



Understanding Dataverse for Teams

Rebekka Aalbers • @RebekkaAalbers

BIWUG

DIWUG
Dutch Information Worker User Group

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Rebekka Aalbers

#PowerAddict

#LessCodeMorePower

🦄 Technology consultant @ **macaw**

🦄 Co-organizer  **POWER ADDICTS.NL**

🦄 MSFT BizApps MVP SINCE DECEMBER 2019

🦄 Dutchy

🦄 Book nerd

🦄 Lover of all things Unicorn

🦄 1 cat – 1 husband



Audience

You have ...

- Some experience with the Power Platform and Power Apps and maybe worked Power Automate or Power Virtual Agents as well.
- Heard of Dataverse, but maybe no hands-on experience.
- Worked with Microsoft Teams and you understand the security concepts (owners, members, guests).

At the end of this session

You will know ...

- What Dataverse for Teams is.
- What type of apps you can build with it and where you can use them.
- Understand the security concepts and how to apply them.
- How to manage and deploy your Dataverse for Teams applications.

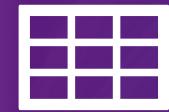
TOPICS



What is Dataverse for Teams



Building apps, flows, bots and reports



Working with Tables



Application Lifecycle Management



Tips, Tricks and Gotchas

What's is Dataverse for Teams

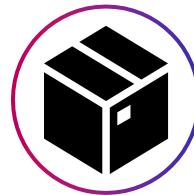
Power Platform



Microsoft Teams



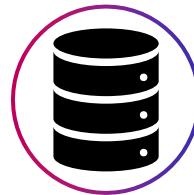
What is Dataverse for Teams



Dedicated environment
connected to a specific Team



Building and consuming of apps
inside of Teams client

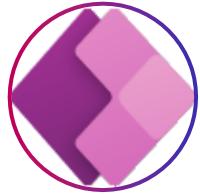


Including lightweight version of
Dataverse



Covered by all licenses
containing Microsoft Teams

What's in the toolkit



Canvas Apps

Power Apps



Chatbots

Power Virtual Agents



Cloud Flows

Power Automate



Tables

Dataverse

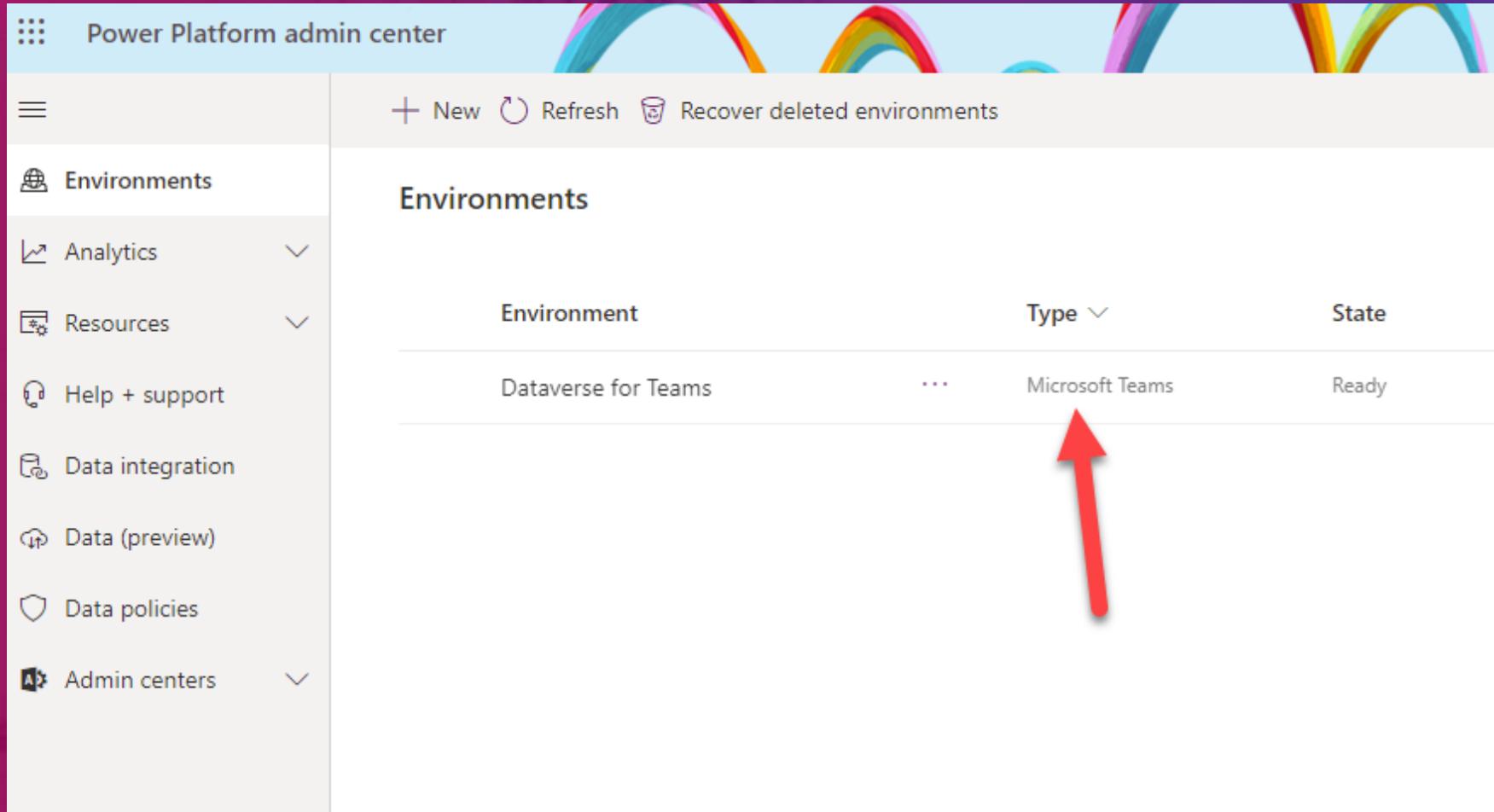


Environment Variables

Power Platform

What about the environment?

