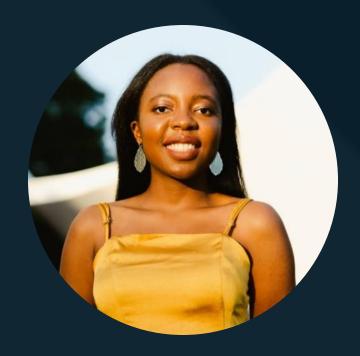




Power CAT Al WEBINARS

Building an Al-ready organization

Meet your hosts



Ashleigh Nyazema
Program Manager
Power CAT



Henry Jammes
Principal PM Manager
Power CAT



Hazim Sharafeldin
Principal Program Manager
Power CAT



Application Lifecycle Management (ALM) with Copilot Studio



Agenda

- Introduction to ALM What is ALM and why is it important?
- ALM for Copilot Studio From Basics to Advanced
- Wrap-Up
 - Key takeaways
 - Q&A



What is ALM and Why is it important?

Should we focus on ALM?



development.

ALM focus is not critical

during PoC or pilot









ALM becomes essential for managing and scaling the agent.

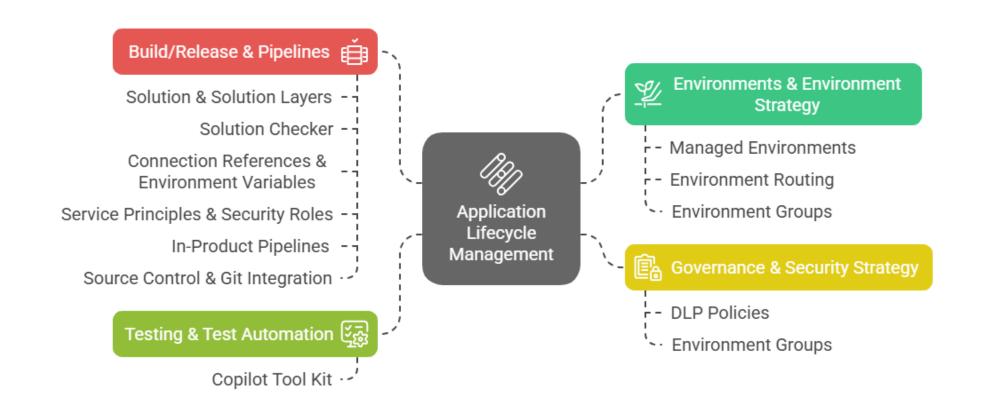
ALM Building Blocks Goals People Processes

Application Lifecycle Management Benefits



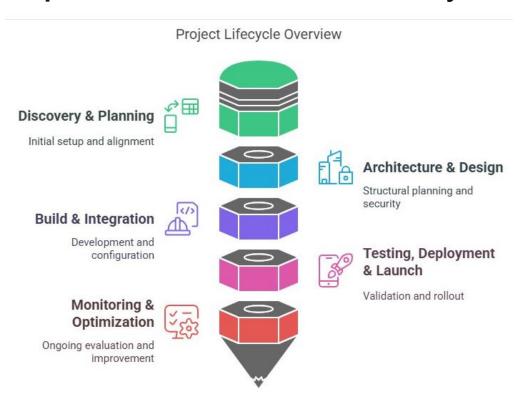
Made with > Napkin

ALM Broader Concepts



Useful Resources

Copilot Studio Governance and security Guide



aka.ms/mcs_sg

ALM With Microsoft Power Platfrom

Application lifecycle management (ALM) with Microsoft Power Platform

Learn how to implement application lifecycle management (ALM) using Microsoft Power Platform (Power Apps, Power Automate, Microsoft Dataverse, Microsoft Copilot Studio).

bout ALM with Power Platform	Understand and work with solutions	Implement healthy ALM
] OVERVIEW	⟨⊞⟩ CONCEPT	⟨≡⟩ CONCEPT
hat is ALM?	Solution concepts	Scenario 0: ALM for a new project
	Understand solution layers	Scenario 1: Citizen development ALM
CONCEPT	Use solutions to customize	Scenario 2: Moving from a single environment
M basics with Power Platform	Segment solutions	Scenario 3: Moving from unmanaged to managed solutions
		Scenario 4: Use DevOps for automation
REFERENCE		Scenario 5: Support team development
ools and apps used for ALM	ALM automation	Scenario 6: Embrace citizen developers
	図 OVERVIEW	
	Use Power Platform Build Tools for Azure DevOps	
or developers	Use GitHub Actions for Power Platform	Related docs
CONCEPT	Deploy solutions using pipelines	OVERVIEW
M for developers	CoE: Set up ALM Accelerator	Create apps in Power Apps
ork with solution components	CoE: Use ALM Accelerator	What is Microsoft Dataverse?
lution and packaging tools		Work with solutions
Manage solutions using custom code		Power Platform admin guide
		Power Platform Center of Excellence (CoE) Kit
		Best practices and guidance when using Microsoft

aka.ms/powerplatform/alm

How customers use ALM in their projects today

Enterprise customers like ABN AMRO Bank use ALM







About ABN AMRO Bank

To ensure dedication and client focus, ABN AMRO is organized into three client units:



One of the largest retail banks in The Netherlands, with over five million account holders. ABN AMRO also offer banking and payment services to around 350,000 small and medium-sized companies.



management and estate planning.

Corporate Banking ABN AMRO provides banking and advisory products and services to more than 9,000 corporate clients.

ABN AMRO is also one of the world's leading clearing banks.

About ABN AMRO Bank

ABN AMRO Bank serves clients primarily in the Netherlands and Northwest Europe.

Outside Europe, their Clearing operations maintain offices in Asia and the Americas.





Interaction at scale



7.000.000 Inbound calls



1.800.000
Outbound calls



400.000 Live Chats



88.000 Social media messages



235.000 Conversations via Video Banking



1.500.000

Automated summaries



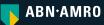
1.500.000

Conversations via IVR

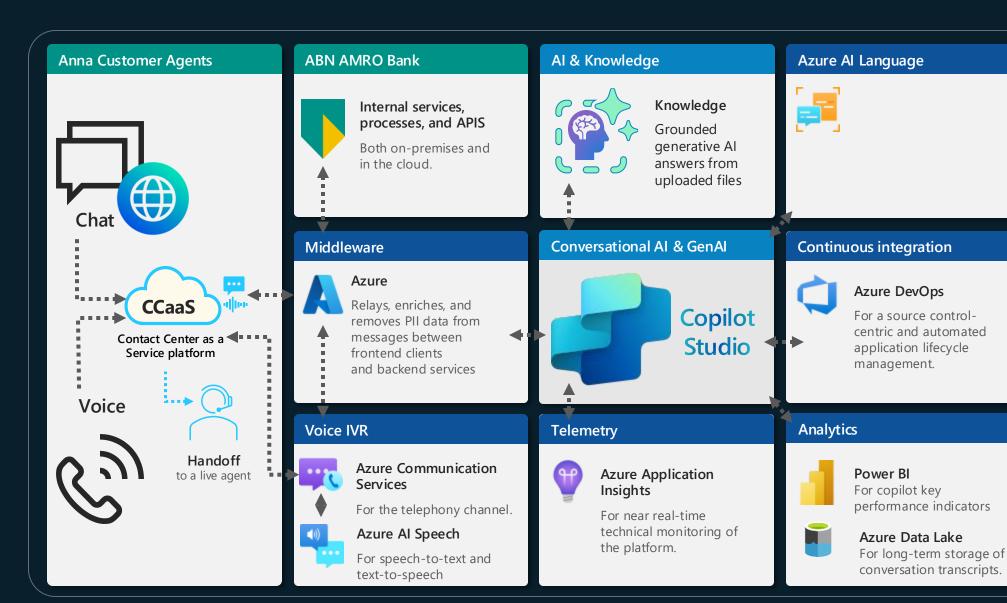


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Conversations via chatbot Anna

