	3 weeks ago
Planner tasks	Default Productivity	2 months ago
Send form	Cloud	2 months ago
Block calendar	Default Productivity	4 months ago
Save contracts	Enterprise	6 months ago

More Control

Power Platform admin center

Deselect Open Settings Resources Delete History Enable Managed Environments

Environments

Environment ↑	Type	Managed	State	Region
Operations	Production	No	Ready	United States
ITProduction	Production	No	Ready	United States
Default	Production	No	Ready	United States
Announcements	Microsoft Teams	No	Ready	United States
ITTest	Developer	No	Ready	United States
ITDev	Developer	No	Ready	United States
North America	Developer	No	Ready	United States
Default Productivity	Production	No	Ready	United States
Development	Production	No	Ready	United States
Staging	Production	No	Ready	United States
Cloud	Production	No	Ready	United States
Enterprise	Production	No	Ready	United States
Small Business	Production	No	Ready	United States

Enable Managed Environments

Increase visibility and control for Operations. [Learn more](#)

Once enabled, all end users will need Power Apps or Power Automate licenses to continue using apps and flows in this environment.

[View licensing details](#)

Limit sharing

Help reduce risk by limiting how widely canvas apps and flows can be shared.
[Learn more](#)

Don't set limits

Limit sharing to security groups

Exclude sharing with security groups

Limit total individuals who can be shared to

2

Solution checker

Automatically run security and reliability validations during solution import. [Learn more](#)



Run security and reliability validations and block solution from being imported if critical issues are found.

Maker welcome content

First-time Power Apps makers will see this content in the Studio. [Learn more](#)

Welcome to Contoso Power Platform

Empower your teams on Low Code

Before you get started, check out our company guidance and resources:

Learn more link

<https://contoso.com/powerapps/learnmore>

Sharing limits

More Control

Admin

Enable Managed Environments

Increase visibility and control for Operations. [Learn more](#)

Once enabled, all end users will need Power Apps or Power Automate licenses to continue using apps and flows in this environment.

[View licensing details](#)

Limit sharing

Help reduce risk by limiting how widely canvas apps and flows can be shared.

[Learn more](#)

- Don't set limits
- Limit sharing to security groups
- Exclude sharing with security groups

Limit total individuals who can be shared to

Solution checker

Automatically run security and reliability validations during solution import. [Learn more](#)

None Warn Block

Run security and reliability validations and block solution from being imported if critical issues are found.

Maker welcome content

First-time Power Apps makers will see this content in the Studio. [Learn more](#)

Welcome to Contoso Power Platform
Empower your teams on Low Code
Before you get started, check out our company guidance and resources:

[Learn more link](#)

<https://contoso.com/powerapps/learnmore>

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2 ^ ▼

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More Control

Maker

The screenshot shows the Microsoft Power Apps studio interface. At the top, there's a navigation bar with 'Power Apps' and a 'Home' icon. Below the navigation is a sidebar with links like 'Learn', 'Apps', 'Create', 'Dataverse', 'Flows', 'Chatbots', 'AI Builder', and 'Solutions'. The main content area has a heading 'Build business apps, fast' and a sub-section 'Start from' with five options: 'Blank app', 'Dataverse', 'SharePoint', 'Excel', and 'SQL'. Each option has a brief description and a small icon. Below this is a section 'Learning for every level' with four cards: 'Get started with Power Apps' (Beginner, 30 min), 'Author a basic formula to change properties in a...' (Beginner, 42 min), 'Work with external data in a Power Apps canvas app' (Intermediate, 35 min), and 'Manage and share apps in Power Apps' (Beginner, 42 min). At the bottom, there's a section 'Your apps' with a table showing five items: 'Sampleapp1' (Modified yesterday, Owner You, Type Canvas), 'TestApp' (Modified yesterday, Owner You, Type Canvas), 'Document events' (Modified 2 d ago, Owner Rin Yamaguchi, Type Canvas), 'Communications' (Modified 5 d ago, Owner You, Type Canvas), and 'Sampleapp2' (Modified 2 wk ago, Owner Rin Yamaguchi, Type Canvas). A link 'See more in Build →' is at the bottom of the table.

Name	Modified	Owner	Type
Sampleapp1	Yesterday	You	Canvas
TestApp	Yesterday	You	Canvas
Document events	2 d ago	Rin Yamaguchi	Canvas
Communications	5 d ago	You	Canvas
Sampleapp2	2 wk ago	Rin Yamaguchi	Canvas

More Control

Admin

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[View licensing details](#)

Limit sharing

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[Learn more](#)

Don't set limits

Limit sharing to security groups

Exclude sharing with security groups

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[Learn more link](#)

<https://contoso.com/powerapps/learnmore>

Maker

Environment
Production

In this environment (preview)

145

Power Apps

- Home
- Learn
- Apps
- Create
- Dataverse
- Flows
- Chatbots
- AI Builder
- Solutions

Build business apps, fast

Create apps that connect to your data and work across web and mobile. [Learn about Power Apps](#)

Start from



Blank app

Create an app from scratch and then add your data



Dataverse

Start from a Dataverse table to create a three-screen app



SharePoint

Start from a SharePoint list to create a three-screen app



Excel

Start from an Excel file to create a three-screen app

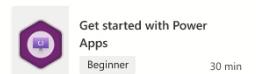


SQL

Start from a SQL data source to create a three-screen app

[More create options →](#)

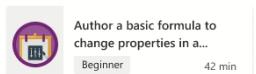
Learning for every level



Get started with Power Apps

Beginner

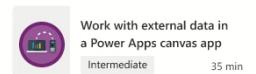
30 min



Author a basic formula to change properties in a...

Beginner

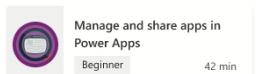
42 min



Work with external data in a Power Apps canvas app

Intermediate

35 min



Manage and share apps in Power Apps

Beginner

42 min

Your apps

	Name	Modified	Owner	Type
	Sampleapp1	Yesterday	You	Canvas
	TestApp	Yesterday	You	Canvas
	Document events	2 d ago	Rin Yamaguchi	Canvas
	Communications	5 d ago	You	Canvas
	Sampleapp2	2 wk ago	Rin Yamaguchi	Canvas

[See more in Build →](#)

Less Effort

The screenshot shows the Power Apps Pipeline setup interface. On the left, a sidebar lists 'Power Apps', 'Back to solutions', 'Contoso Solution' (Overview, Objects, History), and 'Pipelines'. The main area is titled 'Pipelines' and shows a 'Contoso Standard Pipeline'. It has three stages: 'Development' (Securely test and verify in isolation. After you've got everything working properly, it's time to deploy. Learn more. Solution version 1.0.0.2), 'Deploy to Test' (For quality assurance testing. Go to this environment), and 'Deploy to Production' (Deploys to Production environment. Go to this environment). Each stage has a 'Deploy here' button.



Admins

Setup Pipeline in < 2 min



Citizen devs

Initiate deployment



Developers

Run pipelines via CLI

Easy activation

Less Effort

The screenshot shows the Power Platform admin center interface. At the top, there's a purple header bar with the title "Easy activation" on the left and a large green "Less Effort" title on the right. Below the header is a dark purple dashboard area featuring a "Welcome, Mona" message and a "Service health" section indicating "Some services are disrupted". On the left side, there's a navigation menu with items like Home, Environments, Analytics, Billing, Settings, Help + support, Data integration, Data (preview), Policies, and Admin centers. The main content area contains several cards: one about "Managed Environment Insights" (with a shield icon) and another about "Documentation" (listing links to the admin center, licensing, and community). A "Message center" card shows "16 unread messages" with a list of notifications. The overall design is clean and modern, using a purple color scheme.

Power Platform admin center

Home

Environments

Analytics

Billing

Settings

Help + support

Data integration

Data (preview)

Policies

Admin centers

Welcome, Mona

The Power Platform admin center is the place to manage users, environments, policies, and more.

+ Add cards Share feedback

Managed Environment Insights

Gain additional insights on app and flow usage

Activate Managed Environments

Documentation

Power Platform admin center

Licensing overview for Microsoft Power Platform

Power Apps and Power Automate licensing FAQs

Microsoft Power Platform Center of Excellence Kit

Microsoft Power Platform Adoption

Power Platform Community

Microsoft Dynamics Community

Service health

Some services are disrupted

1 incident

3 advisories

Message center

16 unread messages

Deploying Teams at Scale (preview)

SharePoint: Update to Create Sites from the SharePoint App Bar

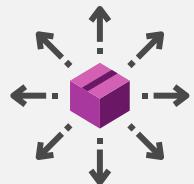
Folders and Rules Support for Microsoft 365 Groups in Outlook

Feature Update: Service health admin notifications in Outlook

What is a solution?



Solutions are **authored**, **packaged**, and **maintained** by a **publisher** allowing customizations to components that extend your Power Platform organization



Solutions allow **distribution** of business functionality across Dynamics 365 Customer Engagement environments

What goes into a solution?

Schema	User Interface	Analytics	Process / Code	Templates	Security	System Settings
<ul style="list-style-type: none">• Entities• Attributes• Relationships• Global Options Sets	<ul style="list-style-type: none">• Application Ribbon• SiteMap• Forms• Table Ribbons• Web Resources	<ul style="list-style-type: none">• Dashboards• Reports• Visualizations	<ul style="list-style-type: none">• Processes<ul style="list-style-type: none">• Dialogs & Workflows• Plugins<ul style="list-style-type: none">• Assemblies• Processing Steps	<ul style="list-style-type: none">• Mail merge• Email	<ul style="list-style-type: none">• Security Roles• Column Level Security Profiles	<ul style="list-style-type: none">• Formatting Options• Other System Settings



What are unmanaged and managed solutions?



Unmanaged Solution

Collection of references to components
No restrictions on what can be added, removed, or modified
Recommended only during development of the solution

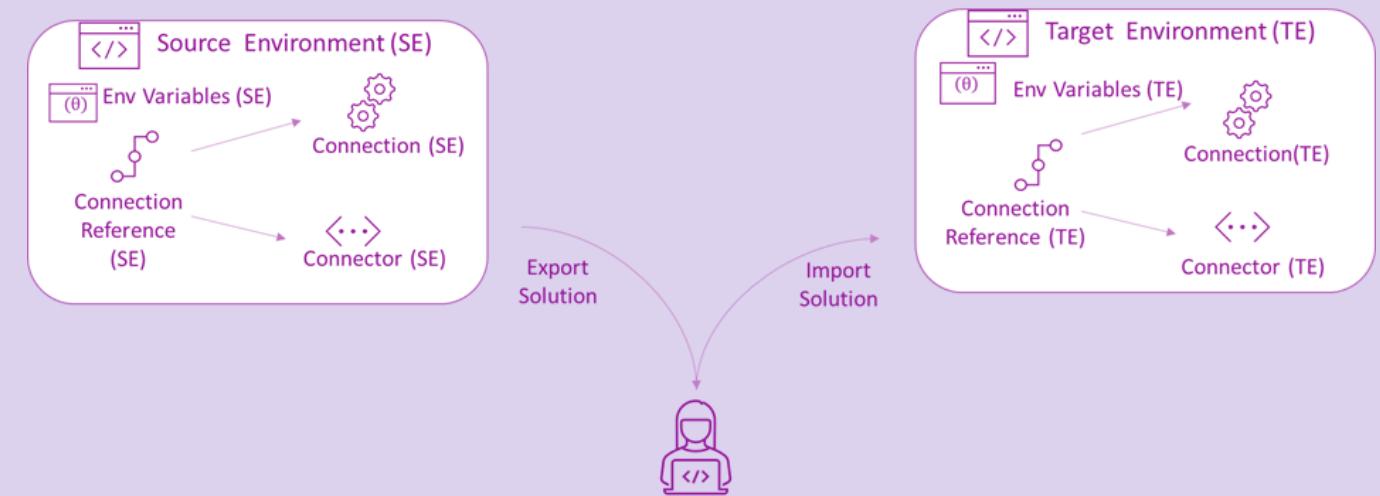


Managed Solution

Sealed “binary”
Components can’t be added or removed
Cannot be exported
Recommended when a solution is not actively being customized*

Environment variables and connection references

- Environment variables allow you to transport application configuration data with solutions and optionally manipulate the values in your Application Lifecycle Management (ALM) pipeline.
- Connection references ensure that connections can participate in ALM by removing hard-coded identifiers within components and allowing new connections to be associated as you migrate solutions across environments.



Manage Canvas Apps Data Sources with Environment Variables

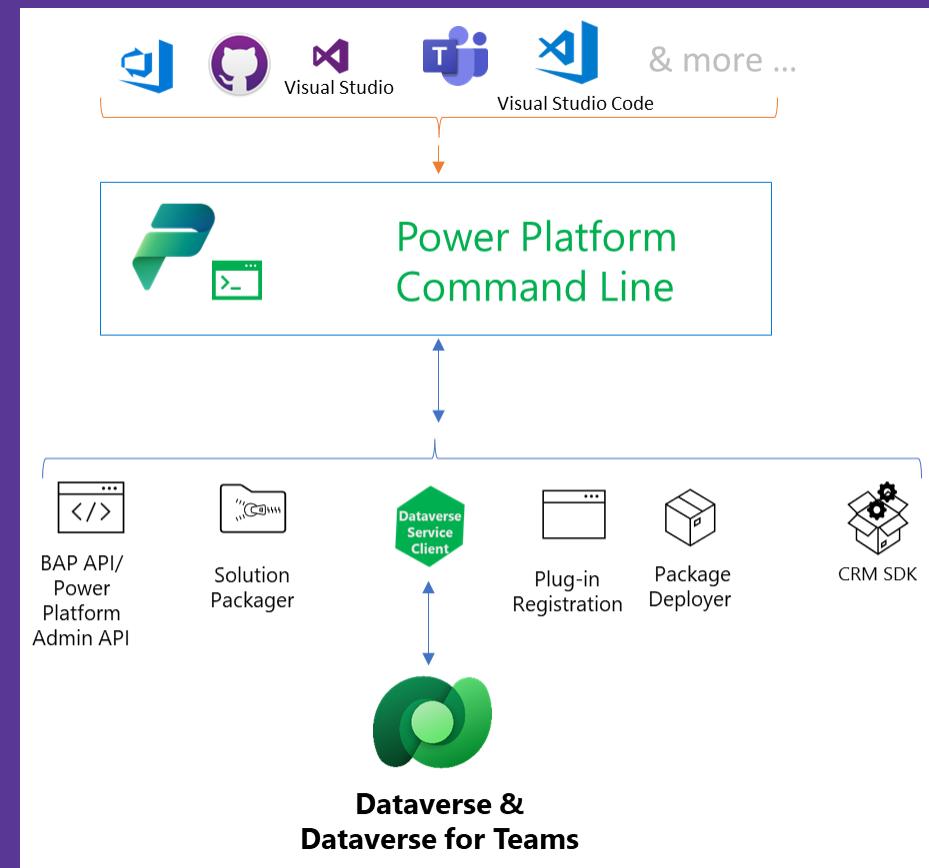
- **Environment variables are automatically created to store data source parameters when connecting to data within canvas apps by enabling the setting to “Automatically create environment variables when adding data sources” in the canvas app designer**
- **Reuse the same environment variables across canvas apps, flows, and other components.**
- **Update the Environment variable value after importing Solution to the new Environment, everything will be connected to the new data source, no need to modify or turn on anything.**

Connection reference in a solution

- **Canvas apps and flows handle connections differently. Flows use connection references for all connectors, whereas canvas apps only use them for implicitly shared (non-OAuth) connections, such as SQL Server Authentication.**
- **You can import your connection reference into a target environment with no further configuration needed after the import completes. To change a specific connection associated with a canvas app or flow, you edit the connection reference component within the solution.**

Power Platform CLI : Simplified to access many things

- **Single command line focused on developer use cases**
 - Multi-platform works on Windows, Linux, and Mac
- **Integration focal point for the developer experiences**
 - Visual Studio Code
 - GitHub Codespaces
 - GitHub Actions
 - Azure DevOps
- **High fidelity developer experience for code first components**
 - Power Pages
 - Power Apps Component Framework
 - Custom connectors
 - Solutions
 - Packages
 - Application installs
 - And many more



Why Power Platform CLI?

For a developer to get started faster.....