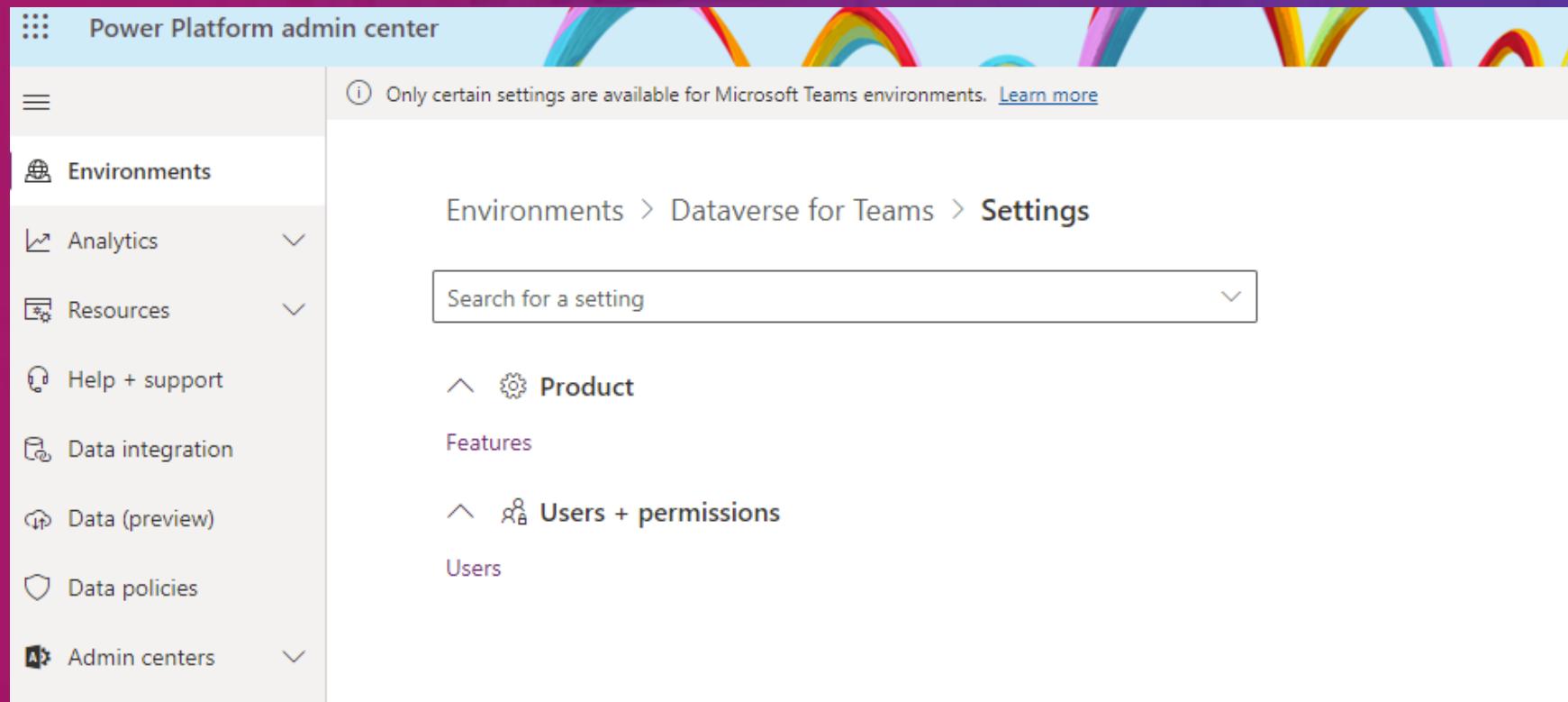
A Power Platform environment of type Microsoft Teams



The screenshot shows the Power Platform admin center interface. On the left is a navigation sidebar with icons for Environments, Analytics, Resources, Help + support, Data integration, Data (preview), Data policies, and Admin centers. The main area is titled "Environments" and displays a table with one row. The table columns are "Environment", "Type", and "State". The single entry is "Dataverse for Teams", "Microsoft Teams", and "Ready". A red arrow points to the "Type" column header.

Environment	Type	State
Dataverse for Teams	Microsoft Teams	Ready

With a reduced number of environment settings

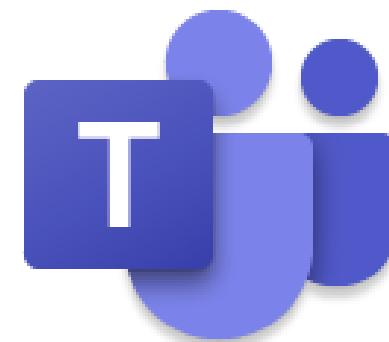


The screenshot shows the Power Platform admin center interface. The left sidebar includes options like Environments, Analytics, Resources, Help + support, Data integration, Data (preview), Data policies, and Admin centers. The main content area displays the navigation path: Environments > Dataverse for Teams > Settings. It features a search bar labeled "Search for a setting". Under the "Settings" heading, there are two collapsed sections: "Product" (with "Features" listed) and "Users + permissions" (with "Users" listed). A note at the top states: "Only certain settings are available for Microsoft Teams environments. [Learn more](#)".

Connected to a specific Team.