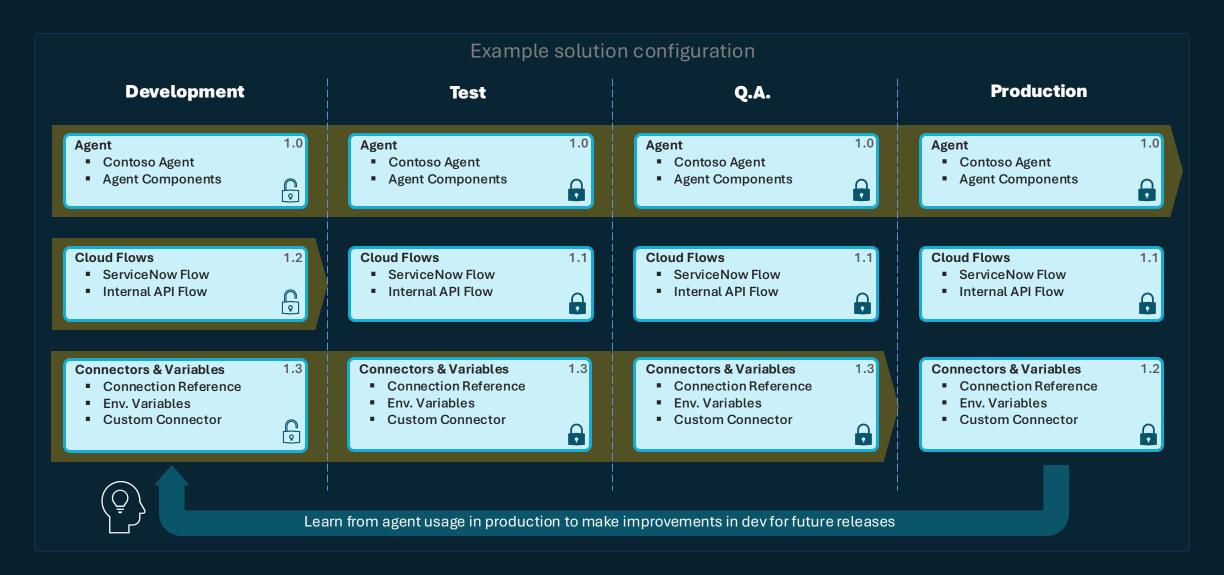


Technical overview



ALM for Copilot Studio

Application Lifecycle Management



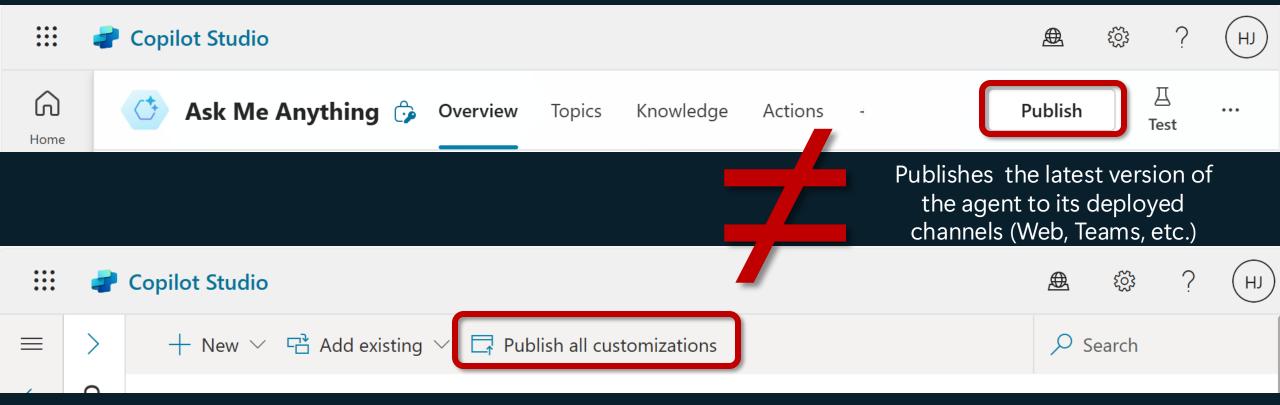
ALM Golden Rules



- ✓ Work in the context of solutions
- Create separate solutions only if you need to deploy components independently.
- Use a custom publisher and prefix.
- Use environment variables for settings and secrets that change across those.
- Export and deploy solutions as managed, unless setting up a dev environment.
- Don't do customizations outside of dev.
- Consider automating ALM for source control and automated deployments.

What 'Publish' really does in Copilot Studio

Publishing an agent in Copilot Studio and publishing customizations in a solution are not the same thing.



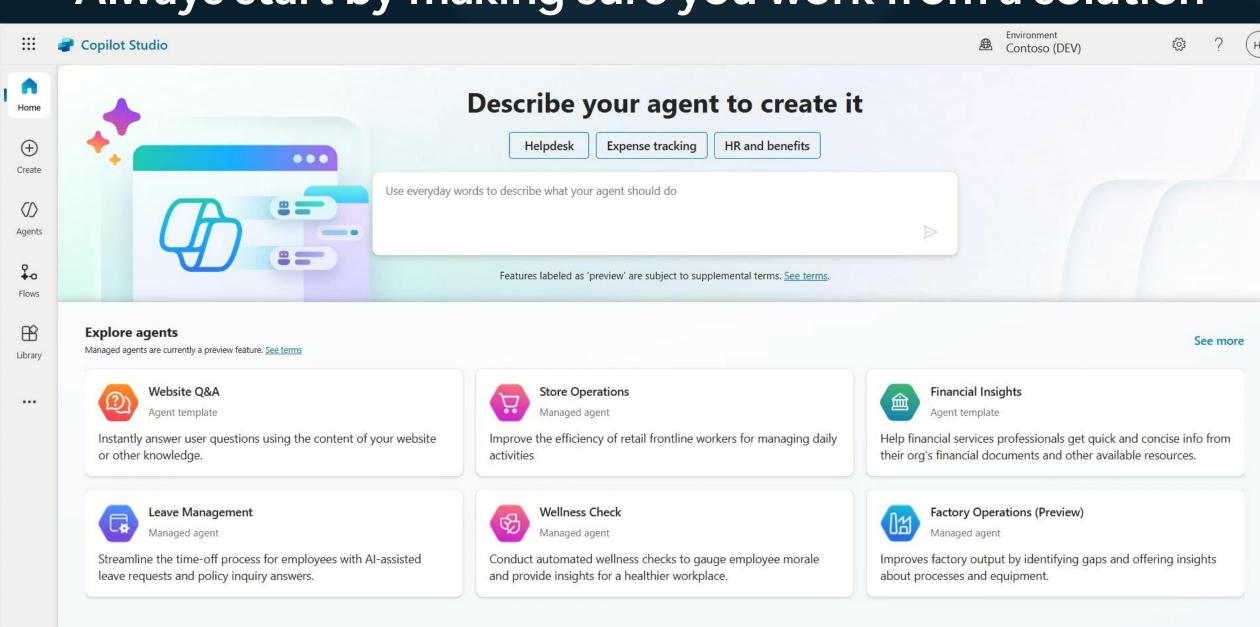
Publishes other Power Platform customizations, like Dataverse table changes