- We offered many options but no single path to success
- Tooling was fragmented, combination of PowerShell modules and D365 specific tools



So many ways to accomplish things, yet it is hard to get started

Something that works with them for the things they really need to get started

Power Platform CLI : interaction details

- Targeted nouns for the various components
- Not every component qualifies for a noun
- Not every noun makes it into the CI/CD functions or other integrations



```
kartikka@OCAMPA-1 ~ pwsh no config pac help
Microsoft PowerPlatform CLI
Version: 1.19.3+g34b8262

Usage: pac [admin] [application] [auth] [canvas] [connector] [data] [help] [org] [package] [paportal] [pcf] [pipeline] [plugin] [solution] [telemetry] [tool]

admin          Work with your Power Platform Admin Account
application   Commands for listing and installing available Dataverse applications from AppSource
auth          Manage how you authenticate to various services
canvas         Operating with Power Apps .msapp files
connector     (Preview) Commands for working with Power Platform Connectors
data          Import and export data from Dataverse.
help          Show help for the Microsoft Power Platform CLI
org           Work with your Dataverse Organization
package       Commands for working with Dataverse package projects
paportal      Commands for working with Power Apps portal website
pcf           Commands for working with Power Apps component framework projects
pipeline      Work with Pipelines
plugin        Commands for working with Dataverse plug-in class library
solution      Commands for working with Dataverse solution projects
telemetry    Manage telemetry settings
tool          Power Platform tools that can be installed and launched
```

Lab 1 - how to get started

- Launch the browser on your laptops
- Go to the following link: <https://aka.ms/BuildDeployScale>
- Type in your information with the email and with the following activation code



Activation Code
ACTIVATE35768

- Do not click on links, just copy and paste

Lab 01 – Setup and Configure

45 mins

<https://aka.ms/MPPC23-Power-Apps/lab1>

Lab 01 – Setup and Configure

In this lab you will learn the following:

- Log on to your account
- Create a GitHub account
- Create a fork of the repository for this workshop
- Creating a GitHub Codespace
- Connect to the Power Platform using the Power Platform Command-Line Interface (CLI)
- Create developer environments
- Switch between environments with the Power Platform CLI
- Enable Managed Environments on all environments
- Deploy the pipelines solution to your Prod environment
- Enable Dataverse settings

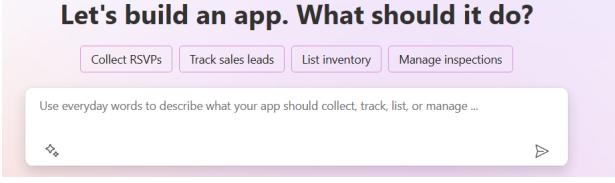
<https://aka.ms/MPPC23-Power-Apps/lab1>

An AI assisted authoring revolution

Let's build an app. What should it do?

Collect RSVPs Track sales leads List inventory Manage inspections

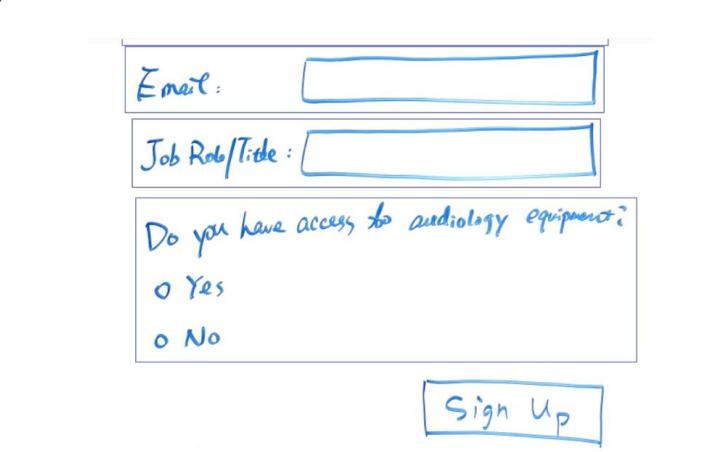
Use everyday words to describe what your app should collect, track, list, or manage ...



»

Natural Language to App

Describe an app or workflow in natural language, and a working solution is built automatically



Email :

Job Role/Title :

Do you have access to audiology equipment?

Yes
 No

Sign Up

Design to App

Upload a design or sketch of an app layout and the working app is built automatically



What do you want to do?
when Inspector name is "Mary", make this red →

Here are some ideas

if Inspections where maker_name = "Mary" is empty, show Red

Show less

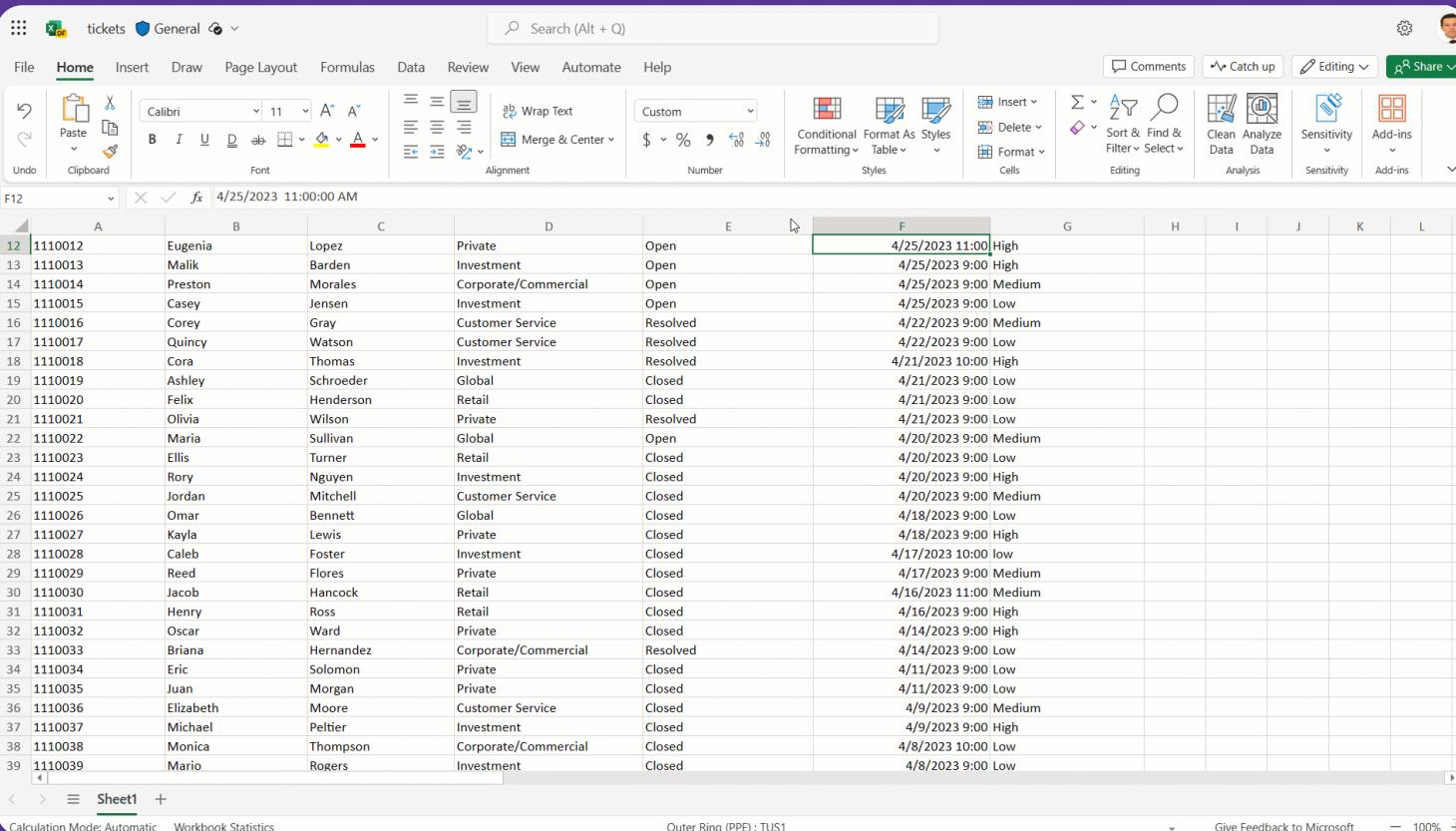
Apply to: Color

Natural Language to Code

Explain the outcome you want, how to filter sort or search for example, and Copilot writes the code for you

Power Apps Copilot

Create apps and the data behind them just by describing in natural language, or pointing to an existing spreadsheet



The screenshot shows a Microsoft Excel spreadsheet titled "tickets" in the ribbon. The data is organized into columns A through L, representing various fields such as ID, Name, Last Name, Status, Type, and Date. The "Status" column contains values like "Open", "Resolved", and "Closed". The "Type" column includes categories like "Private", "Investment", "Corporate/Commercial", "Customer Service", "Retail", and "Global". The "Date" column shows dates ranging from April 8, 2023, to April 25, 2023, along with time and priority levels (Low, Medium, High). The ribbon also displays tabs for Home, Insert, Page Layout, Formulas, Data, Review, View, Automate, and Help.

A	B	C	D	E	F	G	H	I	J	K	L
12 1110012	Eugenia	Lopez	Private	Open	4/25/2023 11:00	High					
13 1110013	Malik	Barden	Investment	Open	4/25/2023 9:00	High					
14 1110014	Preston	Morales	Corporate/Commercial	Open	4/25/2023 9:00	Medium					
15 1110015	Casey	Jensen	Investment	Open	4/25/2023 9:00	Low					
16 1110016	Corey	Gray	Customer Service	Resolved	4/22/2023 9:00	Medium					
17 1110017	Quincy	Watson	Customer Service	Resolved	4/22/2023 9:00	Low					
18 1110018	Cora	Thomas	Investment	Resolved	4/21/2023 10:00	High					
19 1110019	Ashley	Schroeder	Global	Closed	4/21/2023 9:00	Low					
20 1110020	Felix	Henderson	Retail	Closed	4/21/2023 9:00	Low					
21 1110021	Olivia	Wilson	Private	Resolved	4/21/2023 9:00	Low					
22 1110022	Maria	Sullivan	Global	Open	4/20/2023 9:00	Medium					
23 1110023	Ellis	Turner	Retail	Closed	4/20/2023 9:00	Low					
24 1110024	Rory	Nguyen	Investment	Closed	4/20/2023 9:00	High					
25 1110025	Jordan	Mitchell	Customer Service	Closed	4/20/2023 9:00	Medium					
26 1110026	Omar	Bennett	Global	Closed	4/18/2023 9:00	Low					
27 1110027	Kayla	Lewis	Private	Closed	4/18/2023 9:00	High					
28 1110028	Caleb	Foster	Investment	Closed	4/17/2023 10:00	Low					
29 1110029	Reed	Flores	Private	Closed	4/17/2023 9:00	Medium					
30 1110030	Jacob	Hancock	Retail	Closed	4/16/2023 11:00	Medium					
31 1110031	Henry	Ross	Retail	Closed	4/16/2023 9:00	High					
32 1110032	Oscar	Ward	Private	Closed	4/14/2023 9:00	High					
33 1110033	Briana	Hernandez	Corporate/Commercial	Resolved	4/14/2023 9:00	Low					
34 1110034	Eric	Solomon	Private	Closed	4/11/2023 9:00	Low					
35 1110035	Juan	Morgan	Private	Closed	4/11/2023 9:00	Low					
36 1110036	Elizabeth	Moore	Customer Service	Closed	4/9/2023 9:00	Medium					
37 1110037	Michael	Peltier	Investment	Closed	4/9/2023 9:00	High					
38 1110038	Monica	Thompson	Corporate/Commercial	Closed	4/8/2023 10:00	Low					
39 1110039	Mario	Rogers	Investment	Closed	4/8/2023 9:00	Low					

Create new apps with Copilot

- Copilot built on next-generation AI can converse with you to create the most appropriate table to store your apps data
- AI also provides sample data where it can, to let you test out your apps immediately
- Modern controls and responsive layouts deliver an exceptional app

The screenshot shows the Microsoft Power Apps 'Create an app' interface. A table titled 'Site Inspections' is displayed with the following data:

Inspection date	Inspector name	Inspector type	Location
3/1/2023 2:59 PM	Allan Munger	Daily	New York City, New York
3/1/2023 1:15 PM	Aaron Buxton	Daily	Los Angeles, California
3/1/2023 9:00 AM	Carole Poland	Weekly	Chicago, Illinois
2/27/2023 5:01 PM	Serena Davis	Weekly	Houston, Texas
2/27/2023 3:07 PM	Chris Naidoo	Weekly	Philadelphia, Pennsylvania
2/27/2023 12:42 PM	Daisy Phillips	Daily	Phoenix, Arizona
2/26/2023 4:48 PM	Joshua Vanburen	Weekly	San Antonio, Texas
2/26/2023 2:31 PM	Mona Kane	Weekly	San Diego, California
2/25/2023 5:26 PM	Daisy Phillips	Weekly	Austin, Texas
2/25/2023 3:01 PM	Serena Davis	Daily	Jacksonville, Florida

The Copilot sidebar on the right includes the following suggestions:

- Build a site inspection details app
- Add a column called Location and populate it with sample data
- March 16, 2023, 1:00pm
Sure, here's the Location column with sample data
- Add a new screen Change all button colors
- Suggest ideas for the app content
- Show more next steps
- Describe what you want to automate, ask a question or type / for suggestions 0/500

The screenshot shows the Microsoft Power Apps Canvas interface. On the left, a 'Tree view' pane shows the structure of the app with 'Screens' and 'Components'. The main area displays a 'Contoso' screen for 'Joshua Vanburen' with the following details:

Inspector name *	Joshua Vanburen
Description *	Gate is not functioning properly
Inspection date	2/26/2023 4:48 PM
Status	Pass
Meeting time	Weekly
Follow up items	Repair gate
Location	Front entry
Contact information	(555) 281 - 4813

Excel to table/app (powered by Copilot)

- Importing from Excel gets much better as Copilot helps create the best data types possible, name the table and give it a description

The screenshot illustrates the process of importing data from an Excel file into Power Apps. The Excel file, titled "Bike Rental", contains the following data:

	ServiceStatus	DailyRate	Make	Model
1	In Service	10.00	Trek	FX3
2	Not In Service	7.50	Specialized	Sirrus
3	In Service	8.50	Giant	Sedona
4	Not In Service	6.50	Schwinn	Crosstown
5	In Service	9.00	Giant	Roam

The Power Apps interface shows the imported data table with columns ServiceStatus, DailyRate, Make, and Model, and rows of bike rental details. The "Use first row as column headers" toggle is turned on. The "Create app" button is visible at the bottom right.

Natural language to formulas with Ideas

- Use natural language to write formulas
- Transform examples to formulas

The image displays two side-by-side screenshots of the Microsoft Power Apps studio interface, specifically the 'Inspections' data view.

