

Learn more: mbgsec.com

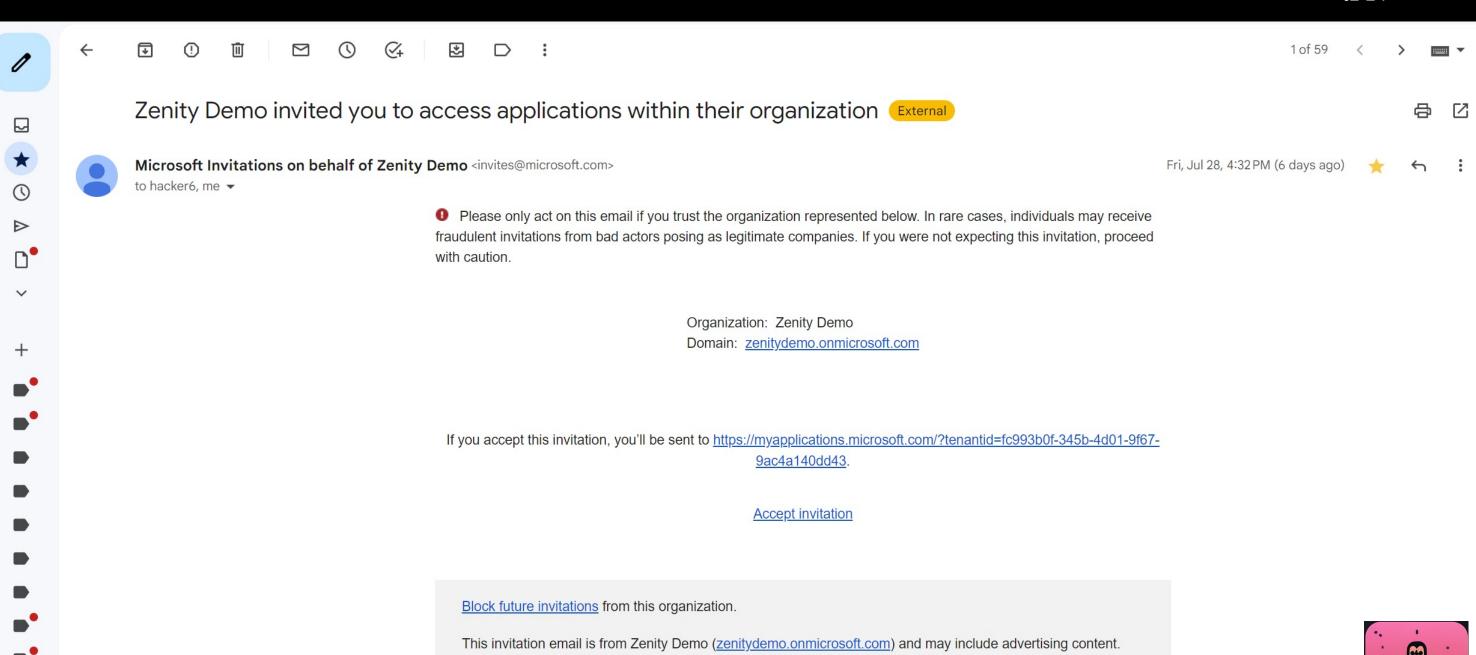
Twitter: @mbrg0

#### All You Need Is Guest

Michael Bargury @ Zenity t2'24

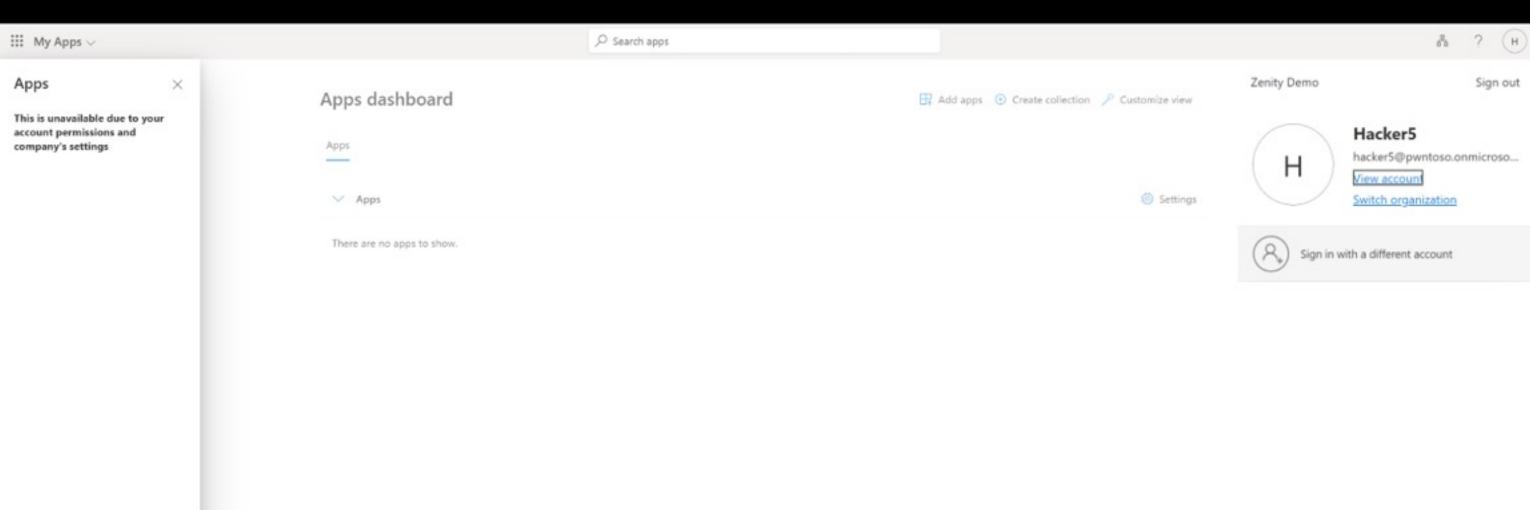


### **DEMO**



Zenity Demo has not provided a link to their privacy statement for you to review. Microsoft Corporation facilitated

sending this email but did not validate the sender or the message.





### powerpwn - Credentials

- All Resources
- Credentials
- Automations
- Applications
- Connectors

	Connector	Connection	Created by			
台	shared azurefile	jamiereding customer data. file. core. windows. net	jamier@zenitydemo.onmicrosoft.com	Playground	Raw	<u>Dump</u>
•	shared azureblob	https://enterpriseip.blob.core.windows.net/patentarchive	jamier@zenitydemo.onmicrosoft.com	Playground	Raw	<u>Dump</u>
O	shared azuretables	jamiereding customer data. table.core.windows.net/customers	jamier@zenitydemo.onmicrosoft.com	Playground	Raw	<u>Dump</u>
	shared azurequeues	Azure Queues	jamier@zenitydemo.onmicrosoft.com	Playground	Raw	<u>Dump</u>
•	shared sql	enterprise financial financial reports. database. windows.net	hi@pwntoso.onmicrosoft.com	Playground	Raw	<u>Dump</u>
•	shared sql	enterprisecus tomers customer carein sights. database. windows. net	jamier@zenitydemo.onmicrosoft.com	Playground	<b>1</b>	<u>ump</u>

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```



- CTO and Co-founder @ Zenity
- OWASP LCNC Top 10 project lead
- Dark Reading columnist
- BlackHat, Defcon, BSides, OWASP
- Hiring top researchers, engs & pms!



@mbrg0



github.com/mbrg



darkreading.com/author/michael-bargury

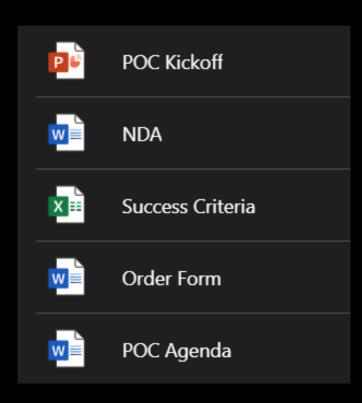




## Why invite guests in? And the promise of deny-by-default access

## How can two parties collaborate over a bunch of files?

F1000 enterprise

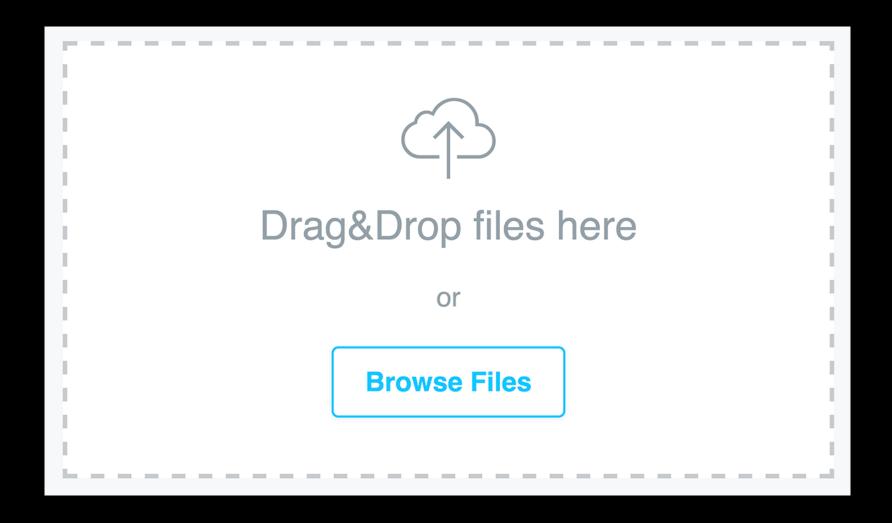


Small vendor

### Option 1: just email sensitive files around



### Option 2: trust a rando on the internet



### Option 2: trust a rando IRL







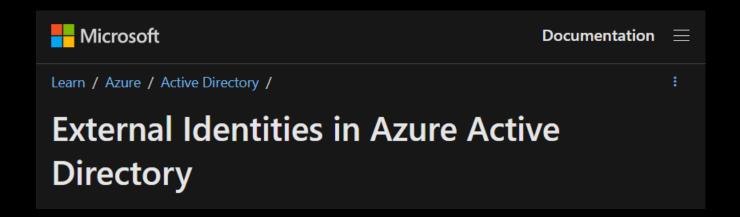
Source: <u>deaddrops.com</u>

### **Option 3: invite them in**



F1000 tenant

### **Option 3: invite them in**



"external users can "bring their own identities." ... and you manage access to your apps ... to keep your resources protected."

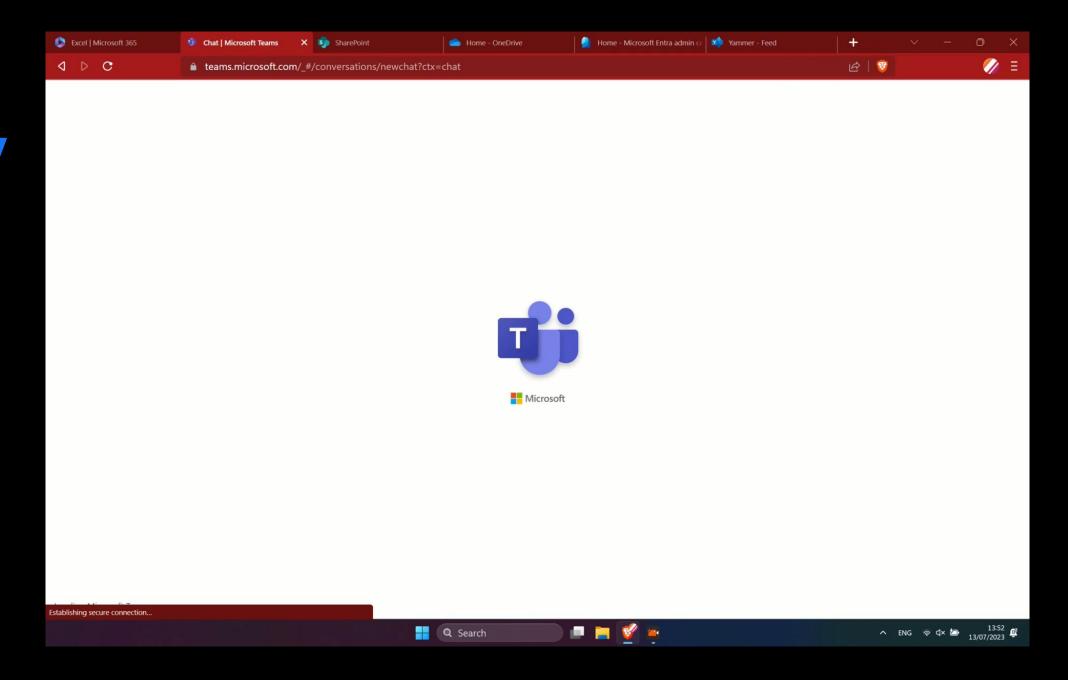


F1000 tenant

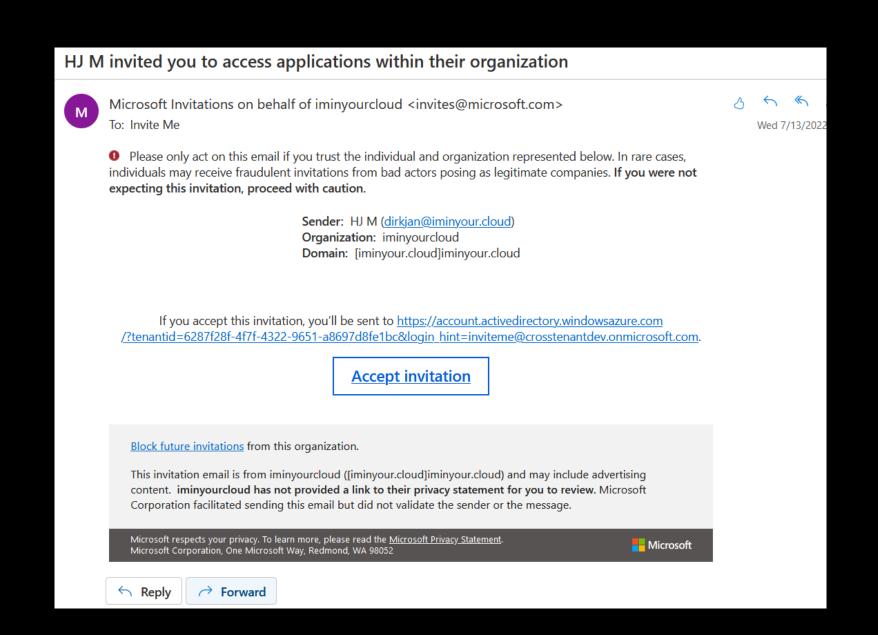
(a) Easy for vendors to onboard

(a) Easy for vendors to onboard(b) Easy for IT/security to control

(a) Easy for vendors to onboard (b) Easy for IT/security to control



Source: @\_dirkjan at BHUSA 2022



Source: @\_dirkjan at BHUSA 2022
\* Vulns were fixed.

