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# CREDENTIAL SHARING AS A SERVICE: THE DARK SIDE OF NO CODE

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Michael Bargury @mbrg0  
Zenity

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# About me



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



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# Outline

- No Code in a nutshell
- No Code attacks observed in the wild and recreated with **POWERPWN**
  - Living off the land – account takeover, lateral movement, PrivEsc, data exfil
  - Phishing made easy
  - Hiding in plain sight
- How to defend
- The latest addition to your red team arsenal



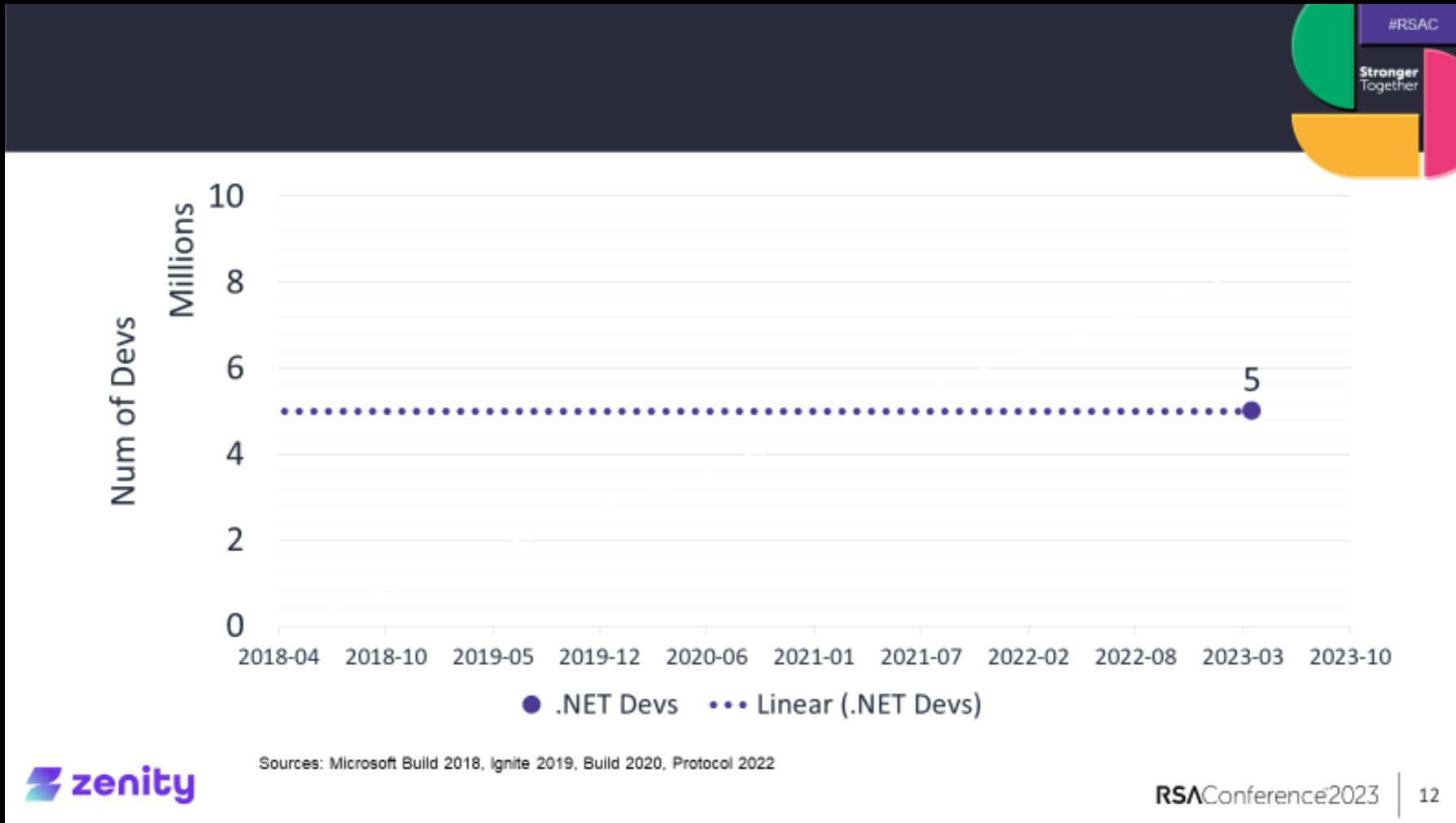
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# No-Code in a Nutshell