Copilot Studio-specific ALM considerations

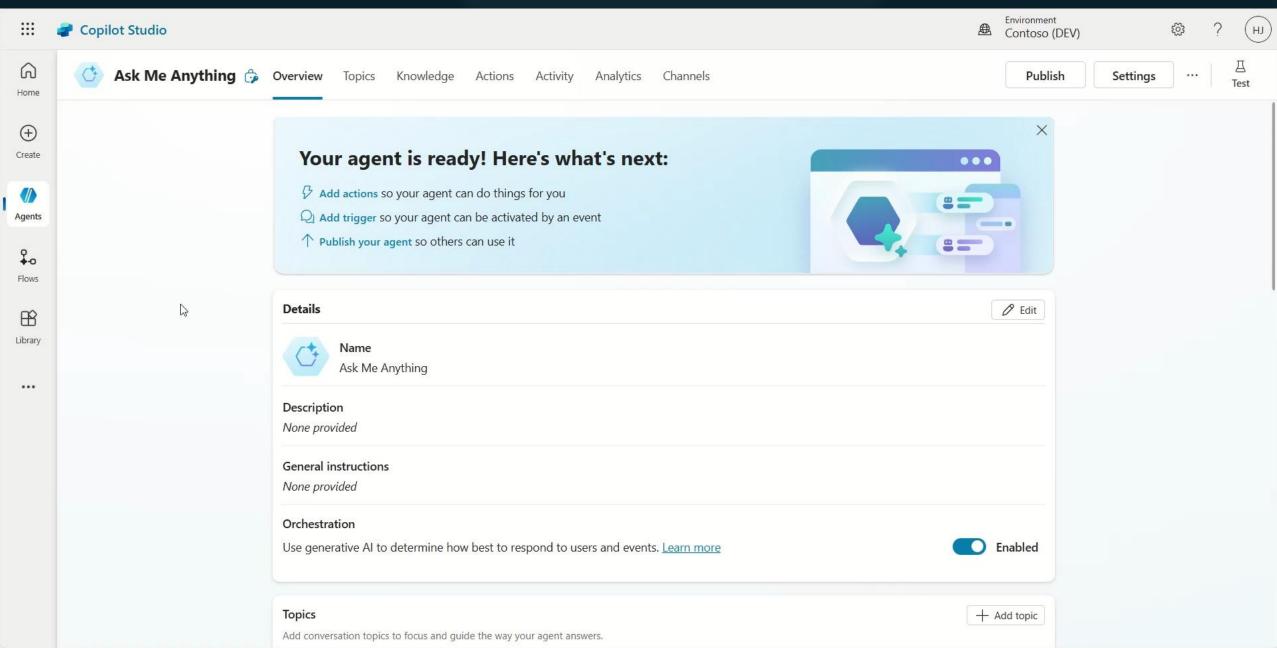
- There are a few specific settings in Copilot Studio that are not solution-aware.
- That means they don't follow normal solution deployment and require post-deployment steps on the downstream environment.
 - Azure Application Insights settings
 - Manual authentication settings
 - Direct Line / Web channel security settings
 - Deployed channels
 - Sharing (with other makers, or with end-users)