Screenshot 1 (Top): The title bar says 'Power Apps | Inspection'. The 'Text' tool is selected, and the formula bar shows '= fxv ThisItem.Inspector'. The 'Data' pane shows a connection to 'Inspections' in 'Microsoft Dataverse - Current environment...'. The main area displays a list of inspections:

ID	Name	Notes
0002	Inspection 2 Los Angeles, CA Mary	
0002	Inspection 4 Chicago, IL John	
	Inspection 1 New York, NY John	
	Inspection 2	
	Inspector	

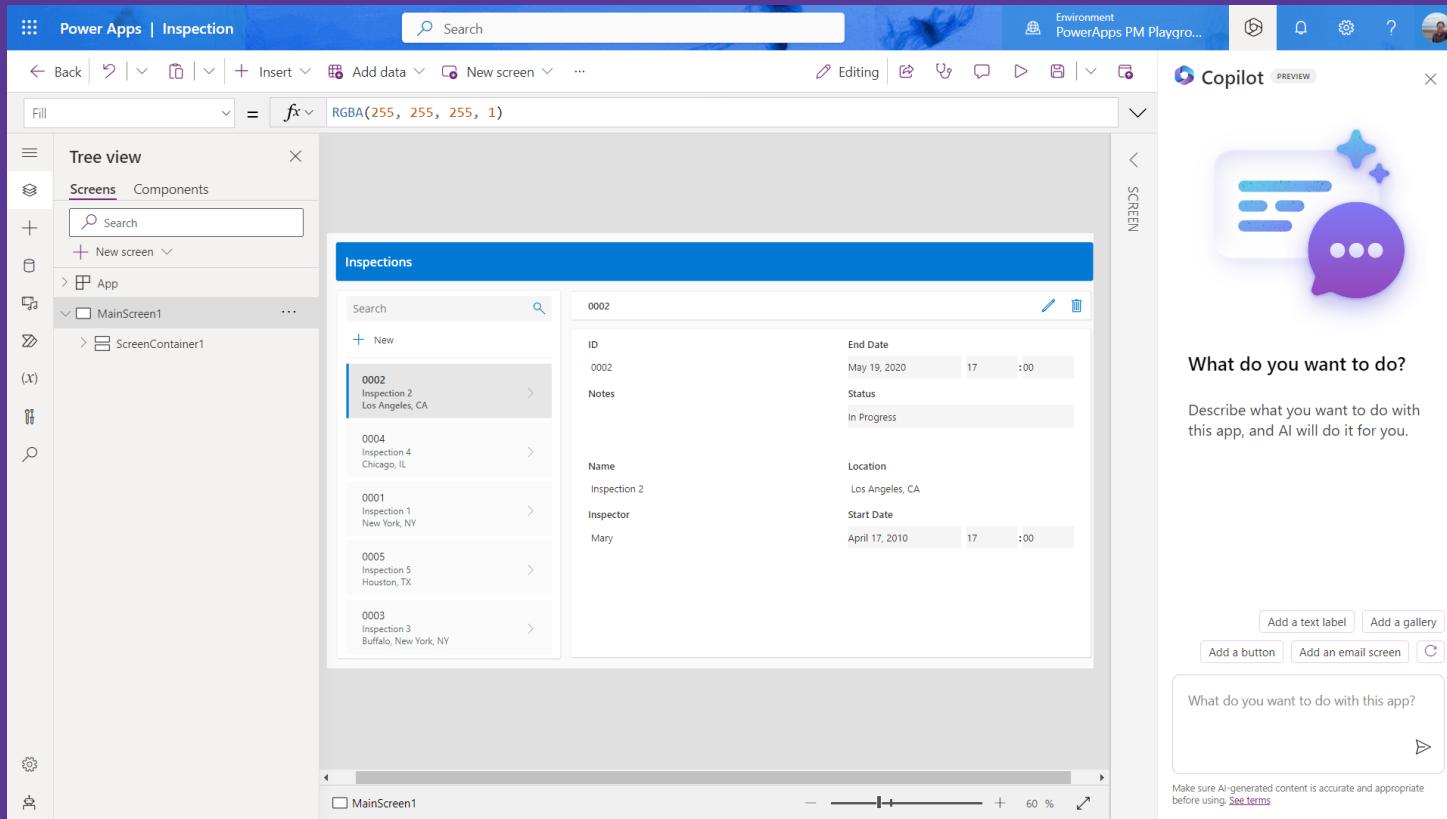
Screenshot 2 (Bottom): The title bar says 'Power Apps | Inspection'. The 'Text' tool is selected, and the formula bar shows '= fxv ThisItem.Location'. The 'Data' pane shows a connection to 'Inspections'. The main area displays a list of inspections:

ID	Name	Notes
0002	Inspection 2 Los Angeles, CA Mary	
0002	Inspection 4 Chicago, IL John	
	Inspection 1 New York, NY John	
	Inspection 5 Houston, TX Mary	
	Inspection 3 Buffalo, New York, NY Ada	

Ideas Pane: Both screenshots show the 'Ideas' pane on the right. In the top screenshot, the user has typed 'when Inspector name is "Mary", make this red' and a suggestion is shown: 'if Inspections where maker_name = "Mary" is empty, show Red'. In the bottom screenshot, the user has typed 'Provide a formatting example' and a suggestion is shown: 'Left(ThisItem.Location, 1) & Right(ThisItem.Location, Len(ThisItem.Location) - (Find(",", ThisItem.Location) + 2))'.

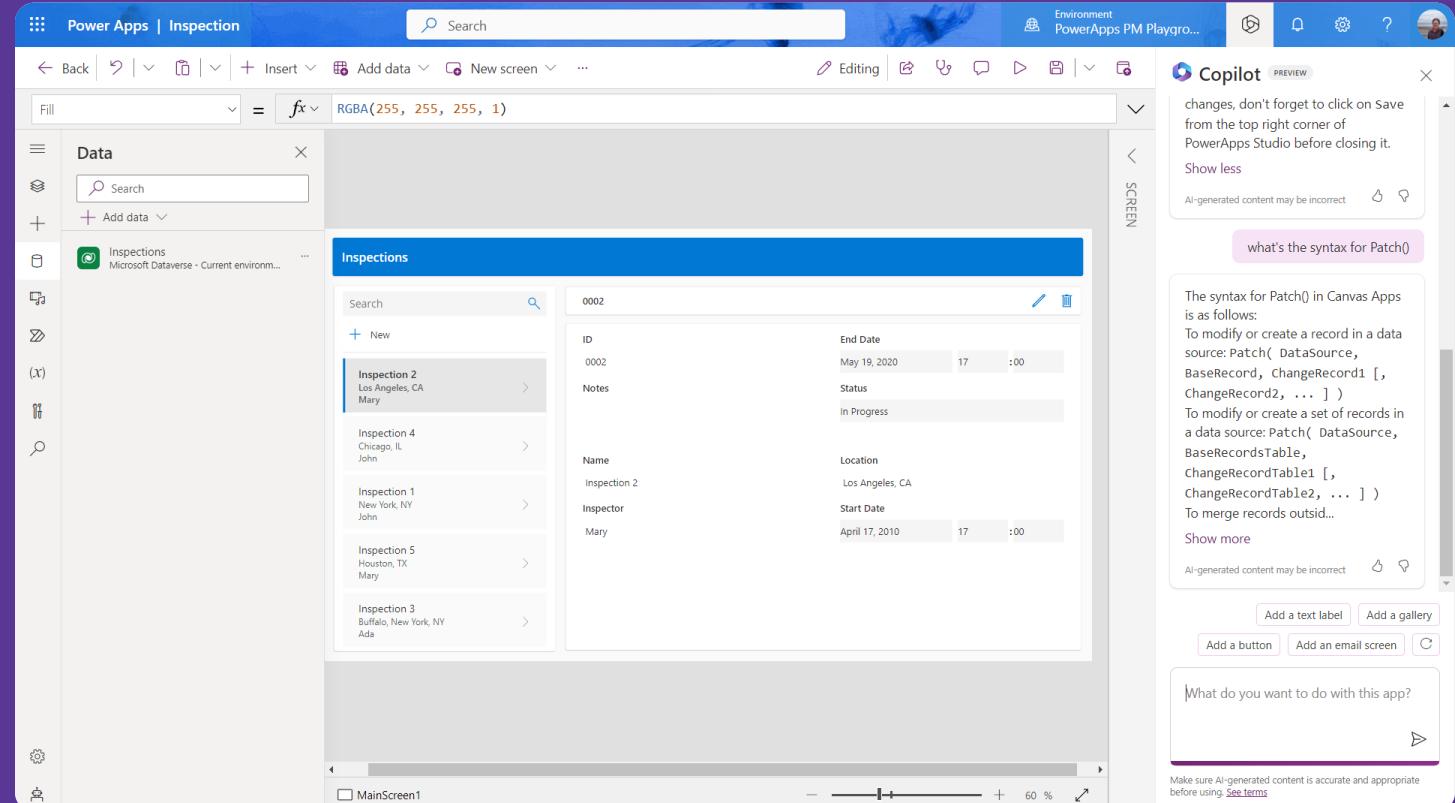
Copilot Actions

- Copilot can keep working with you to edit an app.
- Ask Copilot to add / update controls, tune styling, or bulk edit controls.
- Ask Copilot to add screens



Copilot – your knowledgeable AI assistant

- Explain terms and jargon
- How do I?
- What's the syntax for Patch()?
- What does this formula mean?



As your app matures, consider performance

1. Go to **Leverage Power Fx Across the Power Platform and Beyond** on Thursday, Oct. 5th 2020 2:15 pm – 3:15 pm.
2. Consider reading the following documentation:
 - 1.[Understand canvas app execution phases and data flow](#)
 - 2.[Performance tips & best practices](#).
3. Oversimplified guidance:
 1. **Avoid using OnStart.** If you must use OnStart, avoid performing 'blocking actions' which require OnStart to finish before Power Apps presents the user the app and minimize the Power Fx you write in OnStart.
 2. **Don't set variables in OnStart.** Set them using App.Formulas. This reduces end-user wait times to open an app and allows Power Apps to delay calculating variable values until required.
 3. **Don't copy-paste Power Fx.** Look out for announcements that simplify recycling Power Fx!.
 4. **Avoid making Power Fx rules too long.** Leverage Power Fx across the Power Platform will highlight options to streamline and recycle Power Fx.
 5. **Minimize nesting of canvas galleries.** When many galleries connect to data sources with many records, nest galleries compounds data retrieval requests to occurring at once.



Lab 02 – Build an App with Excel and Copilot

45 mins

<https://aka.ms/MPPC23-Power-Apps/lab2>

Lab 02 – Building an Application using AI

In this lab you will learn the following:

- Use an Excel spreadsheet and create an Application
- Edit the application
- Formatting the Application
- Using Power Fx functions
- Create an App with Copilot

<https://aka.ms/MPPC23-Power-Apps/lab2>



Tuesday



Theater Session

**Empower your business with Personal
Developer Environments**

Tuesday, October 3
12:00 p.m. – 12:15 p.m.



A circular portrait of Hazim SharafelDin, a man with dark hair and a light beard, wearing a dark suit jacket over a blue shirt.

Hazim SharafelDin
PRINCIPAL PROGRAM MANAGER



A circular portrait of Ken Auguillard, a man with short dark hair and a beard, wearing a light blue button-down shirt.

Ken Auguillard
PRINCIPAL PROGRAM MANAGER

Enhance your environment strategy with Personal Developer Environments and Environment Routing. Learn about the latest features which help to Empower your business while directing your makers away from the Default Environment!

Microsoft Power Platform CONFERENCE

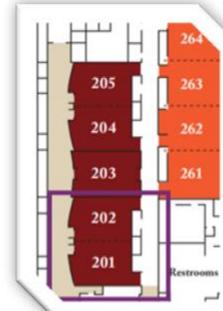
Governance and Administration Roundtable Discussion

October 3rd 12:30 PM - 1:30PM | MGM Grand Conference Center
Room: 201-202

Discuss Power Platform Governance & Administration with Microsoft Engineering Team

During our round table session, we're going to dive into the exciting features that administrators can use to have more control while making it easier to handle different environments. This means putting in place rules and best practices to make sure Power Platform resources are used wisely, data stays secure, and everyone follows the organization's guidelines.

Join this round table to share your experience and challenges with Microsoft and hear about best practices and guidance to super charge your skills.





Build and deploy as a team with coauthoring and pipelines

Tuesday, October 3

1:45 p.m. – 2:10 p.m.



Clay Wesener
Partner Group Product Manager



Emma Cooper
Principal PM Manager



Casey Burke
Principal Product Manager

Accelerate your time to market through improved collaboration and App Lifecycle Management (ALM). Learn about new real-time app coauthoring and the newest in pipelines and how they can help fusion teams succeed.



Your business at (hyper) scale with Power Apps and Dataverse

Tuesday, October 3
1:45 p.m. – 2:10 p.m.



Oleg Ovanesyan
Principal Program Manager

Learn how to manage your large-scale data sources with ease using Dataverse features such as elastic tables, data integration, and long-term retention.



Learn to Govern and Secure your Power Pages Websites with Ease

Tuesday, October 3
1:45 p.m. – 2:10 p.m.



Vamsee Dilli
Principal Product Manager
Power Pages



Dipti Jaiswal
Principal Group Engineering Manager

Learn how to govern and secure your websites at-scale utilizing the admin and governance capabilities of Power Pages. You'll also see just how seamlessly this fits into Power Platform governance!

Theater Session

Pro developers with Low code ? Really ?

Tuesday, October 3
15:00 p.m. – 15:15 p.m.



Marcel Ferreira
SENIOR PRODUCT MANAGER



Kartik Kanakasabesan
PRINCIPAL PM MANAGER

In this session, you can learn the various capabilities you have at your disposal as a pro developer to work with low code. Learn about the kind of code components you can create and how you can deploy them.



Wednesday





Power Apps Roadmap: Innovation in the Age of AI

Wednesday, October 4

9:15 a.m. – 10:15 a.m.



Ryan Cunningham
Vice President, Microsoft Power Apps

What's next for Power Platform, and how is Copilot changing that roadmap? We'll take a look beyond the AI hype cycle at the ways GPT is more fundamentally reshaping how we think about data, collaboration, and innovation as we build for the next generation of business applications – from getting started on day 1 to governance at scale.



Building and Deploying Intelligent and Modern Cloud Multi-Device Applications with Power Platform

Wednesday, October 4
11:15 a.m. – 12:15 p.m.



Leon Welicki
Chief Product Officer
Power Apps



Niraj Yadav
Principal Engg. Mgr.
Power Apps



Marcel Ferreira
Senior Product Mgr.
Power Apps

When you combine Power Platform, Azure, Office, and Copilot there is no limit to what you and your teams can build! If you have not yet witnessed the power of all these great technologies working together, join this demo intensive session where we will build and deploy a complex modern and intelligent modern multi-device app using all our latest innovations in less than 60 minutes!



Learn how Microsoft is running on Power Platform at scale

Wednesday, October 4
9:15 a.m. – 10:15 a.m.



Manas Maheshwari
Principal Group Program Manager



Ed Lehman
Principal Program Manager

Learn how Business Application Platform team is digitizing at a great speed by enabling 200+ citizen developers to work on 80+ apps and pages at the same time on the single environment. This enables more than 2.5M customers and users to be successful. This has helped Business Application Group to completely digitize. Many customers are following the Focus center methodology and getting successful in establishing Power Platform at scale.

Theater Session

**How to use Power Platform to create a solution
for Short Links**

Wednesday, October 4
11:00 p.m. – 11:15 p.m.



Rui Santos

Senior Program Manager

Is common the need to have friendly URLs to Power Apps, you could develop your own solution or even buy the service from a 3rd party, but do you know that is possible to create a solution only with Power Platform? Join this session and hear from the Power CAT Rui Santos how to bring your own domain to create friendly url for your Apps.

Theater Session

Overview of the CoE Starter Kit and how it complements Managed Environments

Wednesday, October 4
14:00 p.m. – 14:15 p.m.



Marc Schweigert

Principal Group Program Manager - Power
CAT Tools

Center of Excellence (CoE) is term often used to refer to a team that provides leadership, patterns & practices, governance, administration, support, or training for a focus area. The Microsoft Power Platform CoE Starter Kit is a collection of components and tools designed to help you get started with developing a strategy for adopting and supporting Microsoft Power Platform. Managed Environments is a suite of capabilities that allows admins to manage Power Platform at scale with more control, less effort, and more insights. Managed Environment capabilities can be used standalone or alongside capabilities of the CoE Starter Kit to administer and govern your Power Platform adoption. Come learn how the CoE Starter Kit and how it will continue to evolve to compliment Managed environments through experimentation and innovation with an open-source low code model influenced by customer feedback.



Admin Scale: Operating the Power Platform across the Enterprise

Wednesday, October 4
2:00 p.m. – 3:00 p.m.



Ryan Jones
Partner PM Director



Hongfei Guo
Partner Group Eng Manager



David Blyth
Partner Eng Director

Every organization has 10 apps with thousands of users, and thousands of apps with small numbers of users - and as admins, we're responsible for the reliable and secure operation of all of them! In this session, we'll discuss how to use capabilities including Managed Environments, the Center of Excellence Starter Kit, and more to scalably empower your organization to leverage the Power Platform.



Thursday





Protect and Manage Your Enterprise Data Effectively at Scale for Low Code Development

Thursday, October 5

1:00 p.m. – 2:00 p.m.



Mihaela Blendea
Principal Product Manager



Jocelyn Panchal
Product Manager

Security of data and assets is key for any enterprise grade solutions. Join this session to learn how to operate your Power Platform and Dynamics 365 deployments securely and about what governance and compliance options organizations of all sizes have available to easily and responsibly scale their Dataverse business data footprint. We will cover the latest platform innovations to implement a zero-trust approach and keep your data secured using scalable controls for authentication and authorization, data exfiltration protection, network isolation, encryption and Azure integrations with Purview and Sentinel.



Accelerating Application development for Code-first developers

Thursday, October 5
2:15 p.m. – 3:15 p.m.



