

# Microsoft Dataverse:

Everything, Everywhere, Here and There

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**Charles Lakes**

*Creative Solution Architect*

# Memphis Microsoft Community Days



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# About Me:

Developer

Speaker

Blogger

Middle-child

# Objectives:

Learning about low-code.

Learning about storage.

Learning about security.

Learning about governance.

# Low-Code

- ❑ Developer Deficit
- ❑ General Purpose
- ❑ Browser UX

# 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 **hearing about a "programmer shortage"** in the US.

[reddit.com](#)



The State of the Developer Shortage in 2023

[developers.net](#)



The State of Developer Shortage in 2022 - CodeSubmit Blog

[codesubmit.io](#)



The Software Developer Is Dead: Long Live The Software ...

[forbes.com](#)



**Gartner** Survey Reveals Talent Shortages as Biggest Barrier to ...

[gartner.com](#)

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Developer Deficit



General Purpose



Browser UX

# 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 UX

# 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 UX





# Storage

- ☐ Power BI
- ☐ Power Apps
- ☐ Power Automate
- ☐ Power Pages

# Storage



- ☐ Power BI
- ☐ Power Apps
- ☐ Power Automate
- ☐ Power Pages



Power Apps

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Environment

The II Lakes Group, LLC ...

New table

Import

Export

Analyze

Search

Tables

Describe the new table

Create with SharePoint list

PREVIEW

Create with Excel or .CSV file

Start with a blank table


★ Recommended


Custom

All


	Table ↑		Name	Type	Managed	Customized	Customizable	Tags
	Account		account	Standard	Yes	No	Yes	Core
	Address		customeraddress	Standard	Yes	No	Yes	Standard
	Appointment		appointment	Activity	Yes	No	Yes	Productivity
	Attachment		activitymimeatta...	Standard	Yes	No	Yes	Productivity
	Business Unit		businessunit	Standard	Yes	No	Yes	Standard
	Contact		contact	Standard	Yes	No	Yes	Core
	Currency		transactioncurre...	Standard	Yes	No	Yes	Standard
	Email		email	Activity	Yes	No	Yes	Productivity
	Email Template		template	Standard	Yes	No	Yes	Standard


## Tables

 Describe the new table

 Create with SharePoint list

PREVIEW

 Create with Excel or .CSV file

 Start with a blank table

★ Recommended

Custom

All

	Table ↑ ▼		Name ▼	Type ▼	Managed ▼	Customized ▼	Customizable ▼	Tags ▼
	Account	⋮	account	Standard	Yes	No	Yes	Core
	Address	⋮	customeraddress	Standard	Yes	No	Yes	Standard
	Appointment	⋮	appointment	Activity	Yes	No	Yes	Productivity
	Attachment	⋮	activitymimeatta...	Standard	Yes	No	Yes	Productivity
	Business Unit	⋮	businessunit	Standard	Yes	No	Yes	Standard
	Contact	⋮	contact	Standard	Yes	No	Yes	Core
	Currency	⋮	transactioncurre...	Standard	Yes	No	Yes	Standard
	Email	⋮	email	Activity	Yes	No	Yes	Productivity
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	Appointment		appointment	Activity	Yes	No	Yes	Productivity
	Attachment		activitymimeatta...	Standard	Yes	No	Yes	Productivity
	Business Unit		businessunit	Standard	Yes	No	Yes	Standard
	Contact		contact	Standard	Yes	No	Yes	Core
	Currency		transactioncurre...	Standard	Yes	No	Yes	Standard
	Email		email	Activity	Yes	No	Yes	Productivity
	Email Template		template	Standard	Yes	No	Yes	Standard


## Tables

 Describe the new table










 Create with SharePoint list

PREVIEW

 Create with Excel or .CSV file

 Start with a blank table

- ★ Recommended
-  Custom
-  All

 Table ↑ ▼		Name ▼	Type ▼	Managed ▼	Customized ▼	Customizable ▼	Tags ▼
Account		account	Standard	Yes	No	Yes	Core
Address		customeraddress	Standard	Yes	No	Yes	Standard
Appointment		appointment	Activity	Yes	No	Yes	Productivity
Attachment		activitymimeatta...	Standard	Yes	No	Yes	Productivity
Business Unit		businessunit	Standard	Yes	No	Yes	Standard
Contact		contact	Standard	Yes	No	Yes	Core
Currency		transactioncurre...	Standard	Yes	No	Yes	Standard
Email		email	Activity	Yes	No	Yes	Productivity
Email Template		template	Standard	Yes	No	Yes	Standard