Getting started with solutions

Always start by making sure you work from a solution

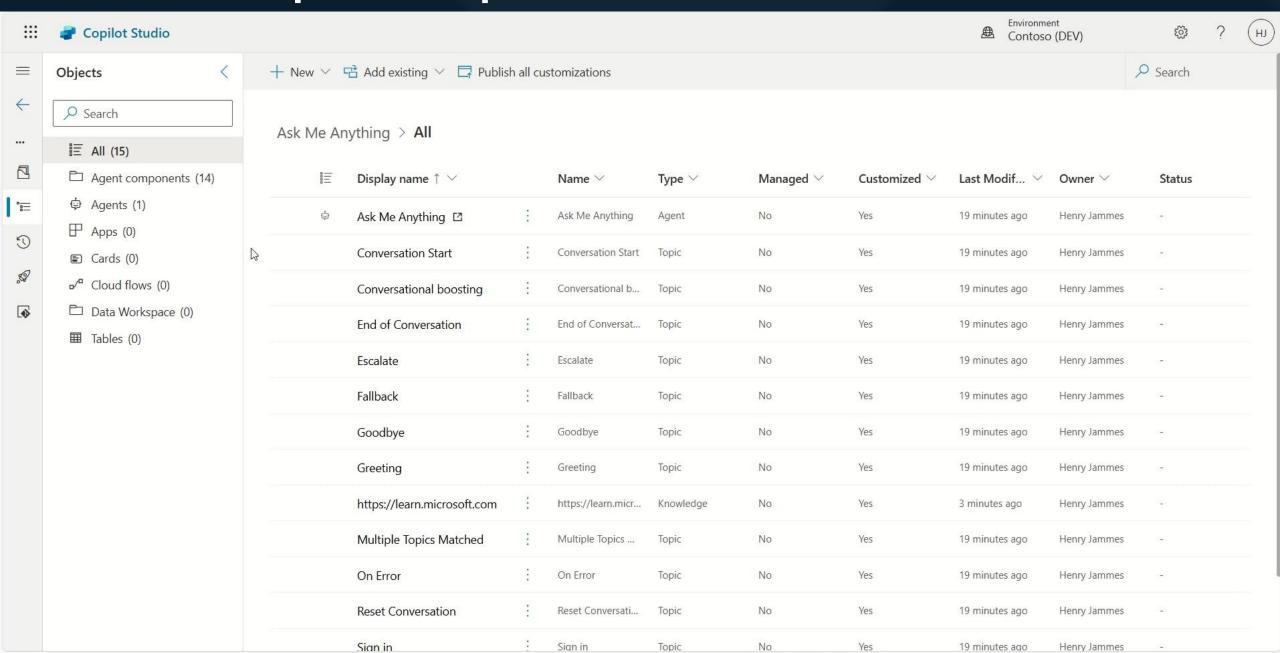


Tip: Make sure you don't forget anything

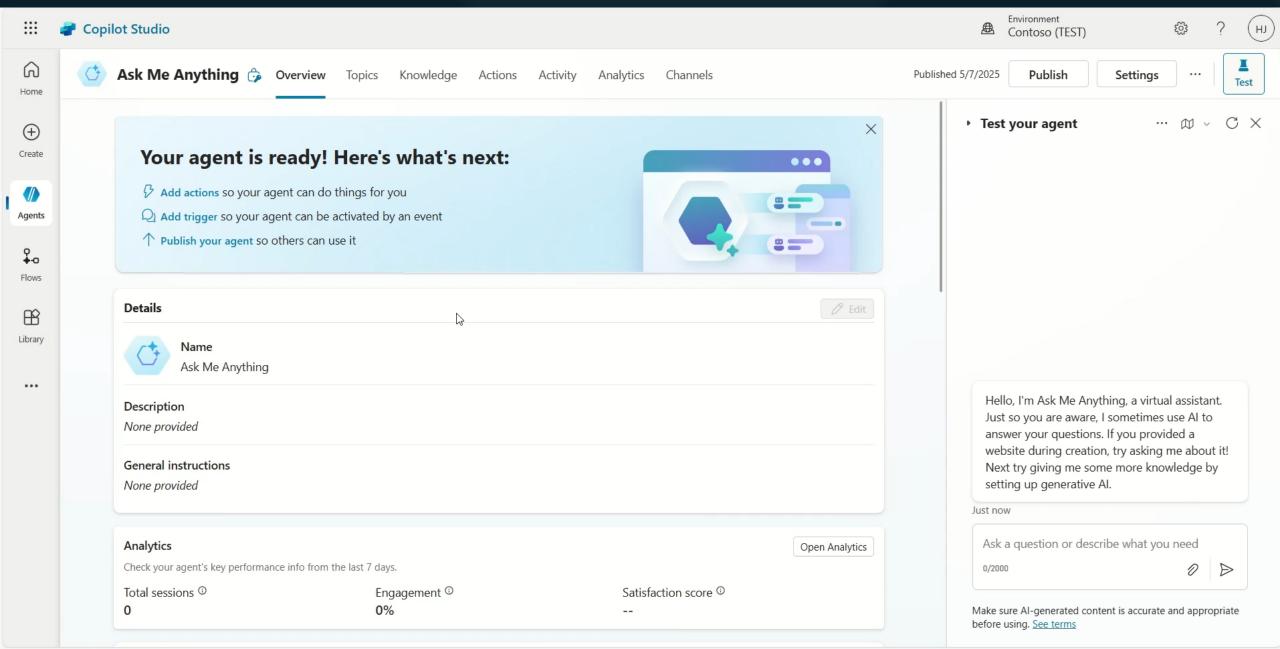


Manual deployments

Manual exports/imports between environments

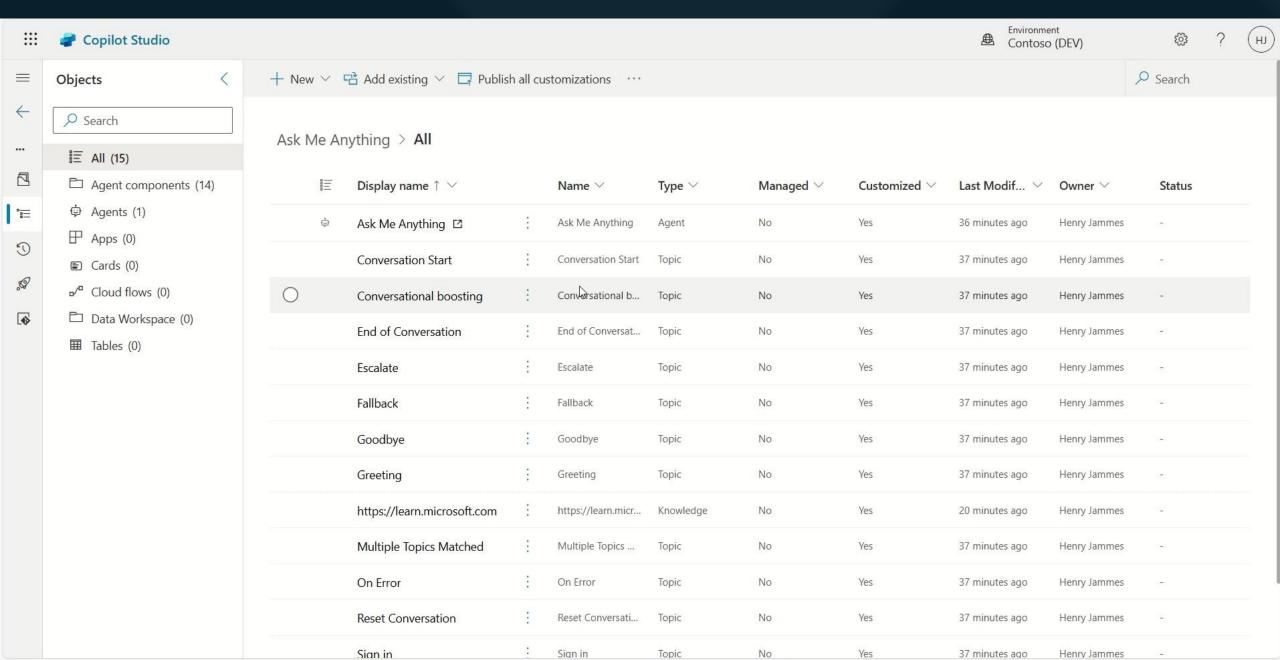