Kartik Kanakasabesan
Principal PM Manager



Casey Burke
Principal Product Manager

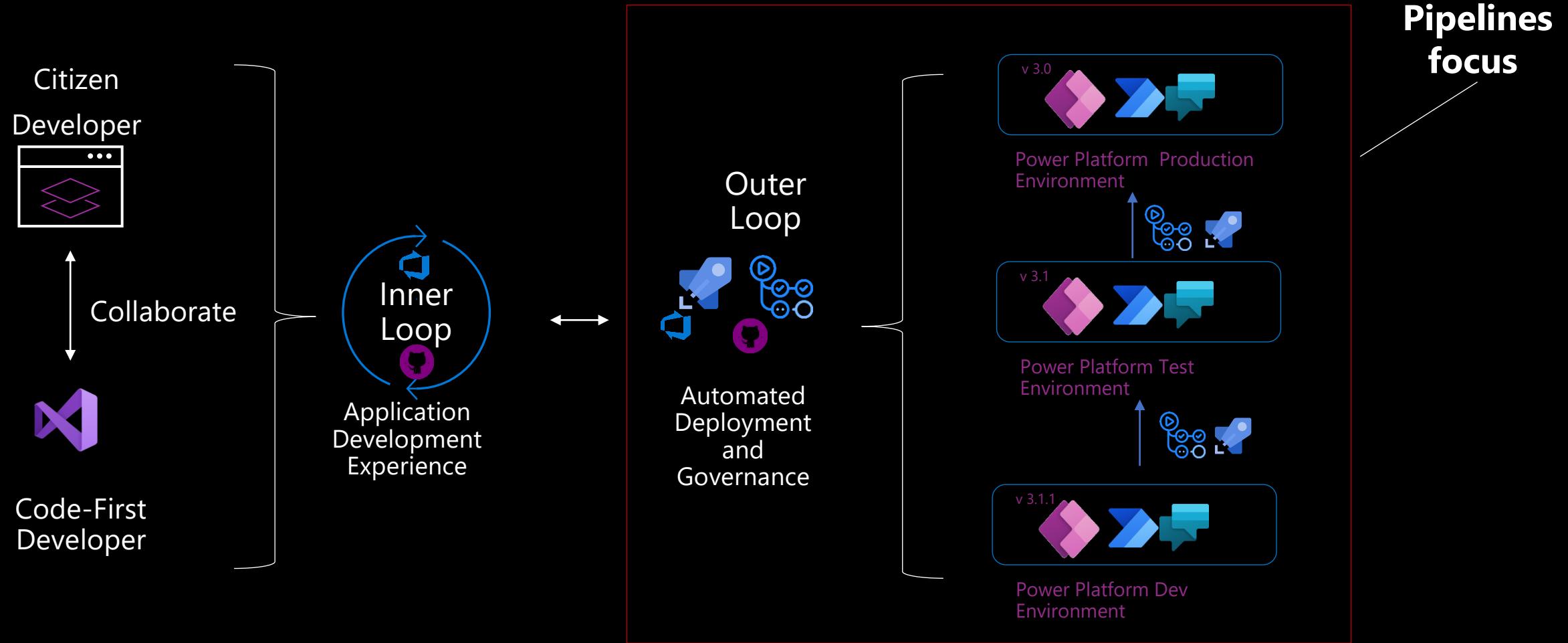


Angela Kim
Senior Product Manager

This session we will show case all the capabilities that Pro-developers have to accelerate their application development initiatives and deploy such applications at scale. We are going to show you how easy it is to build and reuse code first components in Power apps with Copilot and deploy them at scale.

Deploy

Inner and outer loop experiences



Pipelines simplify ALM for all makers

Announced at MPPC 2022



A screenshot of the Microsoft Power Apps portal. The top navigation bar shows 'Power Apps' and 'Deployment Pipeline Configuration'. The main area is titled 'Sandbox' and shows the 'Contoso Standard Pipeline'. It includes sections for 'General', 'Deployment stages', and 'Run history'. Below this is a table for 'United Development Environments' listing three environments: 'culture Dev', 'Dev Env1 - 26e915a1-05d3-e4ef-5a1e58555', and 'Dev Env2 - 9ef052a4-8d0b-e4e1-7166-05344f'. At the bottom, there's a section for 'Deployment Stages (Deployment Pipeline)' with a table showing a single stage named 'Test'.

A screenshot of the Microsoft Power Apps portal showing the 'Pipelines' section. It displays three stages: 'Development', 'Deploy to Test', and 'Deploy to Production'. Each stage has a summary card with deployment details like 'Last deployed' and 'Deploy here' buttons. The 'Development' stage also has a 'Details' tab.

A screenshot of a Windows PowerShell window with a dark theme. It shows a series of command-line entries related to pipeline deployment. The commands include navigating to a local folder, running a PowerShell script, and executing pipeline-related cmdlets like 'New-PnCMgmtPipeline', 'Set-PnCMgmtPipeline', and 'Get-PnCMgmtPipeline'. The output shows various pipeline configurations and deployment environments.

Setup Pipeline in < 2 min

Admins



Citizen devs

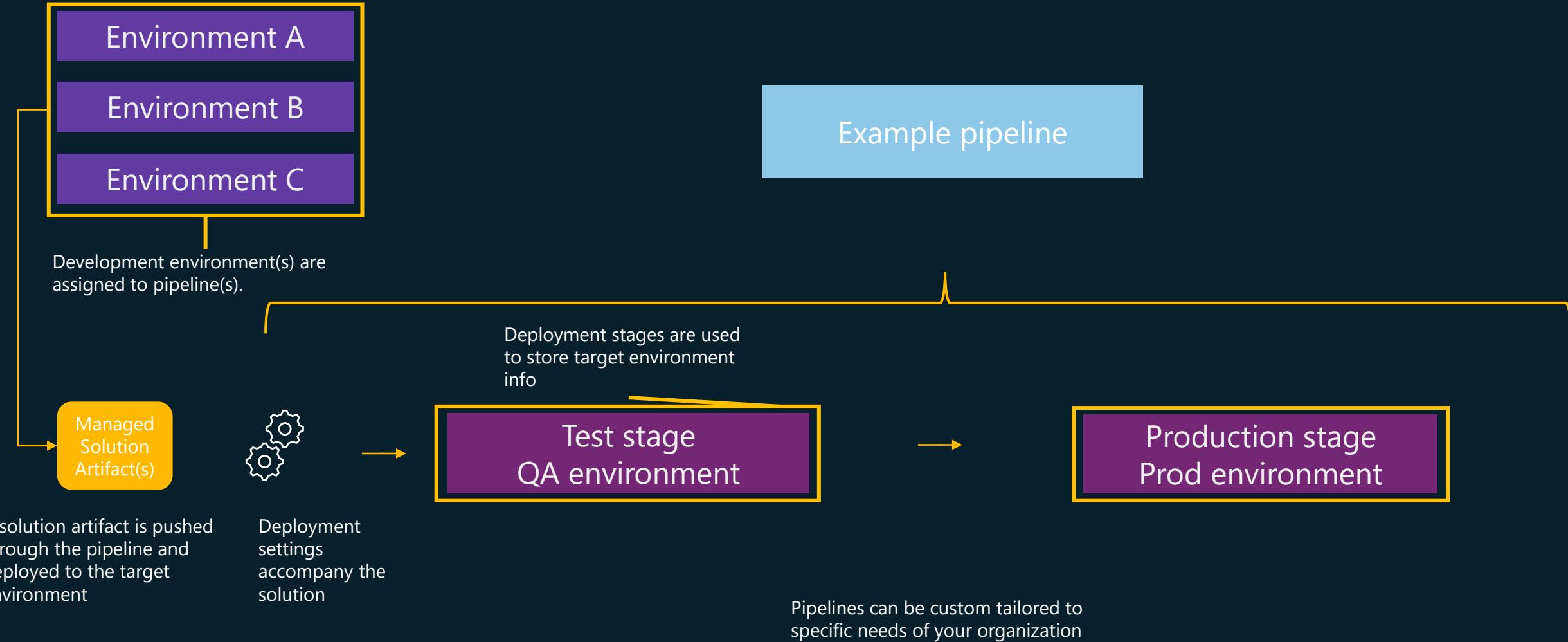
Initiate automated deployments



Developers

Simplified tasks

Pipelines model



Better visibility

This screenshot shows the 'Run history' section of the Power Apps Deployment Pipeline Configuration. It lists deployment pipelines across various environments (INT, UAT, PROD) and stages (Lumenapp, Production). The table includes columns for Name, Start Time, End Time, Operation Status, Artifact Name, Solution Art., Target Deploy., and Owner. A search bar and filter options are at the top.

Centrally view **all deployment** activity across my team, organization, or tenant

More control

This screenshot shows the 'Pipeline Details' and 'Deployment Stages' sections of the Power Apps Deployment Pipeline Configuration. The pipeline is named 'Contoso Standard Pipeline' and is described as 'Use this pipeline for all deployments except hot fixes.' It is owned by 'Casey Burke (Buy)'. The 'Deployment Stages' section shows three stages: 'calbuk Dev', 'Dev Env2 - 26ef116af-0b43-e1eae-829d-bee5a1e15565', and 'Dev Env3 - 9bdff102a-4fb9-eaa2-a087-c71b53f544f3', all marked as 'Success'. A 'Linked Development Environments' table is also present.

Centrally manage pipelines & **security**

Every solution, every version, every error log is automatically retained in "host" DB

With less effort

This screenshot shows the 'Active Deployment Pipelines' section of the Dynamics 365 Deployment Pipeline Configuration. It lists two pipelines: 'N America Pipeline' and 'S America Pipeline', both created on 6/6/2022. The table includes columns for Name, Description, Modified On, Owner, and Created On.

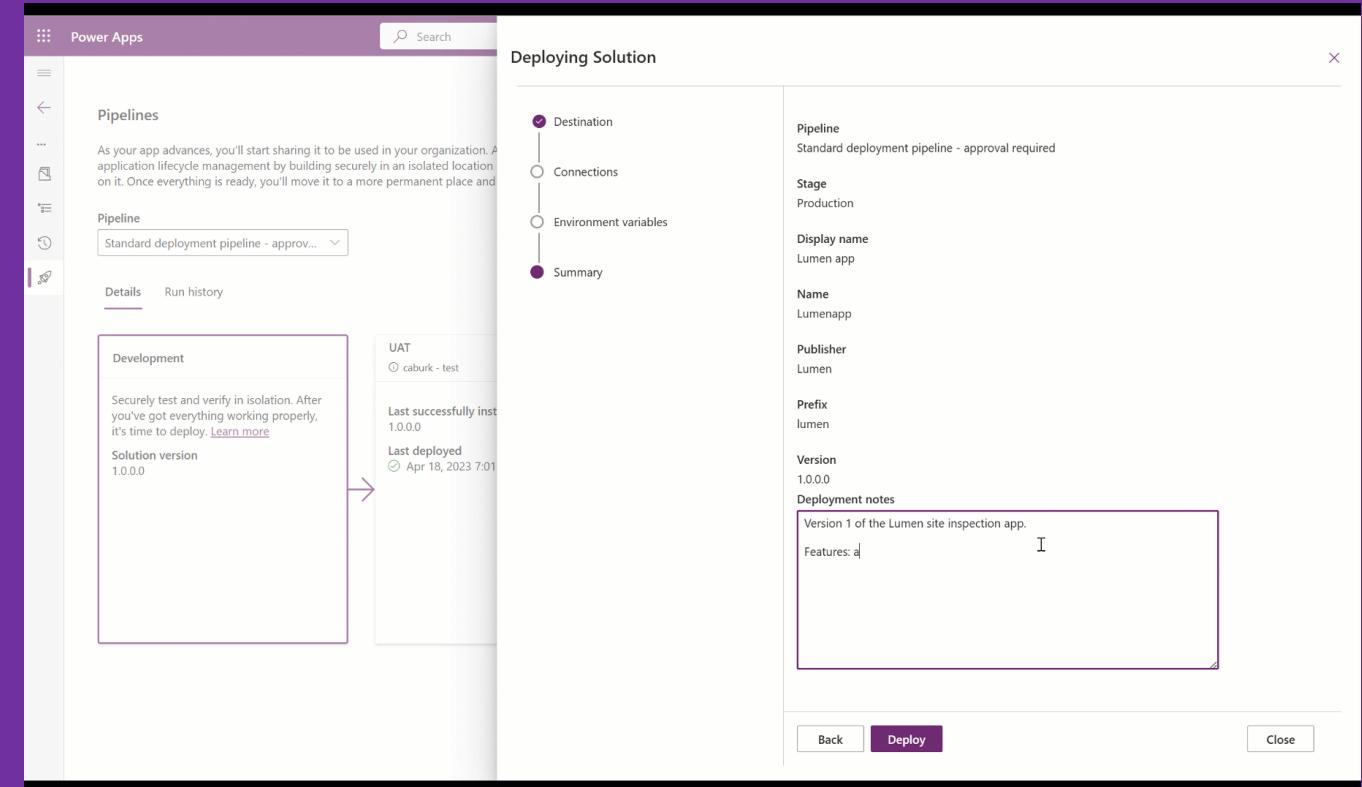
Setup in a few minutes vs hours, days, or weeks

Lowers total cost of ownership with Power Platform now handling the heavy lifting + **citizen developers** initiating their own deployments.

Recently released

- Schedule deployments
- Release notes w/ Copilot
- Extensibility
- Cancel deployments
- Available in Power Pages
- Available in all sovereign clouds
- And much more

Available everywhere



Learn more! <https://aka.ms/pipelines-June23-update>



Lab 3 - Deploy

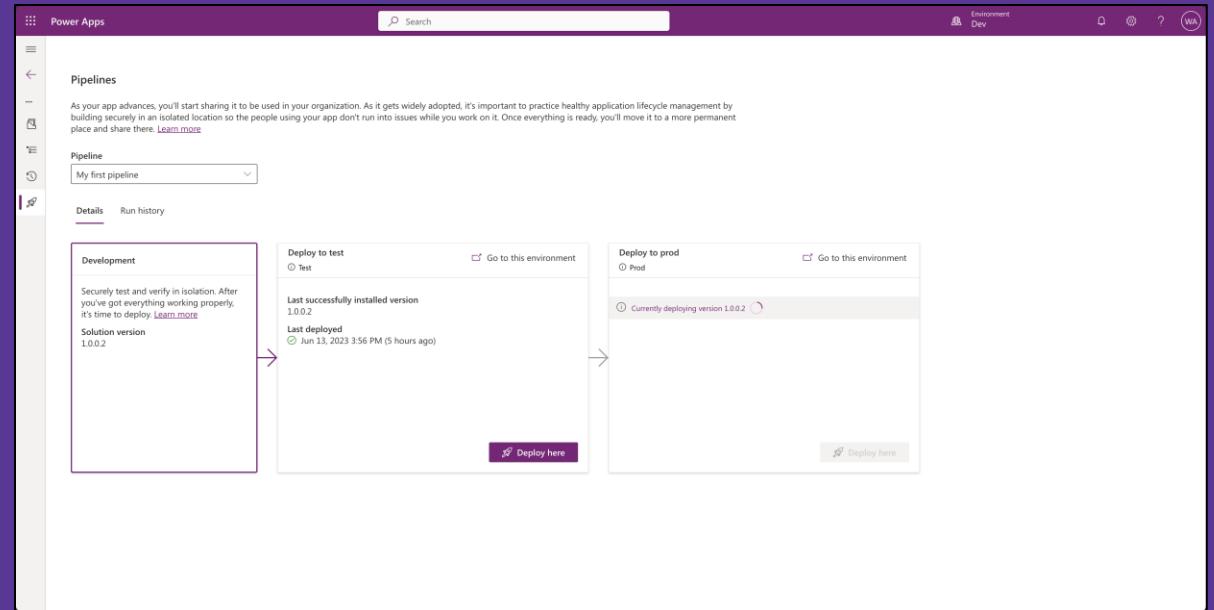
45 min

<https://aka.ms/MPPC23-Power-Apps/lab3>

Lab 3 – Deploy

In this lab, you will:

- **Setup your first pipeline**
- **Run your first pipeline**



<https://aka.ms/mppc23-power-apps/lab3>

Lab 3 – Deploy

Resources:

Overview of pipelines in Power Platform

<https://learn.microsoft.com/en-us/power-platform/alm/pipelines>

Set up pipelines in Power Platform

<https://learn.microsoft.com/en-us/power-platform/alm/set-up-pipelines>

Run pipelines in Power Platform

<https://learn.microsoft.com/en-us/power-platform/alm/run-pipeline>

Power Platform Pipelines: Extensibility

Themes We've Heard



Citizen friendly

"Developers of any experience level fall into the *pit of success*"



Enterprise scalable

"Industry best practices and guardrails available out of the box"



Pro dev capable

"Integrated into developer workflows"

Power Apps x + https://make.powerapps.com

Power Apps Search Environment Production

Home Create Learn Apps Tables Solutions More Power Platform

Let's build an app. What should it do?