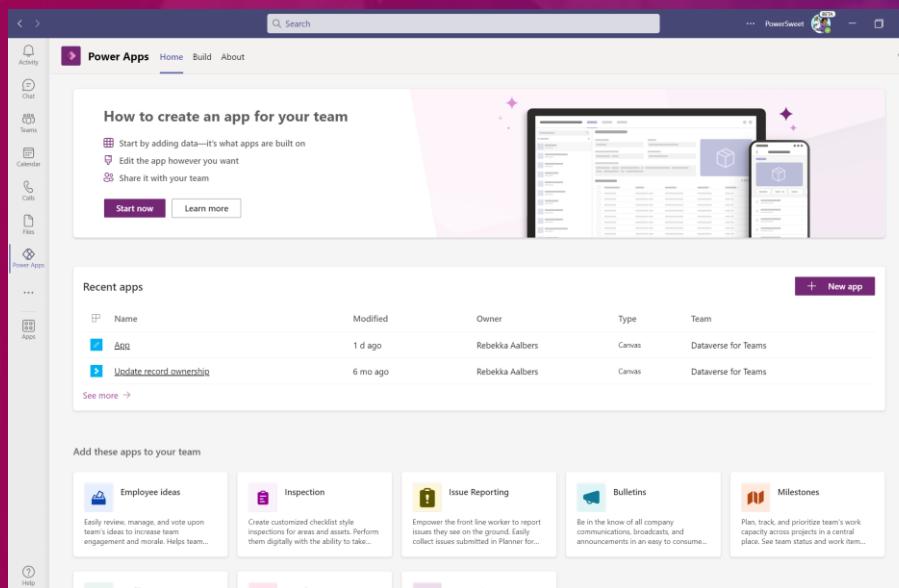
Connected to 1 specific Teams team

1 Dataverse for Teams environment

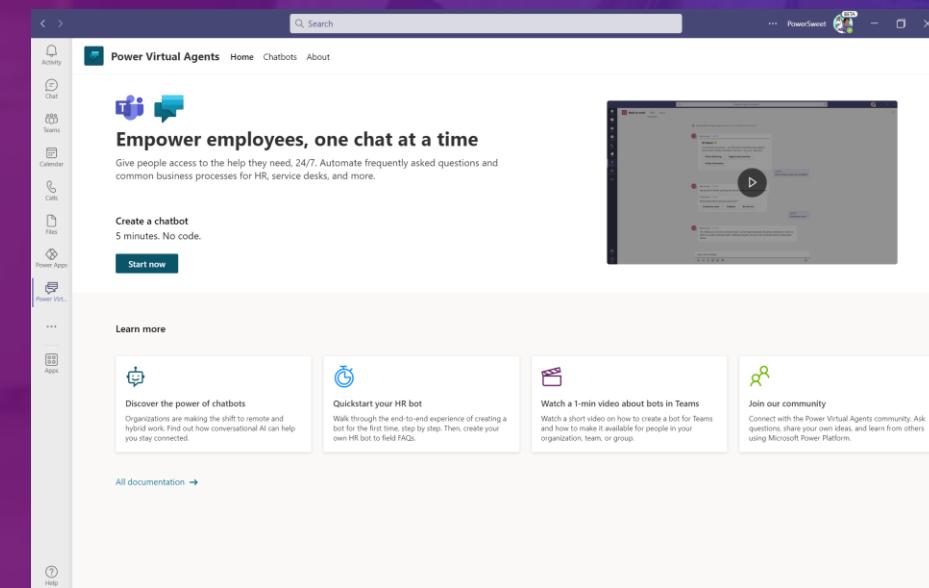


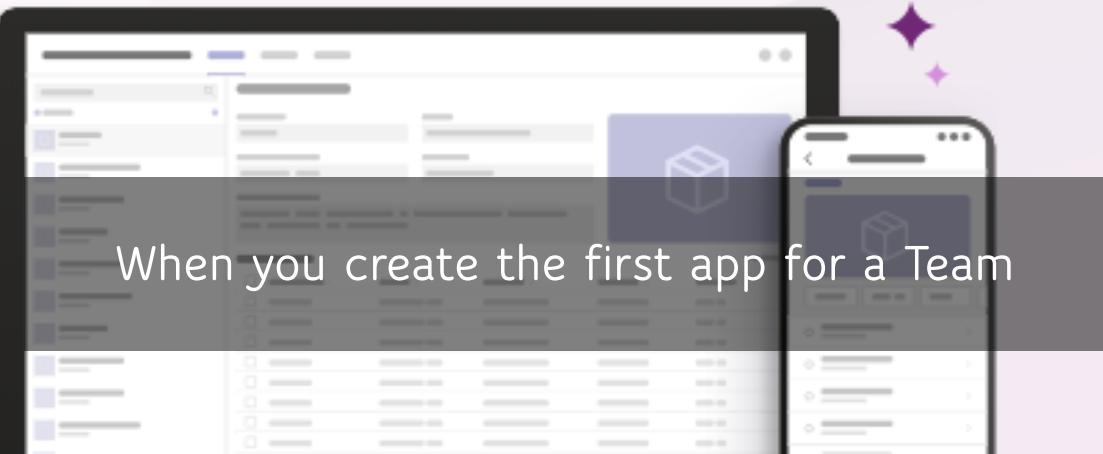
Dedicated Teams apps for solution development

Power Apps Teams App



Power Virtual Agents Team App





When you create the first app for a Team

The grid contains the following cards:

- Employee ideas**: Easily review, manage, and vote upon team's ideas to increase team engagement and morale. Helps team managers to improve workplace with...
- Inspection**: Create customized checklist style inspections for areas and assets. Perform them digitally with the ability to take notes and pictures. Issues identified...
- Issue Reporting**: Empower the front line worker to report issues they see on the ground. Easily collect issues submitted in Planner for effective case management within...
- Bulletins**: Be in the know of all company communications, broadcasts, and announcements in an easy to consume experience in Teams. Customize post...
- Milestones**: Plan, track, and prioritize team's work capacity across projects in a central place. See team status and work item updates to become aware of how's...
- Profile+**: Profile+ help you quickly look up colleagues, understand org structure and roles, and learn about open positions. The ability to filter by project and...
- Boards**: You and your team can create boards about anything-interests, initiatives, onboarding, etc. You can also post just about anything to a board...
- Perspectives**: The Perspectives app is a place to listen and be heard in your organization. A simple search-and-browse experience makes it easy to find interestin...

When you add a Template app to a Team

Environment and database provisioned

Understanding Dataverse for Teams

Building apps, flows, bots and reports

The Toolbelt In detail

Building Apps



Q Search

... PowerSweet  - X



Teams



DT

General

Posts

Files

Wiki



Meet



Your teams

 Dataverse for Teams



General

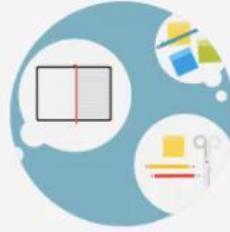
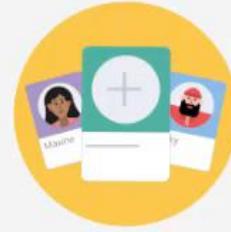


Hidden teams



Welcome to the team!

Here are some things to get going...



Add more people

Create more channels

Open the FAQ

Building Bots



Search

PowerSweet Beta



Power Apps

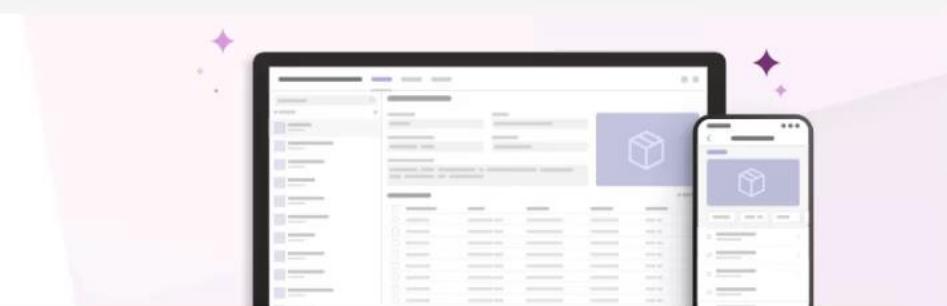
Home Build About



How to create an app for your team

- Start by adding data—it's what apps are built on
- Edit the app however you want
- Share it with your team

[Start now](#) [Learn more](#)



Recent apps

Name	Modified	Owner	Type	Team
MyNewApp	22 min ago	Rebekka Aalbers	Canvas	Dataverse for Teams
App	1 d ago	Rebekka Aalbers	Canvas	Dataverse for Teams
Update record ownership	6 mo ago	Rebekka Aalbers	Canvas	Dataverse for Teams

[See more →](#) [+ New app](#)

Add these apps to your team

**Employee ideas**

Easily review, manage, and vote upon team's ideas to increase team engagement and morale. Helps team...