Because your agent is managed, you can't make changes

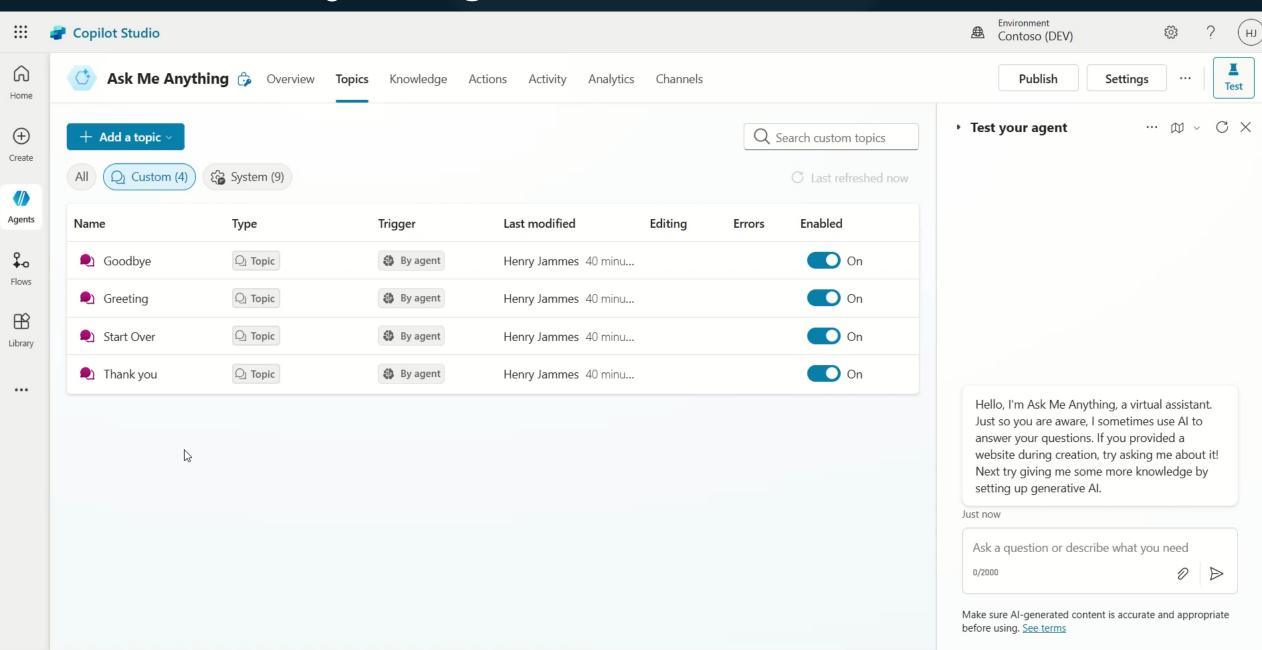


Making your agent ALM-ready

Add environment variables and connection references

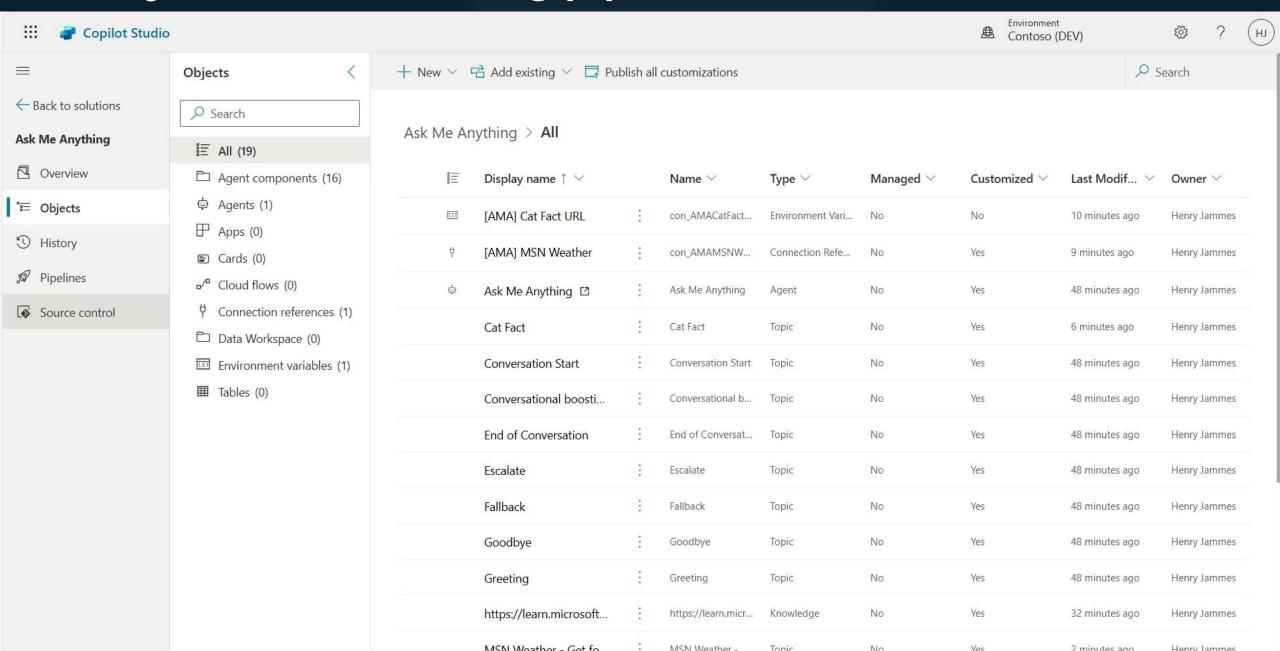


Use them in your agent



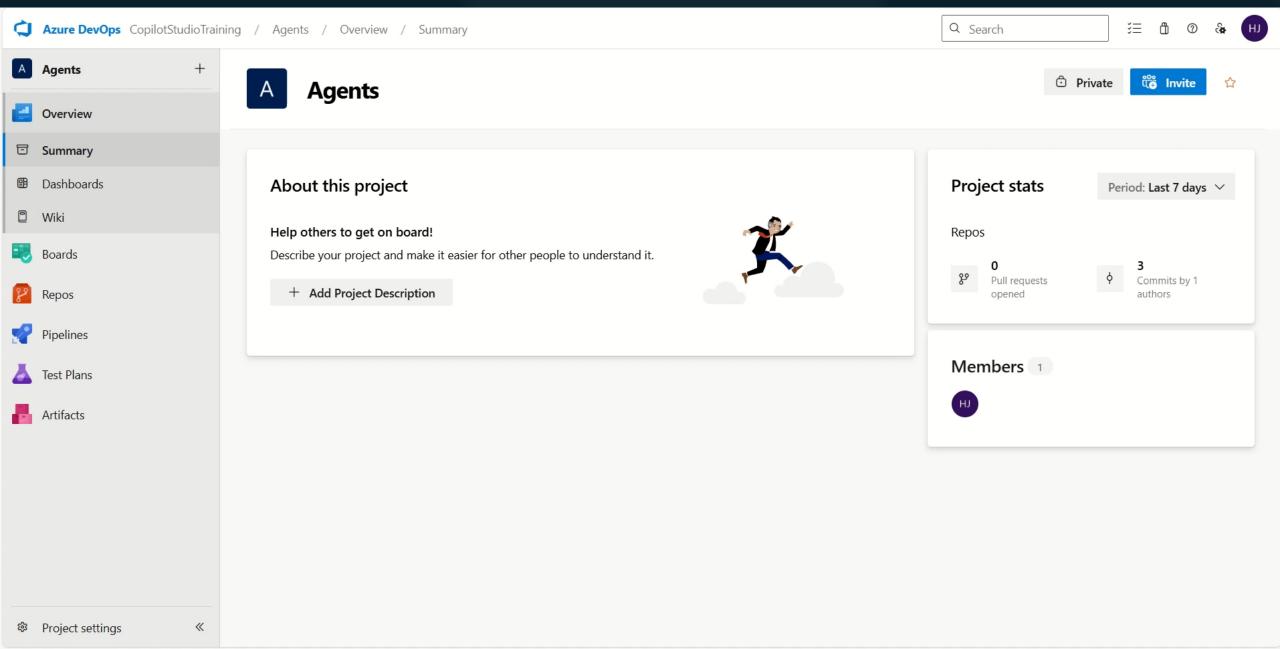
Use pipelines in Power Platform to automate deployments