Collect RSVPs Track sales leads List inventory Manage inspections

Use everyday words to describe what your app should collect, track, list, or manage ...

Set your preferred solution

Select where your updates will be saved so your work stays organized. [Learn more about healthy application lifecycle management \(ALM\)](#)

Unless otherwise specified, save my changes in [View all](#)

+ New solution

Apply Cancel

Start with an app template Select from a list of fully functional templates. Use as-is or customize.

Other ways to create an app

Start with data Create a table, pick an existing one, or even import from Excel to create an app

Your apps

Name	Modified	Owner	Type
Sampleapp1	Yesterday	You	Canvas
TestApp	Yesterday	You	Canvas
Document events	2 d ago	Rin Yamaguchi	Canvas
Communications	5 d ago	You	Canvas
Sampleapp2	2 wk ago	Rin Yamaguchi	Canvas
Project X			

See more apps →

Settings

Power Apps Admin center Plans Advanced settings Session details Developer resources Power Apps settings DevTools Set preferred solution

Themes

Start with an app template Select from a list of fully functional templates. Use as-is or customize.

View all

Password [Change your password](#)

Contact preferences [Update contact preferences](#)

Power Apps x + https://make.powerapps.com

Power Apps | Canvas Search

Back Honda inspections Insert Add data New screen Theme Settings

Fill fx White

Data

Search Add data Create table

Create a table to set up your database

Inspection tracker

Today's inspections

Search

Honda CR-V #1A23 Lot 1, Bay 15 Pass

Honda Fit #2C45 Lot 2, Bay 3 Fail

Honda Civic #X403 Lot 3, Bay 6 Pass

Honda Civic #4Z21 Lot 4, Bay 3 Pass

Honda Accord #7H09 Lot 5, Bay 11 Pass

Honda Accord #J981 Lot 6, Bay 1 Fail

Honda Civic #X402 Lot 7, Bay 8 Pass

Honda Civic #X401 Lot 8, Bay 2 Pass

Share Honda inspections (shared to 2 of 2 people)

Add people as Users and Co-owners to your app. Make sure your data connections have been shared with all users.

Charlotte

Suggested people

Charlotte Watson Designer

Mona Kane User

Kevin Sturgis Co-owner

Sharing limit ⓘ Shared with: 2 of 2 people.

Apps in this environment have a sharing limit set to 2. To share with more people, deploy to another environment with a larger limit. [Learn more](#)

Start the deployment process

Email message

Let colleagues know what your app does and how it can help them.

Include an image

Add an image to the email to showcase what your app looks like.
Tip: Use an image that is 4:3 aspect ratio and smaller than 1MB.

Choose a file to upload or drag and drop it here

Upload

Select or add a user to set their permissions

Send an email invitation to new users

Share Cancel

Screen1

10/6/23 9:28 AM

Power Apps x + https://make.powerapps.com

Power Apps | Canvas

Back Honda inspections Insert Add data New screen Theme Settings ...

Fill = fx White

Data

Search Add data

Create a table to set up your database

Create table

Inspection tracker

Today's inspections

Search

Honda CR-V #1A23 Lot 1, Bay 15

Honda Fit #2C45 Lot 2, Bay 3

Honda Civic #X403 Lot 3, Bay 6

Honda Civic #4Z21 Lot 4, Bay 3

Honda Accord #7H09 Lot 5, Bay 11

Honda Accord #J981 Lot 6, Bay 1

Honda Civic #X402 Lot 7, Bay 8

Honda Civic #X401 Lot 8, Bay 2

Need to share with more people?

Apps in this environment have a sharing limit that's set to 2 users. To share with more people, deploy to another environment with a larger limit. [Learn more](#)

Start the deployment process Cancel

Share Honda inspections (shared to 2 of 2 people)

Add people as Users and Co-owners to your app. Make sure your data connections have been shared with all users.

Enter a name, email address, or Everyone

Shared with Sort by Name

Henry Brill User

Mona Kane User

Kevin Sturgis Co-owner

Sharing limit

Shared with: 2 of 2 people.

Apps in this environment have a sharing limit set to 2. To share with more people, deploy to another environment with a larger limit. [Learn more](#)

Start the deployment process

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Choose a file to upload or drag and drop it here

Select or add a user to set their permissions

Send an email invitation to new users

Share Cancel

Screen1

10/6/23 9:28 AM



Pipelines extensibility

Now in preview!

Pipelines delegated deployments (SPN)

Makers are empowered to deploy their applications to production without needing elevated permissions or support from admins.

AI generated deployment notes make it easy to **approve** or reject deployments.

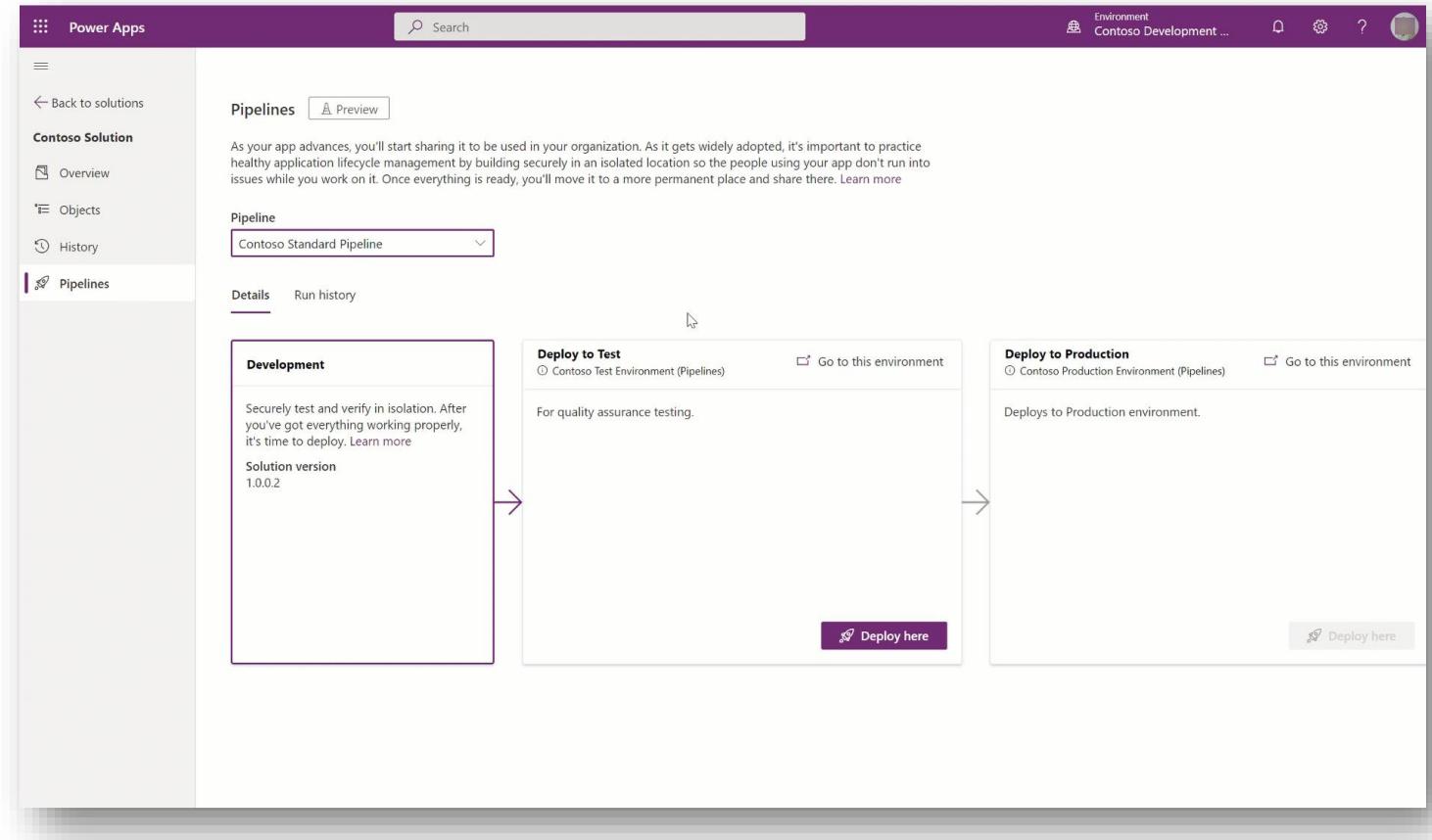
Admins can rest assure their production data and application assets are protected and compliant with organizational least privileged access policies.

The screenshot shows the 'Deployment Pipeline Configuration' page in the Power Apps portal. The pipeline is named 'Contoso delegated pipeline'. The 'General' tab is selected. A note says 'To enable this content, save the record.' Below that is a table for 'Linked Development Environments' with one row: [Pipelines Master] Dev Env, Development Environment, 73106688-5209-ee04-8ea7-61b5b93ad2f9, Success. At the bottom, a table for 'Deployment Stages (Deployment Pipeline)' shows one stage: Contoso Production, Deployment Pipeline: Contoso delegated pi..., Previous Deployment: [Pipelines Master] Pro..., Target Deployment: [Pipelines Master] Pro..., Is Delegated: Yes, Pre-Deployment: No, Created On: 9/7/2023 5:44 PM. The URL at the bottom is https://org5494fcfb.crm10.dynamics.com/main.aspx?appid=d74c4495-1849-ee11-be6d-6045bd...

Pipelines Accelerator: Leveraging ALM Accelerator Features

Source code and code first for Pipelines

- Unpack and commit including merge conflict detection
- Pull Request approvals
- Building code first components (plugins and PCF)
- Unit testing prior to deployment
- Custom pipeline templates for specific ALM requirements (static code analysis, just in time environment creation and more)



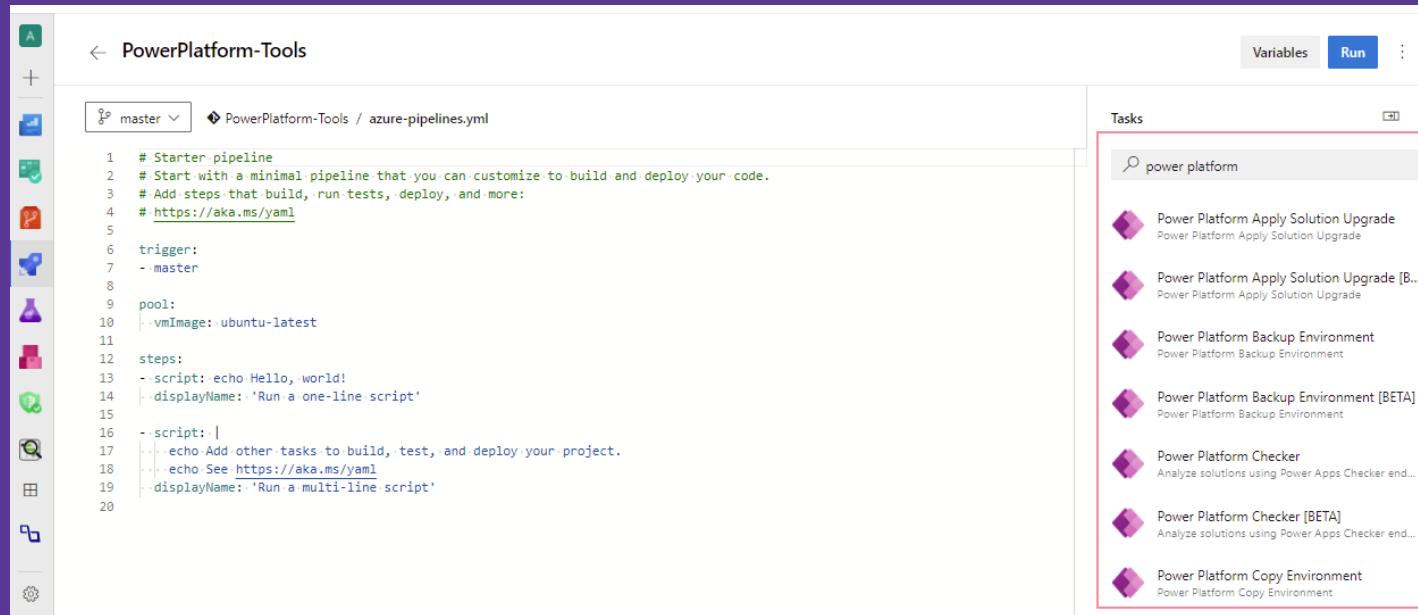
<https://aka.ms/aa4ppext>

Power Platform Build Tools for Azure DevOps

Use Power Platform Build Tools to automate common build and deployment tasks related to Power Platform.

This includes:

- provisioning/de-provisioning of environments
- synchronization of solution metadata (a.k.a. solutions) between development environments and source control
- generating build artifacts
- deploying to downstream environments
- performing static analysis checks against your solution using the PowerApps checker service.



The screenshot shows the Azure DevOps pipeline editor interface. On the left, there's a sidebar with various icons for managing pipelines. The main area displays a YAML file named "azure-pipelines.yml" under the "PowerPlatform-Tools" project. The code defines a pipeline with a trigger for the "master" branch, a pool using the "ubuntu-latest" VM image, and a single step that runs a script to echo "Hello, world!" and "See https://aka.ms/yaml". To the right, a "Tasks" pane is open, showing a search bar and a list of available tasks. A red box highlights the search results for "power platform", which include several Power Platform-related tasks such as "Power Platform Apply Solution Upgrade", "Power Platform Backup Environment", "Power Platform Checker", and "Power Platform Copy Environment".

```
1 # Starter pipeline
2 # Start with a minimal pipeline that you can customize to build and deploy your code.
3 # Add steps that build, run tests, deploy, and more:
4 # https://aka.ms/yaml
5
6 trigger:
7 - master
8
9 pool:
10   vmImage: ubuntu-latest
11
12 steps:
13 - script: echo Hello, world!
14   displayName: 'Run a one-line script'
15
16 - script: |
17   echo Add other tasks to build, test, and deploy your project.
18   echo See https://aka.ms/yaml
19   displayName: 'Run a multi-line script'
20
```

Tasks

- Power Platform Apply Solution Upgrade
- Power Platform Apply Solution Upgrade [BETA]
- Power Platform Backup Environment
- Power Platform Backup Environment [BETA]
- Power Platform Checker
- Power Platform Checker [BETA]
- Power Platform Copy Environment

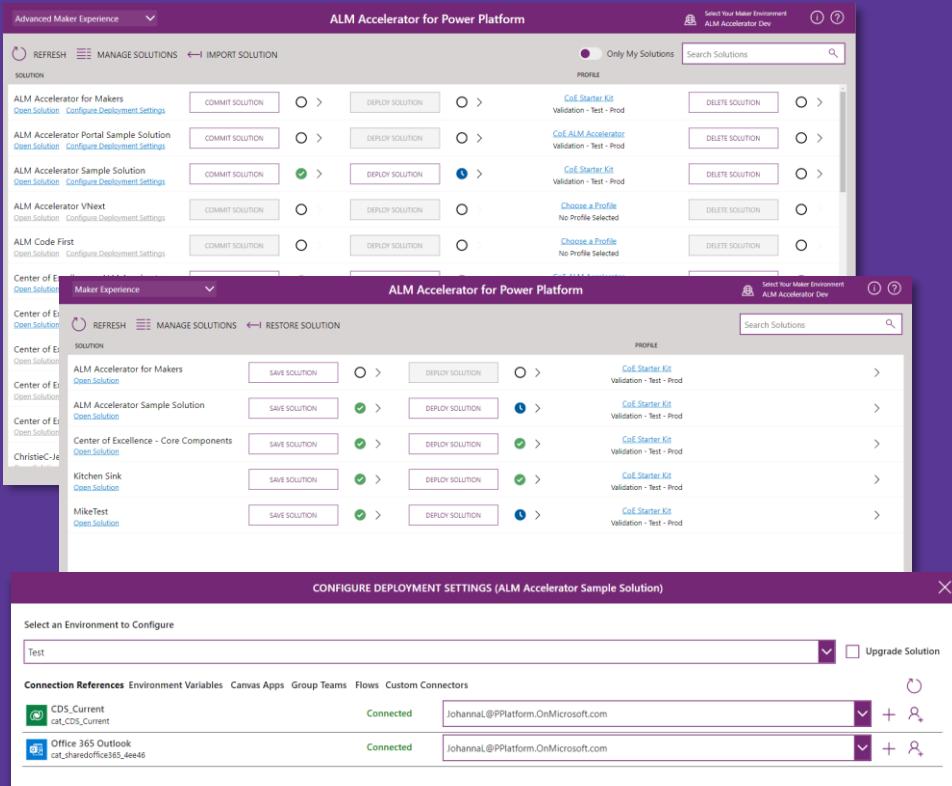
ALM Accelerator For Power Platform

The screenshot shows the 'Power Platform ALM Accelerator' interface. On the left, there's a list of solutions: 'ALM Accelerator for Makers', 'ALM Accelerator Sample Solution', 'Center of Excellence - ALM Accelerator', 'Center of Excellence - Audit Logs', 'Center of Excellence - Core Components', 'Center of Excellence - Flow Runs', 'Center of Excellence - Governance Co...', 'Center of Excellence - Maker Journey', 'Center of Excellence - Microsoft Teams ...', 'Center of Excellence - Nurture Compon...', and 'CoE - Current Value'. Each solution has 'COMMIT SOLUTION' and 'DEPLOY SOLUTION' buttons. On the right, under 'PROFILE', there are sections for 'Azure DevOps Test' (Validation - Test - Prod), 'GitHub Production' (Validation - Test - Prod), and a navigation bar for 'jeschro-cdx / ALMAcceleratorSampleSolu... / Pipelines'. Below this, the 'Pipelines' section shows a table of recently run pipelines:

Pipeline	Last run
deploy-test-ALMAcceleratorSampleSolution	#1.0.20220826.1 Individual CI for...
deploy-validation-ALMAcceleratorSample...	#1.0.20220826.1 PR automated fo...
export-solution-to-git	#export-ALMAcceleratorSampleSolutio...
deploy-prod-ALMAcceleratorSampleSolut...	#1.0.20220825.1 Individual CI for...
import-unmanaged-to-dev-environment	#import-ALMAcceleratorSampleSolutio...