### Perhaps too easy?



#### **Hijacking invites**

Query using AAD Graph:

https://graph.windows.net/myorganization/users?api-version=1.61-internal&\$filter=userState eq 'PendingAcceptance'&\$select=userPrincipalName,inviteTicket,userType,invitedAsMail

Information Classification: General

### Perhaps too easy?



#### TL;DR

- Every user could query for non-redeemed invites.
- Could redeem invite without any validation, link to arbitrary external account.
- No way for admins to find out which account it was actually linked to.

Source: @\_dirkjan at BHUSA 2022
\* Vulns were fixed.

### Perhaps too easy?



Backdooring and hijacking Azure AD accounts by abusing external identities

Dirk-jan Mollema / @ dirkjan

(a) Easy for vendors to onboard (b) Easy for IT/security to control

### (b) Understanding how control works

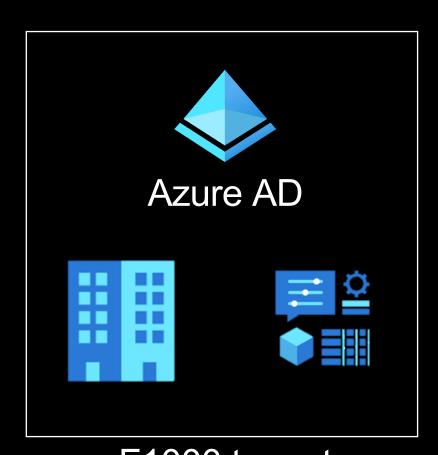








Partners, vendors, suppliers, other collaborators



F1000 tenant

### (b) Understanding how control works

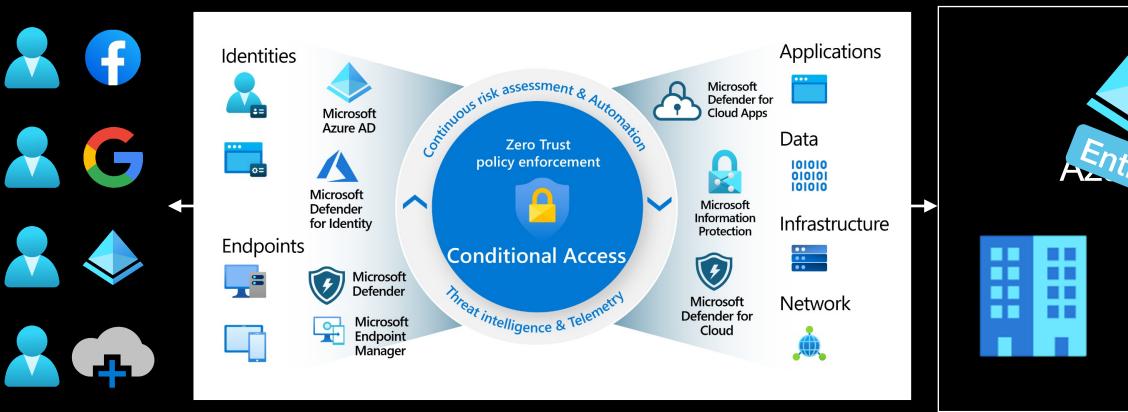


Partners, vendors, suppliers, other collaborators

F1000 tenant

attestation, threat monitoring ...

### (b) Control guests like employees



Enterprise controls to ensure secure access: MFA, RBAC, CA, device

Need guest access -> Require security controls

Need guest access -> Require security controls

Security controls -> Require AAD account

Need guest access -> Require security controls

Security controls -> Require AAD account

AAD account -> Grants full access

Q.E.D. ...?

Need guest access -> Require security controls

Security controls -> Require AAD account

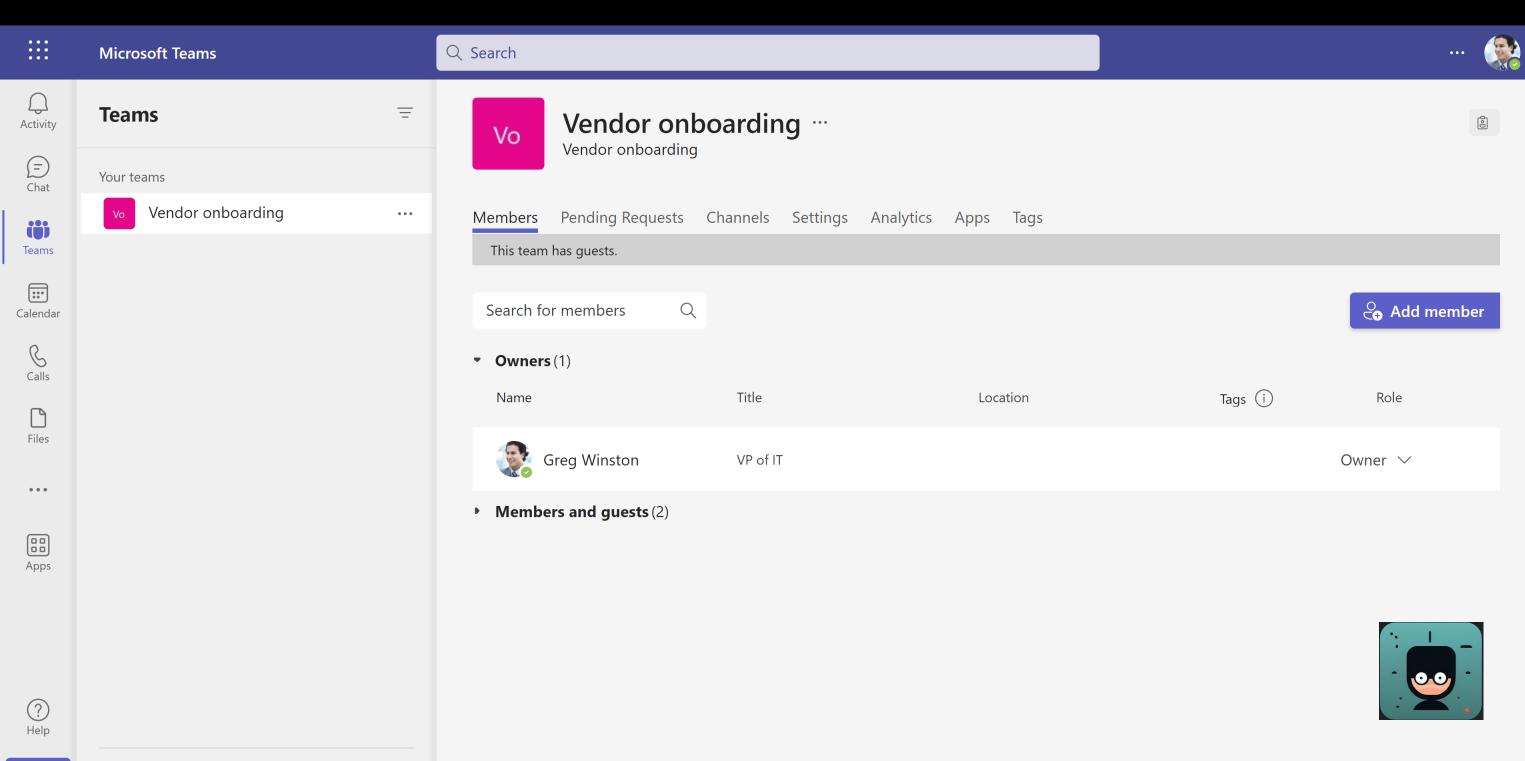
AAD account -> Grants full deny-by-default access

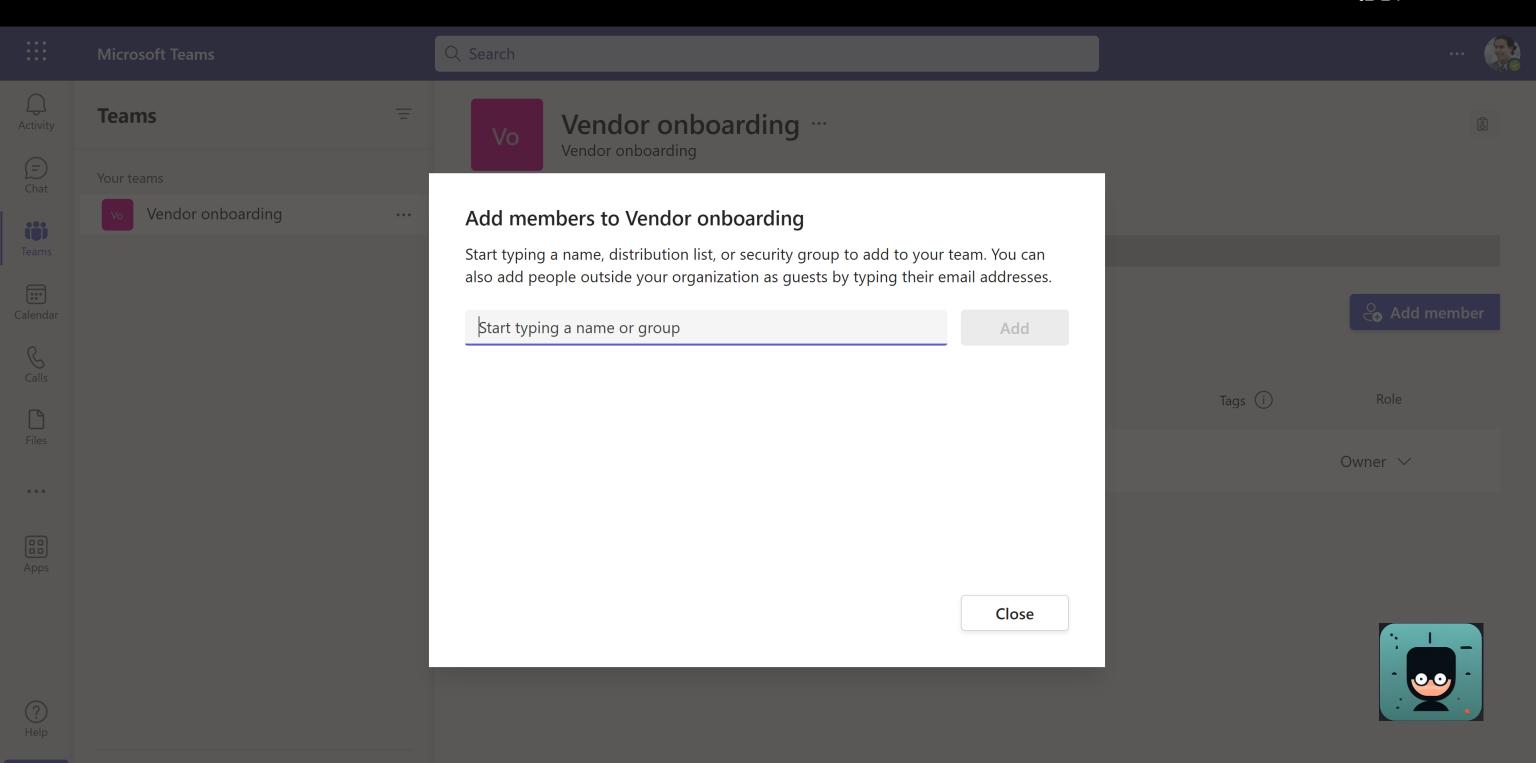
### EntraID guest recap

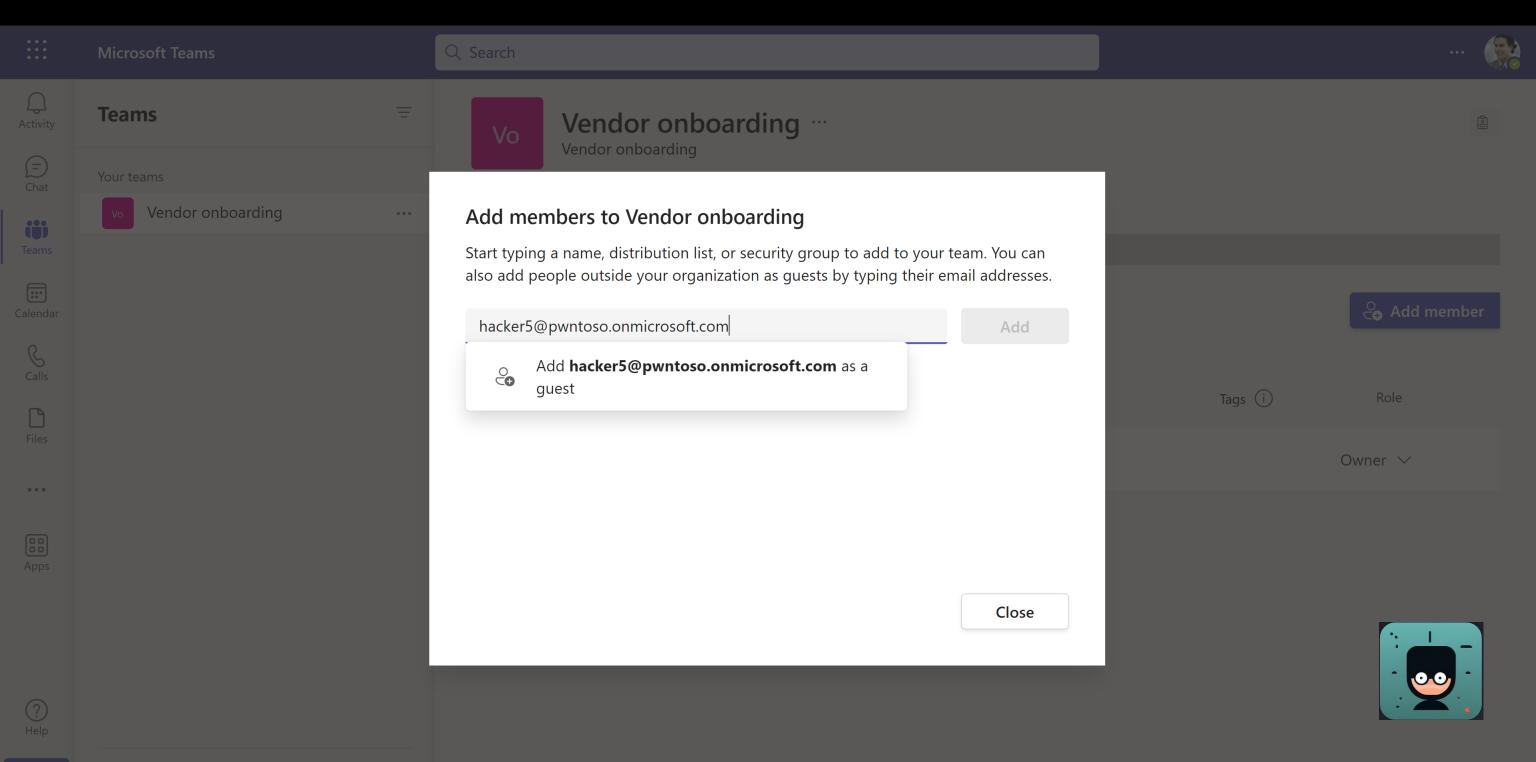
- It's super easy to get a guest account
- AAD security controls apply
- Access is deny-by-default