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# C# devs today

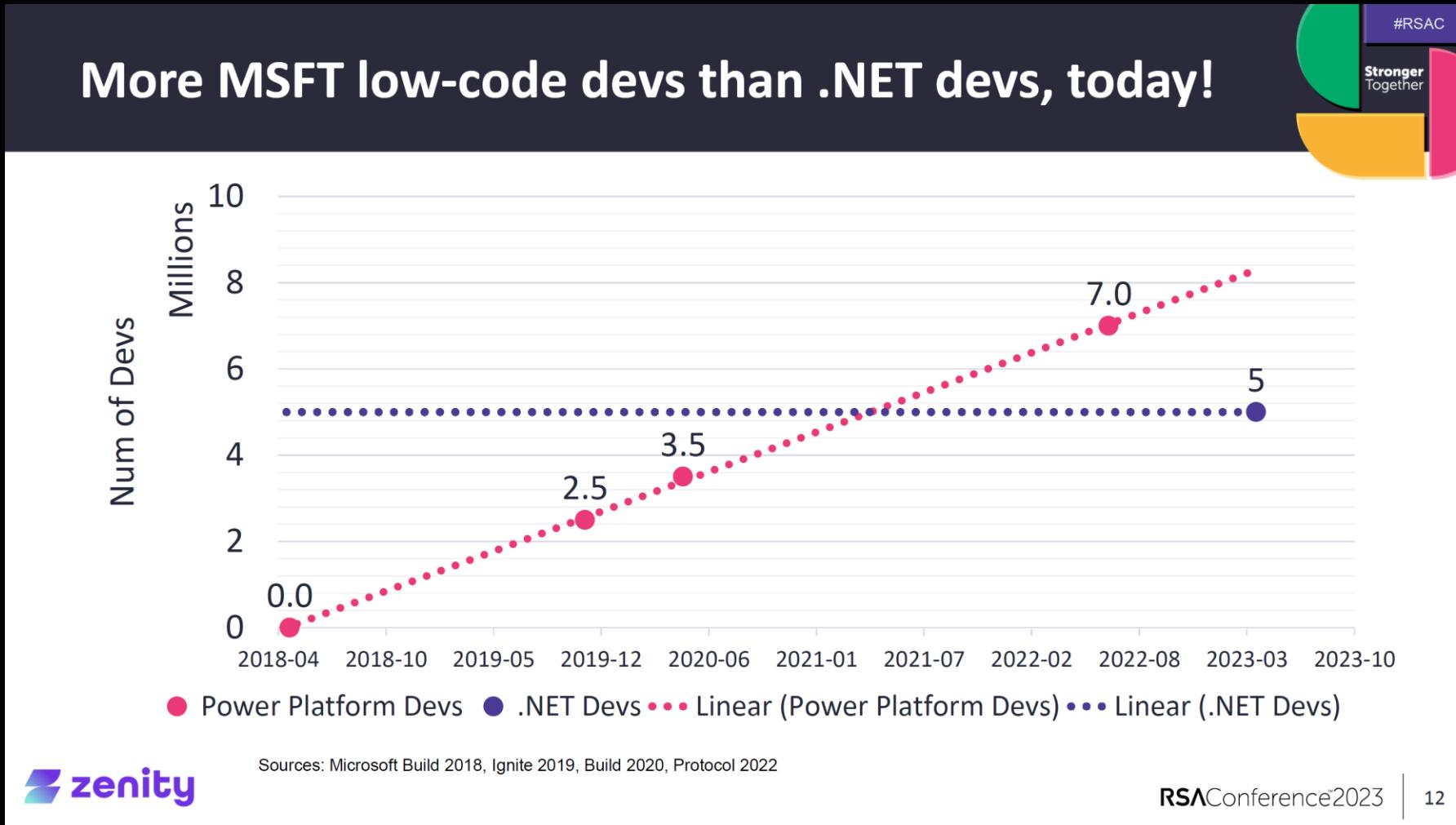


# *Credential Sharing as a Service: The Dark Side of No Code*

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RSAC 2023

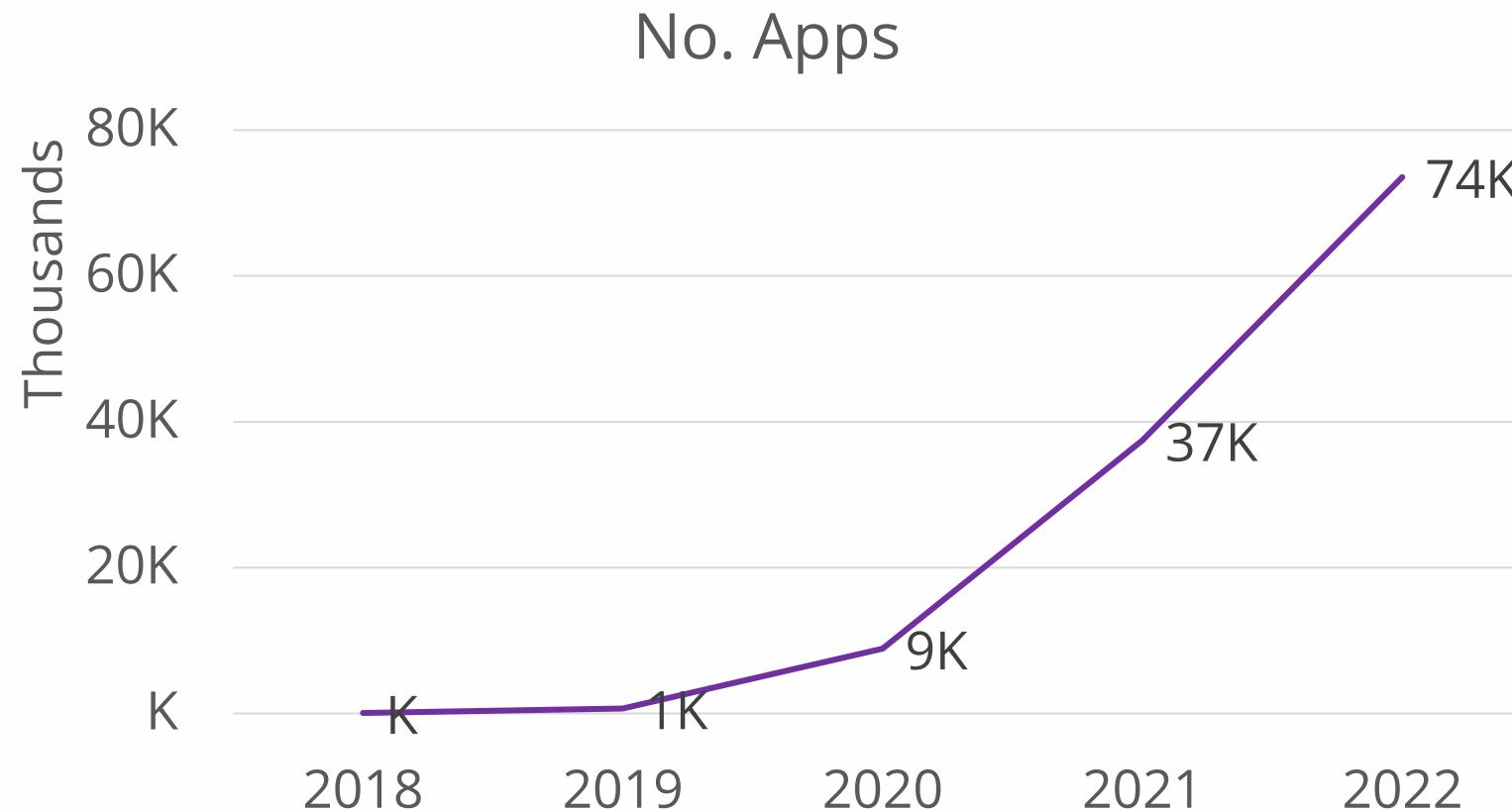


# ~8M active Power devs today!





# Exponential Growth in Citizen Development





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# Why No Code?

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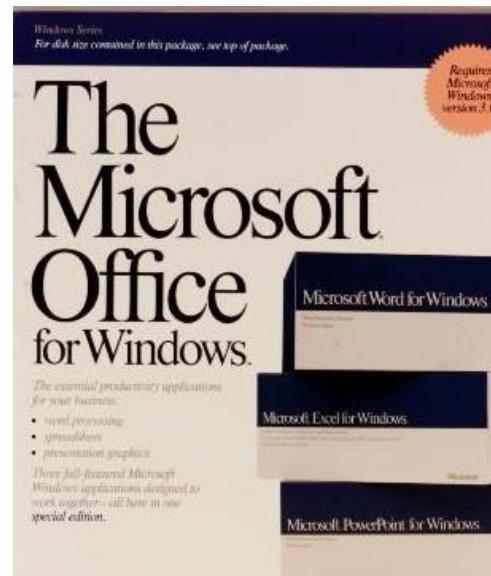
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# “Everyone is a developer”



PALETTE

CONTROLS

- Button
- Group Buttons
- Input
- Textarea
- Datepicker
- Label
- Link
- Radio
- Checkbox
- Slider
- On/Off
- Select
- List
- Image
- Grid
- Navbar

Details

Back Details

Item 1

Label

Label

Label

Label

QA I have a bag of apples, there are 5 apples in it, if I take 2 out of it, how many apples are left in the bag?

QA If you have a bag with 5 apples in it and you take 2 out of it, then there will be 3 apples left in the bag. This is because  $5 - 2 = 3$ .

QA If I take out 2 more apples, how many apples are still in the bag now?

QA If you have a bag with 5 apples in it and you take 2 apples out, then there will be 3 apples left in the bag. If you take out 2 more apples, then there will be 1 apple left in the bag. This is because  $3 - 2 = 1$ .

In total, if you take out 4 apples from a bag with 5 apples in it, then there will be 1 apple left in the bag. This is because  $5 - 4 = 1$ .

QA What if I put in 7 more?

QA If you have a bag with 5 apples in it and you take out 4 apples, then there will be 1 apple left in the bag. If you then put in 7 more apples, then there will be 8 apples in the bag in total. This is because  $1 + 7 = 8$ .

