

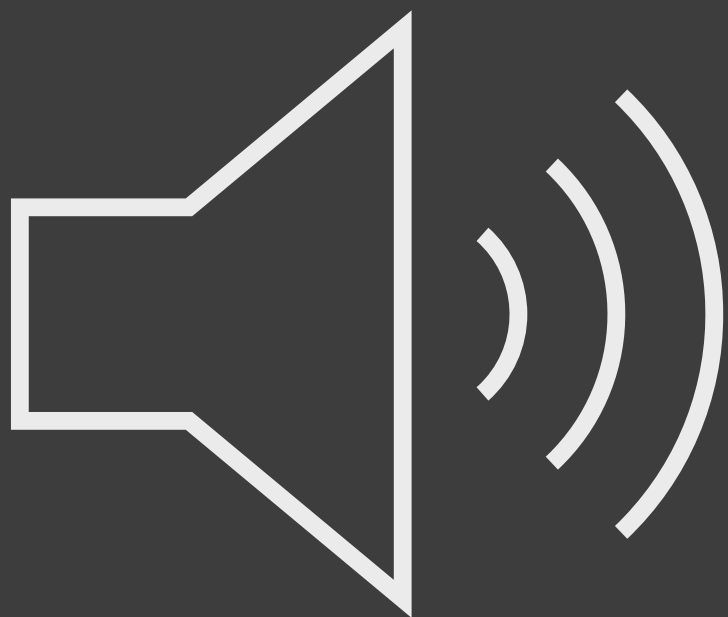
# MICROSOFT DATAVERSE:

---

EVERYTHING,  
EVERYWHERE,  
HERE AND THERE

---

**Charles Lakes**  
Creative Solution Architect



1



2



# Microsoft 365 Saturday DC

A Community Day Event

## Thank You to Our Partners!

### Platinum



### Gold



### Silver





# Microsoft 365 Saturday DC

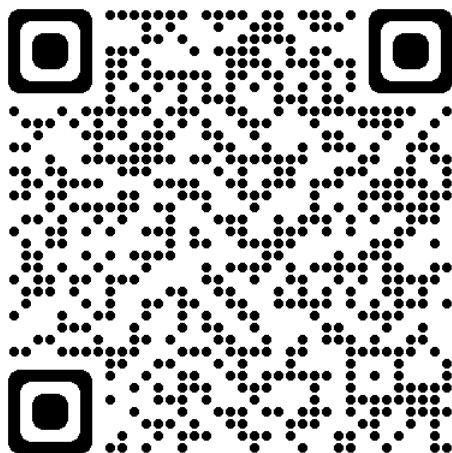
A Community Day Event

## Non-Profit Partner Organization



computer core

<https://www.computercore.org/>



## Community Partners

**M365 User Group of DC**

<https://www.meetup.com/m365dc/>

**Power BI DC**

<https://aka.ms/PowerBIDC>

**Washington DC Power Platform User Group**

<https://aka.ms/PowerPlatformDC>

**Tri State Office 365 User Group**

<https://www.meetup.com/TSSPUG/>

- Blogger
- Speaker
- Developer
- Middle-child



[github.com /losodamus](https://github.com/losodamus)

ABOUT ME

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# OBJECTIVES

- ❑ Learning about low-code.
- ❑ Learning about the Power Platform.
- ❑ Learning about Microsoft Dataverse.
- ❑ Learning about security.
- ❑ Learning about governance.

# LOW-CODE

- ❑ Developer Deficit
- ❑ General Purpose
- ❑ Browser IDE

# LOW-CODE



Forbes

<https://www.forbes.com/sites/forbestechcouncil/...>

## Is There A Developer Shortage? Yes, But The Problem Is ...



Web Jun 8, 2021 · According to U.S. Labor statistics, as of December 2020, the global talent **shortage** amounted to 40 million skilled workers worldwide. By 2030, the global talent **shortage** is expected to reach...