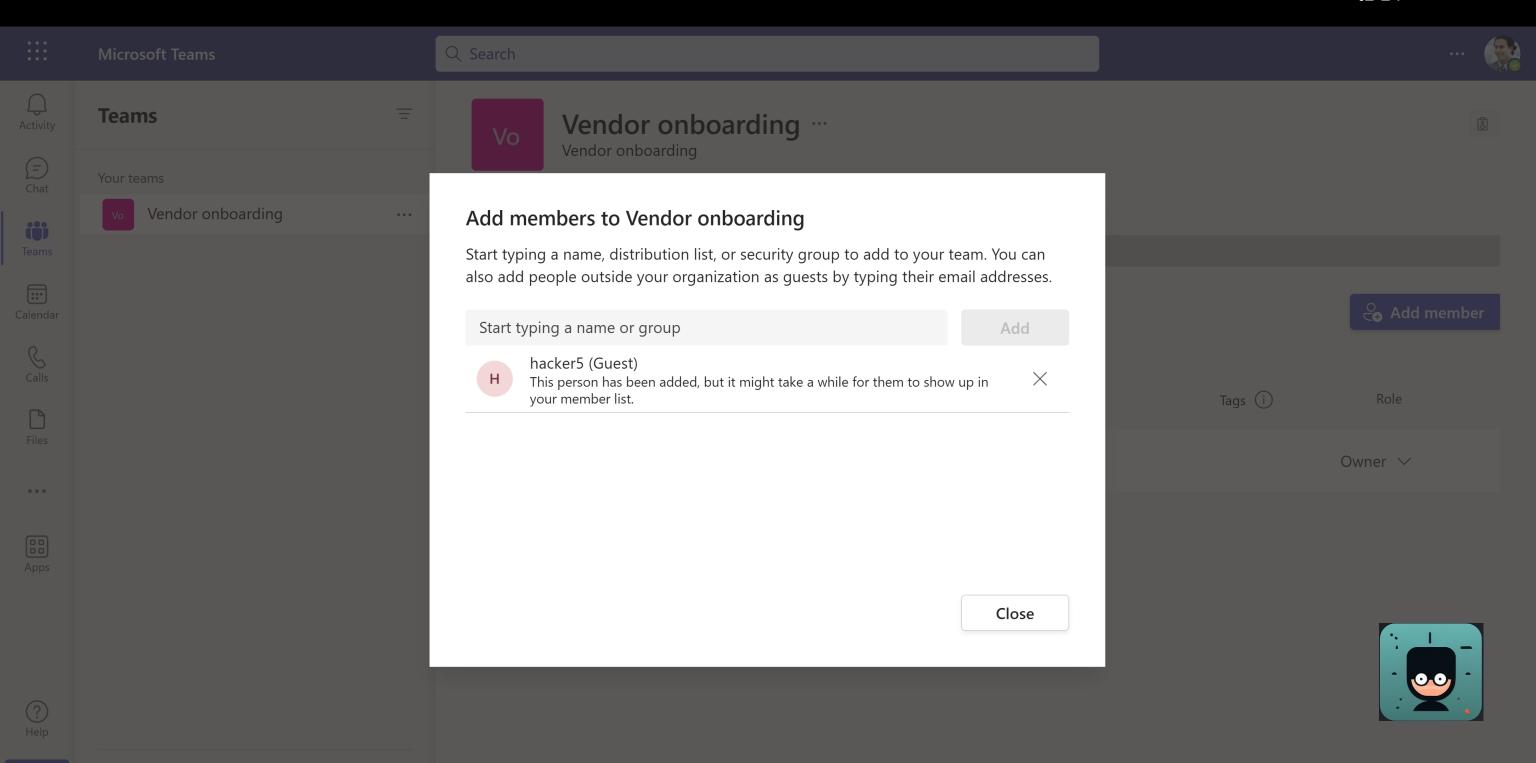


### Guest accounts in practice The real implication of guests

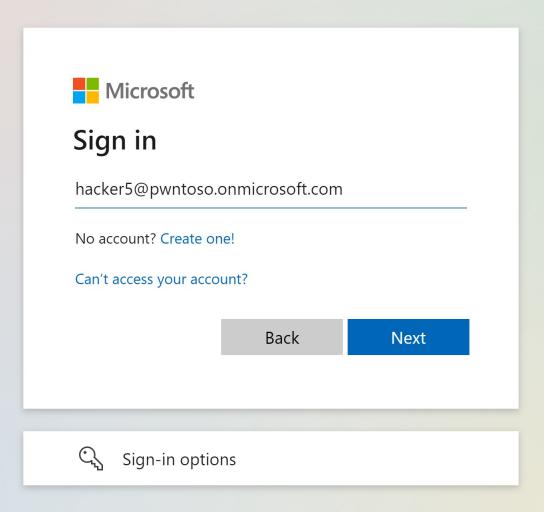








All You Need Is Guest





All You Need Is Guest



hacker5@pwntoso.onmicrosoft.com

#### Permissions requested by:

#### Zenity Demo

zenitydemo.onmicrosoft.com

By accepting, you allow this organization to:

- Receive your profile data
- ✓ Collect and log your activity
- $\checkmark$  Use your profile data and activity data

You should only accept if you trust Zenity Demo. **Zenity Demo has not provided links to their terms for you to review.** You can update these permissions at https://myaccount.microsoft.com/organizations.

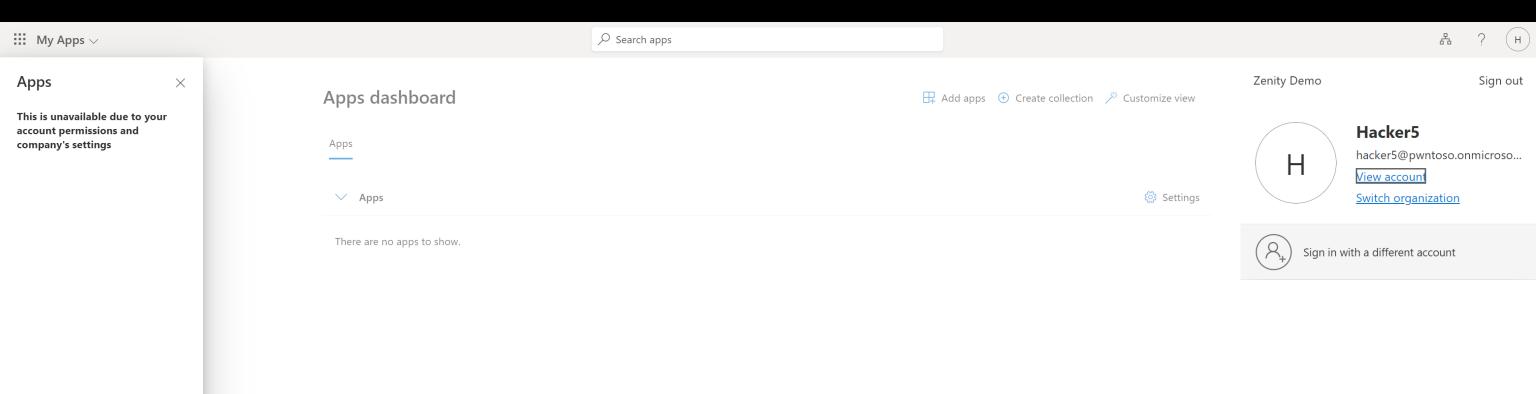
Learn more

This resource is not shared by Microsoft.

Cancel

Accept







### Everything works as expected?

## Everything works as expected?

# Guest exploitation state of the art

### Guest exploitation state of the art

### 1. Phishing via Teams

Research Endpoint security Microsoft Defender XDR Threat actors · 8 min read

### Malware distributor Storm-0324 facilitates ransomware access

By Microsoft Threat Intelligence

https://www.microsoft.com/enus/security/blog/2023/09/12/malware-distributorstorm-0324-facilitates-ransomware-access/

#### **New Teams-based phishing activity**

In July 2023, Storm-0324 began using phishing lures sent over Teams with malicious links leading to a malicious SharePoint-hosted file. For this activity, Storm-0324 most likely relies on a publicly available tool called TeamsPhisher. TeamsPhisher is a Python-language program that enables Teams tenant users to attach files to messages sent to external tenants, which can be abused by attackers to deliver phishing attachments. These Teams-based phishing lures by threat actors are identified by the Teams platform as "EXTERNAL" users if external access is enabled in the organization.

Microsoft takes these phishing campaigns very seriously and has rolled out several improvements to better defend against these threats. In accordance with Microsoft policies, we have suspended identified accounts and tenants associated with inauthentic or fraudulent behavior. We have also rolled out enhancements to the <a href="Accept/Block experience">Accept/Block experience</a> in one-on-one chats within Teams, to emphasize the externality of a user and their email address so Teams users can better exercise caution by not interacting with unknown or malicious senders. We rolled out new restrictions on the creation of domains within tenants and improved notifications to tenant admins when new domains are created within their tenant. In addition to these specific enhancements, our development teams will continue to introduce additional preventative and detective measures to further protect customers from phishing attacks.

Research Endpoint security Microsoft Defender XDR Threat actors · 8 min read

Malware distributor Storm-0324 facilitates ransomware access

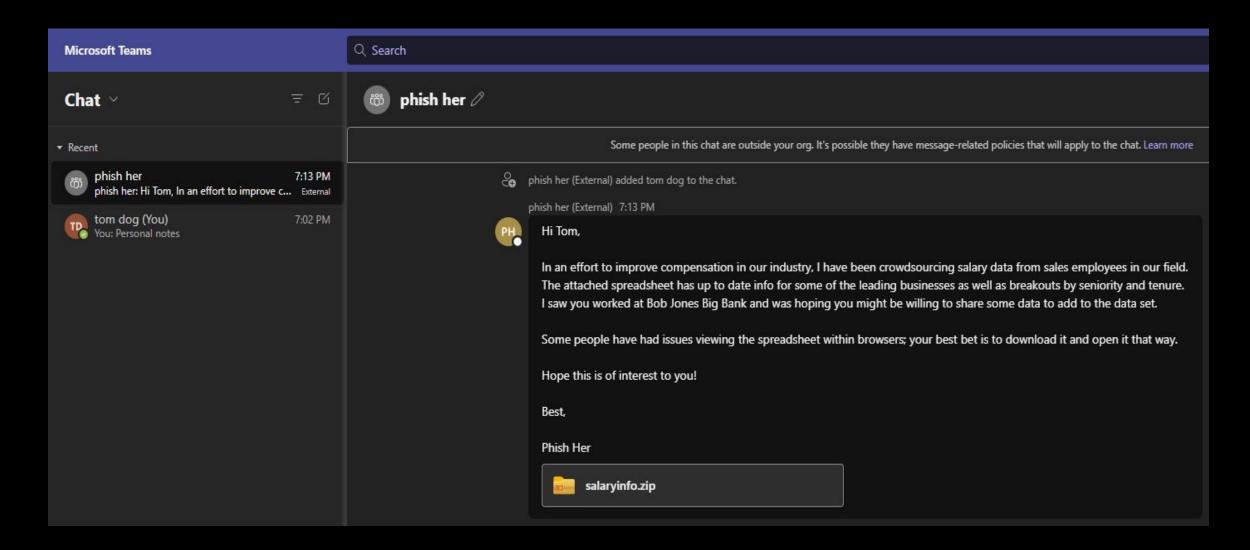
By Microsoft Threat Intelligence

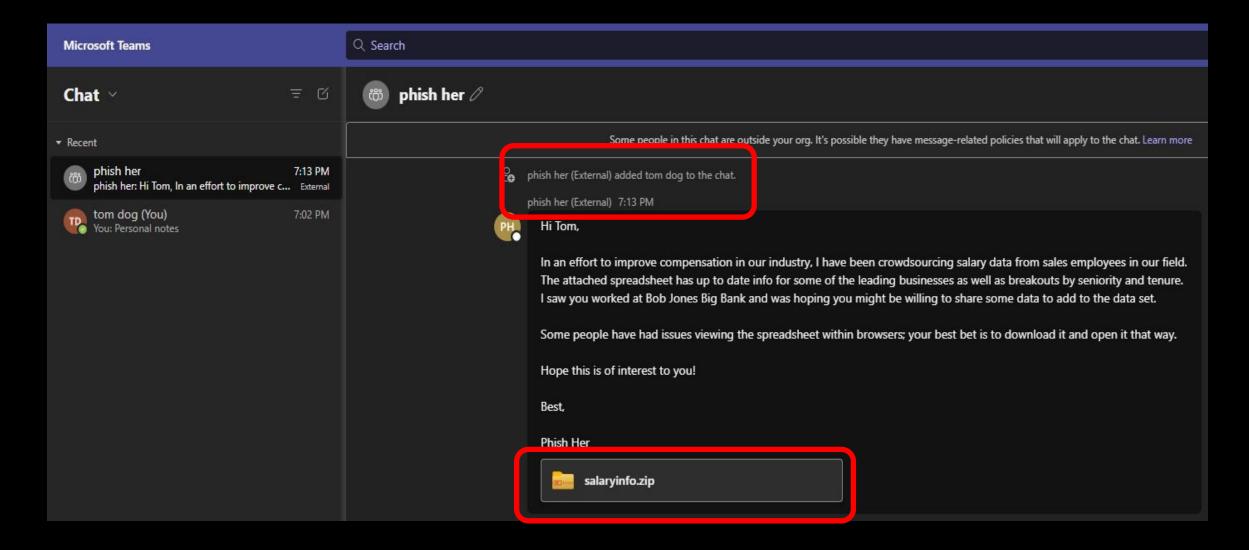
https://www.microsoft.com/enus/security/blog/2023/09/12/malware-distributorstorm-0324-facilitates-ransomware-access/