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Tech evolution



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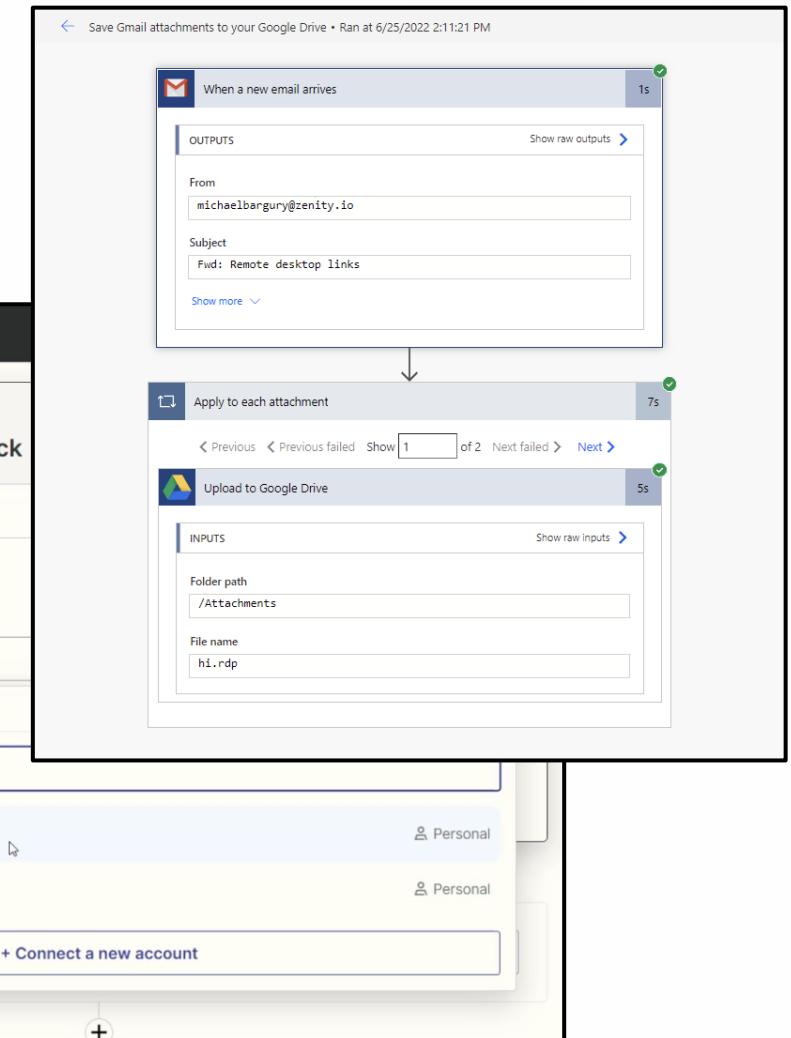
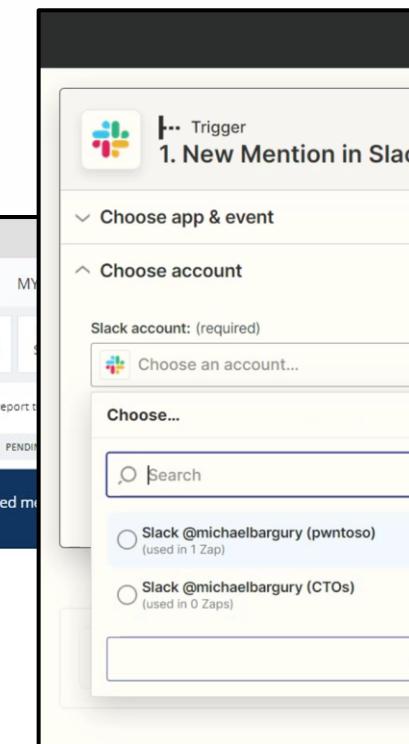
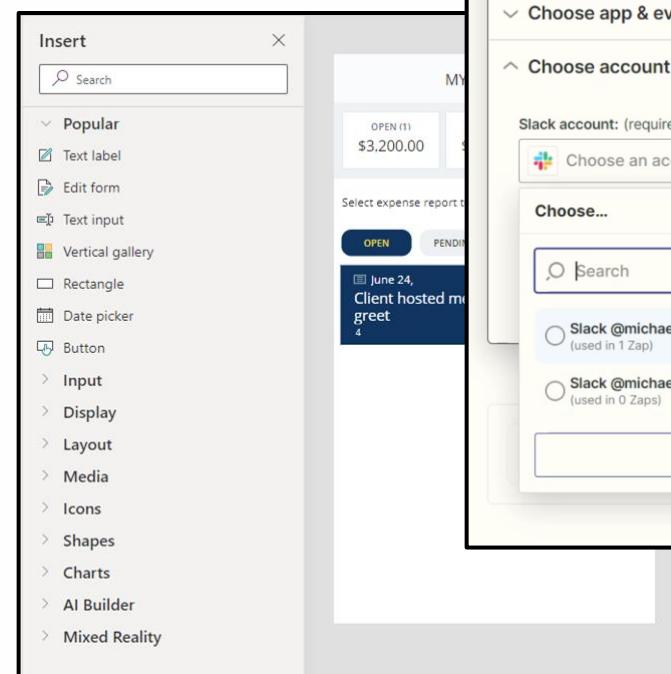
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# Build everything

- If this than that automation
- Integrations
- Business apps
- Whole products
- Mobile apps





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# CREDENTIAL SHARING AS A SERVICE: THE DARK SIDE OF NO CODE

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The screenshot shows the Microsoft Power Apps canvas editor interface. On the left, there's a tree view pane titled "Tree view" under "Screens". It lists "Search" and "New screen" under "Screens", and "App" under "Components", with "Screen1" selected. The main workspace is a large white area with the placeholder text "Add an item from the Insert pane or connect to data". At the top, the ribbon has tabs like "Power Apps | App", "Search", "Environment (PowerAddicts (default))", and user profile icons. A Copilot AI interface is overlaid on the right side of the screen, featuring a purple speech bubble icon and the text "What do you want to do?". Below it, there's a text input field with the placeholder "Describe what you want to do with this app, and AI will do it for you." and several button options: "Add a text label", "Add a gallery", "Add a button", "Add an email screen", and a "Close" button.

Source:  
@RezaDorrani

Make sure AI-generated content is accurate and appropriate before using. [See terms](#)



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# Available in every major enterprise





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# Recap

- ✓ Available on every major enterprise
- ✓ Has access to business data and powers business processes
- ✓ Runs on somebody else's infra
- ✓ Built by citizen devs



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# No Code Attacks In The Wild: Living off the land

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## CREDENTIAL SHARING AS A SERVICE: THE DARK SIDE OF NO CODE

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[youtu.be/5naPxs0fEJc](https://youtu.be/5naPxs0fEJc)



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# Step by step



Add a new app connection

Add a new app connection

slack

- Slack
- Forms for Slack
- Dislack

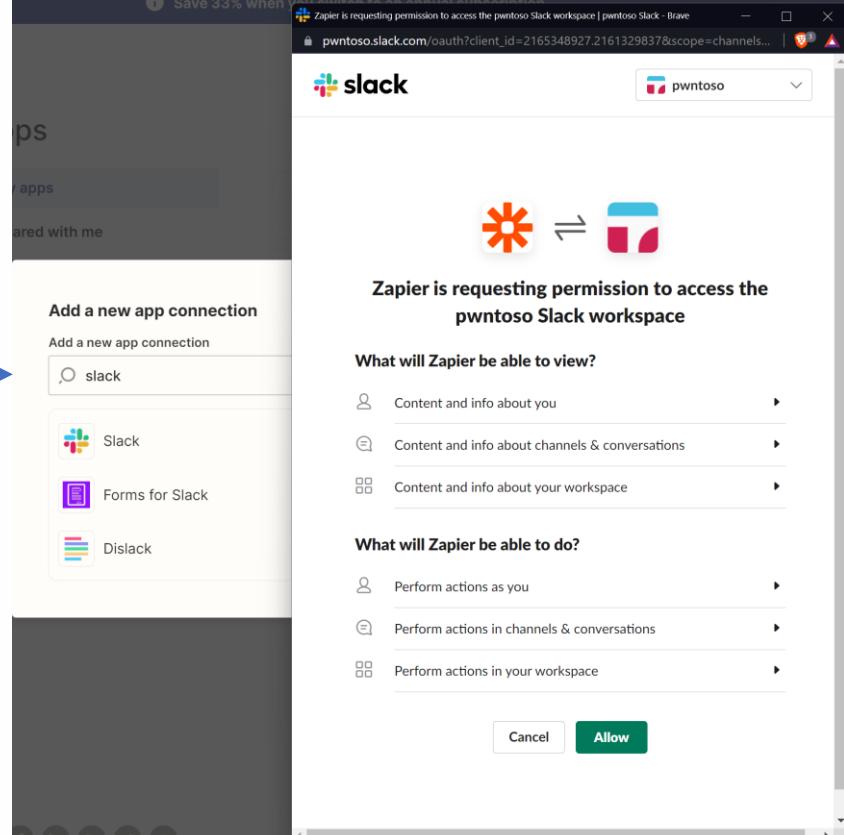
New connection added

My connections 1

Slack @michaelbargury (pwntoso)

@michaelbargury (pwntoso) - added 21 seconds ago

Share 0 Zaps by Kris S. ...