Tables &gt; Appointment

### Table properties

⚙ Properties  ▾

Name

### Primary column

## Appointment

Subject

Type

Last modified

## Activity

2 years ago

## Schema ⓘ

**Columns**

 Relationships

 Keys

## Data experiences ⓘ

## Forms

 Views

 Charts

 Dashboards

## Customizations ⓘ

 Business rules

## Commands

 Messages

### Appointment columns and data

 Update forms and views

 Edit | 

**Subject \***  

Regarding ▾

Abc Location ▾

### Priority

+58 more ▾

+

Enter text

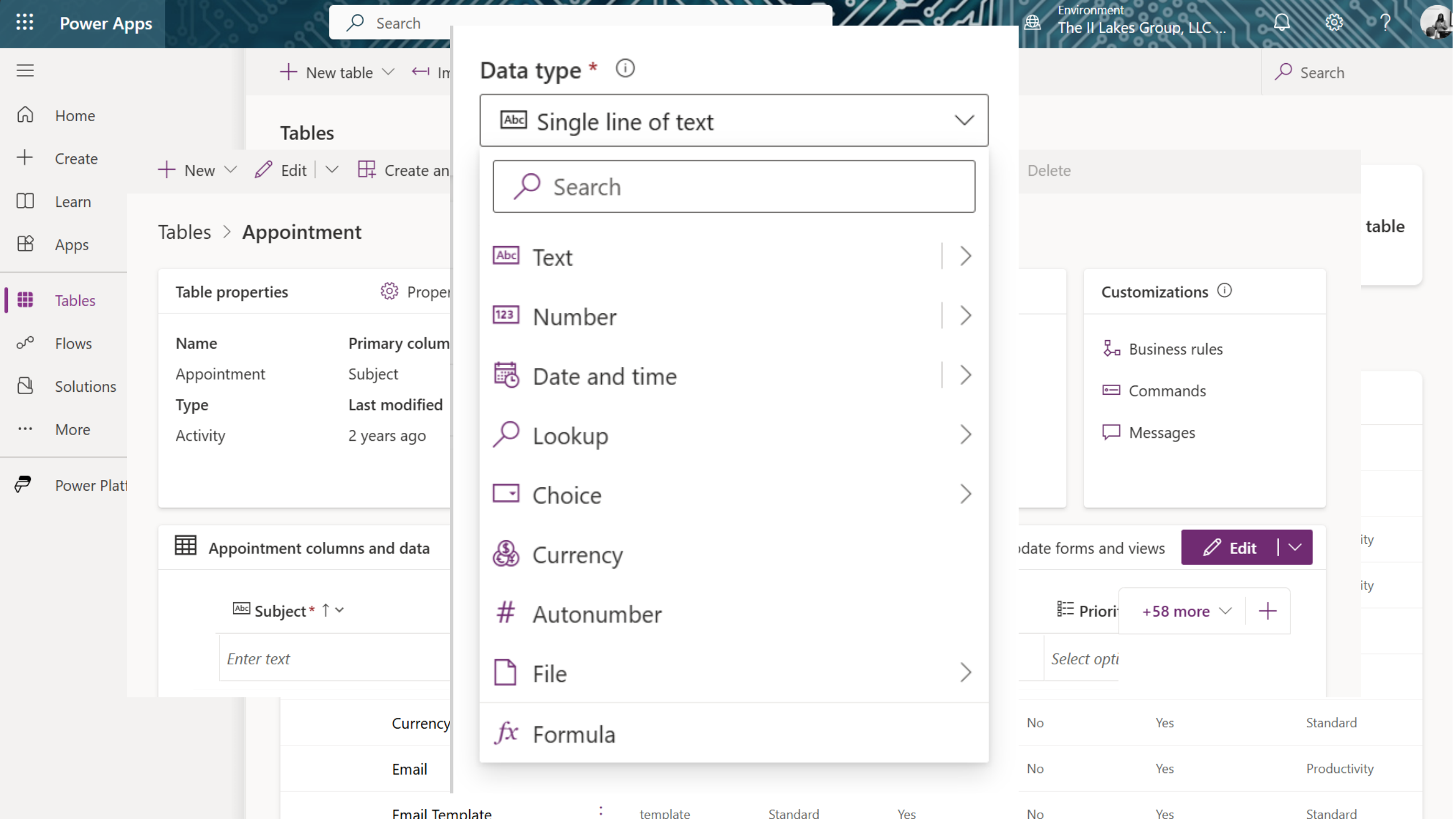
Select lookup

Enter text

Select opti

Currency	⋮	transactioncurre...	Standard	Yes	No	Yes	Standard
Email	⋮	email	Activity	Yes	No	Yes	Productivity
Email Template	⋮	template	Standard	Yes	No	Yes	Standard