**Inspection**

Create customized checklist style inspections for areas and assets. Perform them digitally with the ability to take...

**Issue Reporting**

Empower the front line worker to report issues they see on the ground. Easily collect issues submitted in Planner for...

**Bulletins**

Be in the know of all company communications, broadcasts, and announcements in an easy to consume...

**Milestones**

Plan, track, and prioritize team's work capacity across projects in a central place. See team status and work item...

**Profile+**

Profile+ help you quickly look up colleagues, understand org structure and roles, and learn about open positions...

**Boards**

You and your team can create boards about anything-interests, initiatives, onboarding, etc. You can also post just...

**Perspectives**

The Perspectives app is a place to listen and be heard in your organization. A simple search-and-browse experience...



Building Cloud Flows



Search

PowerSweet



Power Apps Home Build About

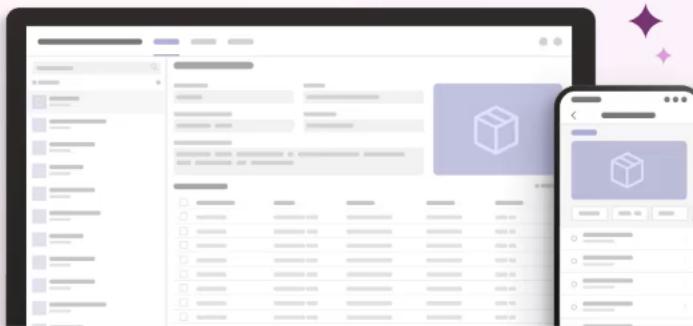


...



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Recent apps

[+ New app](#)

Name	Modified	Owner	Type	Team
MyNewApp	20 h ago	Rebekka Aalbers	Canvas	Dataverse for Teams
App	2 d ago	Rebekka Aalbers	Canvas	Dataverse for Teams
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[See more →](#)

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Milestones

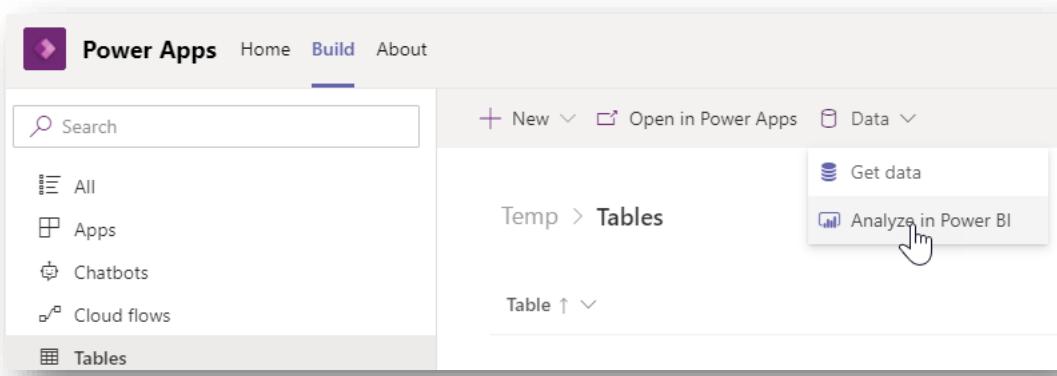
Plan, track, and prioritize team's work capacity across projects in a central place. See team status and work item...



Building reports

2 ways of connecting Power BI to Dataverse for Teams database:

Create PBIX file already connected to Dataverse for Teams database



Or Use Dataverse connector in Power BI
You need to know environment URL



I Working with Tables

Building a relational data structure to use in
your apps

Tables

- Structured data entity
- With columns with specified data types
- To store rows of data
- With possible relationships between different tables

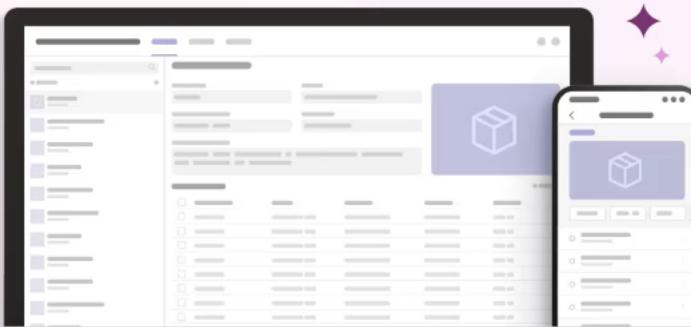


Power Apps

[Home](#) [Build](#) [About](#)

How to create an app for your team

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Recent apps

[+ New app](#)

Name	Modified	Owner	Type	Team
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Update record ownership	6 mo ago	Rebekka Aalbers	Canvas	Dataverse for Teams

[See more →](#)

Add these apps to your team



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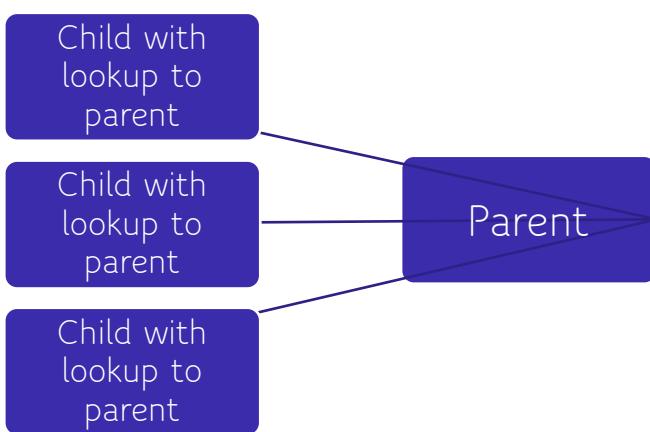


Milestones

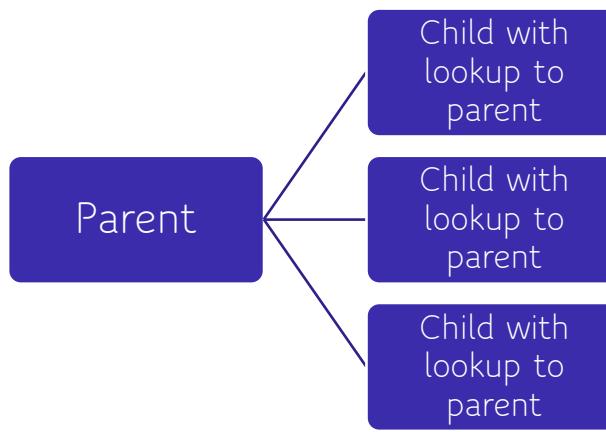
Plan, track, and prioritize team's work capacity across projects in a central place. See team status and work item...