**Author:** Tigran Sloyan

EXPLORE FURTHER

- |  |                                |
|--|--------------------------------|
| I'm so sick of <b>hearing about a "programmer shortage"</b> in the US.   | <a href="#">reddit.com</a>     |
| The State of the Developer Shortage in 2023                              | <a href="#">developers.net</a> |
| The State of Developer Shortage in 2022 - CodeSubmit Blog                | <a href="#">codesubmit.io</a>  |
| The Software Developer Is Dead: Long Live The Software ...               | <a href="#">forbes.com</a>     |
| <b>Gartner</b> Survey Reveals Talent Shortages as Biggest Barrier to ... | <a href="#">gartner.com</a>    |

Recommended to you based on what's popular • Feedback

- ✓ Developer Deficit
- General Purpose
- Browser IDE



# LOW-CODE

From Wikipedia, the free encyclopedia

In [computer software](#), a **general-purpose programming language (GPL)** is a [programming language](#) for building [software](#) in a wide variety of application [domains](#). Conversely, a [domain-specific programming language](#) (DSL) is used within a specific area. For example, [Python](#) is a GPL, while [SQL](#) is a DSL for [querying relational databases](#).

- ✓ Developer Deficit
- ✓ General Purpose
- ❑ Browser IDE

# LOW-CODE

## Visual Studio Code for the Web

 Edit

Visual Studio Code for the Web provides a free, zero-install Microsoft Visual Studio Code experience running entirely in your browser, allowing you to quickly and safely browse source code repositories and make lightweight code changes. To get started, go to <https://vscode.dev> in your browser.

VS Code for the Web has many of the features of VS Code Desktop that you love, including search and syntax highlighting while browsing and editing, along with extension support to work on your codebase and make simpler edits. In addition to opening repositories, forks, and pull requests from source control providers like GitHub and Azure Repos, you can also work with code that is stored on your local machine.

VS Code for the Web runs entirely in your web browser, so there are certain limitations compared to the desktop experience, which you can read more about [below](#).

- ✓ Developer Deficit
- ✓ General Purpose
- ✓ Browser IDE

# POWER PLATFORM

- ❑ Power BI
- ❑ Power Apps
- ❑ Power Automate
- ❑ Power Virtual Agents
- ❑ Power Pages

# POWER PLATFORM



**Power BI**  
Business analytics



**Power Apps**  
App development



**Power Automate**  
Process automation



**Power Virtual Agents**  
Intelligent virtual agents



**Power Pages**  
External-facing  
websites

- ❑ Power BI
- ❑ Power Apps
- ❑ Power Automate
- ❑ Power Virtual Agents
- ❑ Power Pages

# POWER PLATFORM



**Power BI**  
Business analytics

- ✓ Power BI
- ☐ Power Apps
- ☐ Power Automate
- ☐ Power Virtual Agents
- ☐ Power Pages

# POWER PLATFORM



**Power Apps**  
App development

- ✓ Power BI
- ✓ Power Apps
- ☐ Power Automate
- ☐ Power Virtual Agents
- ☐ Power Pages

# POWER PLATFORM



**Power Automate**  
Process automation

- ✓ Power BI
- ✓ Power Apps
- ✓ Power Automate
- ☐ Power Virtual Agents
- ☐ Power Pages

# POWER PLATFORM



## **Power Virtual Agents**

Intelligent virtual agents

- ✓ Power BI
- ✓ Power Apps
- ✓ Power Automate
- ✓ Power Virtual Agents
- ☐ Power Pages