Easy automation using pipelines in Power Platform



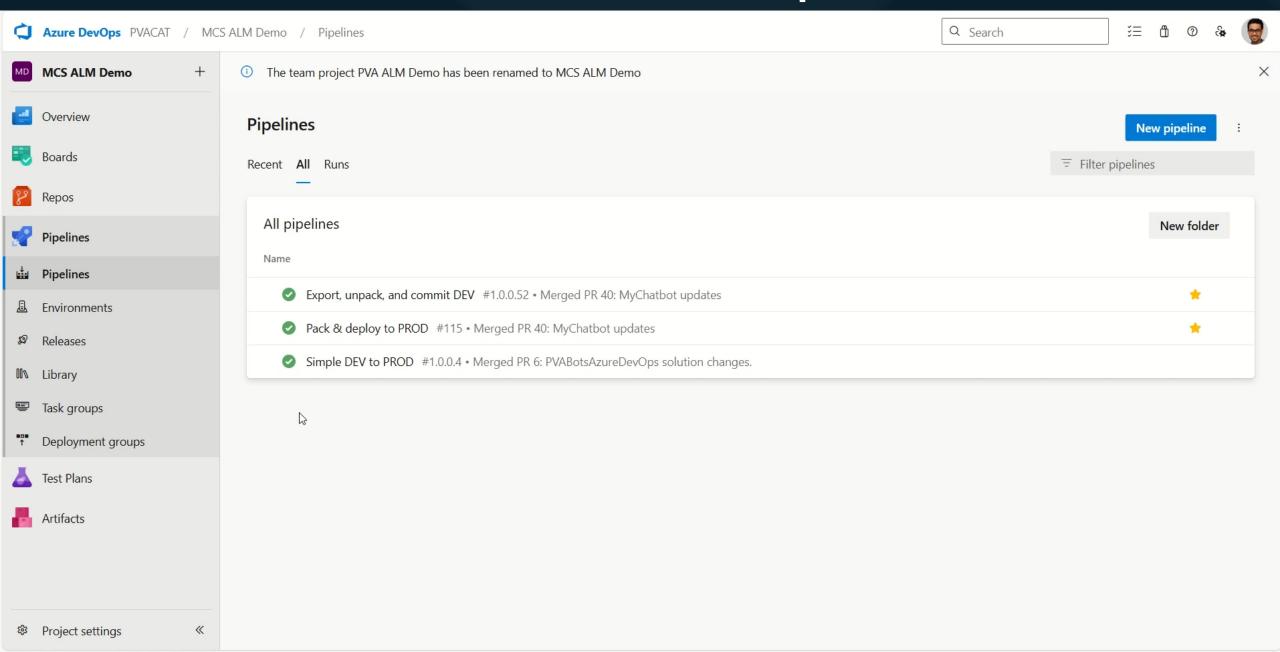


Simple source control with Git integration





Advanced CI/CD with Azure DevOps

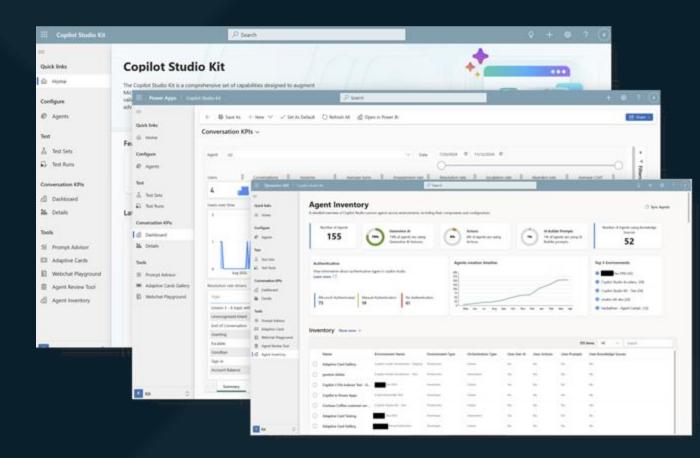


Automated testing with Copilot Studio Kit

Copilot Studio Kit

The **Copilot Studio Kit** is a comprehensive set of capabilities built for <u>Microsoft Copilot Studio</u>. The kit includes features such as

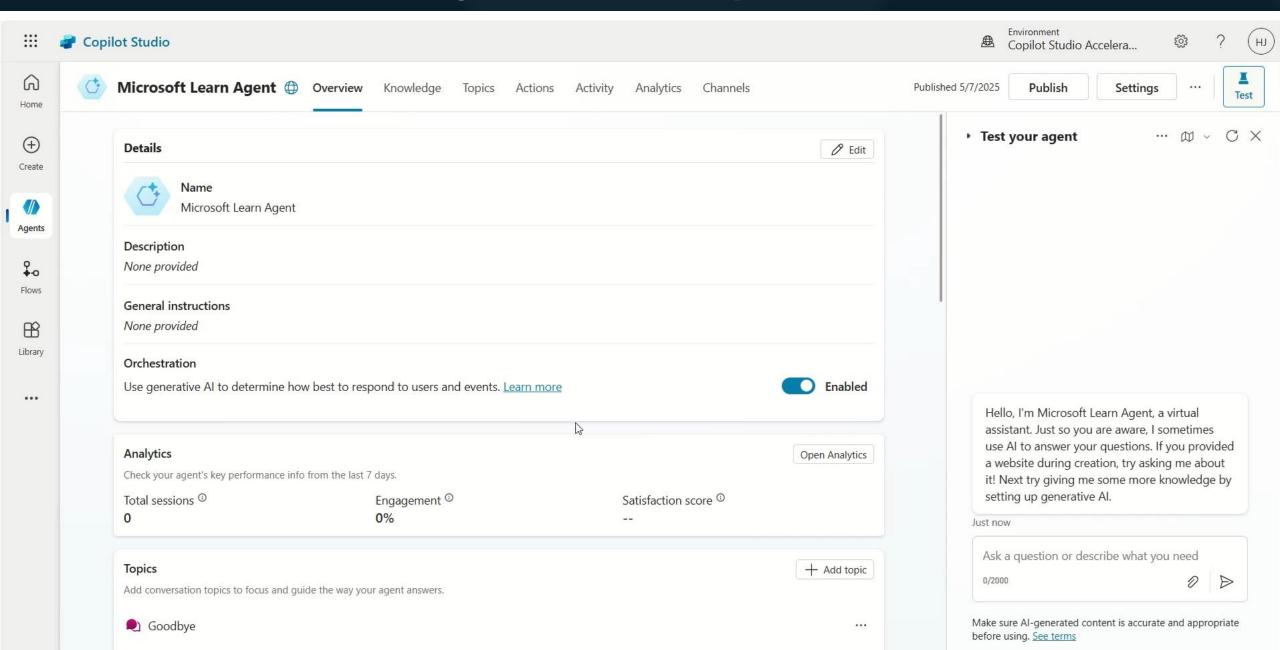
- **Conversation KPIs** Gain deeper insights into long-term agent performance with structured analytics.
- **Test Automation** Batch test custom agents with multiple validation methods.
- Agent Inventory Get tenant-wide visibility to all the Copilot Studio custom agents in the organization, across environments.
- **** Agent Review Tool** Static analysis of copilot studio agents from solution. Detecting anti-patterns and suggesting mitigation.
- SharePoint Synchronization Selectively synchronize knowledge from a SharePoint site as local knowledge of your custom agent.
- Webchat Playground Customize the look and feel of your webchat with an easy-to-use interface.
- ** Adaptive Cards Gallery Access a set of pre-built Adaptive Card templates for custom agents