Relationship Types

Many to One

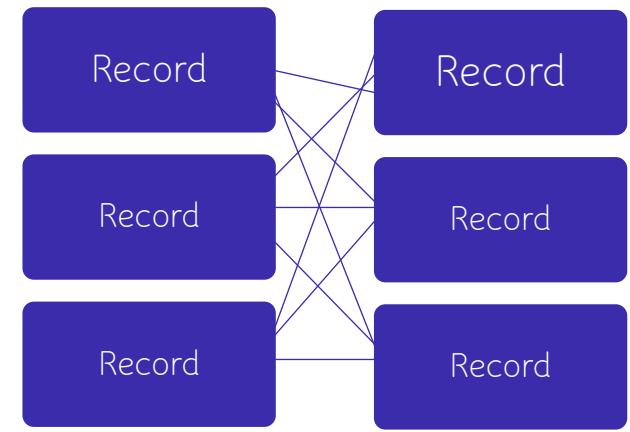


One to Many



Many to Many

BEWARE of the hidden intersection table





Search

PowerSweet



BETA



Power Apps Home Build About



Search



All



Apps



Chatbots



Cloud flows



Tables

> Another table

> **Kittycorn**

> MyNewTable

> Permissions

> Table

> Team

> Unicorn

> Other

[+ Add column](#) [Delete table](#) [Edit data](#) [Manage permissions](#) [Settings](#)

Default

Search

Dataverse for Teams > Tables > **Kittycorn**[Columns](#) [Relationships](#) [Views](#)

Display name ↑ ↓	Name	Data type	Type	Custom...	Required	Searchable
Autonumber Primary Name Column	... cr1c0_autonu...	Autonu...	Custom	✓	Optional	✓
Created By	... createdby	Lookup	Standard	✓	Optional	✓
Created By (Delegate)	... createdonbeh...	Lookup	Standard	✓	Optional	✓
Created On	... createdon	Date an...	Standard	✓	Optional	✓
Import Sequence Number	... importsequen...	Whole ...	Standard	✓	Optional	✓
Kittycorn	... cr1c0_kittycor...	Unique ...	Standard	✓	Required	✓
Modified By	... modifiedby	Lookup	Standard	✓	Optional	✓
Modified By (Delegate)	... modifiedonbe...	Lookup	Standard	✓	Optional	✓
Modified On	... modifiedon	Date an...	Standard	✓	Optional	✓
Owner	... ownerid	Owner	Standard	✓	Required	✓
Owning Business Unit	... owningbusine...	Lookup	Standard	✓	Optional	✓
Owning Team	... owningteam	Lookup	Standard	✓	Optional	
Owning User	... owninguser	Lookup	Standard	✓	Optional	
Record Created On	... overriddencre...	Date Only	Standard	✓	Optional	✓
Status	... statecode	Choice	Standard	✓	Required	✓
Status Reason	... statuscode	Choice	Standard	✓	Optional	✓
Text area	... cr1c0_textarea	Text Area	Custom	✓	Optional	✓
Time Zone Rule Version Number	... timezonerulev...	Whole ...	Standard		Optional	
UTC Conversion Time Zone Code	... utcconversion...	Whole ...	Standard		Optional	

Views

Prefiltered subset in a table

Dataverse for Teams > Tables > Kittycorn
Columns
Relationships
Views

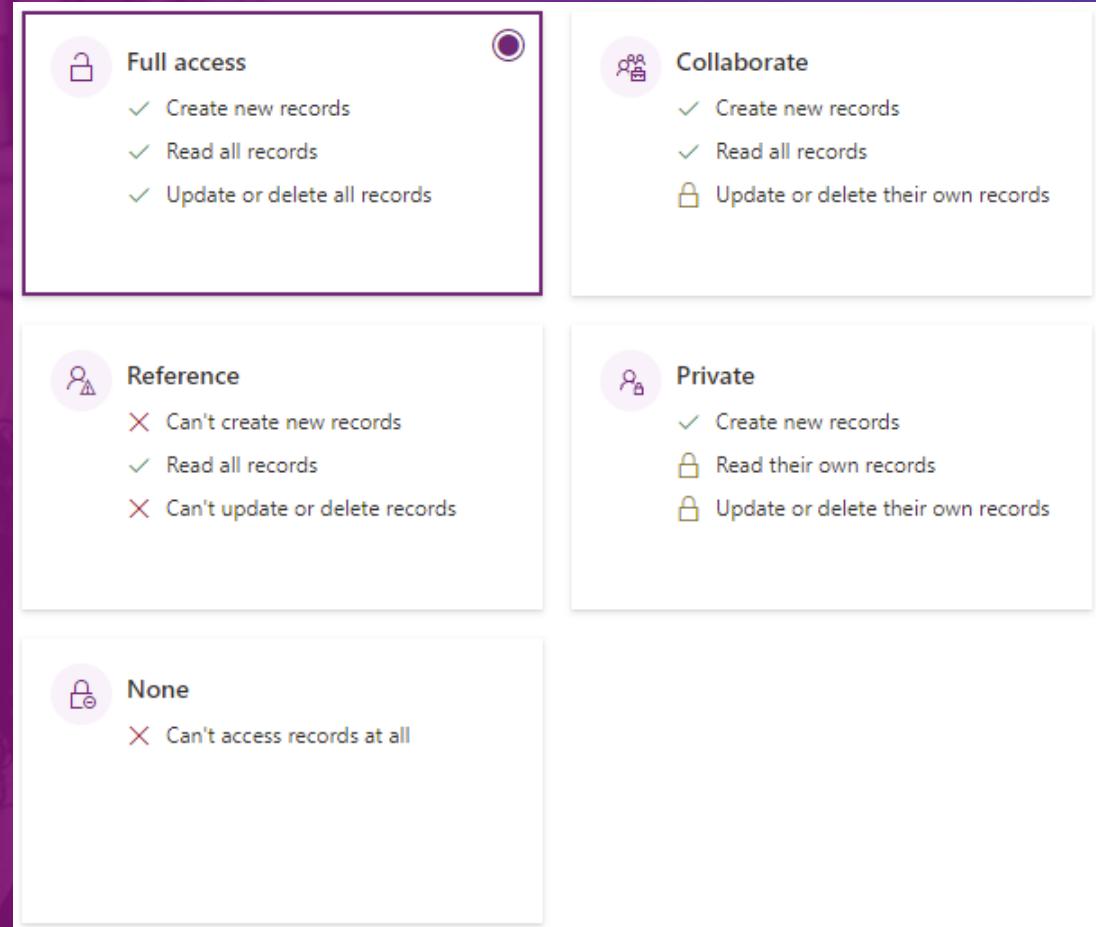
Display name ↑ ↓	Name ↓	Data type ↓	Type ↓	Custom... ↓	Required ↓	Searchable... ↓
Autonumber Primary Name Column	cr1c0_autonu...	Autonu...	Custom	✓	Optional	✓
Created By	createdby	Lookup	Standard	✓	Optional	✓
Created By (Delegate)	createdonbeh...	Lookup	Standard	✓	Optional	✓
Created On	createdon	Date an...	Standard	✓	Optional	✓
Import Sequence Number	importsequen...	Whole ...	Standard	✓	Optional	✓
Kittycorn	cr1c0_kittycor...	Unique ...	Standard	✓	Required	✓
Modified By	modifiedby	Lookup	Standard	✓	Optional	✓
Modified By (Delegate)	modifiedonbe...	Lookup	Standard	✓	Optional	✓
Modified On	modifiedon	Date an...	Standard	✓	Optional	✓
Owner	ownerid	Owner	Standard	✓	Required	✓
Owning Business Unit	owningbusine...	Lookup	Standard	✓	Optional	✓
Owning Team	owningteam	Lookup	Standard	✓	Optional	✓
Owning User	owninguser	Lookup	Standard	✓	Optional	✓
Record Created On	overridendcre...	Date Only	Standard	✓	Optional	✓
Status	statecode	Choice	Standard	✓	Required	✓
Status Reason	statuscode	Choice	Standard	✓	Optional	✓
Text area	cr1c0_textarea	Text Area	Custom	✓	Optional	✓
Time Zone Rule Version Number	timezonerulev...	Whole ...	Standard		Optional	
Unicorn mentor	cr1c0_unicorn...	Lookup	Custom	✓	Optional	✓