Zapier is requesting permission to access the pwntoso Slack workspace

What will Zapier be able to view?

- Content and info about you
- Content and info about channels & conversations
- Content and info about your workspace

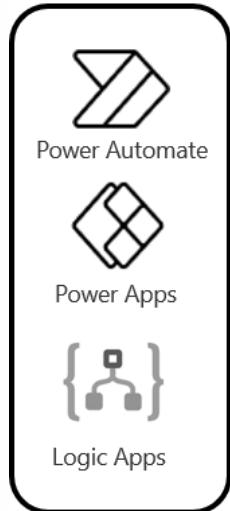
What will Zapier be able to do?

- Perform actions as you
- Perform actions in channels & conversations
- Perform actions in your workspace

Cancel Allow



# Behind the scenes



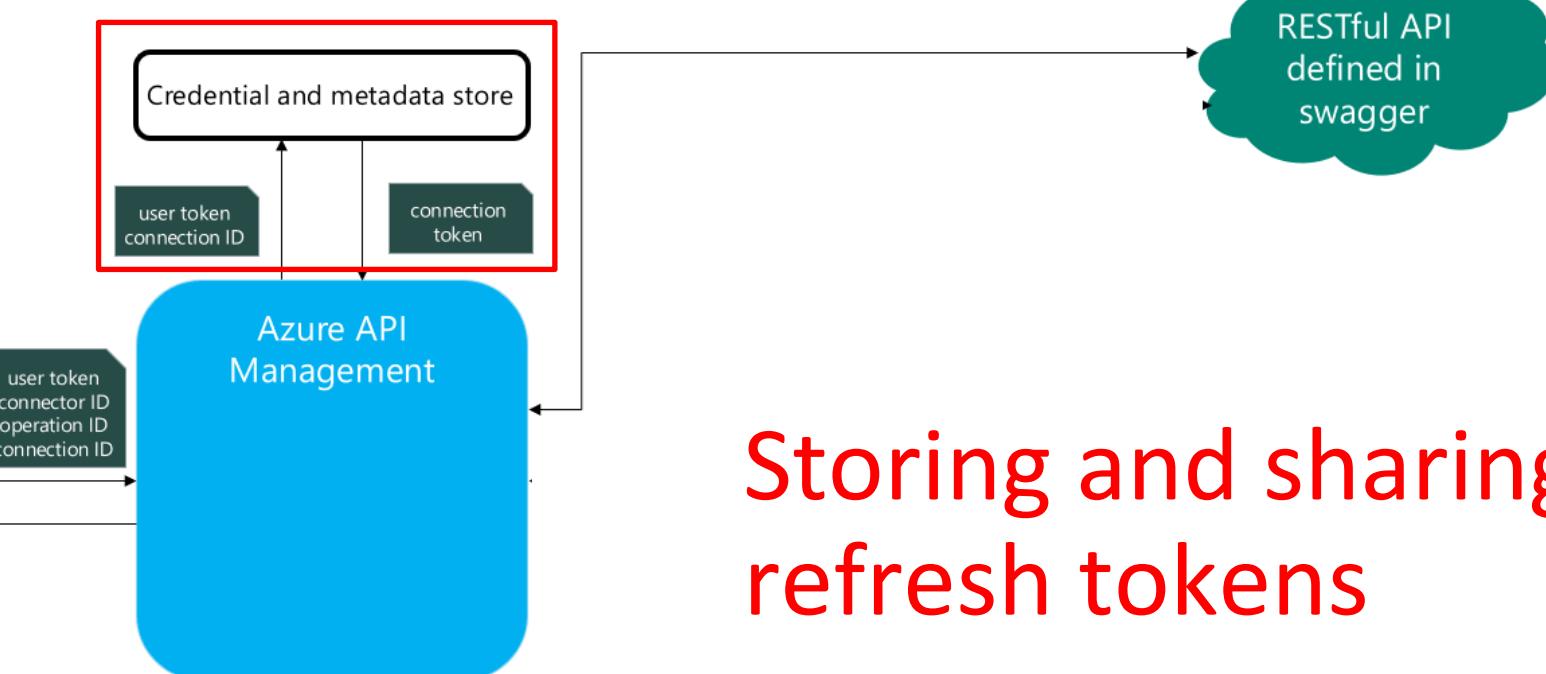
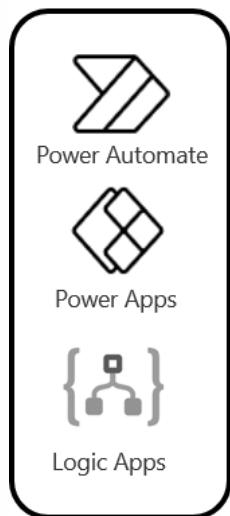
How does the app  
authenticate to slack?

How do different users get  
authenticated by the same  
app?





# Behind the scenes



Storing and sharing  
refresh tokens



# Ready, set, AUTOMATE!

Premium

Add new Facebook Lead Ads leads to rows on Google Sheets

Send myself a reminder in 10 minutes

By Microsoft

Instant 460902

Send an email to responder when response submitted in Microsoft Forms

By Microsoft Power Automate Community

Automated 214763

Add SQL Server rows with new caught webhooks

Webhooks by Zapier + SQL Server

Premium

Add info to a Google Sheet from new Webhook POST requests

Webhooks by Zapier

Save Gmail attachments to your Google Drive

By Microsoft

Automated 32731

Save Outlook.com email attachments to your OneDrive

By Microsoft Power Automate Community

Automated 168098

Premium

Create SQL Server rows from new Google Forms responses

Google Forms by Zapier + Slack

Premium

Get Slack notifications for new information from a Webhook

Webhooks by Zapier + Slack

Send an email when a new message is added in Microsoft Teams

By Microsoft Power Automate Community

Automated 350

Send emails via Gmail when Google Sheets rows are updated

Google Sheets + Gmail



Name				
Zenity	 ystage.com	Azure Resource Manager	 tage.com	1 h ago
Zenity	 ystage.com	Office 365 Management API	 tage.com	5 d ago
{BaseResourceUrl}	 ConnectionToFadiStorageAccount	Azure Blob Storage	 5681@gmail.com	9 mo ago
Microsoft Teams	 Microsoft Teams	SQL Server	 Outlook.com	57 min ago
SQL Server	 y.io	Azure Blob Storage	 RSS	4 mo ago
SQL Server	 stage.com	Microsoft Dataverse	 tage.com	2 wk ago
SQL Server	 stage.com	C Connective eSignatures	 Mail	9 mo ago
SharePoint	 stage.com	Connective eSignatures (preview)	 Mail	7 mo ago
Power Platform for Admins	 stage.com	C Connective eSignatures	 aviv-demo-2	8 mo ago
Power Platform for Admins	 stage.com	DB2	 ServiceNow	9 mo ago
Power Apps for Makers	 stage.com	Dropbox	 Aviv-Demo	8 mo ago
Power Apps for Admins	 stage.com	File System	 ServiceNow	9 mo ago
Planner	 stage.com	Notifications	 SFTP	8 mo ago
OneNote (Business)	 stage.com	Vendor Server	 SFTP - SSH	3 h ago
	 FTP	FTP	 SharePoint	



# Credential Sharing as a Service

The collage illustrates credential sharing as a service across several no-code platforms:

- Power Automate:** Shows a list of connections in the "Zenity Stage (default)" environment, including "ConnectionToFadiStorageAccount" (Azure Blob Storage) and "SQL Server".
- Zapier:** Shows the "Apps" section with "My apps" and "Shared with me" tabs, listing integrations like Gmail (2 connections, 5 zaps) and Google Sheets (1 connection, 2 zaps).
- Assets:** Shows a list of assets and connections, including "Management" (Connected), "dev\_HTTP account" (Env-Dev), "dev\_twitter" (Env-Dev), and "FTP at test.rebeex.net" (Workspace/test export).