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### **Guest exploitation state of the art**

```
PS @mbrg0\BHUSA2023\All-You-Need-Is-Guest> $results.Users | Select-Object displayName.userPrincipalName
displayName
               userPrincipalName
Amv Alberts
               amva@zenitvdemo.onmicrosoft.com
Jamie Reding
               jamier@zenitydemo.onmicrosoft.com
               hi pwntoso.onmicrosoft.com#EXT#@zenitydemo.onmicrosoft.com
Julian Isla
               juliani@zenitydemo.onmicrosoft.com
Eric Gruber
               ericg@zenitydemo.onmicrosoft.com
Karen Berg
               karenb@zenitydemo.onmicrosoft.com
Greg Winston
               gregw@zenitydemo.onmicrosoft.com
Hacker5
                hacker5 pwntoso.onmicrosoft.com#EXT#@zenitydemo.onmicrosoft.com
Alan Steiner
               alans@zenitvdemo.onmicrosoft.com
Sven Mortensen svenm@zenitydemo.onmicrosoft.com
               carlosg@zenitvdemo.onmicrosoft.com
Alicia Thomber
               aliciat@zenitydemo.onmicrosoft.com
Anne Weiler
               annew@zenitvdemo.onmicrosoft.com
Sanjay Shah
               sanjays@zenitydemo.onmicrosoft.com
David So
               davids@zenitydemo.onmicrosoft.com
Dan Jump
               danj@zenitydemo.onmicrosoft.com
Christa Geller christag@zenitydemo.onmicrosoft.com
William Contoso williamc@zenitydemo.onmicrosoft.com
               hacker pwntoso.onmicrosoft.com#EXT#@zenitydemo.onmicrosoft.com
Jeff Hay
                jeffh@zenitydemo.onmicrosoft.com
Diane Prescott dianep@zenitydemo.onmicrosoft.com
Allie Bellew allieb@zenitydemo.onmicrosoft.com
```

## Phishing via Teams Directory recon

@DrAzureAD at aadinternals.com/post/quest for guest/

## State of the art ends here. But hackers want more!

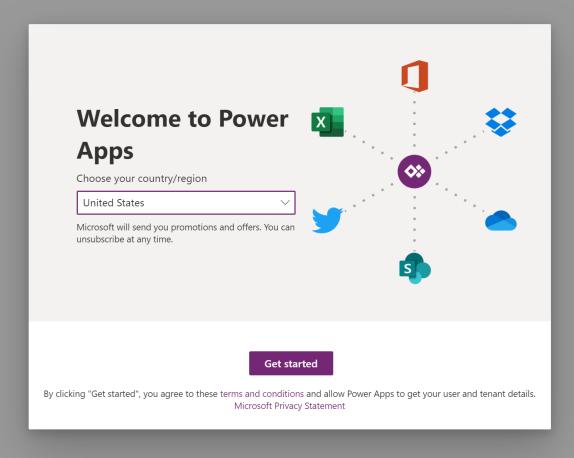
Can we access company data? Edit or delete data? Perform operations?

https://make.power apps.com/environm ents/Defaultfc993b0f-345b-4d01-9f67-9ac4a140dd43/con nections

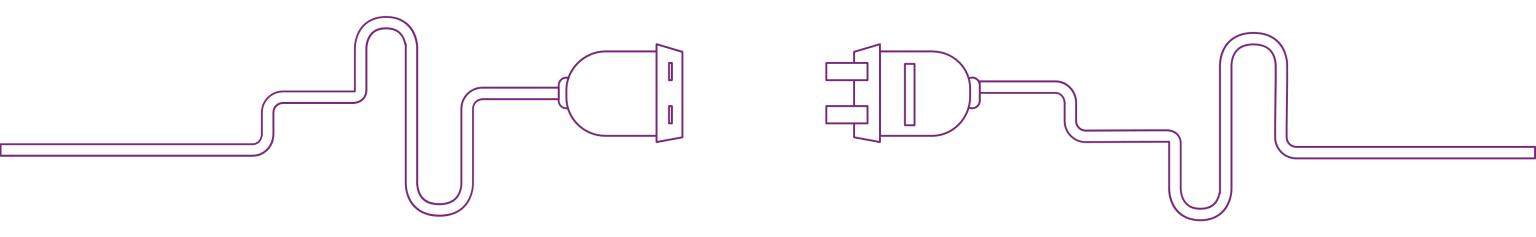


Go have an early lunch

All You Need Is Guest





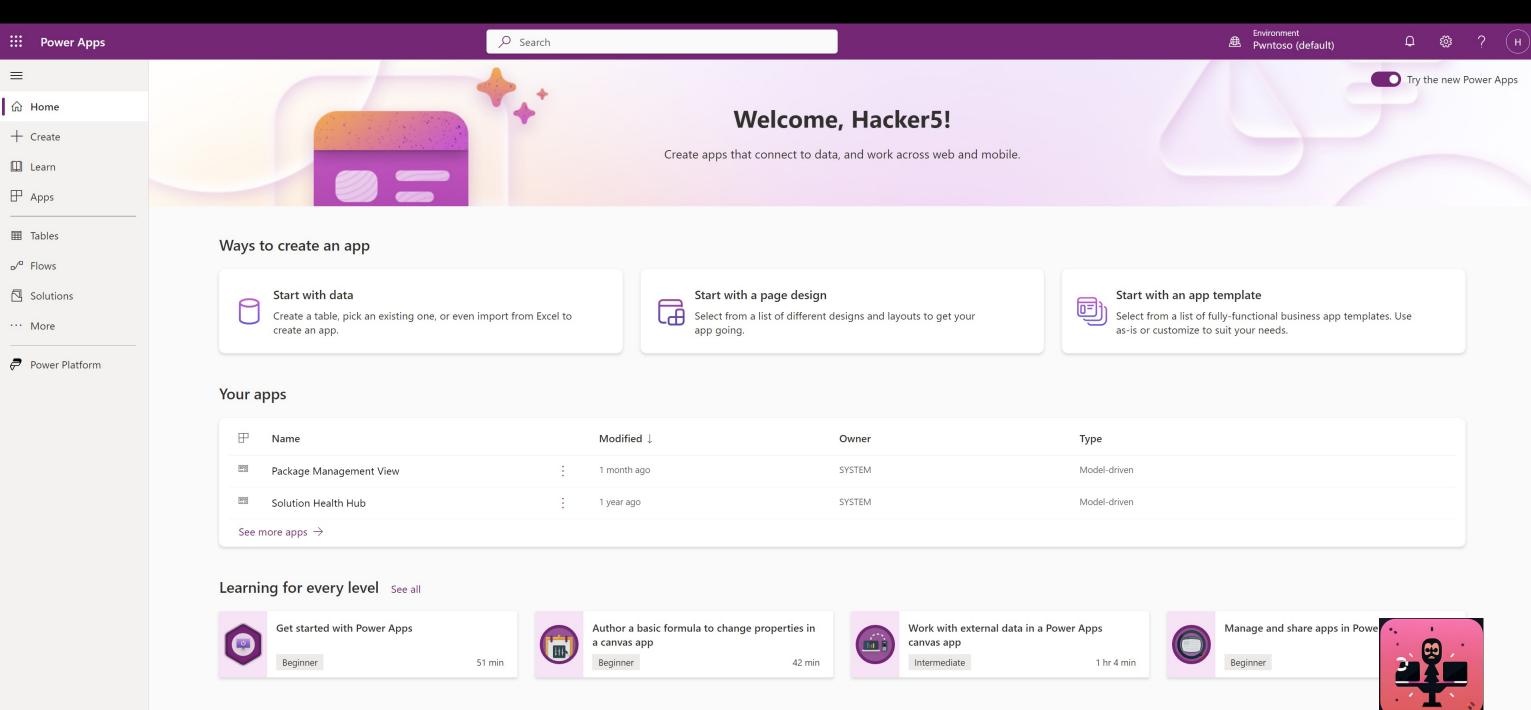


### Sorry, there's been a disconnect

The environment 'Default-fc993b0f-345b-4d01-9f67-9ac4a140dd43' could not be found in the tenant '420983fd-32b0-4abd-89e0-c3ef3236fc73'.