- Open-Source project maintained by Power CAT.
- Aligned with latest in-product features and tools.
- Customizable to suit the needs of an organization through configuration or extensions.
- Monthly releases github.com/microsoft/coe-starter-kit.
- Active Issues, Discussions Forum and Backlog.
- Extensive documentation on learn.microsoft.com.

ALM Accelerator For Power Platform



User Profile Configuration

- Customize UI and available capabilities per user / team

Deployment Profile configuration

- Configure downstream environments for deployment of Solution
- Link Solution to Azure DevOps Project / Repository

Configuration of downstream deployment settings

- Connection References (legacy)
- Environment Variables (legacy)
- Flow/App/etc ownership
- Canvas App Sharing
- Dataaverse Teams and Security Roles
- Flow sharing and activation
- Custom Connector sharing

Advisor

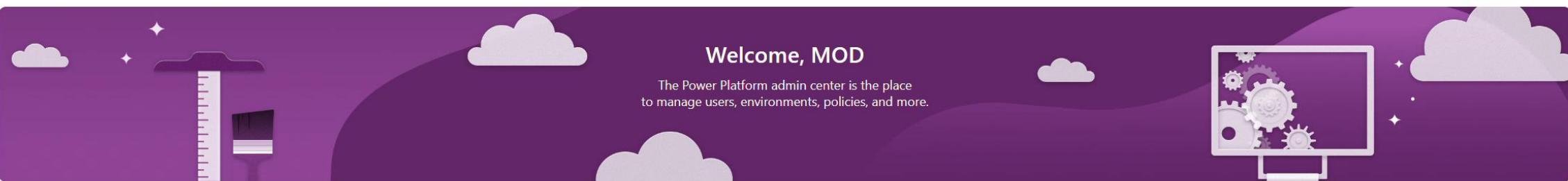


Power Platform Advisor

Advisor is a **Managed Environments** capability that provides IT admins with **proactive recommendations** and **inline actions** to govern, organize and secure their low code assets.

Information → Insight → Action

Apps where owner = null	6 apps have no owner	Assign new owner
Apps where last visit > 6 mo's ago	8 unused apps	Quarantine or delete app
Apps with > 100 MAU & not in solution	12 high use apps with unhealthy ALM	Add app to solution
Apps with > 100 MAU & shared with "Everyone"	11 high use apps are shared with guest users	Remove guest user access

[+ Add cards](#) [Share feedback](#)Advisor (Preview)
Updated on 9/27/2023

4 recommended actions

We've detected instances in your tenant that may be posing security threats. View the recommended actions to resolve these issues and ensure that your tenant is secured.

Note that recommendations only apply to managed environments. Enable managed environments on your standard environments to further safeguard your tenant.

[View recommendations](#)

Service health

0 incidents or advisories.

Message center

15 unread messages

- Dynamics 365 – Service Update 23094 for NOR
- Dynamics 365 – Service Update 23094 for CAN
- Dynamics 365 – Service Update 23093 for NOR
- Dynamics 365 – Service Update 23093 for CAN

[Show all](#)

More recommendations

- Apps used by guest users
- Websites without valid owners
- Cloud flows without valid owners
- Dataverse storage clean up opportunities

More capabilities (public preview)

This screenshot shows the Microsoft Teams interface with the Advisor app integrated into the Chat tab. The left sidebar displays a list of recent conversations and pinned messages. The main area shows a daily focus summary for 'Good morning, Mona!' highlighting top priority items. It also lists '98 unlicensed users are using premium apps' and '18 apps are shared with Everyone including guest users'. A section for '136 apps automatically assigned owners' is shown, along with buttons for 'View details', 'Review policy', and 'Share'. At the bottom, there's a message input field and a toolbar.

Daily to-dos and impact summary

This screenshot shows the Advisor app's interface for managing app ownership. A modal window titled '136 apps in this org do not have valid owners' is open, providing a recommendation to review the apps and take appropriate action. Below the modal is a table listing various apps with their details: App name, Environment, Owner(s), Last run, Active users, and Last modified. Buttons for 'Auto assign owners', 'Assign new owner', 'Promote co-owner to owner', and 'Delete' are available at the top of the table. The table includes rows for 'Timesheet', 'Review complaints', 'Add complaints', 'Email updates', 'Asset checkout', 'Fundraiser', 'Innovation challenge', 'Test app', 'Billing', 'Internal email', 'Package tracking', 'Inventory', and 'Itemization', all associated with the Contoso environment and various owners like Aadi Kapoor, Eliot Woodward, Sarah Perez, and Tim Deboer.

Create rules to automate actions

This screenshot shows the Advisor app's interface for sharing recommendations. A modal window titled 'Sharing recommendation details in Teams' is open, showing options to share in a chat or to a team. It includes a 'To' field set to 'Contoso Company' and a 'Message' field containing a detailed explanation about website authentication keys expiring in 10 days. A 'Mitigation steps' section lists five steps to renew the key. Suggested contacts for Babak Shamas and Aadi Kapoor are listed at the bottom. Buttons for 'Send in Teams' and 'Cancel' are at the bottom right.

Delegate tasks/actions

Call to action

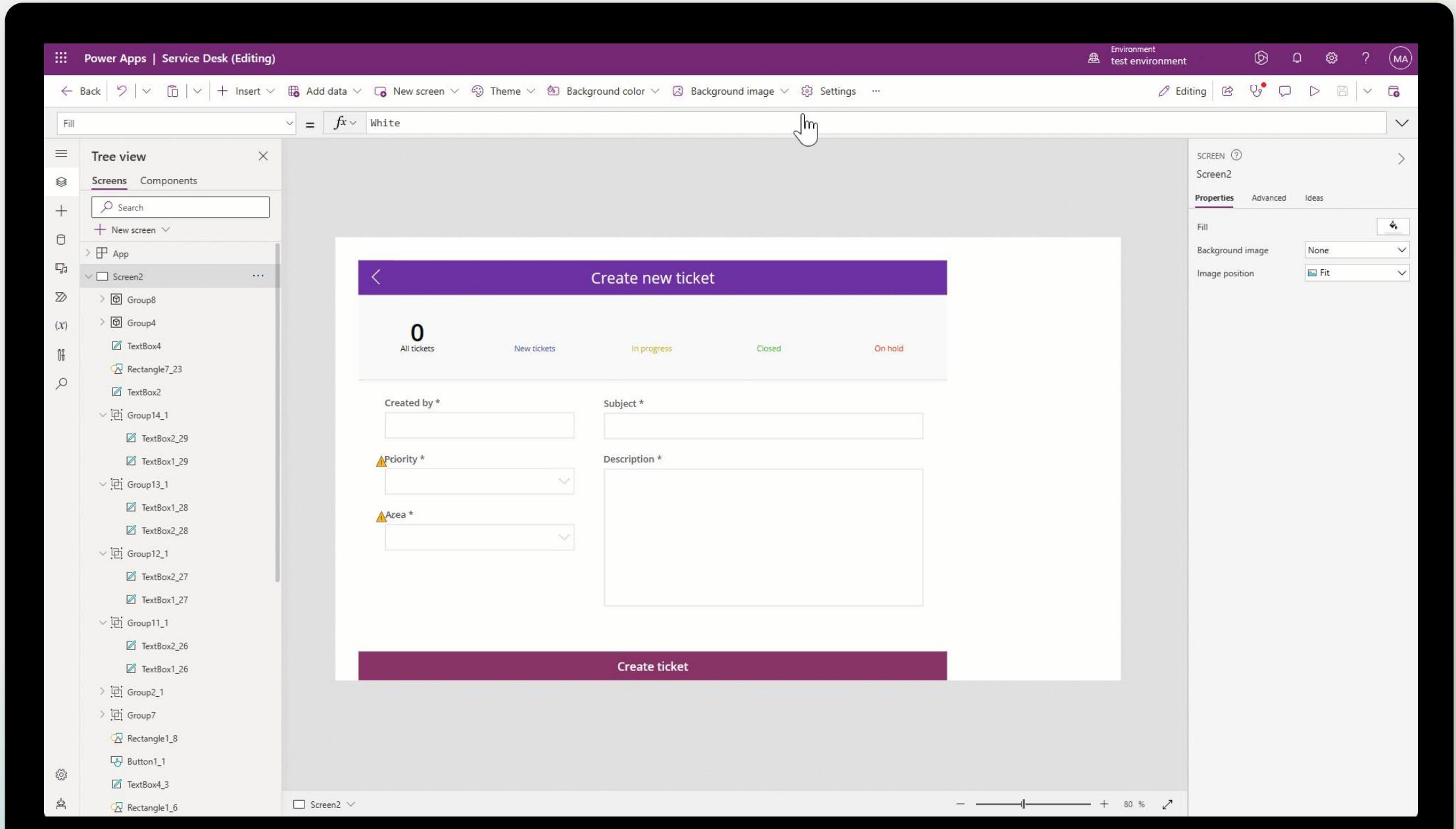
- Sign up for gated preview
- Use it weekly
- Provide feedback

Advisor | Gated preview sign up



<https://aka.ms/padvisor>

AI Generated Descriptions Help Your Apps Scale



Lab 4 – Enterprise Scale

Pipelines

As your app advances, you'll start sharing it to be used in your organization. As it gets widely adopted, it's important to practice healthy application lifecycle management by building securely in an isolated location so the people using your app don't run into issues while you work on it. Once everything is ready, you'll move it to a more permanent place and share there. [Learn more](#)

Pipeline
My first pipeline ▾

Details Run history

Development

Securely test and verify in isolation. After you've got everything working properly, it's time to deploy. [Learn more](#)

Solution version
1.0.0.2

Deploy to test
① Test

Go to this environment

Last successfully installed version
1.0.0.2

Last deployed
⌚ Jun 13, 2023 3:56 PM (5 hours ago)

Deploy here

Deploy to prod
① Prod

Go to this environment

Last successfully installed version
1.0.0.2

Last deployed
⌚ Jun 13, 2023 8:39 PM (a few seconds ago)

Deploy here

Lab 4 – Enterprise Scale

Pipelines

As your app advances, you'll start sharing it to be used in your organization. As it gets widely adopted, it's important to practice healthy application lifecycle management by building securely in an isolated location so the people using your app don't run into issues while you work on it. Once everything is ready, you'll move it to a more permanent place and share there. [Learn more](#)

Pipeline
My first pipeline ▾

Details Run history

Development

Securely test and verify in isolation. After you've got everything working properly, it's time to deploy. [Learn more](#)

Solution version
1.0.0.1

Deploy to test Test Go to this environment

Last successfully installed version
1.0.0.1

Last deployed
Jun 14, 2023 3:00 PM (a few seconds ago)

Deploy here

Deploy to prod Prod Go to this environment

Your request to deploy here is pending. [Learn more](#) X Cancel deployment

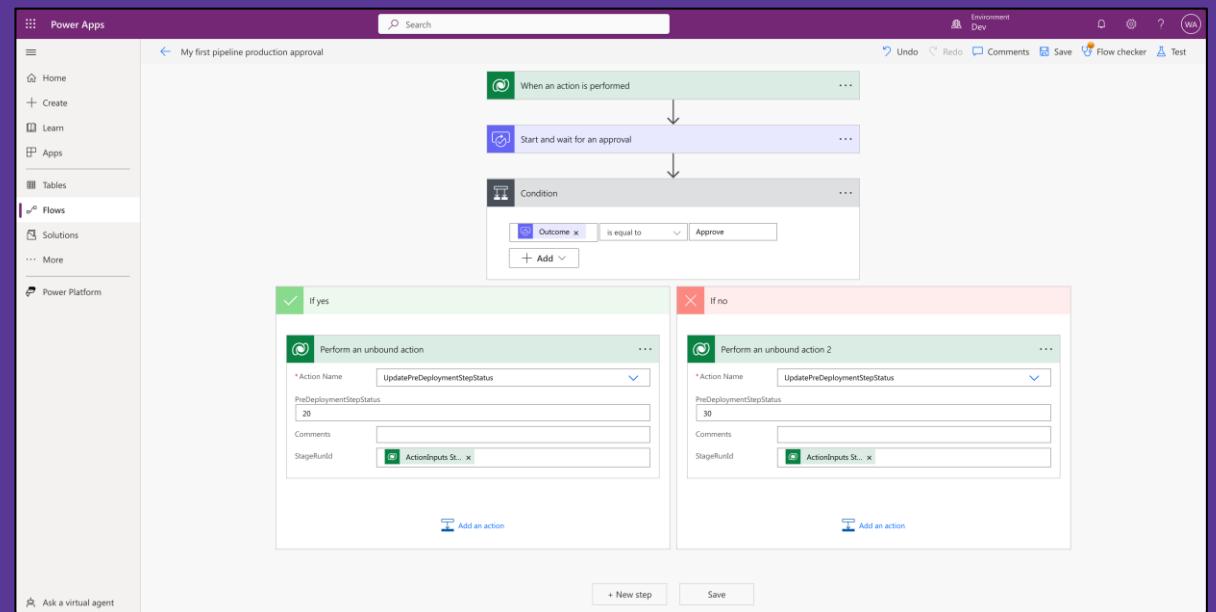
Deploy here

```
graph LR; Dev[Development] --> Test[Deploy to test]; Test --> Prod[Deploy to prod]
```

Lab 4 – Enterprise Scale

In this lab, you will:

- **Add a Pre-Deployment Step to the “Deploy to prod” stage**
- **Create a cloud flow that handles the approval**



<https://aka.ms/mppc23-power-apps/lab4>

Lab 4 – Enterprise Scale

Resources:

Extend pipelines in Power Platform

<https://learn.microsoft.com/en-us/power-platform/alm/extend-pipelines>

<https://aka.ms/mppc23-power-apps/lab4>

Develop faster than ever before



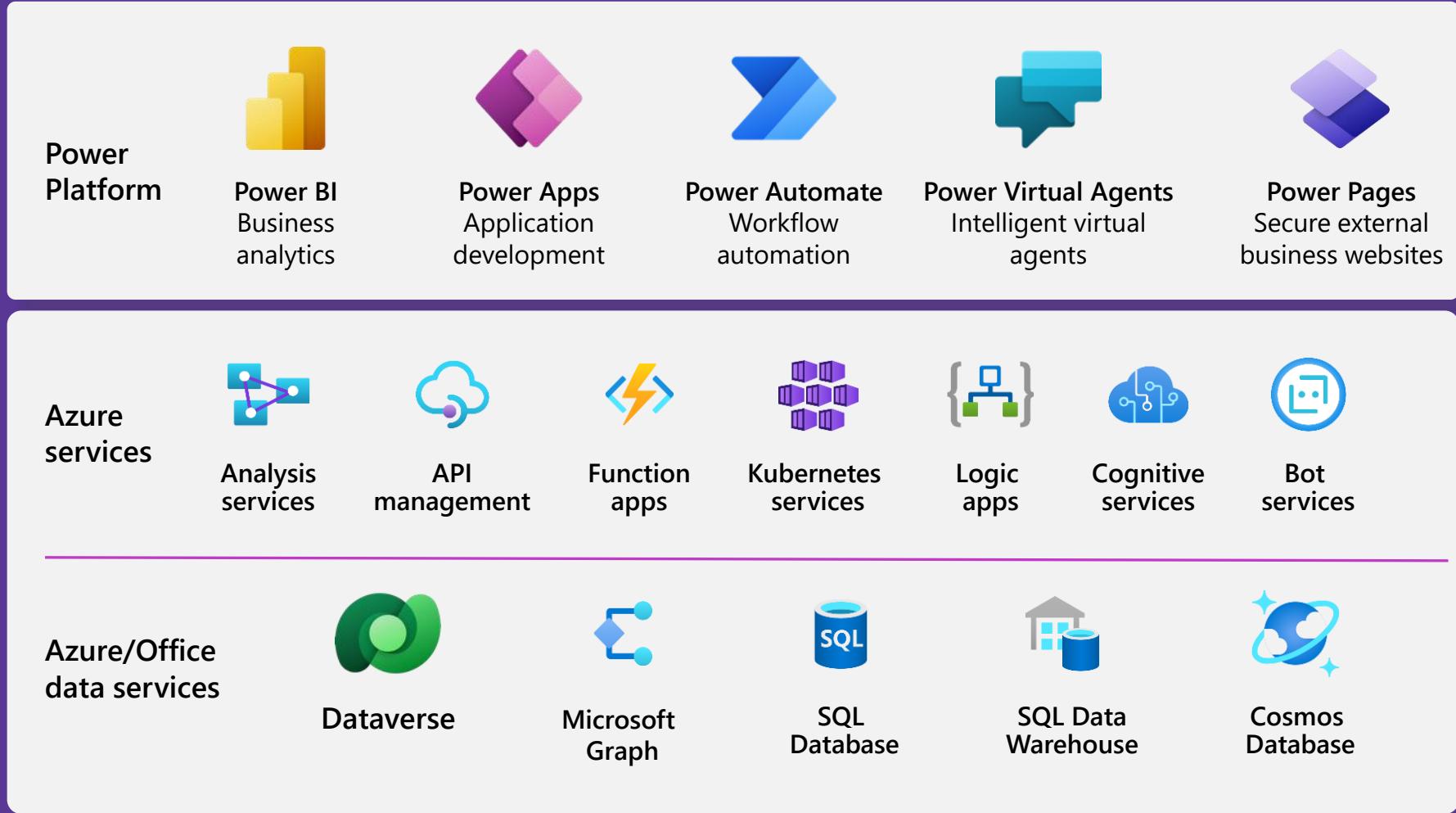
Microsoft Teams



GitHub



Azure DevOps



Low-code developer



Code-first developer



Power Platform
Developer Tools



Visual
Studio



VS
Code

Develop faster than ever before



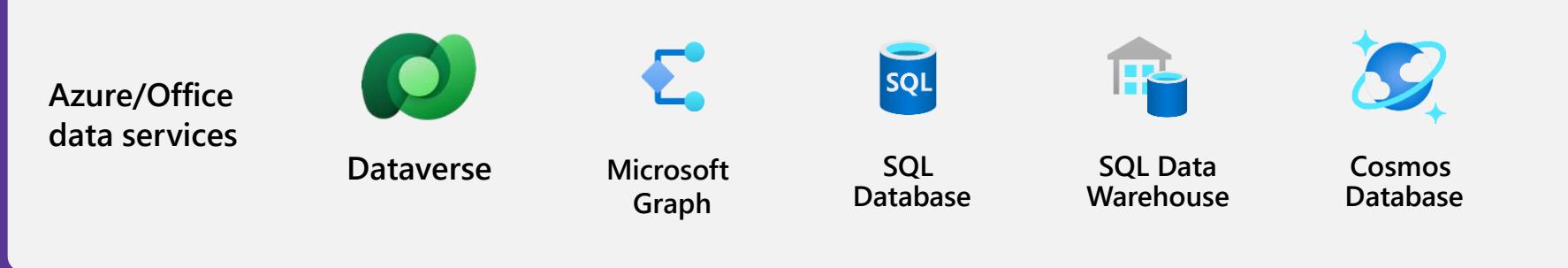
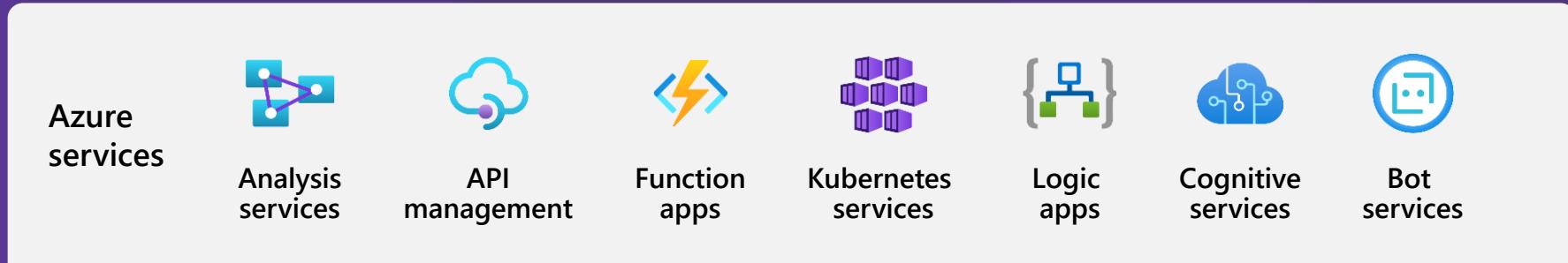
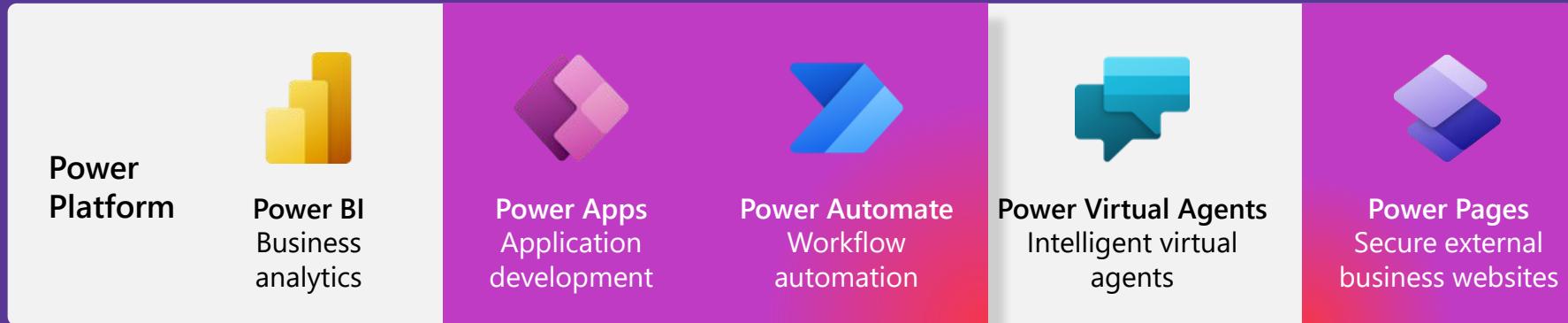
Microsoft Teams



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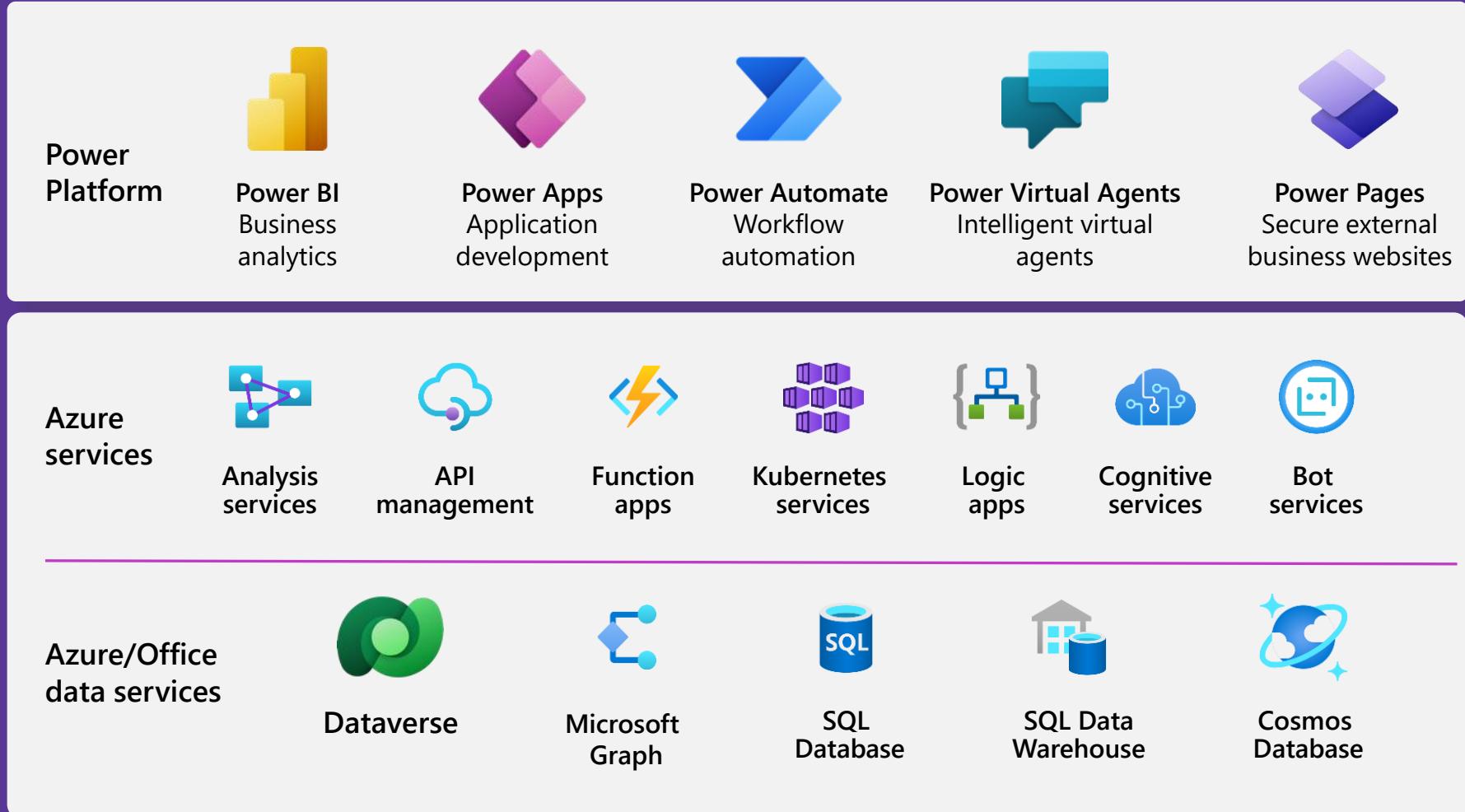
Microsoft Teams



GitHub



Azure DevOps



Low-code developer



Code-first developer



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Developer Tools

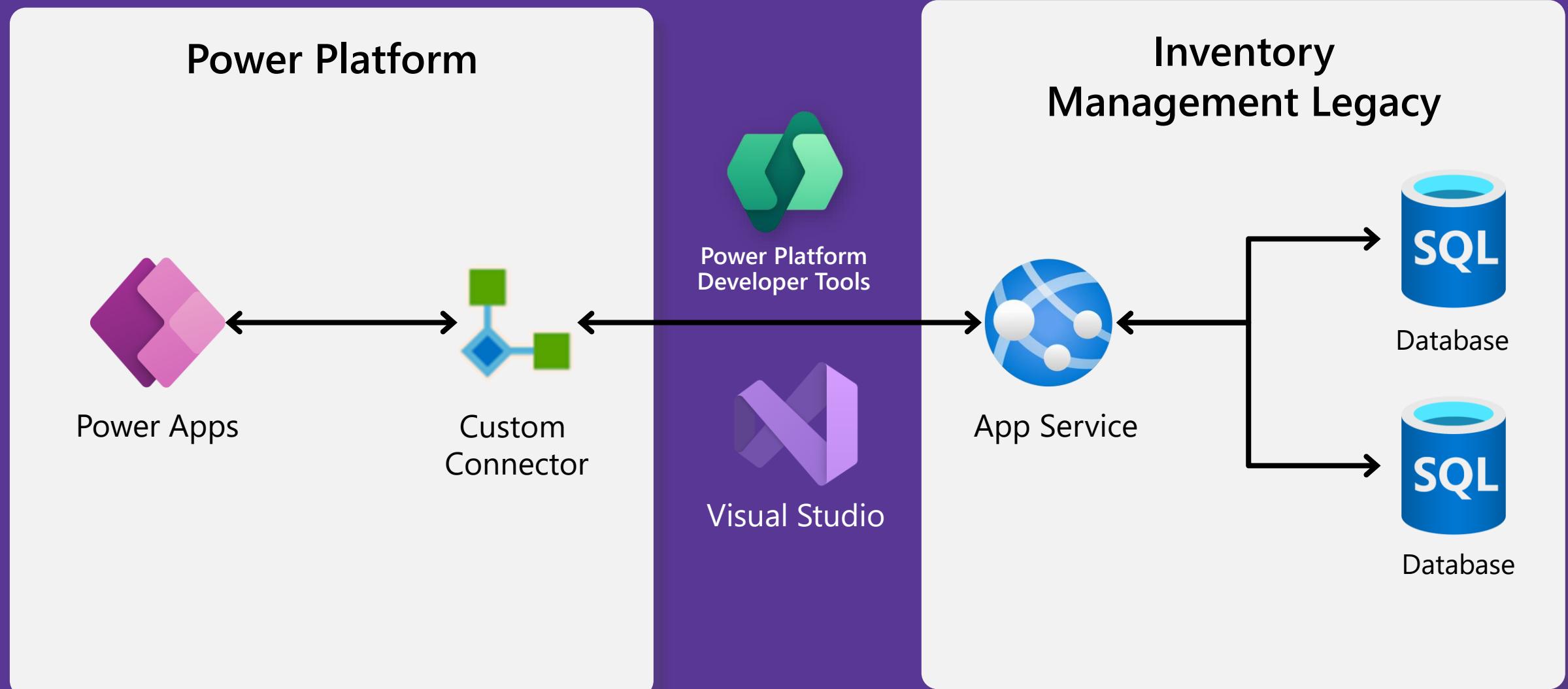


Visual
Studio



VS
Code

Develop faster than ever before



Develop faster than ever before

Connect to Microsoft Power Platform

Select a Power Platform environment and create your custom connector

Power Platform environments

Dev (612ce8a4-7211-e126-9569-38037c587416)

Custom connectors

InventAPI_Connector

OpenAPI specification

Auto-generate the OpenAPI V2 specification

OpenAPI V2 specification file path C:\Users\marcelbf\source\repos\build\InventAPI\InventAPI [Browse...](#)