Permissions

Connected to Teams roles

- Team Owners
 - Team members
 - Team guests
- + Colleagues with access

Permission levels



Blog post:
[Understanding Dataverse for Teams permissions](#)

Activity

Power Apps Home Build About

Chat

Teams

Calendar

Calls

Files

Power Apps

...

Apps

All

Apps

Chatbots

Cloud flows

Tables

- > Another table
- > **Kittycorn**
- > MyNewTable
- > Permissions
- > Table
- > Team
- > Unicorn

> Other

Search

Add column Delete table Edit data Manage permissions Settings

Default Search

Dataverse for Teams > Tables > **Kittycorn**

Columns Relationships Views

Display name ↑ ↴	Name ↴	Data type ↴	Type ↴	Custom... ↴	Required ↴	Searchable... ↴
Autonumber Primary Name Column	cr1c0_autonu...	Autonu...	Custom	✓	Optional	✓
Created By	createdby	Lookup	Standard	✓	Optional	✓
Created By (Delegate)	createdonbeh...	Lookup	Standard	✓	Optional	✓
Created On	createdon	Date an...	Standard	✓	Optional	✓
Import Sequence Number	importsequen...	Whole ...	Standard	✓	Optional	✓
Kittycorn	cr1c0_kittycor...	Unique ...	Standard	✓	Required	✓
Modified By	modifiedby	Lookup	Standard	✓	Optional	✓
Modified By (Delegate)	modifiedonbe...	Lookup	Standard	✓	Optional	✓
Modified On	modifiedon	Date an...	Standard	✓	Optional	✓
Owner	ownerid	Owner	Standard	✓	Required	✓
Owning Business Unit	owningbusine...	Lookup	Standard	✓	Optional	✓
Owning Team	owningteam	Lookup	Standard	✓	Optional	✓
Owning User	owninguser	Lookup	Standard	✓	Optional	✓
Record Created On	overridendcre...	Date Only	Standard	✓	Optional	✓
Status	statecode	Choice	Standard	✓	Required	✓
Status Reason	statuscode	Choice	Standard	✓	Optional	✓
Text area	cr1c0_textarea	Text Area	Custom	✓	Optional	✓
Time Zone Rule Version Number	timezonerulev...	Whole ...	Standard		Optional	
Unicorn mentor	cr1c0_unicorn...	Lookup	Custom	✓	Optional	✓

Formula columns (preview)

Automatic calculations using Power Fx formulas to perform calculations on the fly

Calculations using values of multiple columns of row.

Result data types:

- Text
- Decimal
- Boolean
- Date

Note:

Not all operators and formulas are available to use.

For full list check: [Microsoft Docs](#)



Search

PowerSweet



Power Apps Home Build About

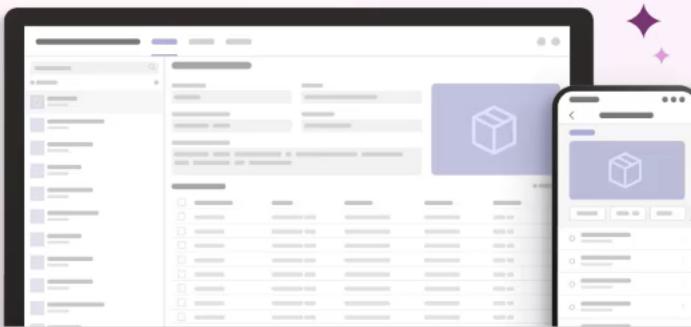


...



How to create an app for your team

- Start by adding data—it's what apps are built on
- Edit the app however you want
- Share it with your team

[Start now](#)[Learn more](#)

Recent apps

[+ New app](#)

Name	Modified	Owner	Type	Team
MyNewApp	1 h ago	Rebekka Aalbers	Canvas	Dataverse for Teams
App	2 d ago	Rebekka Aalbers	Canvas	Dataverse for Teams
Update record ownership	6 mo ago	Rebekka Aalbers	Canvas	Dataverse for Teams

[See more →](#)

Add these apps to your team



Employee ideas

Easily review, manage, and vote upon team's ideas to increase team engagement and morale. Helps team...



Inspection

Create customized checklist style inspections for areas and assets. Perform them digitally with the ability to take...