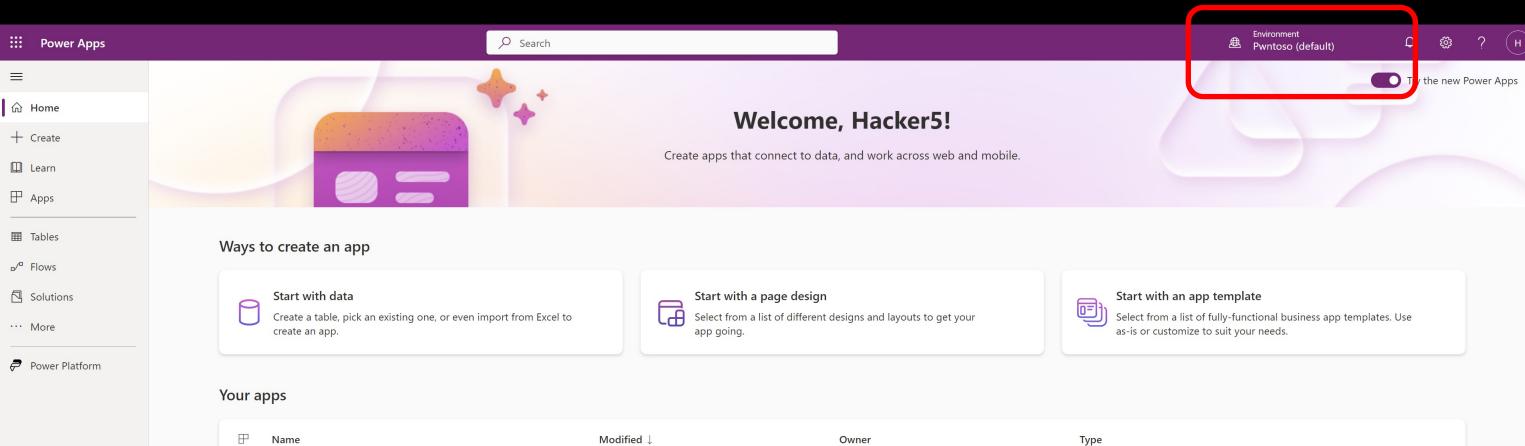
Go to home page





#### All You Need Is Guest

@mbrg0 mbgsec.com t2'24



SYSTEM

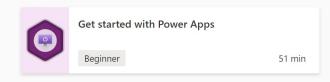
SYSTEM

#### Learning for every level See all

Solution Health Hub

See more apps  $\rightarrow$ 

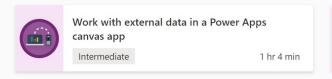
Package Management View





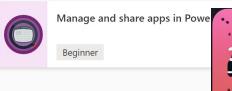
1 month ago

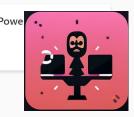
1 year ago

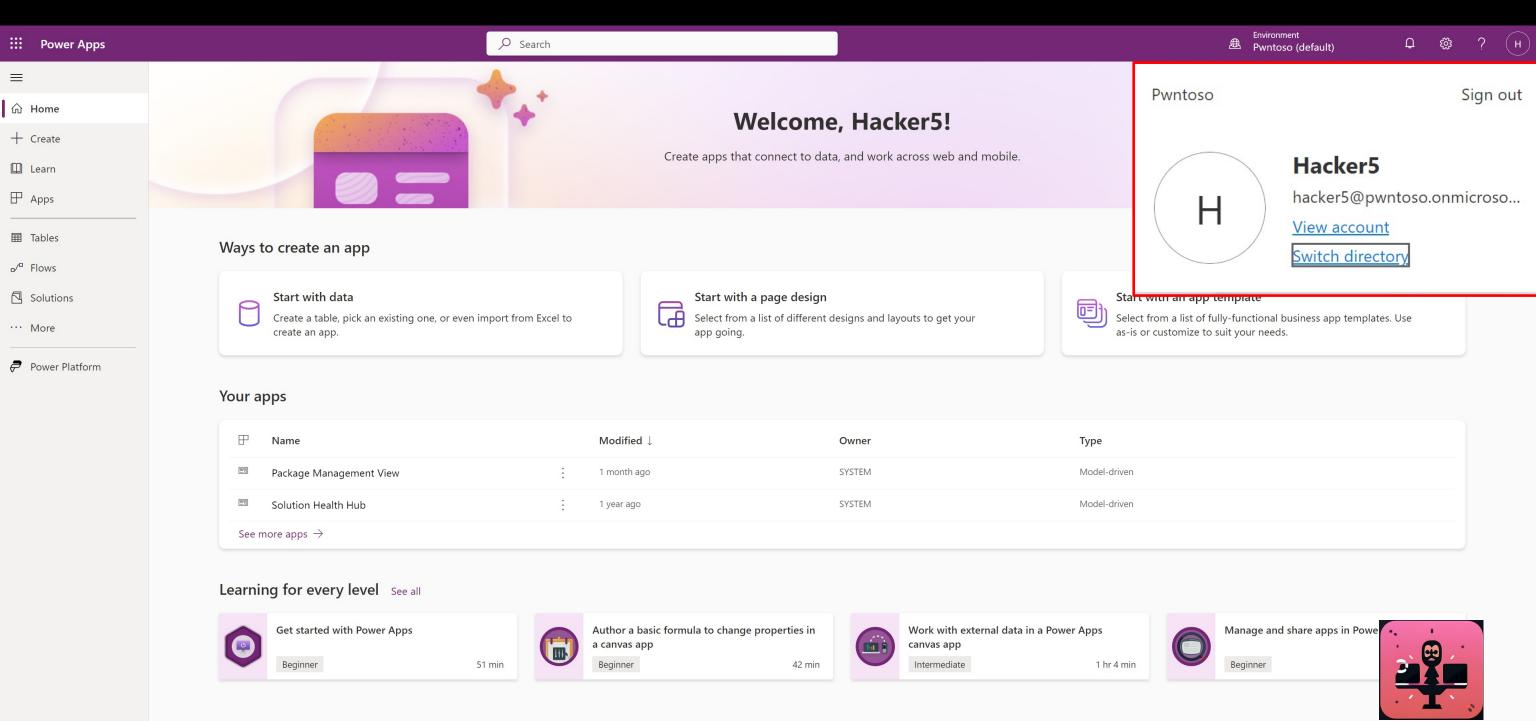


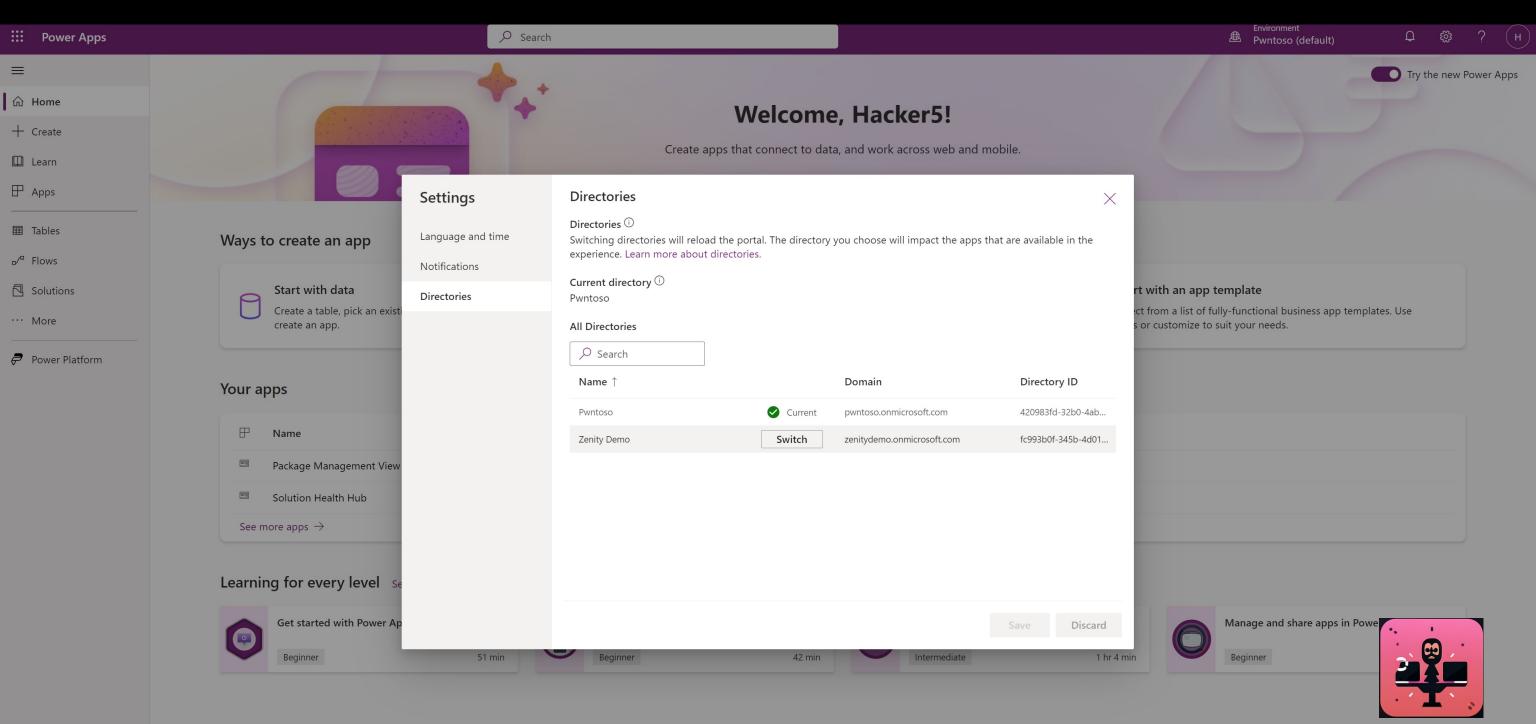
Model-driven

Model-driven





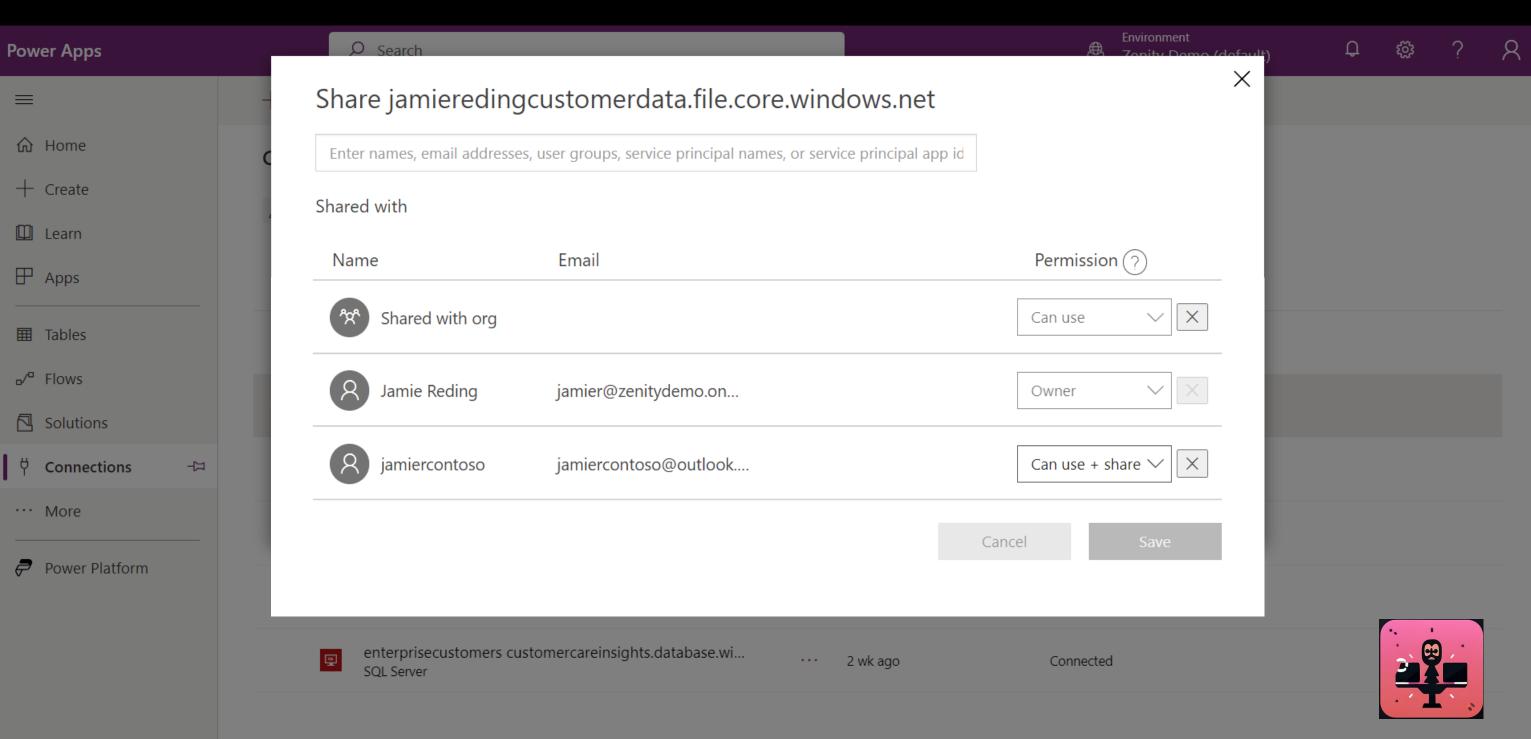


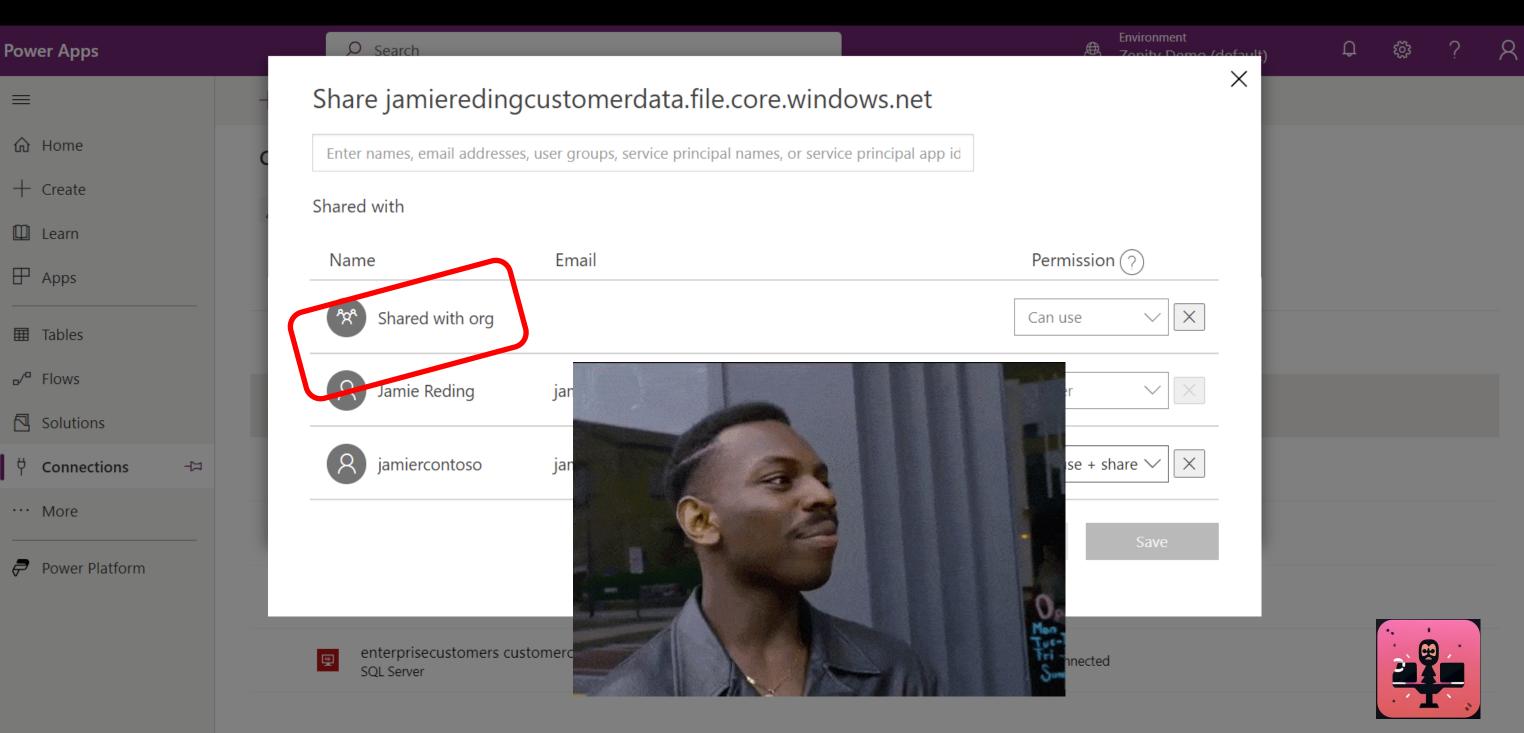


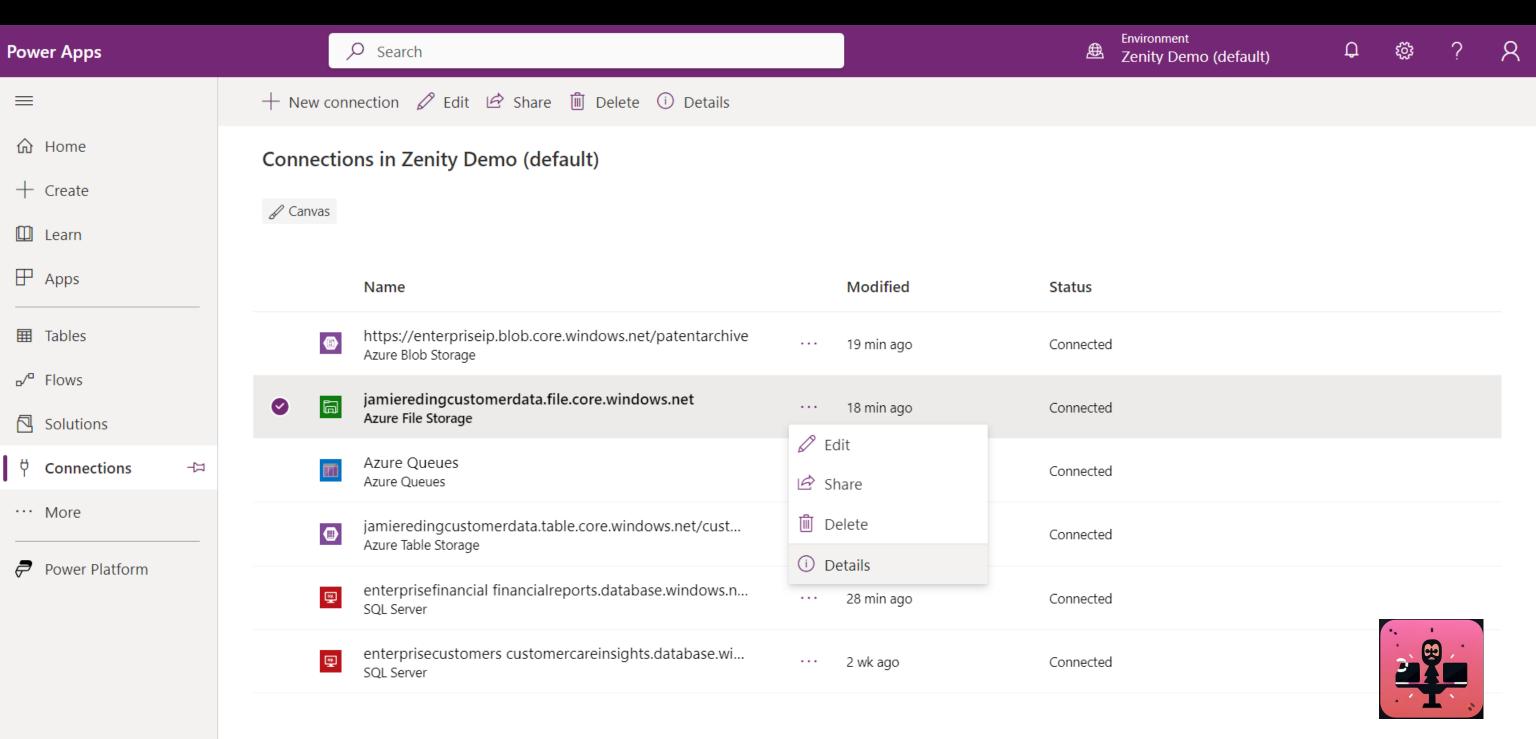
Power Apps	∠ Search		Environment  But Zenity Demo (default)	₽ ₿ ? A
=	+ New connection			∠ Search
<ul><li></li></ul>	Connections in Zenity Demo (default)   Canvas			
	Name	Modified	Status	
Ⅲ Tables	https://enterpriseip.blob.core.windows.net/patentarchive . Azure Blob Storage	·· 11 min ago	Connected	
□ Flows  Solutions	jamieredingcustomerdata.file.core.windows.net Azure File Storage	·· 10 min ago	Connected	
♥ Connections	Azure Queues	· · 3 wk ago	Connected	
··· More	jamieredingcustomerdata.table.core.windows.net/cust Azure Table Storage	·· 14 min ago	Connected	
Power Platform	enterprisefinancial financialreports.database.windows.n SQL Server	· · 20 min ago	Connected	
	enterprisecustomers customercareinsights.database.wi SQL Server	·· 2 wk ago	Connected	
				· · · I · »