# POWER PLATFORM



## **Power Pages**

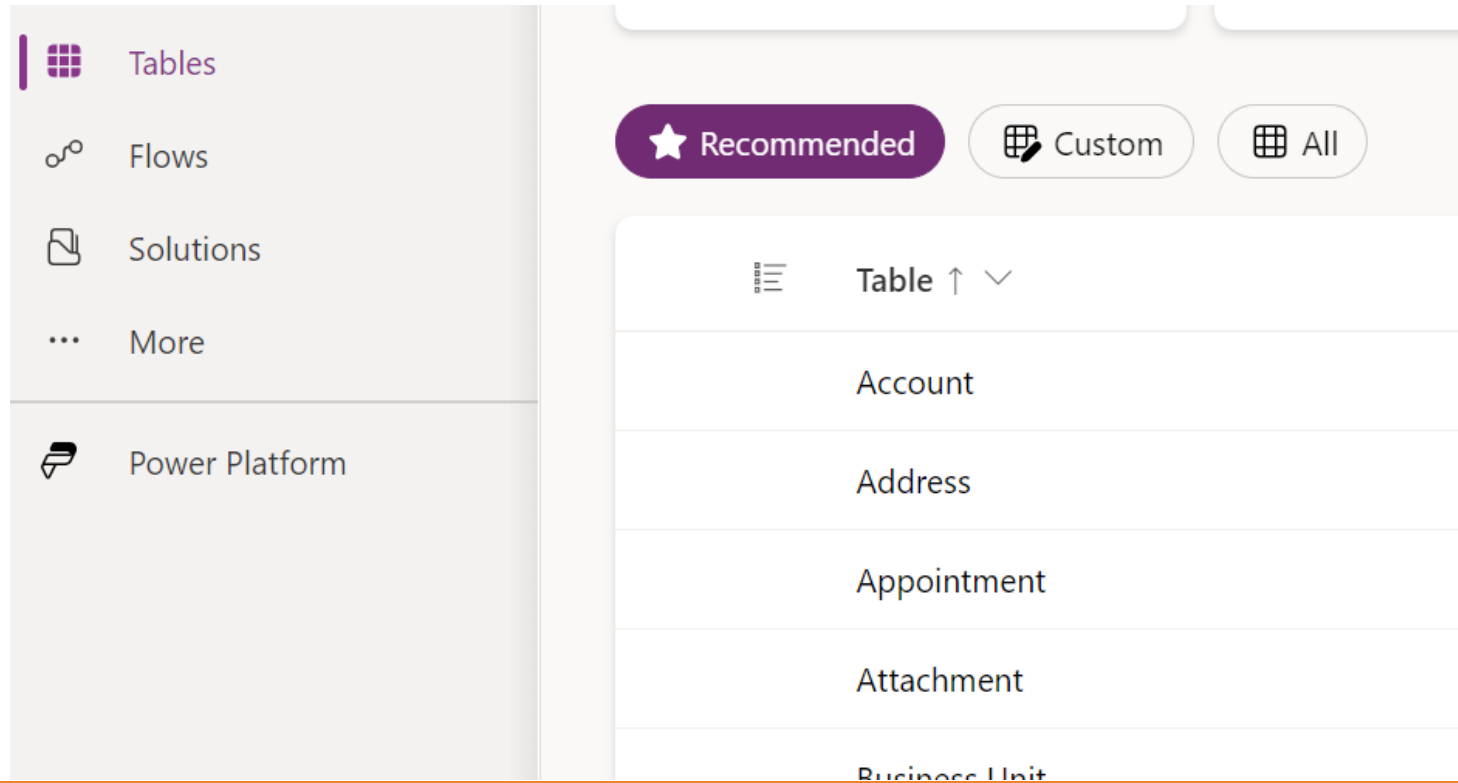
External-facing  
websites

- ✓ Power BI
- ✓ Power Apps
- ✓ Power Automate
- ✓ Power Virtual Agents
- ✓ Power Pages