Power Apps

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Online services

Other

Excel workbook

File

Text/CSV

File

XML

File

JSON

File

Folder

File

PDF

File

Parquet

File

SharePoint folder

File

SQL Server database

Database

Access

Database

SQL Server Analysis Services

Database

Oracle database

Database

IBM Db2 database

Database

MySQL database

Database

PostgreSQL database

Database

Teradata database

Database

SAP HANA database

Database

SAP BW Application Server

Database

SAP BW Message Server

Database

Snowflake

Database

Google BigQuery

Database

Amazon Redshift

Database

Impala

Database

Dataflows

Microsoft Fabric

KQL Database

Microsoft Fabric

Dataverse

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Azure SQL database

Azure

Azure Synapse Analytics (SQL DW)

Azure

Azure Analysis Services

Azure

Azure Blobs

Azure

Azure Tables

Azure

Azure Data Explorer (Kusto)

Azure

Azure Data Lake Storage Gen2

Azure

Azure HDInsight Spark

Azure

SharePoint Online list

Online services

Microsoft Exchange Online

Online services

Salesforce objects

Online services

Salesforce reports

Online services

Google Analytics

Online services

Email

email

Activity

Yes

No

Yes

Productivity

Email Template

template

Standard

Yes

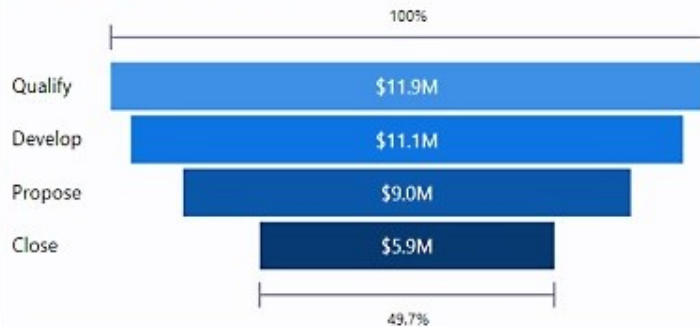
No

Yes

Standard

# Storage

Revenue Open by Sales Stage



Opportunities Created - Month over Month % Change



Qualified Pipeline by Territory

Amount in Pipeline: Low



Territory	Revenue Won	Qualified Pipeline
US-SOUTH	\$12,822,337.0	\$10,577,028.0
US-WEST	\$7,675,049.0	\$7,650,227.0
US-MIDWEST	\$6,294,878.0	\$5,568,972.0
US-NORTHE...	\$2,669,153.0	\$2,116,380.0
Total	\$29,461,417.0	\$25,912,607.0

- ☒ Power BI
- ☐ Power Apps
- ☐ Power Automate
- ☐ Power Pages

# Storage



- ☒ Power BI
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# Storage

## Actions

 Expand table

Add a new row

This action allows you to add a new row in the selected Microsoft Dataverse table. This connector was formerly known as Common Data Service (current environment).

Add a new row to  
selected environment

Create a new row in a table in a Power Platform environment.