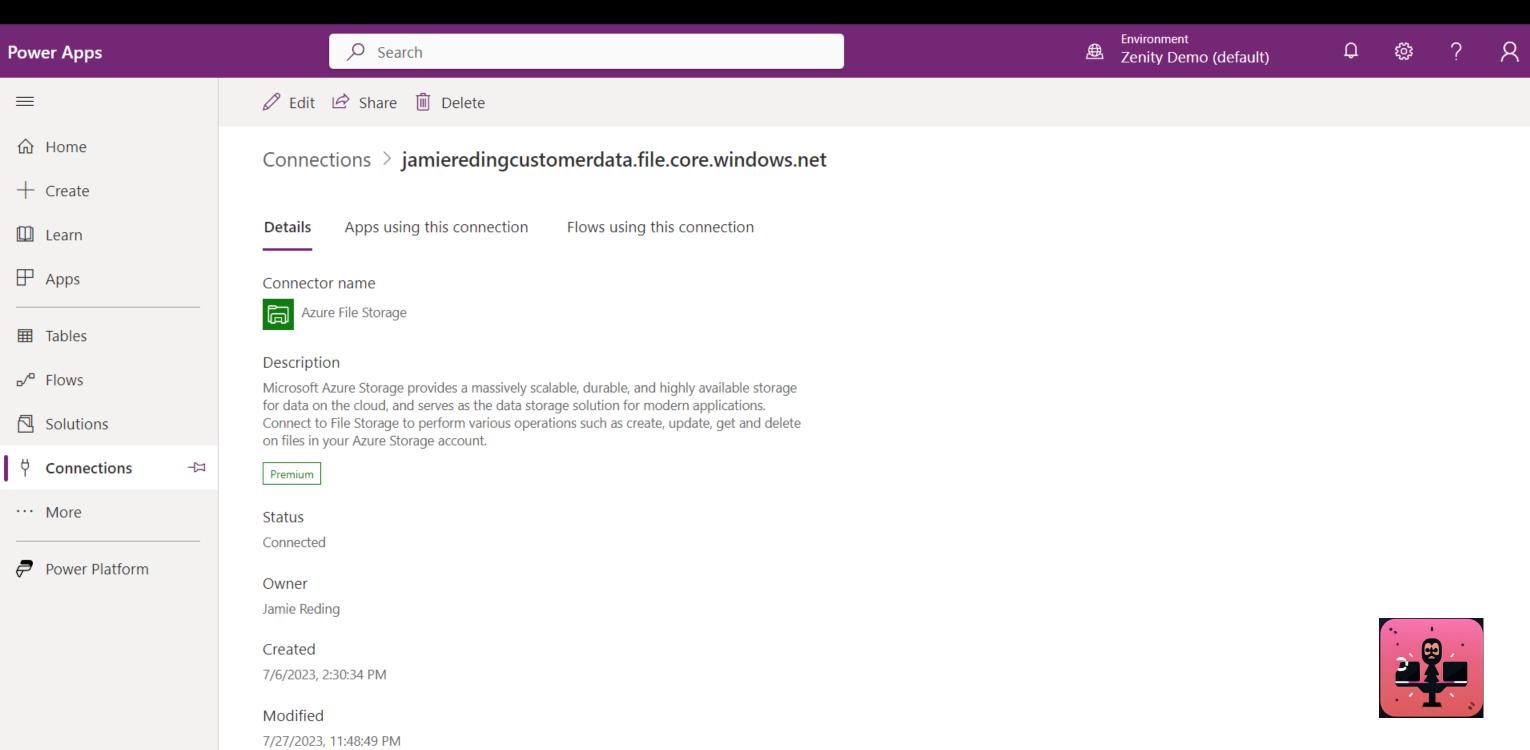
Power Apps		∠ Search			<b>A</b>	Environment Zenity Demo (default)	Û	<b>©</b>	?	R
=	+ New connection ⊘ Edit 🖻 Share 🗓 Delete ① Details									
ம் Home	Connections in Zenity Demo (default)									
+ Create										
Learn	& Curivus									
☐ Apps		Name		Modified	Status					
Ⅲ Tables		https://enterpriseip.blob.core.windows.net/patentarchive Azure Blob Storage		13 min ago	Connected	I				
□ Flows Solutions	<b>⊘</b> □	jamieredingcustomerdata.file.core.windows.net Azure File Storage		12 min ago	Connected	I				
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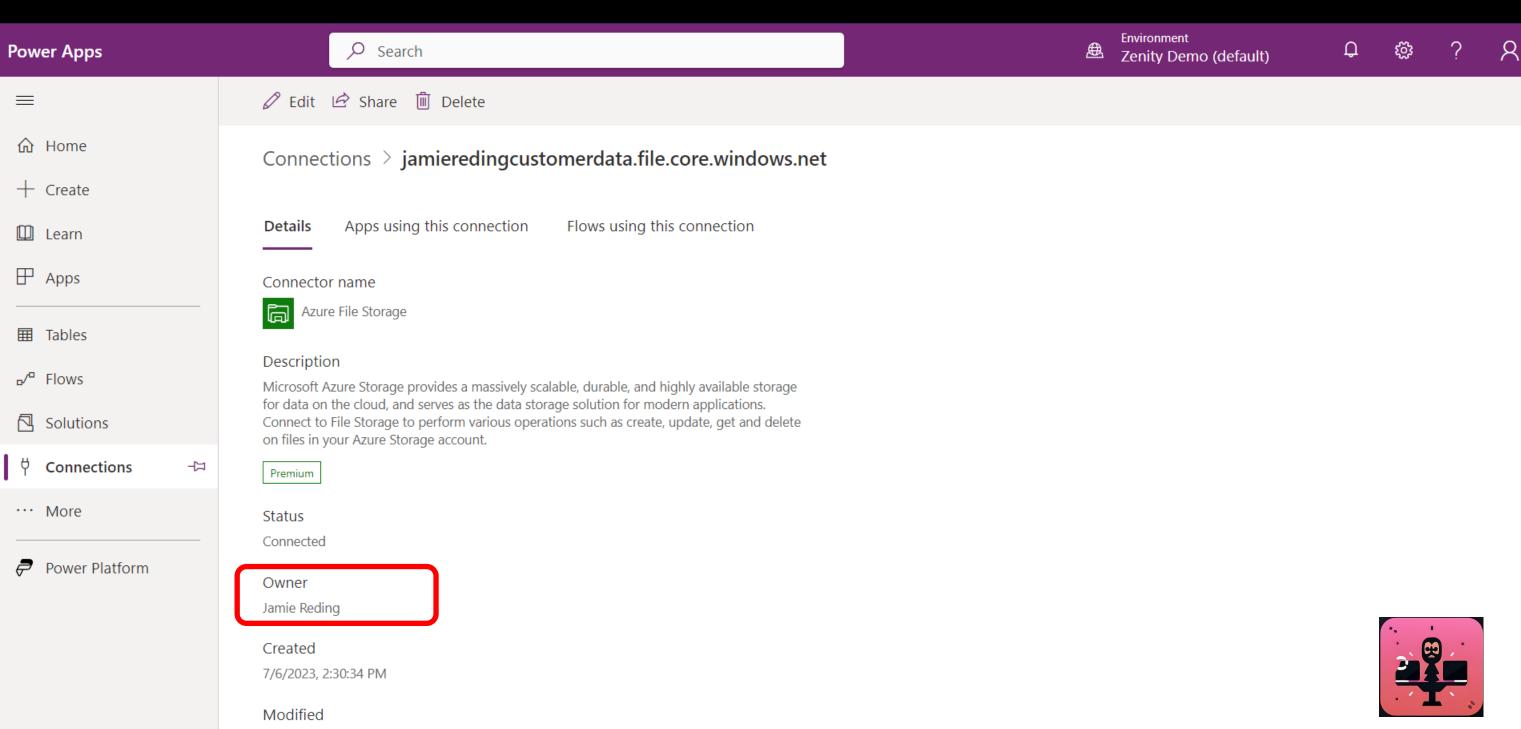
Power Apps	∠ Search		Environment 盘 Zenity Demo (default)	Û	₿ ?	Я	
	+ New connection 🖉 Edit 🖻 Share 🛍 Delete ① Details						
் Home	Connections in Zenity Demo (default)						
+ Create							
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Ⅲ Tables	https://enterpriseip.blob.core.windows.net/patentarchive Azure Blob Storage	··· 14 min ago	Connected				
□ Flows  Solutions	jamieredingcustomerdata.file.core.windows.net Azure File Storage	··· 13 min ago	Connected				
<sup>†</sup> Connections -≒	Azure Queues Azure Queues	<ul><li>✓ Edit</li><li>✓ Share</li></ul>	Connected				
··· More	jamieredingcustomerdata.table.core.windows.net/cust Azure Table Storage	iii Delete	Connected				
Power Platform	enterprisefinancial financialreports.database.windows.n	Details     23 min ago	Connected				
	enterprisecustomers customercareinsights.database.wi SQL Server	··· 2 wk ago	Connected				



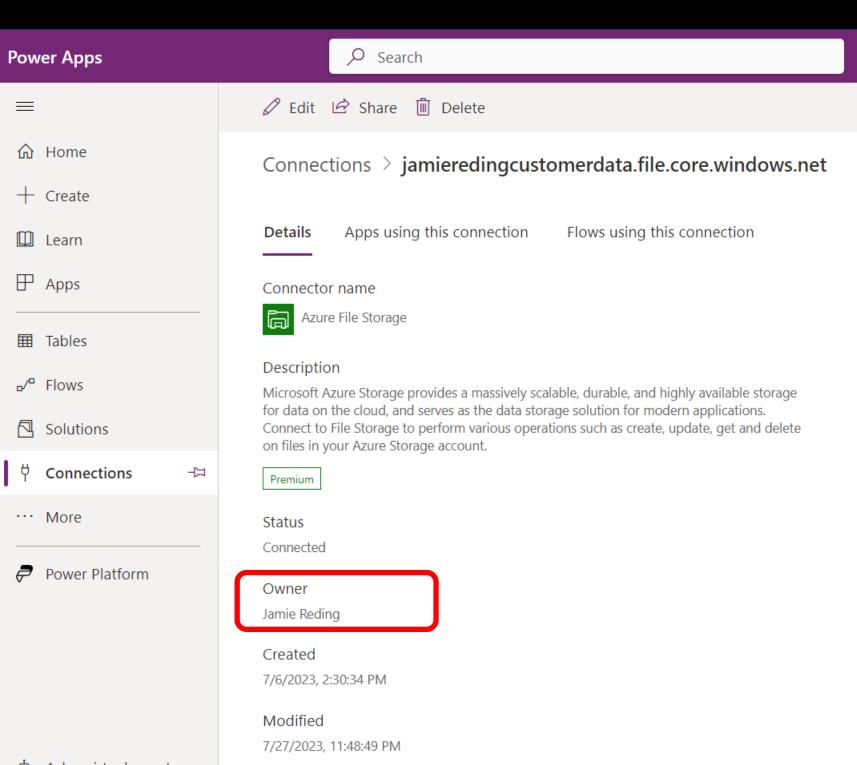


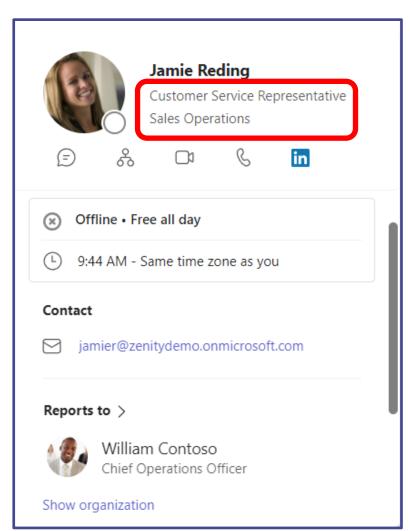






7/27/2023, 11:48:49 PM





**Environment** 

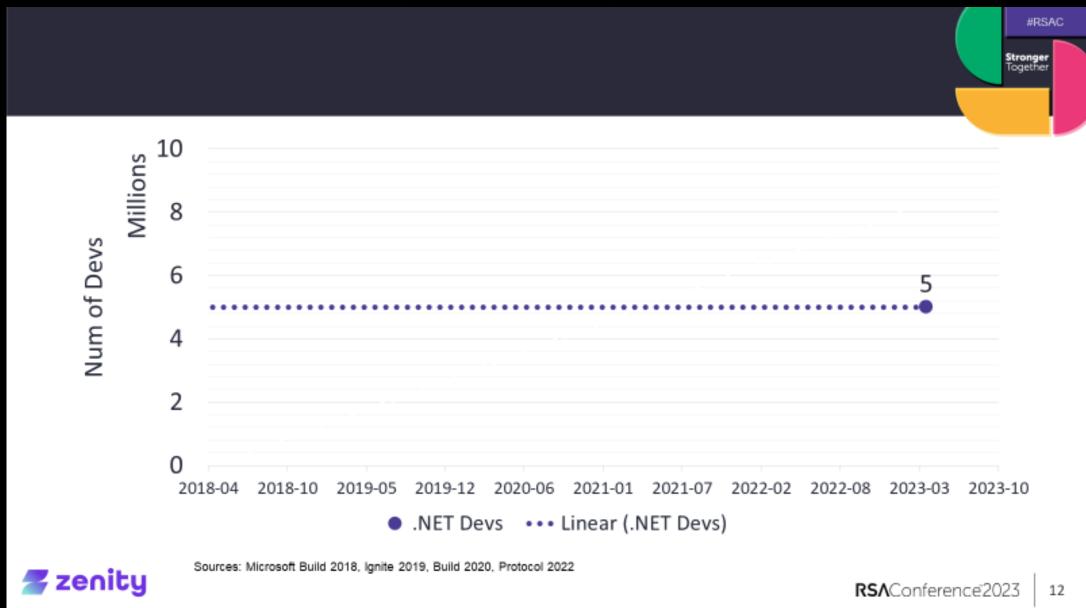
型 Zenity Demo (default)