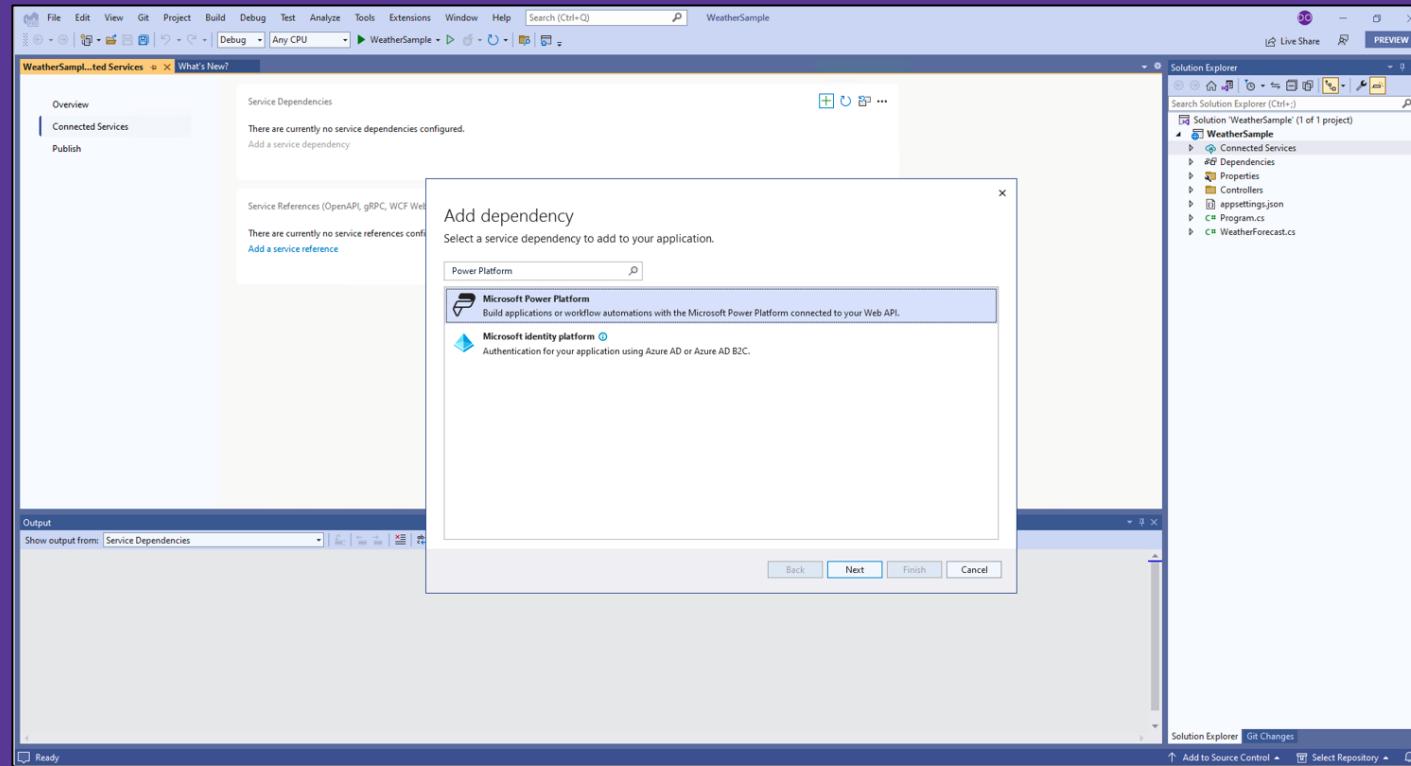
Publish URL

<https://inventapi.azurewebsites.net>

[Back](#) [Next](#) [Finish](#) [Cancel](#)

Marcel dev
dev1@marcelbforg.onmicrosoft.com

Lab 5 – Connect to WebAPI



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Microsoft Teams

Power Platform



Power BI
Business
analytics



Power Apps
Application
development



Power Automate
Workflow
automation



Power Virtual Agents
Intelligent virtual
agents



Power Pages
Secure external
business websites

Low-code
developer



GitHub

Azure services



Analysis
services



API
management



Function
apps



Kubernetes
services



Logic
apps



Cognitive
services



Bot
services

Code-first
developer



Azure
DevOps

Azure/Office
data services



Dataaverse



Microsoft
Graph



SQL
Database



SQL Data
Warehouse



Cosmos
Database

Power Platform
Developer Tools



Visual
Studio



VS
Code

Program.cs X

```
1 CountriesDemo
2
3 app.UseHttpsRedirection();
4
5 app.MapGet("/countries", () =>
6 {
7     return new List<string> {
8         "USA",
9         "Canada",
10        "Brazil",
11        "Netherlands",
12        "Malta",
13        "New Zealand",
14        "Germany",
15        "France"
16    };
17 })
18 .WithName("GetCountries")
19 .WithOpenApi();
20
21 app.Run();
22
23 }
```

Solution Explorer



Search Solution Explorer (Ctrl+;)

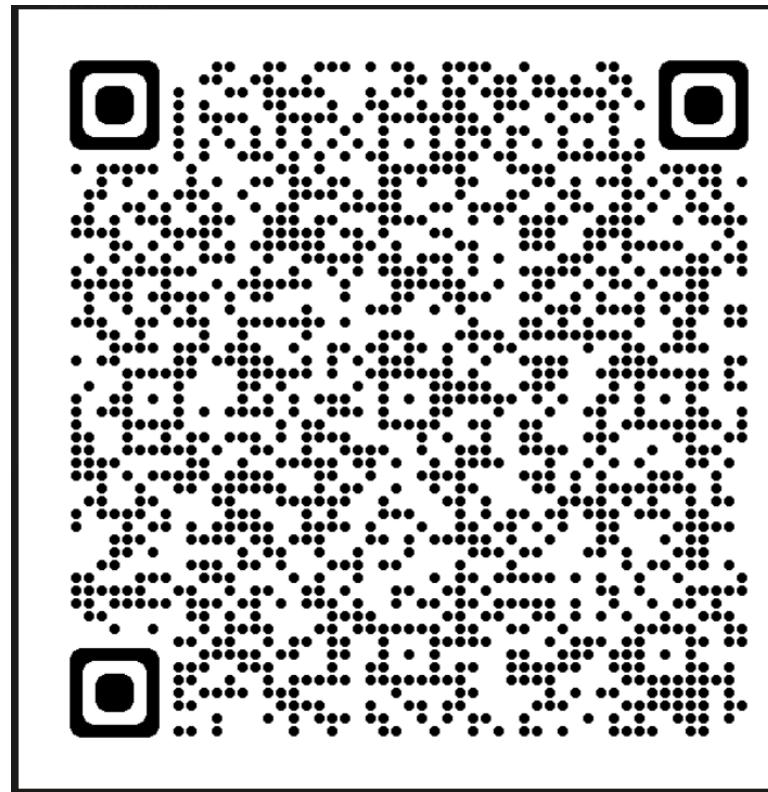
+ Solution 'CountriesDemo' (1 of 1 project)

▼ CountriesDemo

- ▷ Connected Services
- ▷ Dependencies
- ▷ Properties
- ▷ .gitattributes
- ▷ .gitignore
- ▷ appsettings.json
- ▷ C# Program.cs

Power Platform and API Management

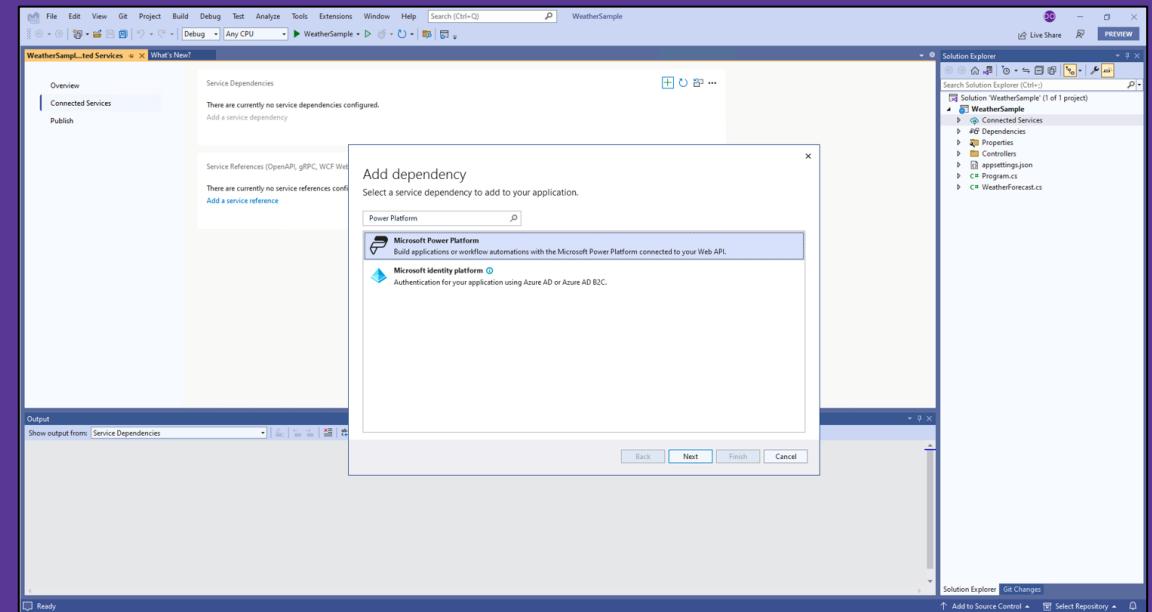
Sign up for early access



Lab 5 – Connect a Canvas App to a ASP.NET web API

In this lab, you will learn:

- **how to add the Power Platform Connected Service**
- **how to debug your web API via the Visual Studio integration**



<https://aka.ms/mppc23-power-apps/lab5>

Lab 5 – Connect to WebAPI

Resources:

Extend pipelines in Power Platform

<https://learn.microsoft.com/en-us/power-platform/alm/extend-pipelines>

<https://aka.ms/mppc23-power-apps/lab5>



Tuesday



Theater Session

**Empower your business with Personal
Developer Environments**

Tuesday, October 3
12:00 p.m. – 12:15 p.m.



Hazim SharafelDin
PRINCIPAL PROGRAM MANAGER



Ken Auguillard
PRINCIPAL PROGRAM MANAGER

Enhance your environment strategy with Personal Developer Environments and Environment Routing. Learn about the latest features which help to Empower your business while directing your makers away from the Default Environment!

Microsoft Power Platform CONFERENCE

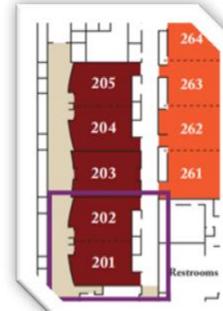
Governance and Administration Roundtable Discussion

October 3rd 12:30 PM - 1:30PM | MGM Grand Conference Center
Room: 201-202

Discuss Power Platform Governance & Administration with Microsoft Engineering Team

During our round table session, we're going to dive into the exciting features that administrators can use to have more control while making it easier to handle different environments. This means putting in place rules and best practices to make sure Power Platform resources are used wisely, data stays secure, and everyone follows the organization's guidelines.

Join this round table to share your experience and challenges with Microsoft and hear about best practices and guidance to super charge your skills.





Build and deploy as a team with coauthoring and pipelines

Tuesday, October 3

1:45 p.m. – 2:10 p.m.



Clay Wesener
Partner Group Product Manager



Emma Cooper
Principal PM Manager



Simon Matthews
Principal PM Manager

Accelerate your time to market through improved collaboration and App Lifecycle Management (ALM). Learn about new real-time app coauthoring and the newest in pipelines and how they can help fusion teams succeed.



Your business at (hyper) scale with Power Apps and Dataverse

Tuesday, October 3
1:45 p.m. – 2:10 p.m.



Oleg Ovanesyan
Principal Program Manager

Learn how to manage your large-scale data sources with ease using Dataverse features such as elastic tables, data integration, and long-term retention.



Learn to Govern and Secure your Power Pages Websites with Ease

Tuesday, October 3
1:45 p.m. – 2:10 p.m.



Vamsee Dilli
Principal Product Manager
Power Pages



Dipti Jaiswal
Principal Group Engineering Manager

Learn how to govern and secure your websites at-scale utilizing the admin and governance capabilities of Power Pages. You'll also see just how seamlessly this fits into Power Platform governance!

Theater Session

Pro developers with Low code ? Really ?

Tuesday, October 3
15:00 p.m. – 15:15 p.m.



Marcel Ferreira
SENIOR PRODUCT MANAGER



Kartik Kanakasabesan
PRINCIPAL PM MANAGER

In this session, you can learn the various capabilities you have at your disposal as a pro developer to work with low code. Learn about the kind of code components you can create and how you can deploy them.



Wednesday





Power Apps Roadmap: Innovation in the Age of AI

Wednesday, October 4

9:15 a.m. – 10:15 a.m.



Ryan Cunningham
Vice President, Microsoft Power Apps

What's next for Power Platform, and how is Copilot changing that roadmap? We'll take a look beyond the AI hype cycle at the ways GPT is more fundamentally reshaping how we think about data, collaboration, and innovation as we build for the next generation of business applications – from getting started on day 1 to governance at scale.



Building and Deploying Intelligent and Modern Cloud Multi-Device Applications with Power Platform

Wednesday, October 4
11:15 a.m. – 12:15 p.m.



Leon Welicki
Chief Product Officer
Power Apps



Niraj Yadav
Principal Engg. Mgr.
Power Apps



Marcel Ferreira
Senior Product Mgr.
Power Apps

When you combine Power Platform, Azure, Office, and Copilot there is no limit to what you and your teams can build! If you have not yet witnessed the power of all these great technologies working together, join this demo intensive session where we will build and deploy a complex modern and intelligent modern multi-device app using all our latest innovations in less than 60 minutes!



Learn how Microsoft is running on Power Platform at scale

Wednesday, October 4
9:15 a.m. – 10:15 a.m.



Manas Maheshwari
Principal Group Program Manager



Ed Lehman
Principal Program Manager

Learn how Business Application Platform team is digitizing at a great speed by enabling 200+ citizen developers to work on 80+ apps and pages at the same time on the single environment. This enables more than 2.5M customers and users to be successful. This has helped Business Application Group to completely digitize. Many customers are following the Focus center methodology and getting successful in establishing Power Platform at scale.

Theater Session

**How to use Power Platform to create a solution
for Short Links**

Wednesday, October 4
11:00 p.m. – 11:15 p.m.



Rui Santos

Senior Program Manager

Is common the need to have friendly URLs to Power Apps, you could develop your own solution or even buy the service from a 3rd party, but do you know that is possible to create a solution only with Power Platform? Join this session and hear from the Power CAT Rui Santos how to bring your own domain to create friendly url for your Apps.

Theater Session

Overview of the CoE Starter Kit and how it complements Managed Environments

Wednesday, October 4
14:00 p.m. – 14:15 p.m.



Marc Schweigert

Principal Group Program Manager - Power
CAT Tools

Center of Excellence (CoE) is term often used to refer to a team that provides leadership, patterns & practices, governance, administration, support, or training for a focus area. The Microsoft Power Platform CoE Starter Kit is a collection of components and tools designed to help you get started with developing a strategy for adopting and supporting Microsoft Power Platform. Managed Environments is a suite of capabilities that allows admins to manage Power Platform at scale with more control, less effort, and more insights. Managed Environment capabilities can be used standalone or alongside capabilities of the CoE Starter Kit to administer and govern your Power Platform adoption. Come learn how the CoE Starter Kit and how it will continue to evolve to compliment Managed environments through experimentation and innovation with an open-source low code model influenced by customer feedback.



Admin Scale: Operating the Power Platform across the Enterprise

Wednesday, October 4
2:00 p.m. – 3:00 p.m.



Ryan Jones
Partner PM Director



Hongfei Guo
Partner Group Eng Manager



David Blyth
Partner Eng Director

Every organization has 10 apps with thousands of users, and thousands of apps with small numbers of users - and as admins, we're responsible for the reliable and secure operation of all of them! In this session, we'll discuss how to use capabilities including Managed Environments, the Center of Excellence Starter Kit, and more to scalably empower your organization to leverage the Power Platform.



Thursday





Protect and Manage Your Enterprise Data Effectively at Scale for Low Code Development

Thursday, October 5

1:00 p.m. – 2:00 p.m.



Mihaela Blendea
Principal Product Manager



Jocelyn Panchal
Product Manager

Security of data and assets is key for any enterprise grade solutions. Join this session to learn how to operate your Power Platform and Dynamics 365 deployments securely and about what governance and compliance options organizations of all sizes have available to easily and responsibly scale their Dataverse business data footprint. We will cover the latest platform innovations to implement a zero-trust approach and keep your data secured using scalable controls for authentication and authorization, data exfiltration protection, network isolation, encryption and Azure integrations with Purview and Sentinel.



Accelerating Application development for Code-first developers

Thursday, October 5
2:15 p.m. – 3:15 p.m.



Kartik Kanakasabesan
Principal PM Manager



Casey Burke
Principal Product Manager



Angela Kim
Senior Product Manager

This session we will show case all the capabilities that Pro-developers have to accelerate their application development initiatives and deploy such applications at scale. We are going to show you how easy it is to build and reuse code first components in Power apps with Copilot and deploy them at scale.

Thank you

Speaker name

Contact information