# DATAVERSE

- ❑ Common Data Entities
- ❑ Relational Database
- ❑ Data Flows
- ❑ Power Query

# DATAVERSE



- ✓ Common Data Entities
- ❑ Relational Database
- ❑ Data Flows
- ❑ Power Query

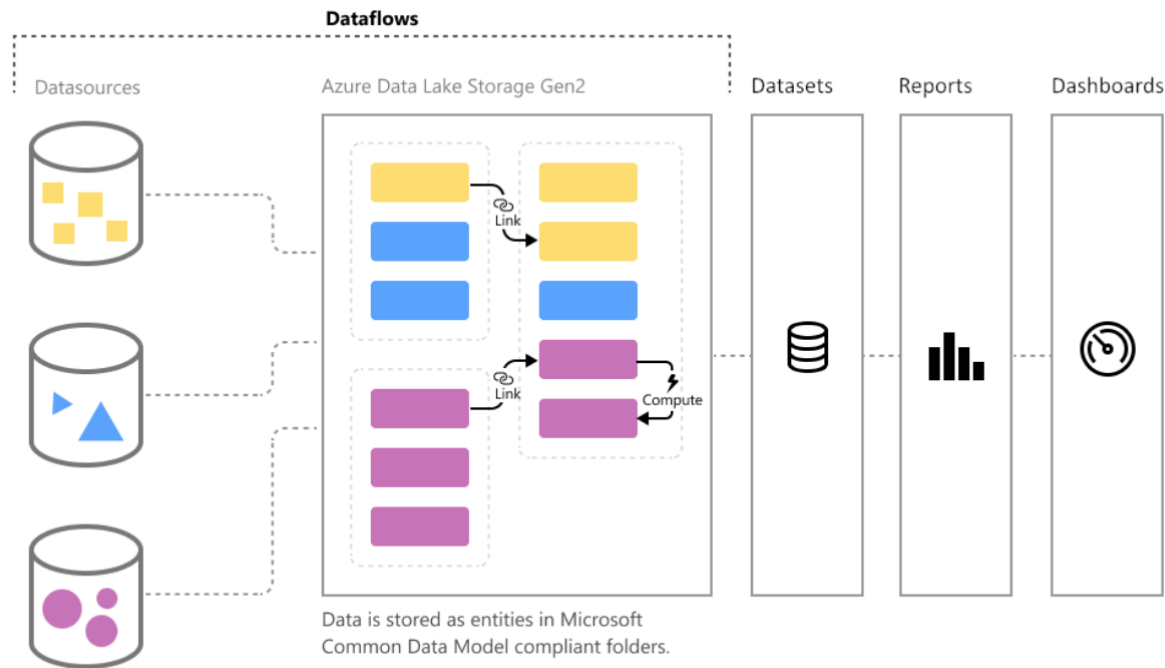
# DATAVERSE

> Account > Relationships ▾

Display name ↓ ▾		Name ▾	Related table ▾	Relationshi... ▾
Senders Account	⋮	Account_Email_SendersAccount	Email	One-to-many
Sender	⋮	Account_Email_EmailSender	Email	One-to-many
RegardingObjectId	⋮	account_PostRoles	Post Role	One-to-many
RegardingObjectId	⋮	account_PostRegardings	Post Regarding	One-to-many