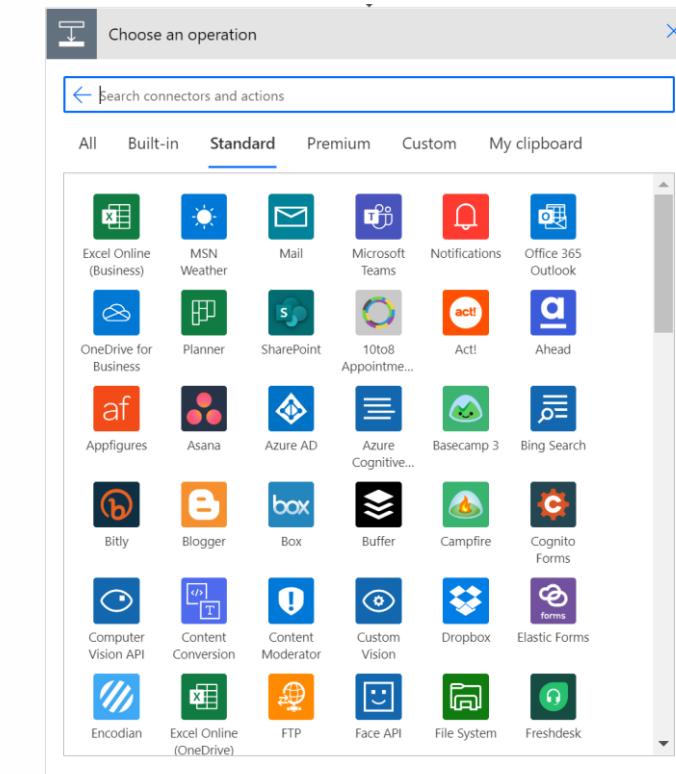
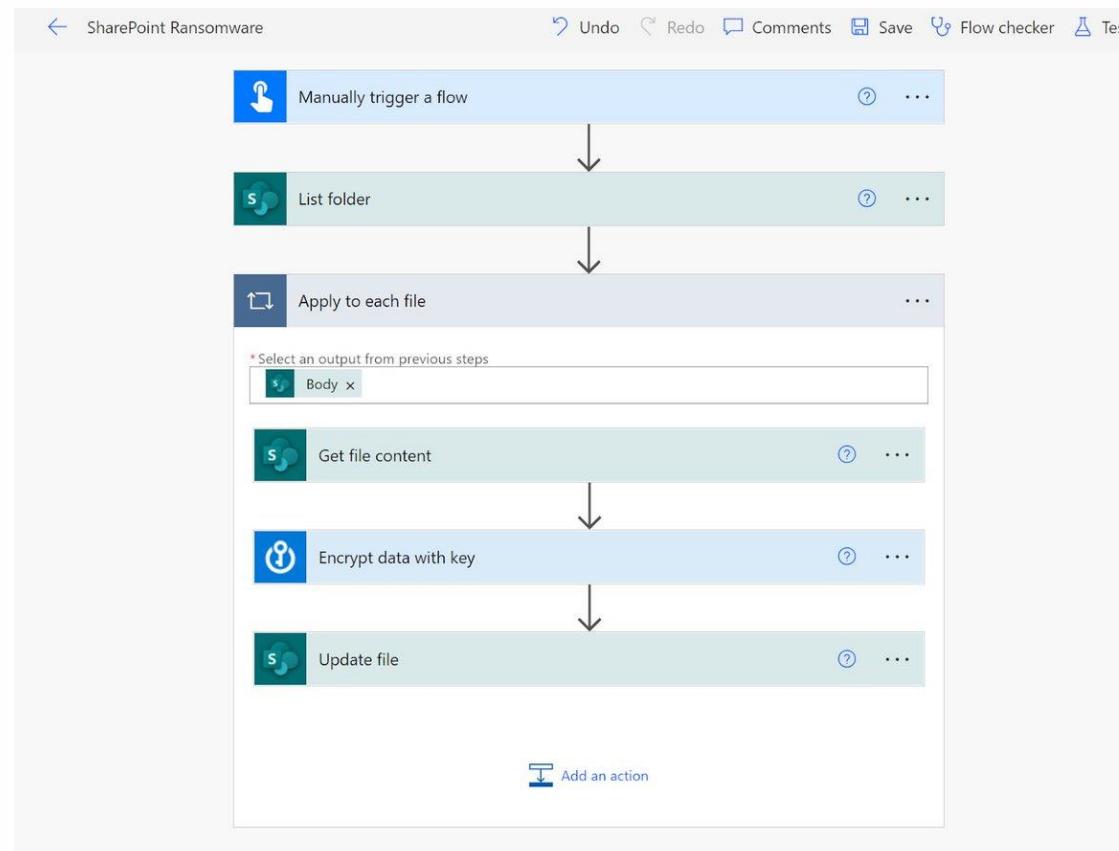
# Credential Sharing as a Service

The screenshot shows the Microsoft Power Automate interface. On the left, the navigation bar includes Home, Action items, My flows, Create, Templates, Connectors, Data (selected), Monitor, AI Builder, Process advisor, Solutions, and Learn. The main area displays 'Connections in Zenity Stage (default)'. A large image of a baby is overlaid on the interface. Below the connections list, there's an 'Apps' section with icons for creating new apps, managing existing ones, and custom integrations. It lists 'My apps' (Shared with me) and 'Custom integrations' for Gmail and Google Sheets.