Issue Reporting

Empower the front line worker to report issues they see on the ground. Easily collect issues submitted in Planner for...



Bulletins

Be in the know of all company communications, broadcasts, and announcements in an easy to consume...



Milestones

Plan, track, and prioritize team's work capacity across projects in a central place. See team status and work item...





ALM

Deploying your Dataverse for Teams solution
to other environment

Default behavior

If you change nothing about the setup

- All resources in Power Apps Teams app are part of a solution.
- Default solution: Common Data Services Default Solution
- Publisher: CDS Default Publisher - Example Prefix: cr1c0



Search

... PowerSweet



...



Power Apps



Home

Build

About

DT Dataverse for Teams



Dataverse for Teams

Share with colleagues

Built by this team

Installed apps

Custom apps, tables, flows and chatbots created by you and your team will be stored here. Learn more

Items created for Dataverse for Teams

New ▾

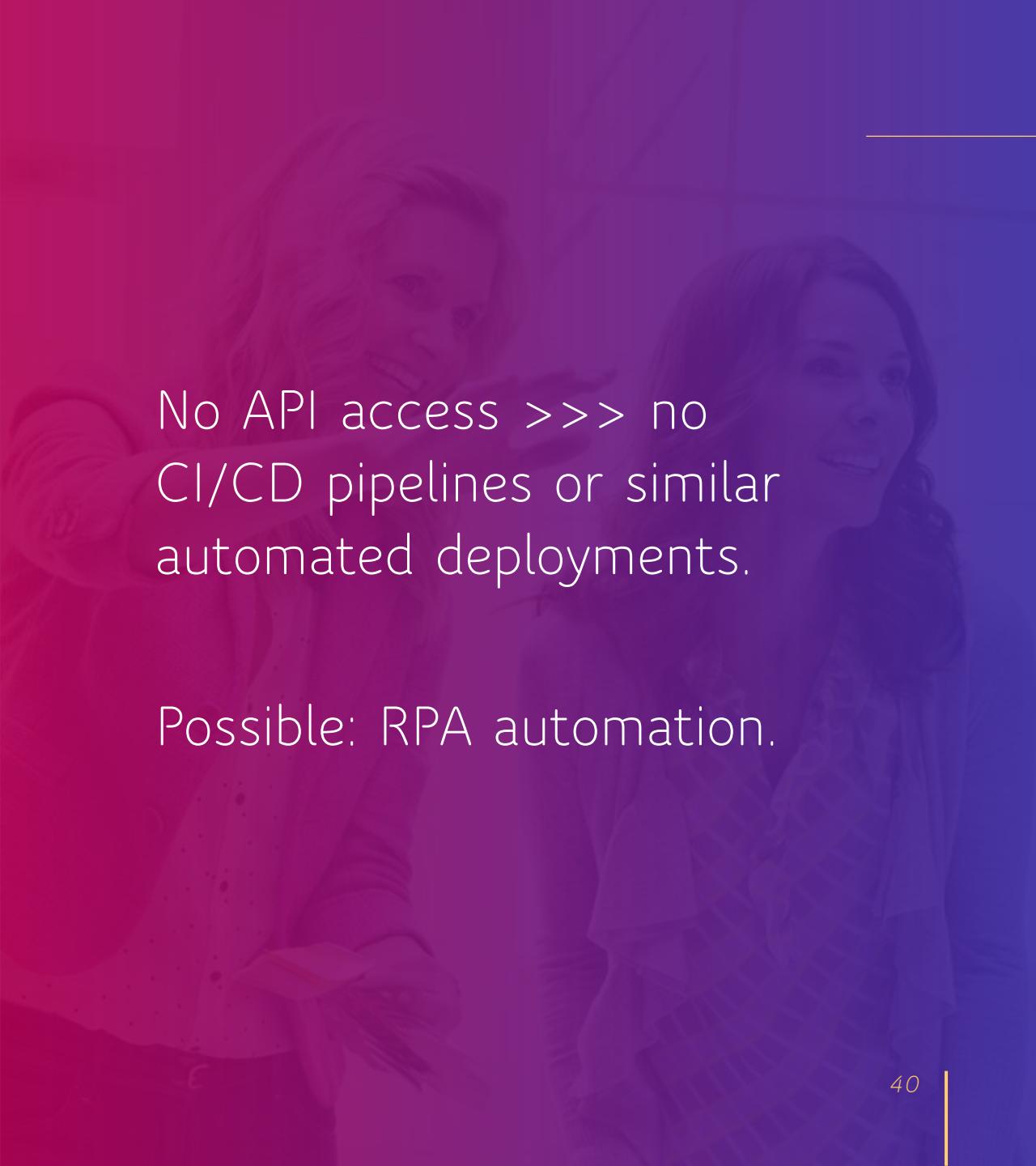
	Name	Modified	Type
	Another table	1 h ago	Table
	App	2 d ago	Canvas App
	Kittycorn	1 h ago	Table
	MyNewApp	22 h ago	Canvas App
	MyNewTable	1 h ago	Table
	Permissions	7 mo ago	Table

See all



Create

| Deploy applications

A blurred background image showing two women from the chest up. They are both looking towards the right side of the frame. The woman on the left has blonde hair and is wearing a light-colored top. The woman on the right has dark hair and is wearing a patterned top.

No API access >>> no
CI/CD pipelines or similar
automated deployments.

Possible: RPA automation.



Search

PowerSweet

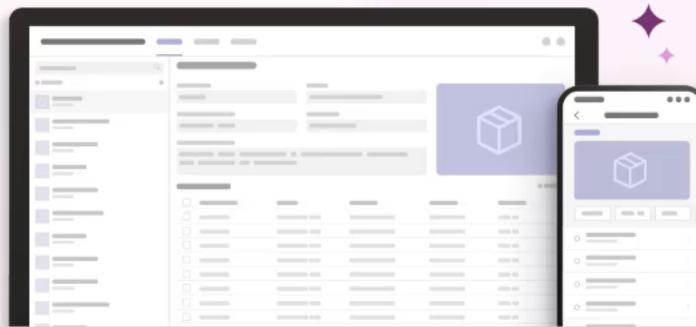


Power Apps Home Build About



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[Start now](#)[Learn more](#)

Recent apps

[+ New app](#)

Name	Modified	Owner	Type	Team
TEMP	5 min ago	Rebekka Aalbers	Canvas	Another Team
MyNewApp	1 h ago	Rebekka Aalbers	Canvas	Dataverse for Teams
App	2 d ago	Rebekka Aalbers	Canvas	Dataverse for Teams
Update record ownership	6 mo ago	Rebekka Aalbers	Canvas	Dataverse for Teams

[See more →](#)

Add these apps to your team



Employee ideas

Easily review, manage, and vote upon team's ideas to increase team engagement and productivity.