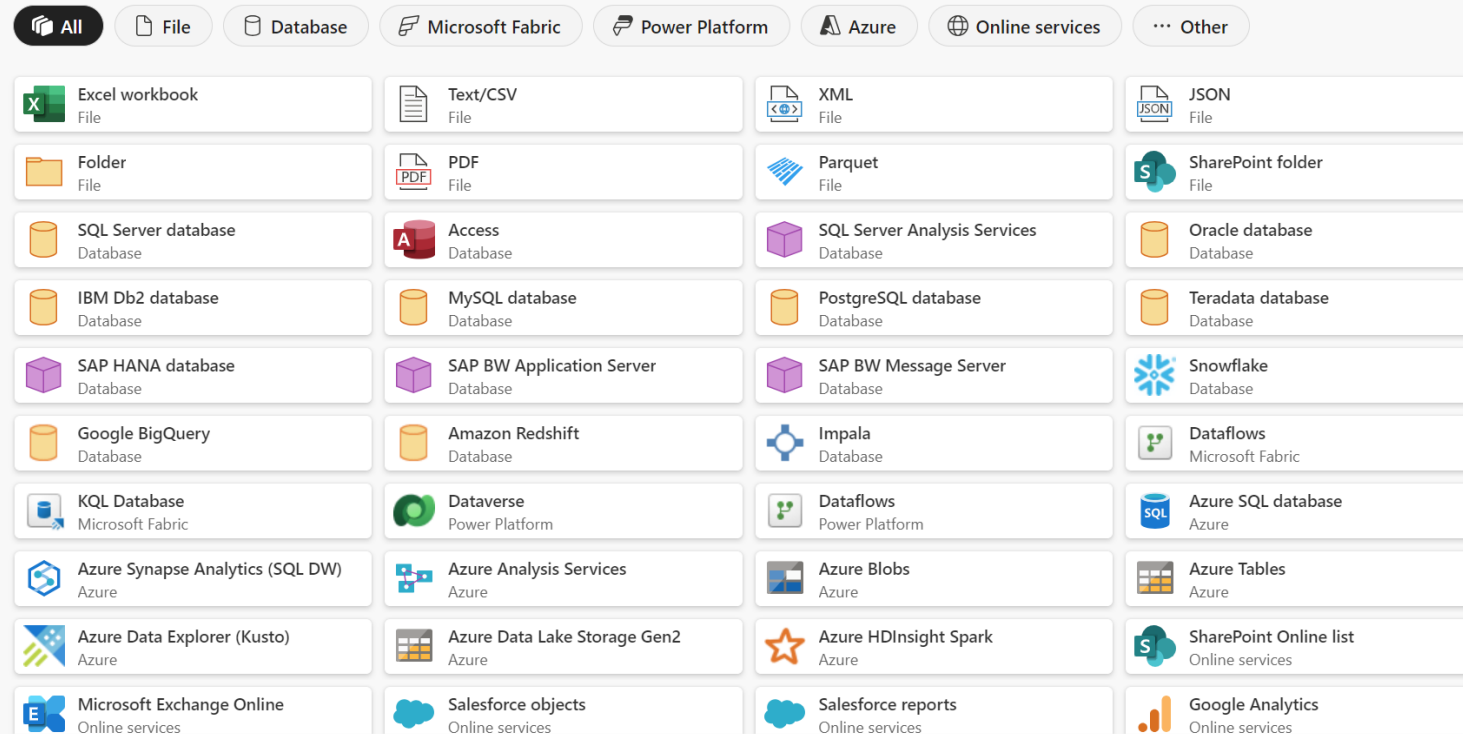
- ✓ Common Data Entities
- ✓ Relational Database
- ☐ Data Flows
- ☐ Power Query

# DATAVERSE



- ✓ Common Data Entities
- ✓ Relational Database
- ✓ Data Flows
- ❑ Power Query

# DATAVERSE



- ✓ Common Data Entities
- ✓ Relational Database
- ✓ Data Flows
- ✓ Power Query


# SECURITY

- ❑ Environments
- ❑ Entra ID
- ❑ Security Roles
- ❑ Geo Regions

# SECURITY

## New environment



 This operation is subject to [capacity constraints](#)

Name \*

Choose a name

Region \*

United States - Default



A local region can provide quicker data access

- ✓ Environments
- ☐ Entra ID
- ☐ Security Roles
- ☐ Geo Regions



# SECURITY

Microsoft Power Platform is cloud-based software as a service (SaaS) solution that is available from within a Microsoft Entra ID tenant. Microsoft Power Platform is licensed through Microsoft 365 and secured by Microsoft Entra ID. Microsoft Power Platform runs on Microsoft Azure; therefore, it's highly scalable and available globally.

- ✓ Environments
- ✓ Entra ID
- ❑ Security Roles
- ❑ Geo Regions

# SECURITY

Role ↑		Business unit	Managed
AIB Roles	...	orgda13f916	Yes
AIB SML Roles	...	orgda13f916	Yes
App Deployment Orchestration Role	...	orgda13f916	Yes
App Opener	...	orgda13f916	Yes
Async ingestion	...	orgda13f916	Yes
Basic User	...	orgda13f916	Yes
BizQAApp	...	orgda13f916	Yes
Bot Author	...	orgda13f916	Yes
Bot Contributor	...	orgda13f916	Yes
Bot Transcript Viewer	...	orgda13f916	Yes
Bulk Archival Role	...	orgda13f916	Yes
BusinessApplicationPlatformRole	...	orgda13f916	Yes