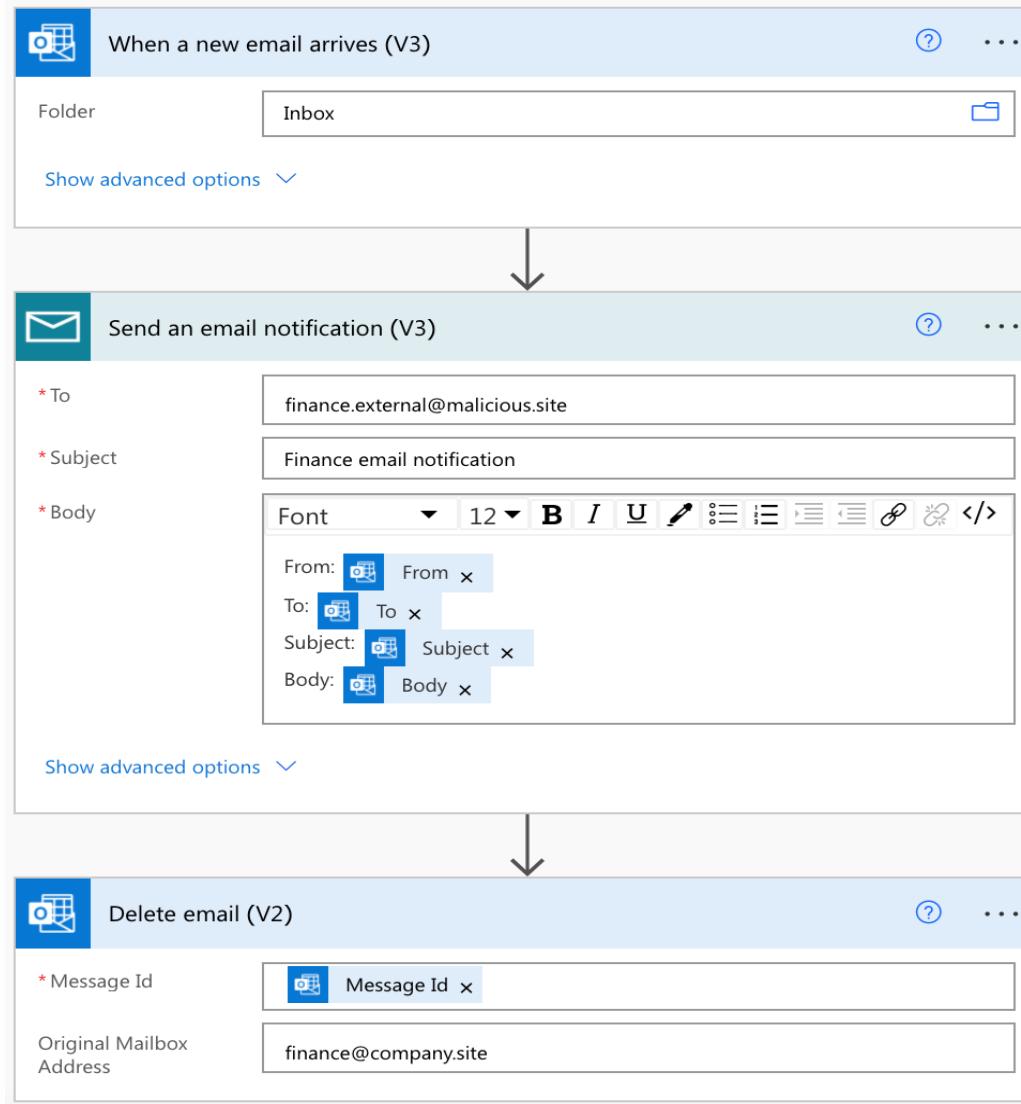
**Privilege escalation**



# Ransomware thru action connections



Ransomware



Exfiltrate email  
thru the  
platform's email  
account



Data exfiltration



# Move to machine

## Machines

Check the real-time health and status of your machines and the desktop flows running on them. [Learn more](#)

[Machines](#) [Machine groups](#) [VM images \(preview\)](#) [Gateways](#)

Machine name ↑ ↓	Description ↓	Version	Group ↓	Status	Flows run...	Flows que...	Ac... ↓	Owner
myrpa	—	2.17.169.22042	—	Connected	0	0	Owner	Kris S...
myrpa	—	2.17.169.22042	MyGroup	Connected	0	—	Owner	Kris S...
<input checked="" type="checkbox"/> win11	:	—	—	Connected	0	0	Owner	Kris S...

Desktop flows

Search connectors and actions

Triggers Actions See more

Run a flow built with Power Automate for desktop PREMIUM

Desktop flows

Run a flow built with Selenium IDE PREMIUM

Desktop flows

Run a flow built with Power Automate for desktop

\* Desktop flow  Edit

\* Run Mode Choose between running while signed in (attended) or in the background

Show advanced options

Attended (runs when you're signed in)

Unattended (runs on a machine th)

Enter custom value

Lateral movement



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## Power Pwn

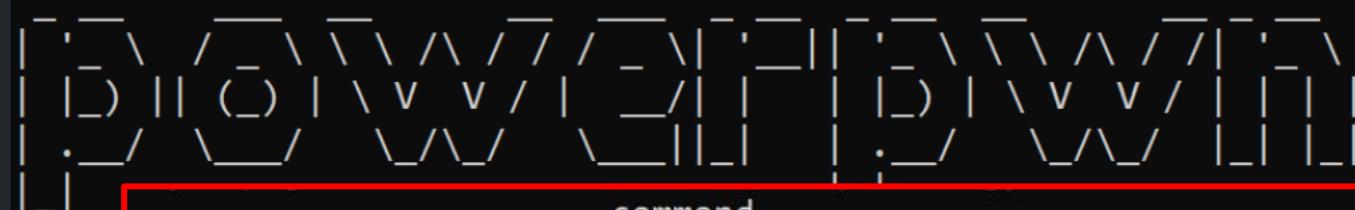
Black Hat Arsenal USA 2023 DEFCON 30

Stars 173 Follow Michael.Bargury owasp.org

Power Pwn is an offensive security toolset for Microsoft Power Platform.

Install with `pip install powerpwn`.

Check out our [Wiki](#) for docs, guides and related talks!



dump  
gui  
backdoor  
nocodemalware  
phishing

### command

Recon for available data connections and dump their content.

Show collected resources and data via GUI.

Install a backdoor on the target tenant

Repurpose trusted execs, service accounts and cloud services to power a malware

Deploy a trustworthy phishing app.

# Introducing **powerpwn**

Find us on GitHub!  
[github.com/mbrg/power-pwn](https://github.com/mbrg/power-pwn)





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AUGUST 9-10, 2023  
BRIEFINGS



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USA 2023

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# All You Need Is Guest

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# POWERPWN DEMO

[github.com/mbrg/power-pwn](https://github.com/mbrg/power-pwn)



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# No Code Attacks In The Wild: Phishing made easy

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# Can we fool users to create connections for us?

- Set up a bait app that does something useful
- Generate connections on-the-fly
- Fool users to use it
- Pwn their connection (i.e. account)



Account takeover



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# POWERPWN DEMO

[github.com/mbrg/power-pwn](https://github.com/mbrg/power-pwn)



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AUGUST 9-10, 2023  
BRIEFINGS

# Sure, Let Business Users Build Their Own. What Could Go Wrong?

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Zenity

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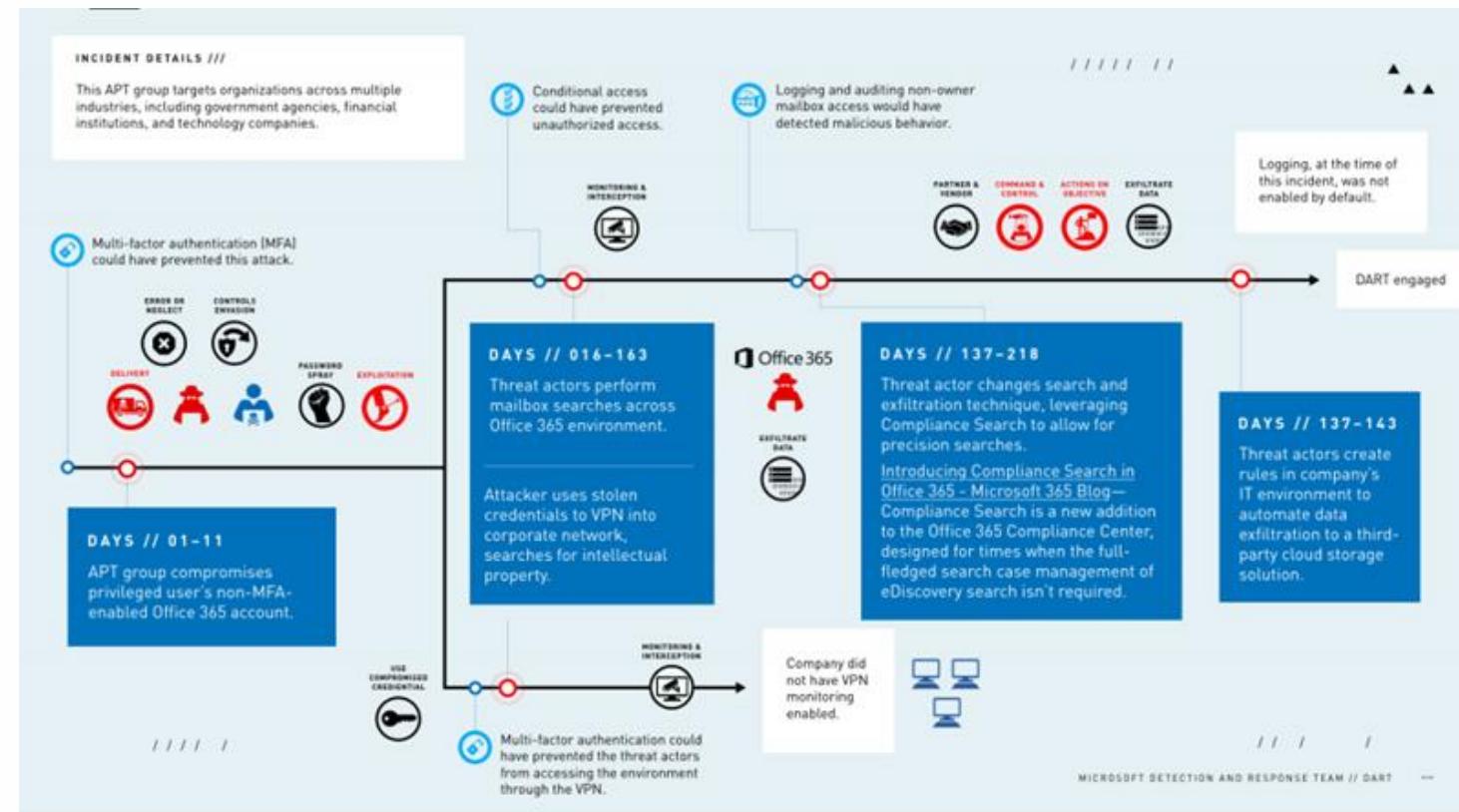
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# No Code Attacks In The Wild: A backdoor that survives user deletion