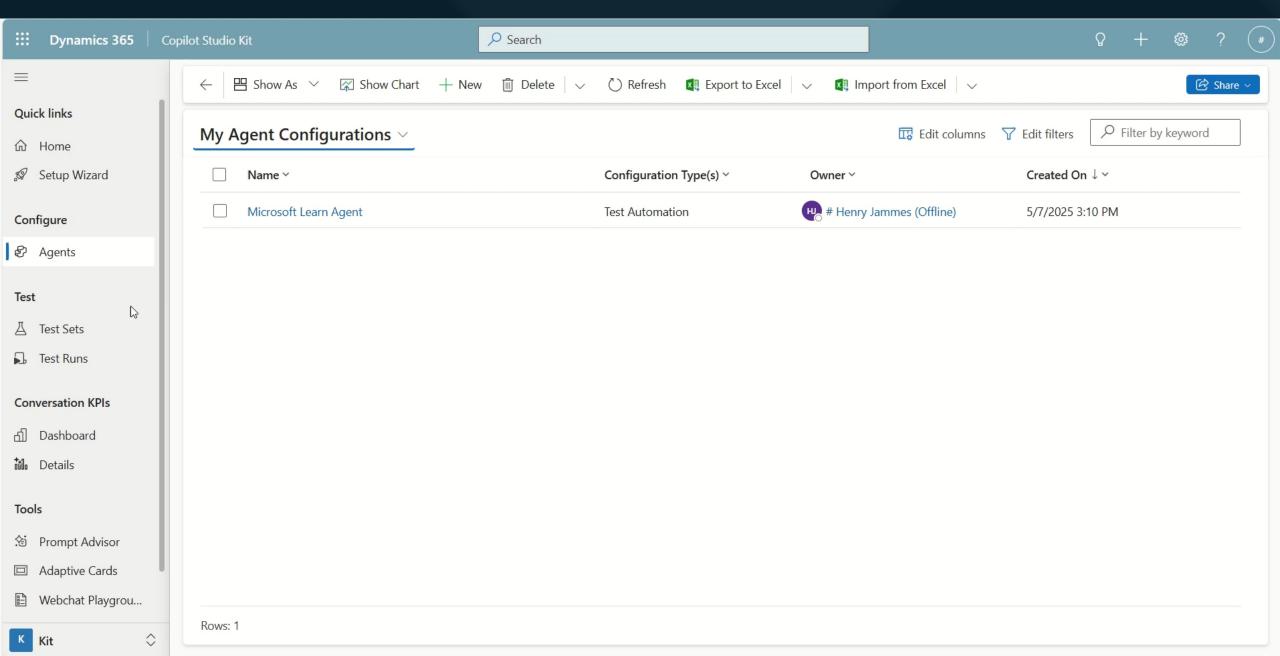
- → https://aka.ms/DownloadCopilotStudioKit (AppSource)
- https://aka.ms/CopilotStudioKit (GitHub + Docs)



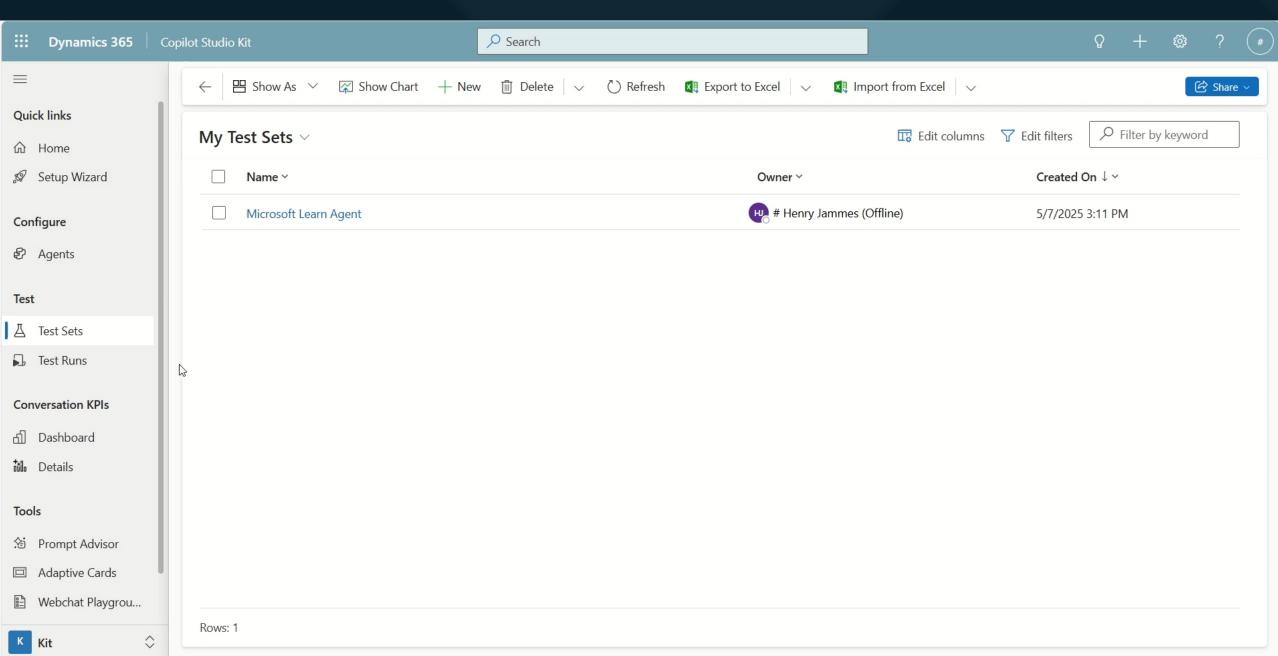
Automated testing with the Copilot Studio Kit