Business users are building their own apps w/ low-code/no-code + GenAl



### Is this actually being used?



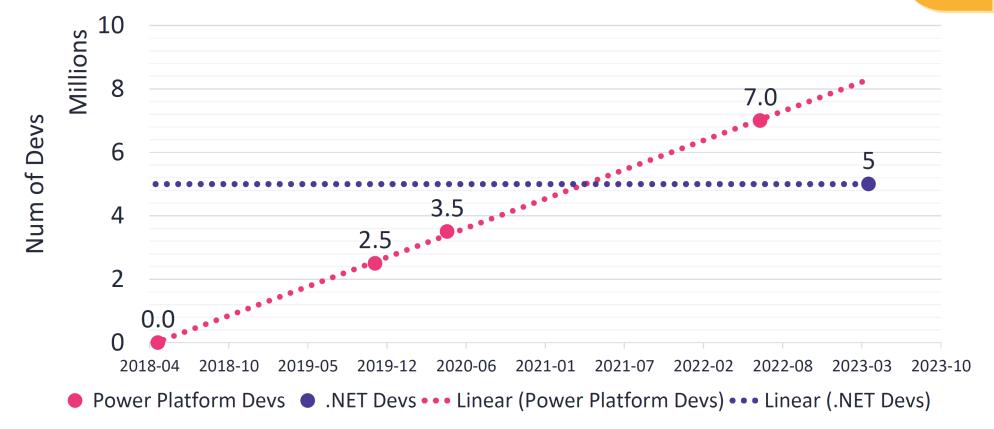
Credential
Sharing as a
Service: The Dark
Side of No Code

Michael Bargury RSAC 2023

### ~8M active Power devs today!

More MSFT low-code devs than .NET devs, today!

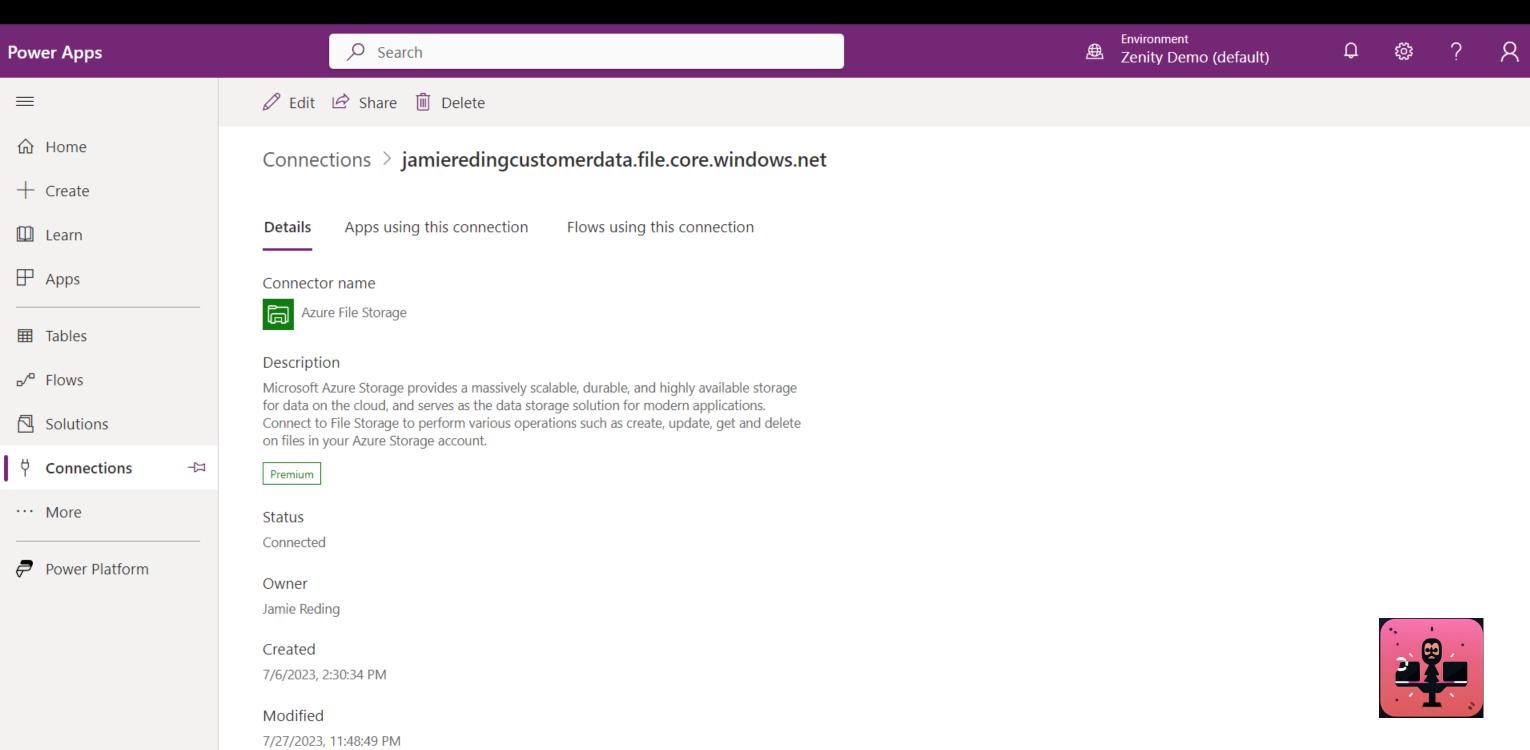


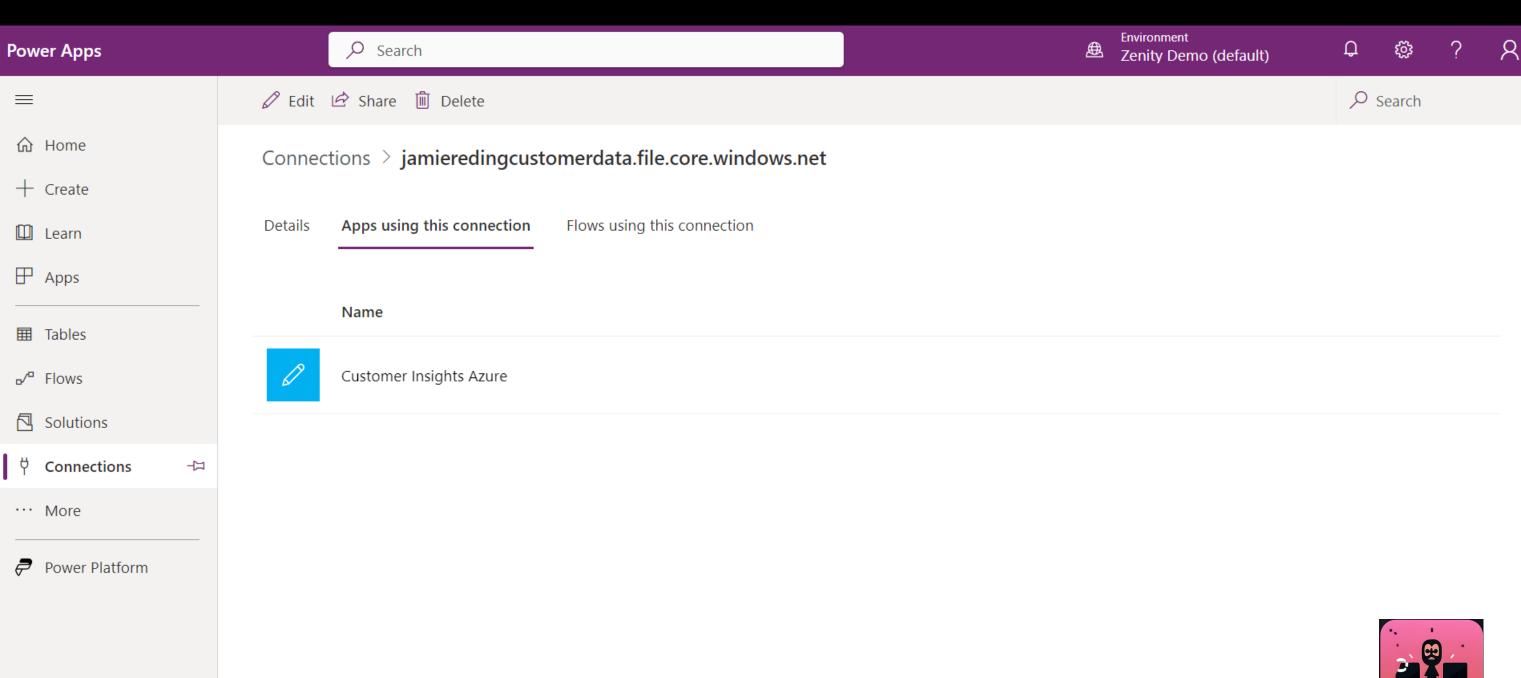


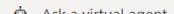
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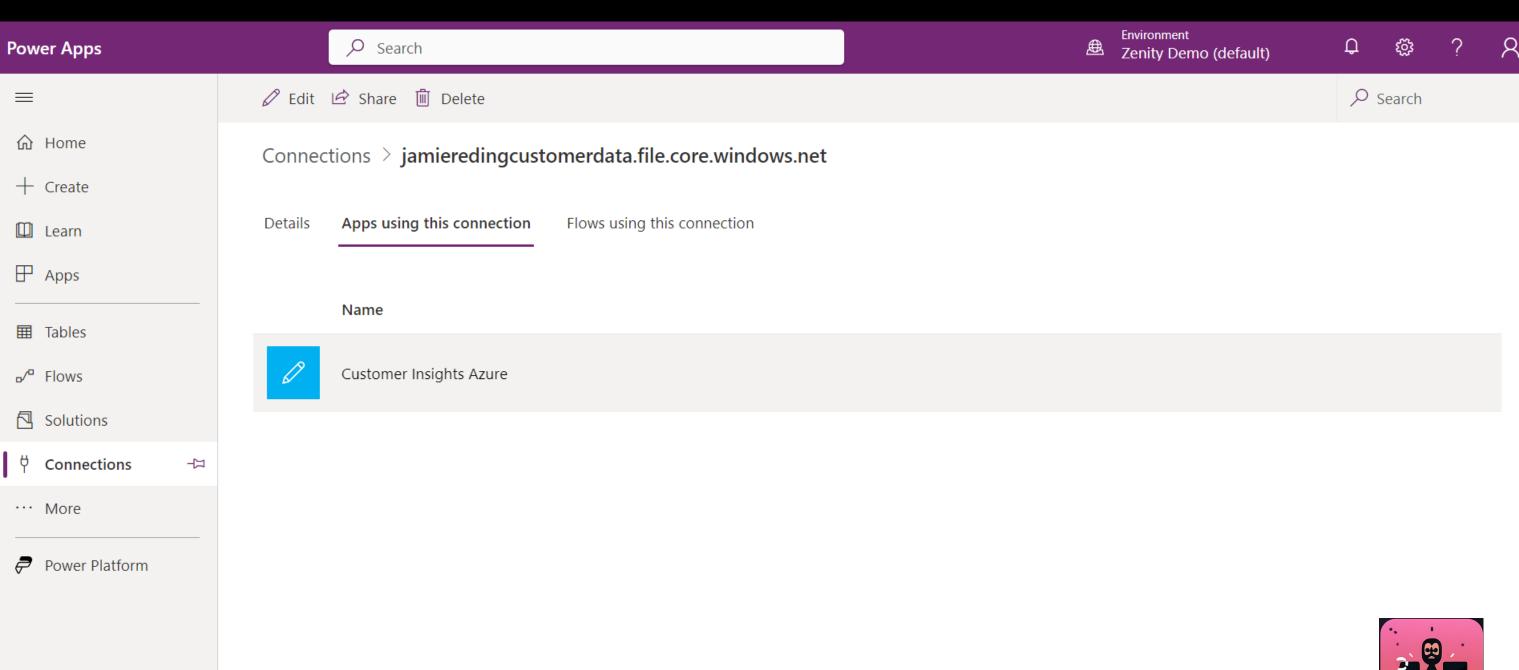
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### Exploit