- ✓ Environments
- ✓ Entra ID
- ✓ Security Roles
- ❑ Geo Regions

# SECURITY



- ✓ Environments
- ✓ Entra ID
- ✓ Security Roles
- ✓ Geo Regions

# GOVERNANCE

- ❑ Auditing
- ❑ Application Lifecycle Management
- ❑ Data Loss Prevention

# GOVERNANCE

## Auditing

Manage logging for Dataverse data

☐ Start Auditing

☐ Log access ⓘ

☐ Read logs ⓘ

## Retain these logs for

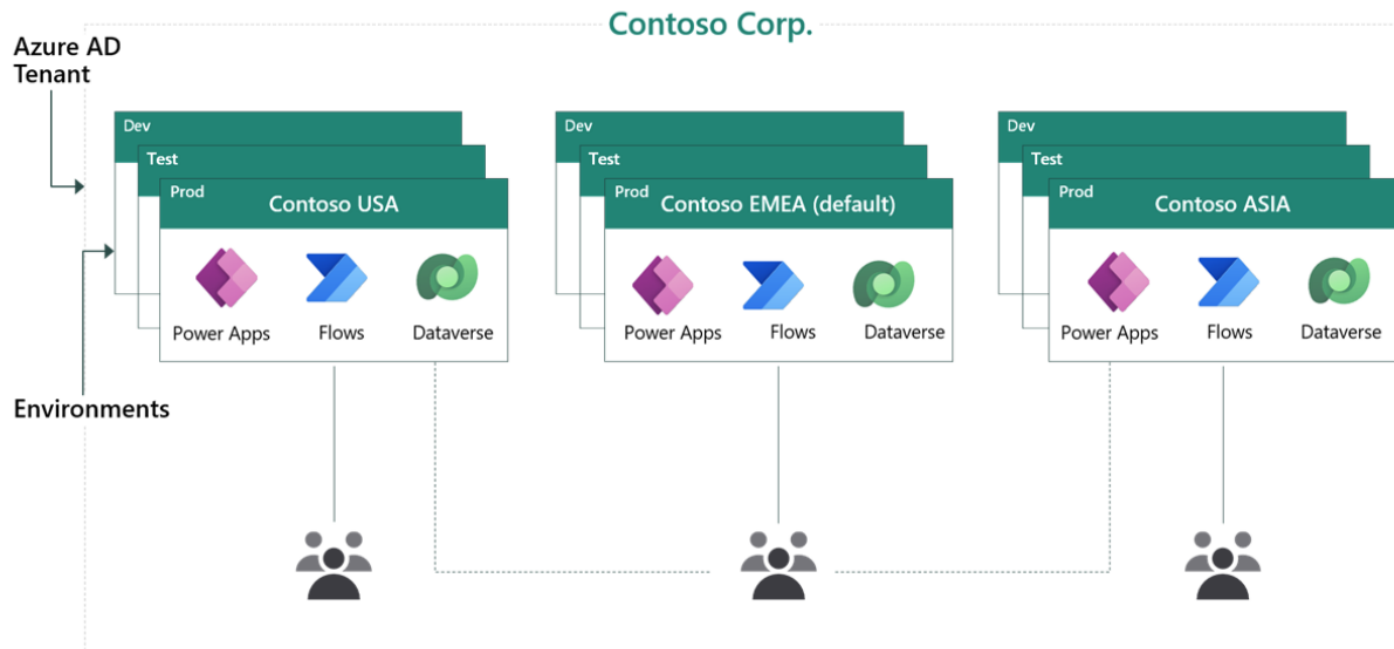
Set the retention policy for these logs, after which they'll be deleted.