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# This has been done before



[zenity.io/blog/hackers-abuse-low-code-platforms-and-turn-them-against-their-owners/](https://zenity.io/blog/hackers-abuse-low-code-platforms-and-turn-them-against-their-owners/)



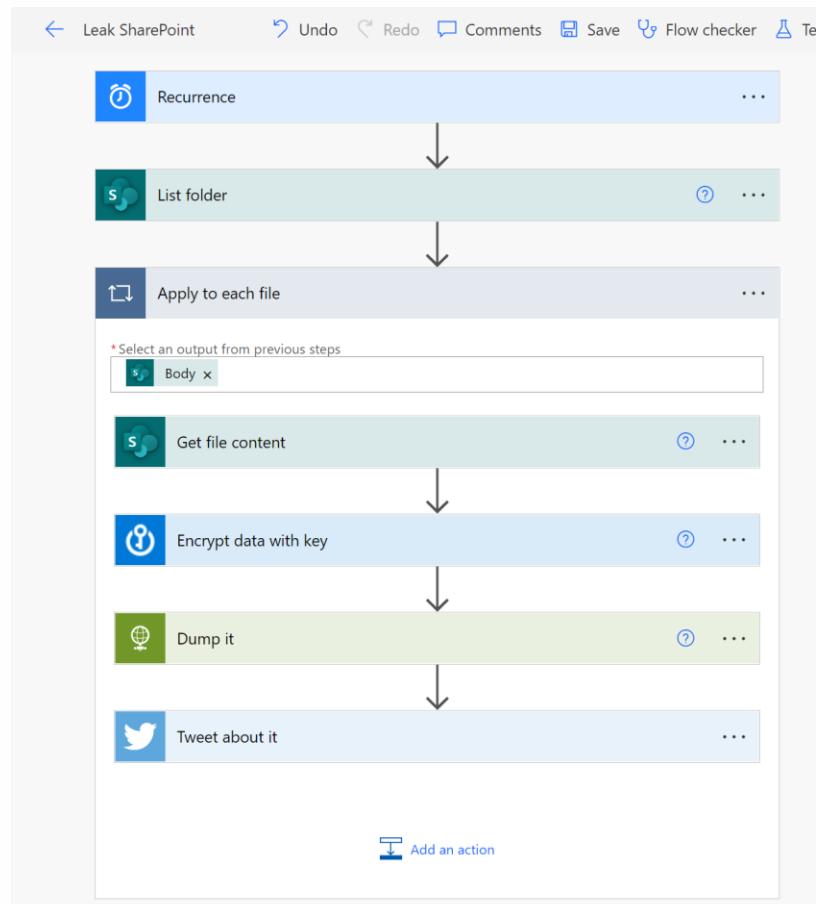
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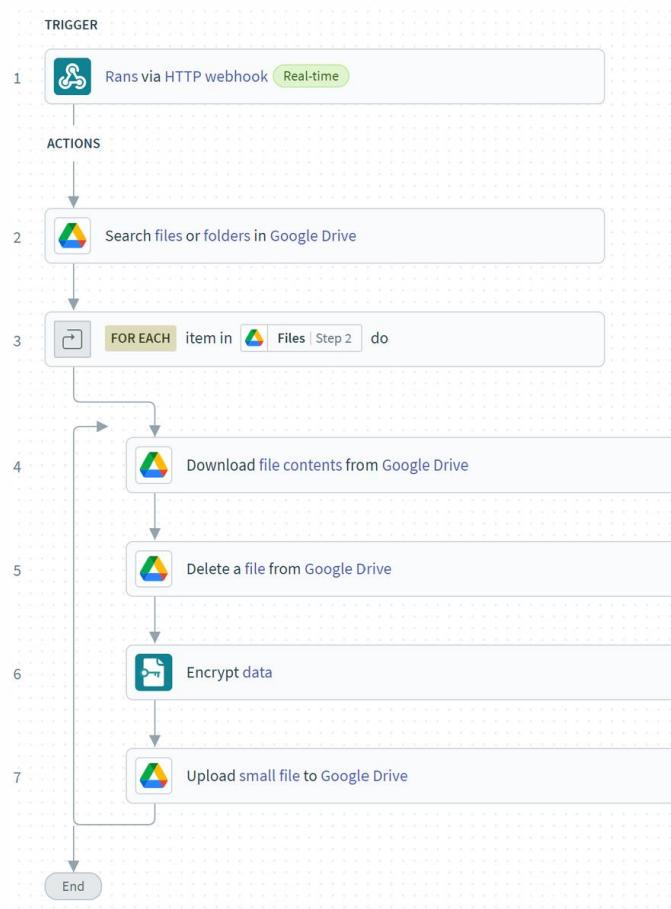
@mbrg0

# Dump files and tweet about it on a schedule





# Encrypt on command





# Persistency

What do we want?

- Remote execution
- Arbitrary payloads
- Maintain access (even if user account access get revokes)
- Avoid detection
- Avoid attribution
- No logs