Create test sets

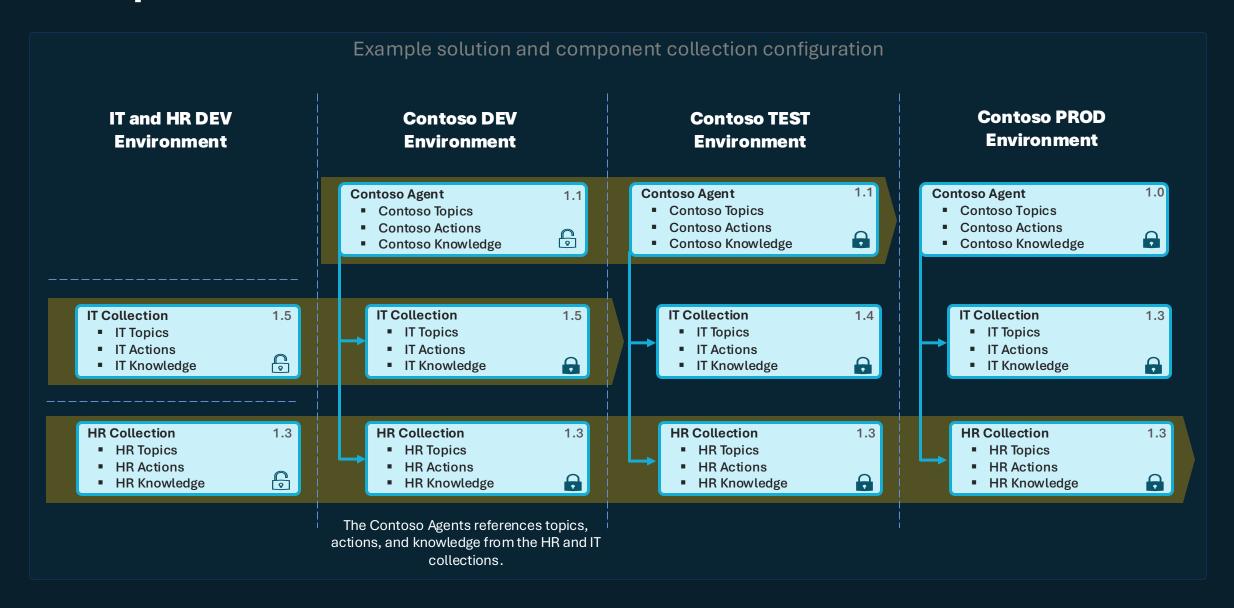


Run tests

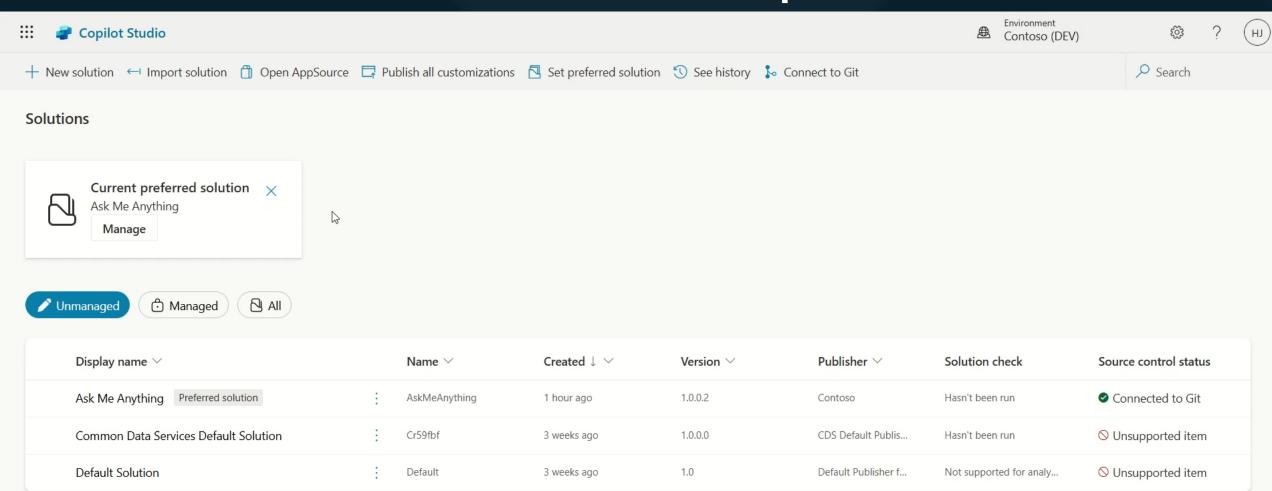


Create re-usable assets across agents and environments so that multiple dev teams can work on different parts of an agent

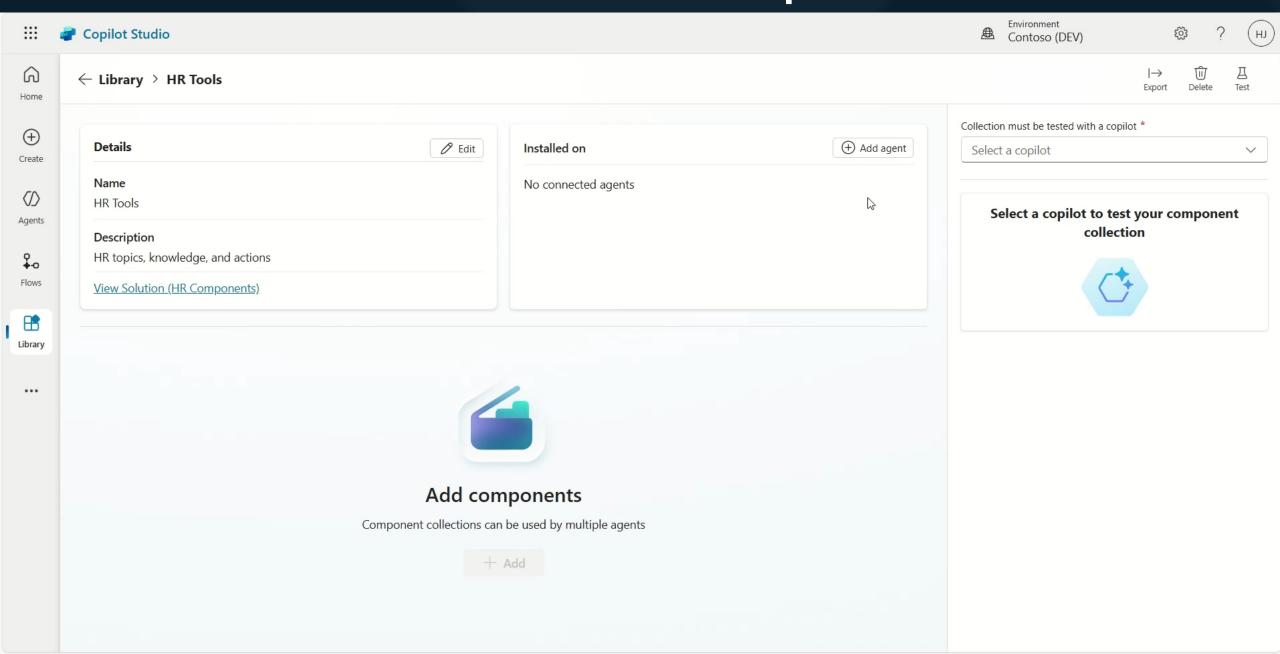
Component collections



Multi-dev collaboration with component collections



Multi-dev collaboration with component collections



Thank you for participating!