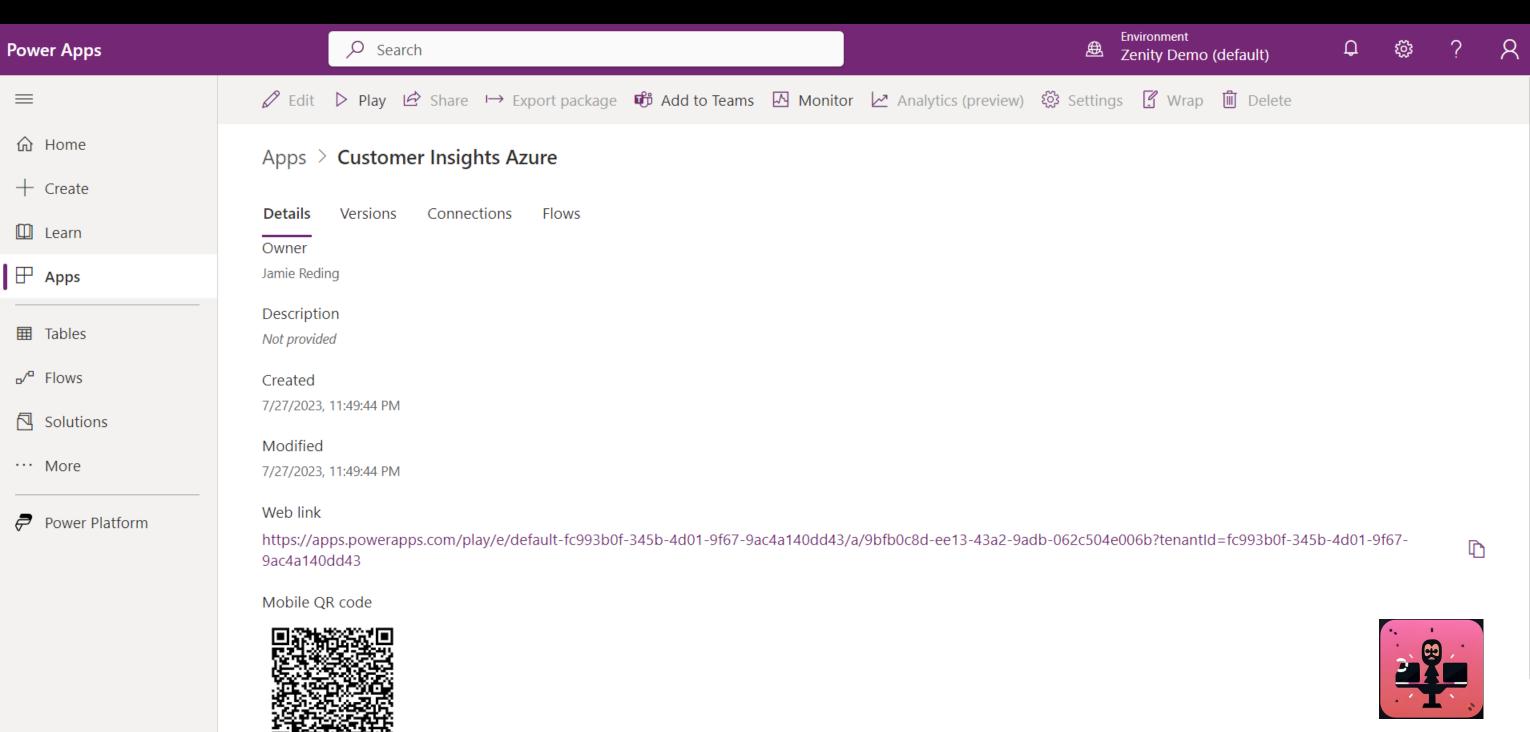








Ack a virtual agent



Power Apps |

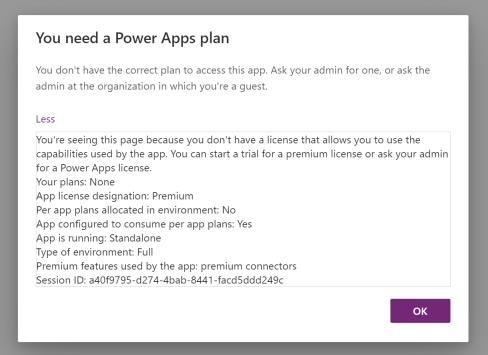


ОК

## You need a Power Apps plan You don't have the correct plan to access this app. Ask your admin for one, or ask the admin at the organization in which you're a guest.

More







Power Apps |

## You need a Power Apps plan

You don't have the correct plan to access this app. Ask your admin for one, or ask the admin at the organization in which you're a guest.

#### Less

You're seeing this page because you don't have a license that allows you to use the capabilities used by the app. You can start a trial for a premium license or ask your admin for a Power Apps license.

Your plans: None

App license designation: Premium

Per app plans allocated in environment: No

App configured to consume per app plans: Yes

App is running: Standalone Type of environment: Full

Premium features used by the app: premium connectors Session ID: a40f9795-d274-4bab-8441-facd5ddd249c





Announcing new conversational AI features in Power Apps, including generative AI bots for your apps >

### **Power Apps Developer Plan**

Build and test Power Apps for free

**Get started free** >

Existing user? Add a dev environment >





#### Free for development and testing

Create apps and flows without writing code with full-featured Power Apps and Power Automate development tools. Easily share and collaborate with others.



#### **Developer-friendly**

Connect to data sources, including Azure, Dynamics 365, and custom APIs, with premium connectors. Create additional environments to exercise application lifecycle management and CI/CD.



#### Dataverse included

Save time with a fully managed, scalable, Azure-backed data platform, including support for common business app actions. Use out-of-the-box common tables or easily build your own data schema.





## You've selected Microsoft Power Apps for Developer

1) Let's get you started

Enter your work or school email address, we'll check if you need to create a new account for Microsoft Power Apps for Developer.

#### **Email**

hacker5@pwntoso.onmicrosoft.com

By proceeding you acknowledge that if you use your organization's email, your organization may have rights to access and manage your data and account.

Learn More

Next

- 2 Create your account
- 3 Confirmation details



The Developer Plan makes it easy for anyone to build and test apps with user-friendly low-code tools – for free. Including, ongoing free access to:

- Online learning resources and tutorials
- Microsoft Power Apps
- Microsoft Dataverse
- More than 600 pre-built connectors





## You've selected Microsoft Power Apps for Developer

- (1) Let's get you started
- 2 Create your account
- (3) Confirmation details

Thanks for signing up for Microsoft Power Apps for Developer

Your username is hacker5@pwntoso.onmicrosoft.com

**Get Started** 



The Developer Plan makes it easy for anyone to build and test apps with user-friendly low-code tools – for free. Including, ongoing free access to:

- Online learning resources and tutorials
- Microsoft Power Apps
- Microsoft Dataverse
- More than 600 pre-built connectors



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## This app isn't opening correctly

It looks like this app isn't compliant with the latest data loss prevention policies.

More



## This app isn't opening correctly

It looks like this app isn't compliant with the latest data loss prevention policies.

#### Less

It looks like this app isn't compliant with the latest data loss prevention policies.

Policy name: Deny Azure File Storage

Connector: shared\_azurefile cannot be used since it is blocked by your company's admin.



## This app isn't opening correctly

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#### Les

It looks like this app isn't compliant with the latest data loss prevention policies.

Policy name: Deny Azure File Storage

Connector: shared\_azurefile cannot be used since it is blocked by your company's admin.



# So we were able to bypass the license requirement

**But blocked by... DLP?** 

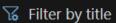


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→ Data loss prevention policies

#### Overview

Create a DLP policy

Manage DLP policies

Data loss prevention SDK

Basic connector classification

Connector action control

Connector endpoint filtering

(preview)

DLP for custom connectors

DLP for Power Automate

DLP for desktop flows

Disable new connectors

View policies and policy scope

Effect of multiple policies

Impact on apps and flows

Exempt apps and flows

Learn / Power Platform /

## Data loss prevention policies

Article • 07/12/2023 • 7 contributors

△ Feedback

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Your organization's data is likely one of the most important assets you're responsible for safeguarding as an administrator. The ability to build apps and automation to use that data is a large part of your company's success. You can use Power Apps and Power Automate for rapid build and rollout of these high-value apps so that users can measure and act on the data in real time. Apps and automation are becoming increasingly connected across multiple data sources and multiple services. Some of these might be external, third-party services and might even include some social networks. Users generally have good intentions, but they can easily overlook the potential for exposure from data leakage to services and audiences that shouldn't have access to the data.

You can create data loss prevention (DLP) policies that can act as guardrails to help prevent users from unintentionally exposing organizational data. DLP policies can be scoped at the environment level or tenant level, offering flexibility to craft sensible policies that strike the right balance between protection and productivity. For tenant-level policies you can define the scope to be all environments, selected environments, or all environments except ones you specifically exclude. Environment-level policies can be defined for one environment at a time.

#### Additional resources

#### Documentation

#### Connector classification - Power Platform

About ways to categorize connectors within a DLP policy.

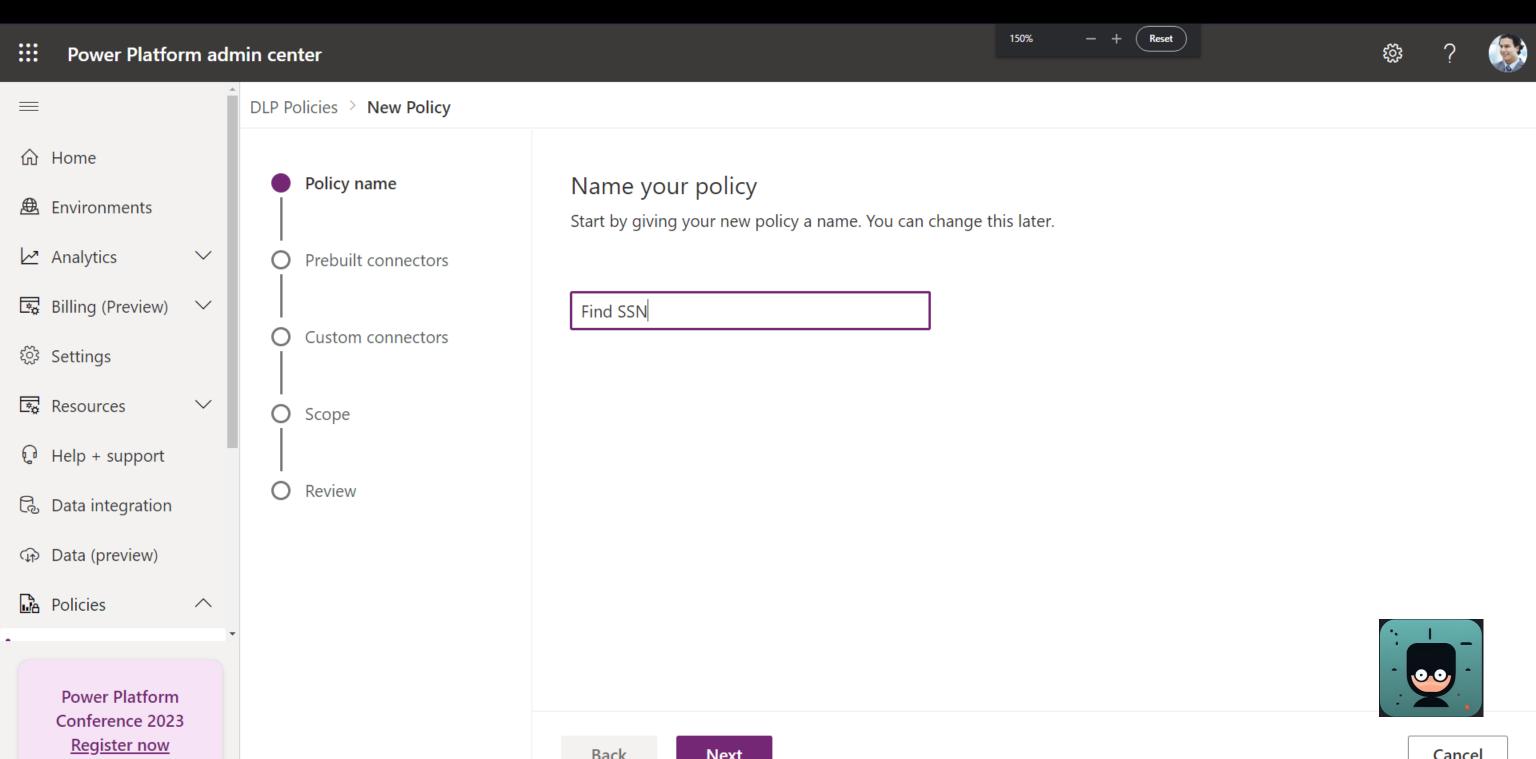
#### Create a data loss prevention (DLP) policy -**Power Platform**

In this topic, you learn how to create a data loss prevention (DLP) policy in Power Apps

#### Impact of DLP policies on apps and flows -**Power Platform**

About the impact of DLP policies on apps and flows.

#### Show 5 more



#### £ **Power Platform admin center** DLP Policies > New Policy Set default group **Home** Policy name **A** Environments Assign connectors ① ∠ Analytics **Prebuilt connectors** Search connectors Business (0) Non-business (1056) | Default Blocked (0) Billing (Preview) **Custom connectors** 🛱 Settings Connectors for non-sensitive data. Connectors in this group can't share data with connectors in other groups. Unassigned connectors will show up here by default. Resources Scope Name ∨ Blockable ∨ **Endpoint config** Help + support Review Data integration 5 SharePoint No No Data (preview) Policies OneDrive for Business No No Dynamics 365 (deprecated) Yes **Power Platform** Conference 2023 Register now Back Cancel Next

#### £ **Power Platform admin center** DLP Policies > New Policy △ Move to Business ○ Block ᠅ Configure connector ∨ 🔯 Set default group **Home** Policy name i) One or more of the selected connectors can't be blocked. Environments ∠ Analytics **Prebuilt connectors** Assign connectors ① Billing (Preview) Search connectors **Custom connectors** Business (0) Non-business (1056) | Default Blocked (0) ঞ্জি Settings Connectors for non-sensitive data. Connectors in this group can't share data with connectors in other groups. Unassigned Resources Scope connectors will show up here by default. Help + support Blockable ∨ Name ∨ **Endpoint config** Review □ Data integration Data (preview) SharePoint No No Policies OneDrive for Business No **Power Platform** Conference 2023 Register now Back Cancel