Forever



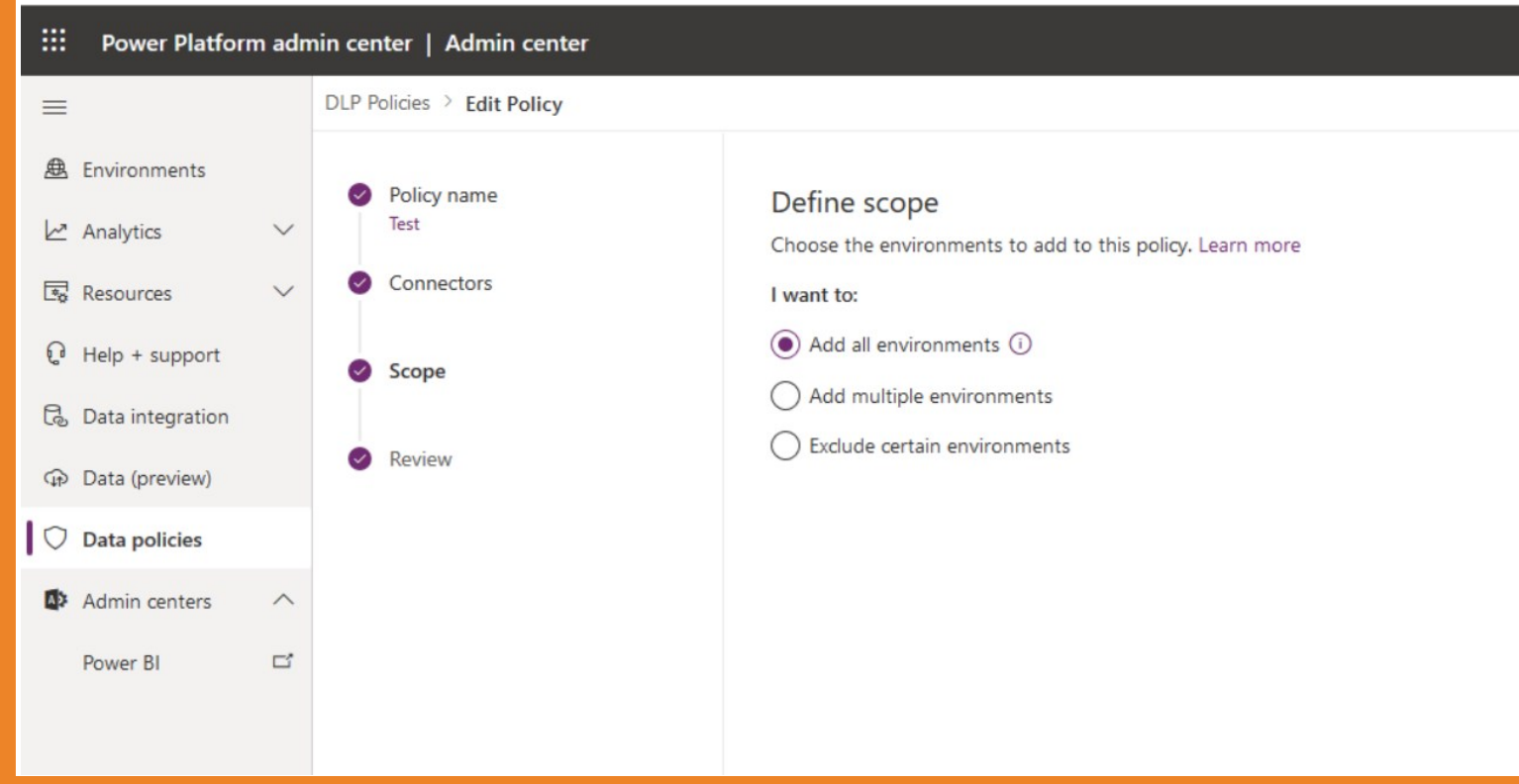
- ✓ Auditing
- ☐ Application Lifecycle Management
- ☐ Data Loss Prevention

# GOVERNANCE



- ✓ Auditing
- ✓ Application Lifecycle Management
- Data Loss Prevention

# GOVERNANCE



- ✓ Auditing
- ✓ Application Lifecycle Management
- ✓ Data Loss Prevention

# RECAP

- ☑ Low-code is...
- ☑ The Power Platform is...
- ☑ Microsoft Dataverse...
- ☑ Security for Dataverse is...
- ☑ Governance for Dataverse is...





QUESTIONS





## TELL US WHAT YOU THINK!

### SESSION FEEDBACK



<https://forms.office.com/r/HZEbYfuXZp>

### OVERALL EVENT FEEDBACK



<https://forms.office.com/r/JyfDPXaEcy>

ALL DIGITAL SURVEY RESPONSE ARE ANONYMOUS



THANK YOU!