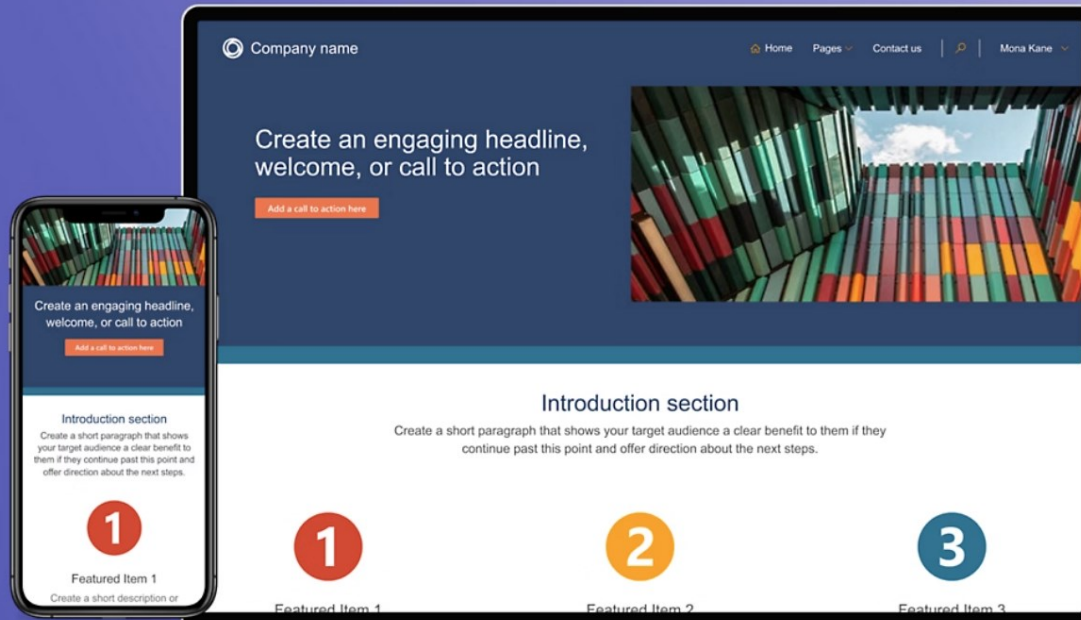
Delete a row

This action allows you to delete a row from a Microsoft Dataverse table. This connector was formerly known as Common Data Service (current environment).

- ☒ Power BI
- ☒ Power Apps
- ☒ Power Automate
- ☒ Power Pages



# Storage



- ☑ Power BI
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# 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

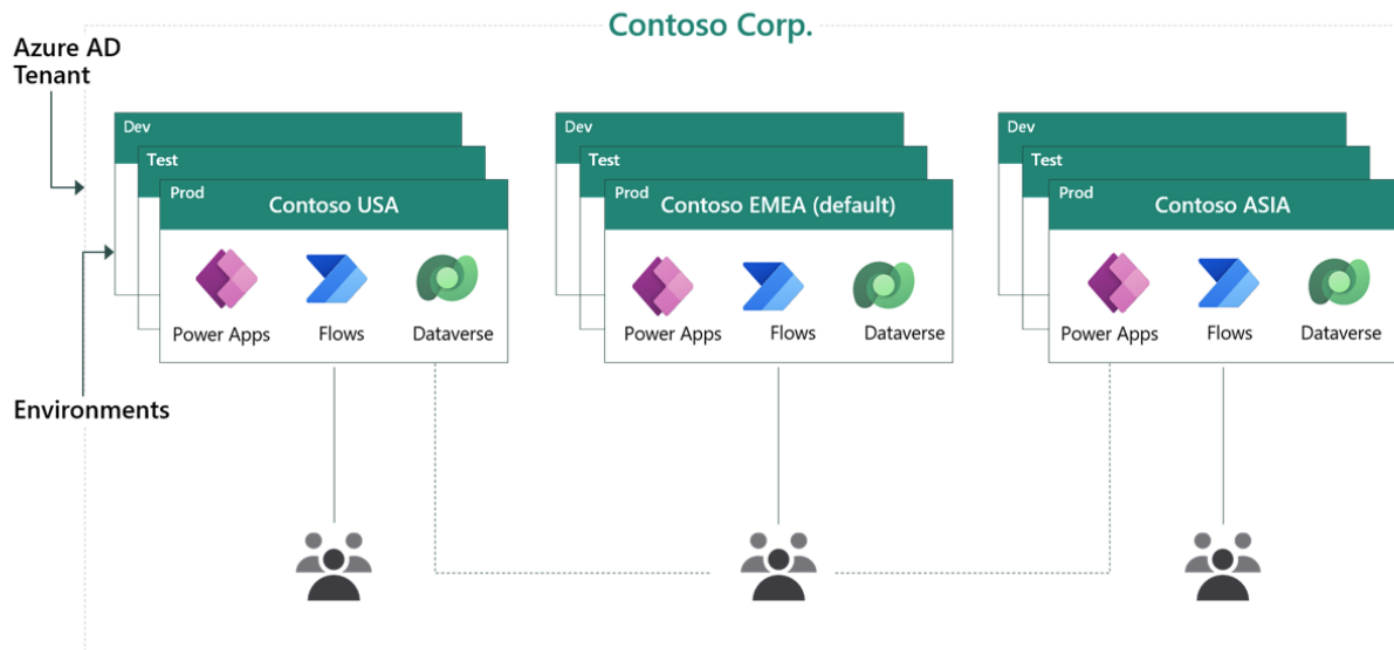
Set the retention policy for these logs, after which they'll be deleted.