Inspection

Create customized checklist style inspections for areas and assets. Perform the audit with the built-in barcode scanner.



Issue Reporting

Empower the front line worker to report issues they see on the ground. Easily collaborate with the office.



Bulletins

Be in the know of all company communications, broadcasts, and announcements from the office.



Milestones

Plan, track, and prioritize team's work capacity across projects in a central location. Gain visibility and control.





Tips, Tricks & Gotchas

Premium versus Non-premium

Apps, flows and bots build in Teams environment

Covered by Office 365 license:

- With Dataverse connector + use inside of Teams client
- Use of custom connectors exported from Azure API Management

Additional license needed

- With Dataverse connector + use outside of Teams client
- Use of any other premium connectors

Upgrading to regular Dataverse

Connection between environment and Teams will be removed at upgrade

The screenshot shows the Power Platform admin center interface. The left sidebar has sections like Analytics, Resources, Help + support, Data integration, Data (preview), Data policies, and Admin centers. The main area is titled "Environments > Dataverse for Teams". It displays details such as State (Ready), Region (Europe), Refresh cadence (Frequent), Type (Microsoft Teams), Security group (Dataverse for Teams), and Organization ID (4bf79393-460e-4db8-8eea-a1fdd4274adc). A purple banner at the top says "Do more with your team. Upgrade this environment's database to Dataverse." with a "Upgrade" button. Below the details, there's a "Recent operation" section showing a "Create" operation by Rebekka Aalbers on 3/21/2021 at 3:24:00 PM. To the right, there are sections for "Microsoft Teams association" (with a red icon) and "Resources" (listing Power Apps and Flows).

Open environment in Power Apps maker portal

The screenshot shows the Microsoft Teams interface with the Power Apps maker portal open. The left sidebar includes icons for Activity (1 notification), Chat, Teams, Calendar, and Calls. The main area has a navigation bar with Power Apps (selected), Home, Build, and About. A sidebar lists Dataverse for Teams and Temp. The main content area is titled "Dataverse for Teams" and says "Built by this team". It features a "Custom apps, tables, flows and chatbots created by you and your team will be stored here." section with a "Learn more" link, and a "Items created for Dataverse for Teams" section. A callout box points to the "Open in Power Apps" button, which is highlighted with a hand cursor icon.

Templates

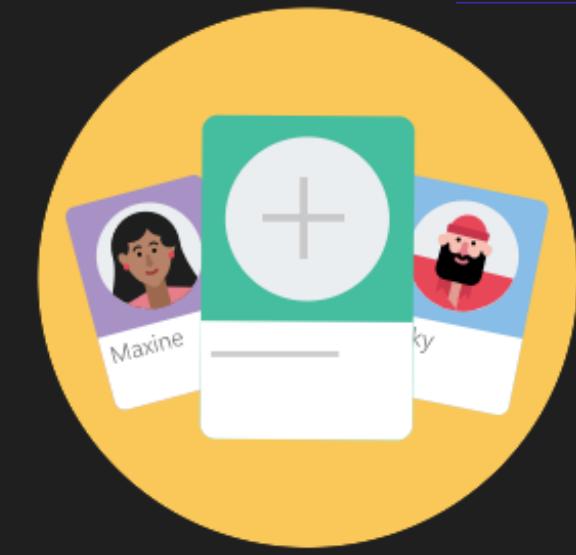
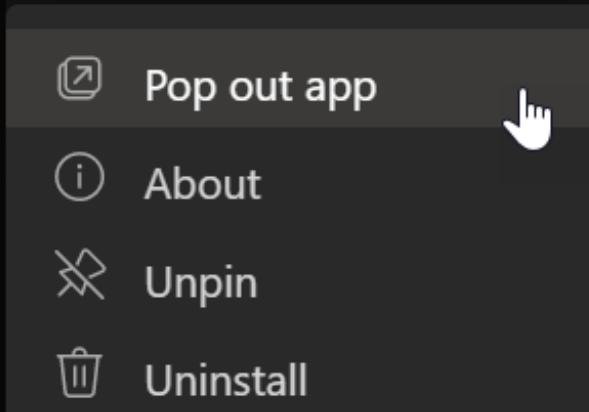
The image shows a grid of nine cards, each representing a different template available in the Dataverse for Teams application. The cards are arranged in three rows and three columns. Each card features a colored icon on the left and a title and description on the right.

- Employee ideas**: Easily review, manage, and vote upon team's ideas to increase team engagement and morale. Helps team...
- Inspection**: Create customized checklist style inspections for areas and assets. Perform them digitally with the ability...
- Issue Reporting**: Empower the front line worker to report issues they see on the ground. Easily collect issues submitted in...
- Bulletins**: Be in the know of all company communications, broadcasts, and announcements in an easy to consum...
- Milestones**: Plan, track, and prioritize team's work capacity across projects in a central place. See team status and work item...
- Profile+**: Profile+ help you quickly look up colleagues, understand org structure and roles, and learn about open...
- Boards**: You and your team can create boards about anything-interests, initiatives, onboarding, etc. You can also post jus...
- Perspectives**: The Perspectives app is a place to listen and be heard in your organization. A simple search-and-browse experience...



...

Hidden teams

**Add more people**

Pop out Power Apps app in Teams client

Understanding Dataverse for Teams

Open the Power Apps app in a separate Teams client window.

Power Platform features NOT! supported in Dataverse for Teams

- Component Libraries
- Desktop Flows
- AI Builder
- Dataverse Web API Access
- Copy, Create, Reset or Upgrade options for environments in Power Platform admin center. **Backup** and **Restore** options are available, **Restore** limited to point in time to the same environment.

Features only available in Dataverse

- > 2GB of storage
- Unlimited number of environments (if database storage is covered by licenses)
- Classic workflows
- Business rules
- Larger set of standard security roles + custom security roles
- Activity logging
- Auditing
- >1 Business units
- Customer-managed environment encryption key
- Field-level security
- Hierarchical security
- Record sharing
- Advanced data types (customer, multiple transaction currencies)
- Non-relational storage (logs)
- Managed data lake
- Advanced and Dataverse search
- Mobile offline
- Paginated reports (SQL Server Reporting Services)
- API access
- Plug-ins
- Azure Synapse Link for Dataverse
- Data Export Service
- Events to Azure Event Hubs
- Events to Azure Service Bus
- Webhooks
- Server-side sync
- SQL Server Management Studio

THANK YOU!

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