Forever



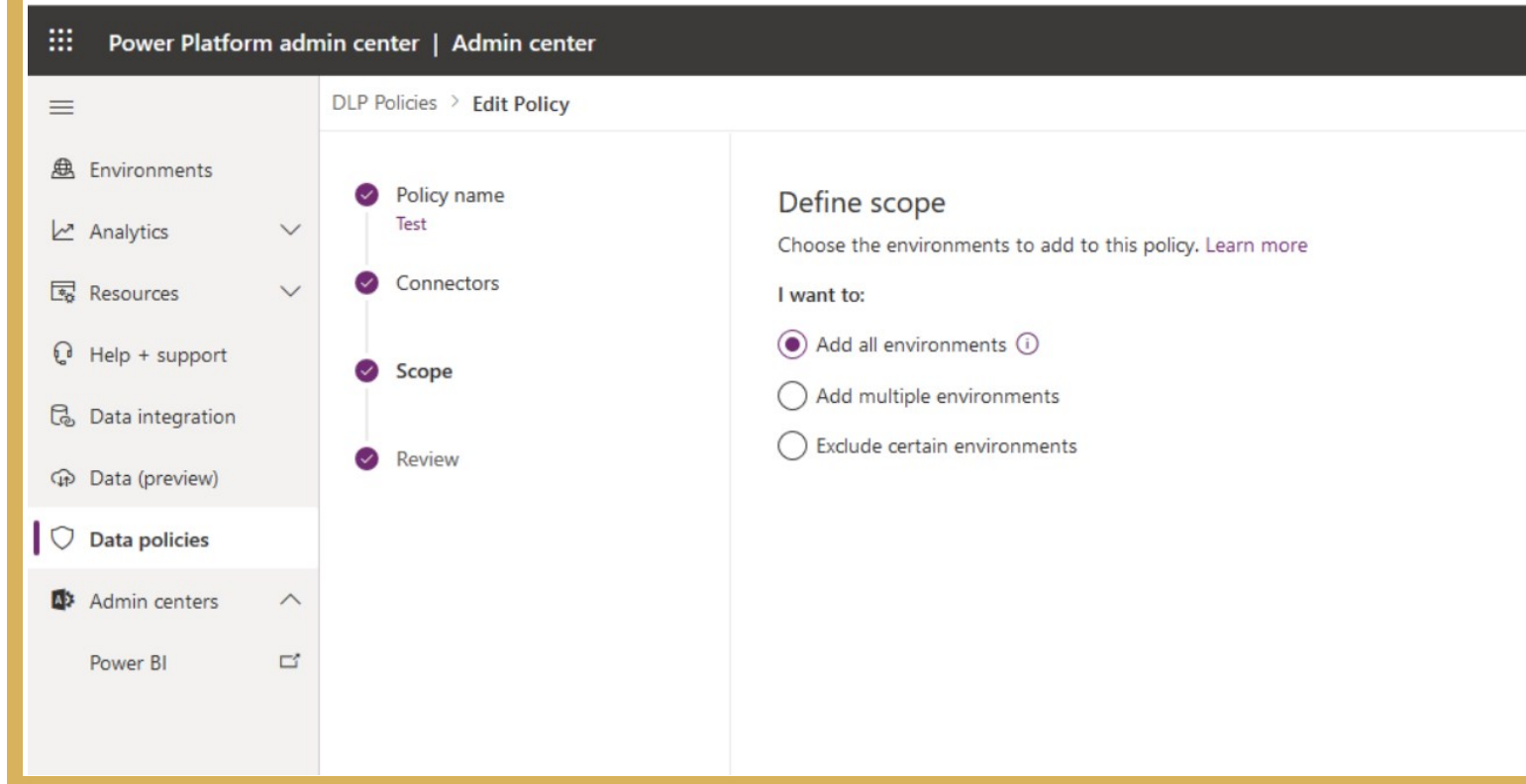
- ☒ Auditing
- ☐ Application Lifecycle Management
- ☐ Data Loss Prevention

# Governance



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

# Governance



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



# Recap:

Low-code is...

Storage is...

Security is...

Governance is...



# Contact:

[CharlesLakes.com](http://CharlesLakes.com)

[TheILakesGroup.com](http://TheILakesGroup.com)

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

[@The2Lakes](#)



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