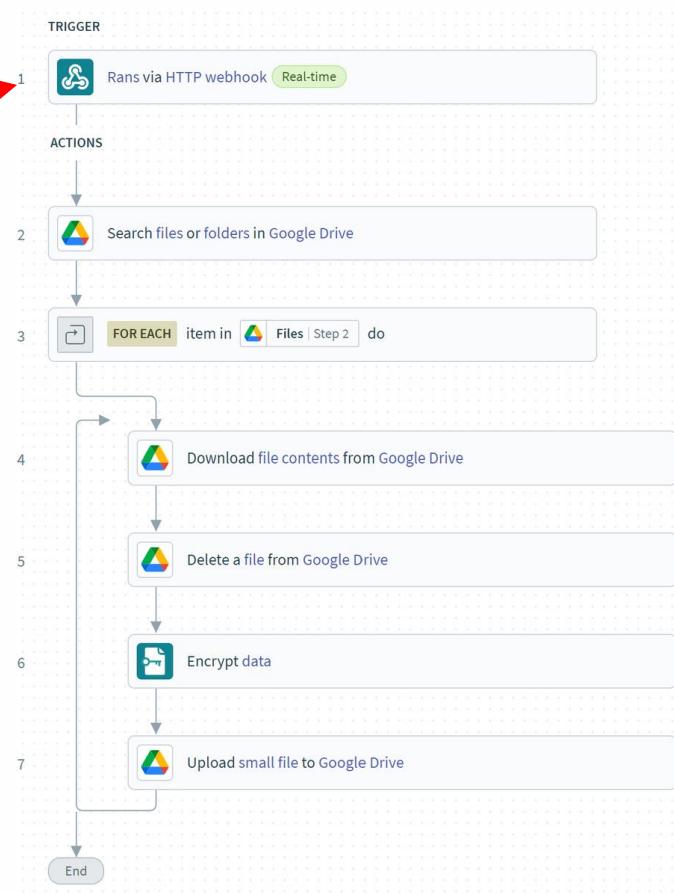


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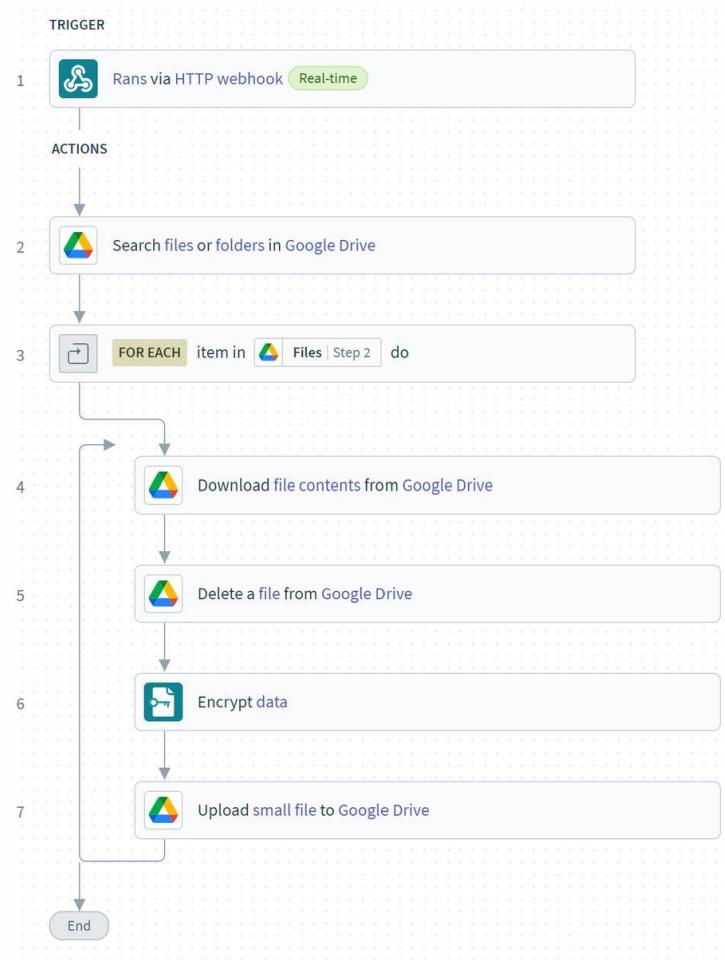
# Persistency v1

Persistency





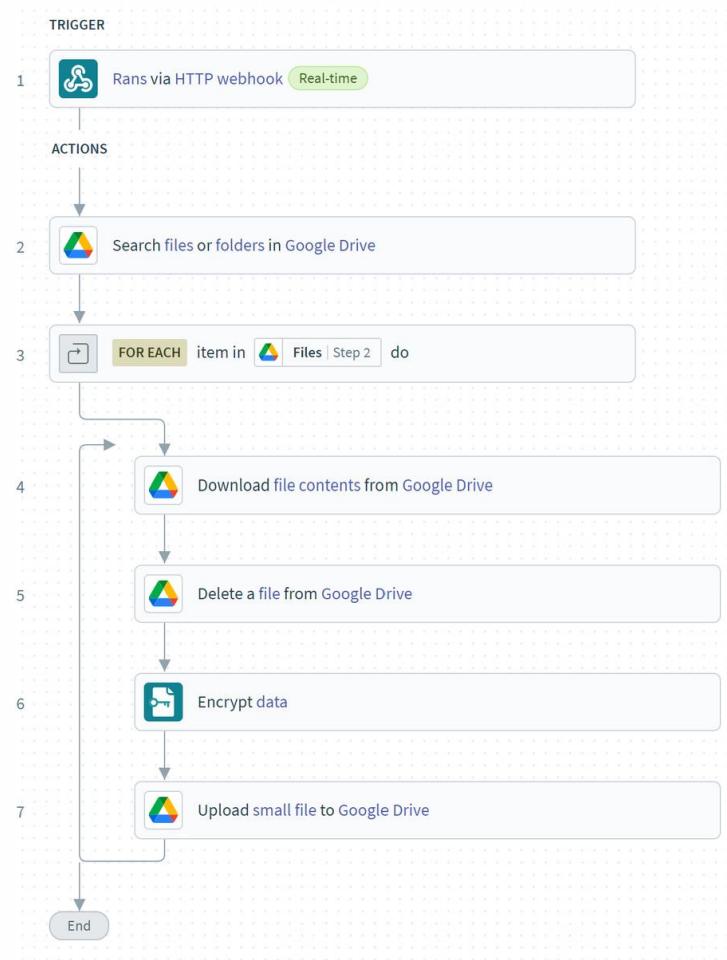
# Persistency v1



## What do we want?



# Persistency v1

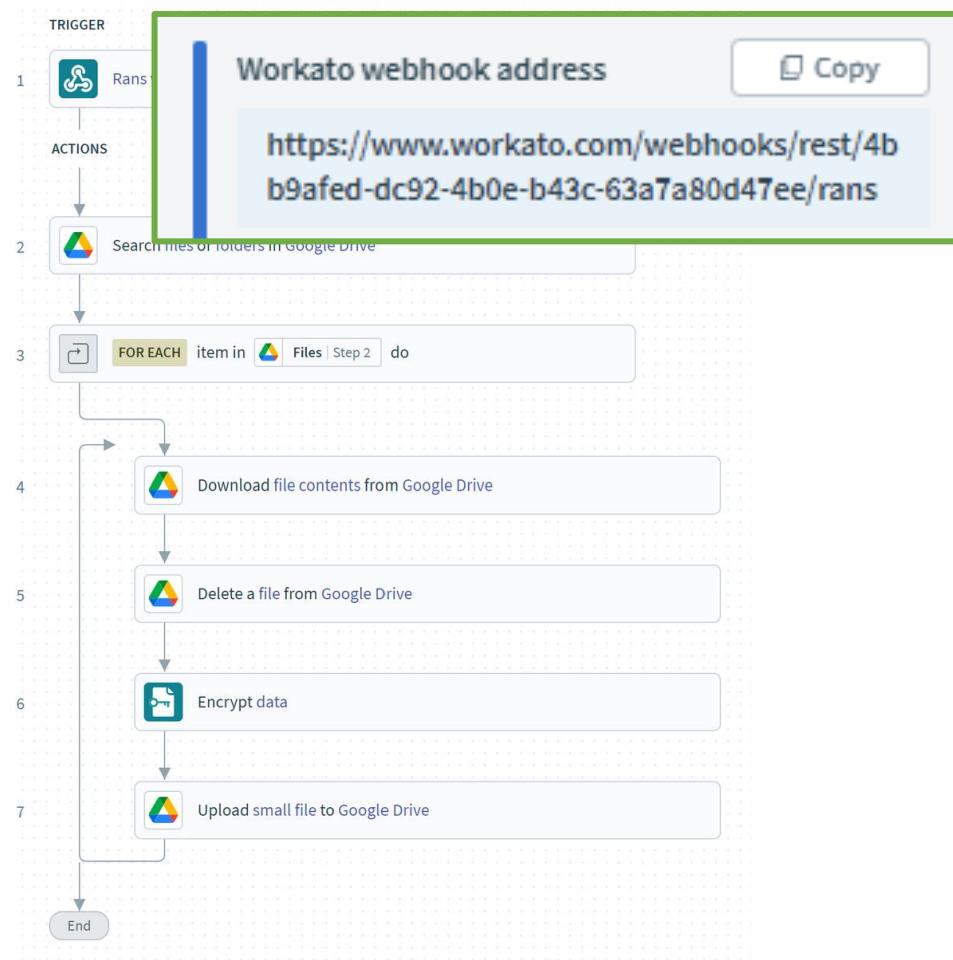


## What do we want?

- Remote execution**
- Arbitrary payloads**



# Persistency v1

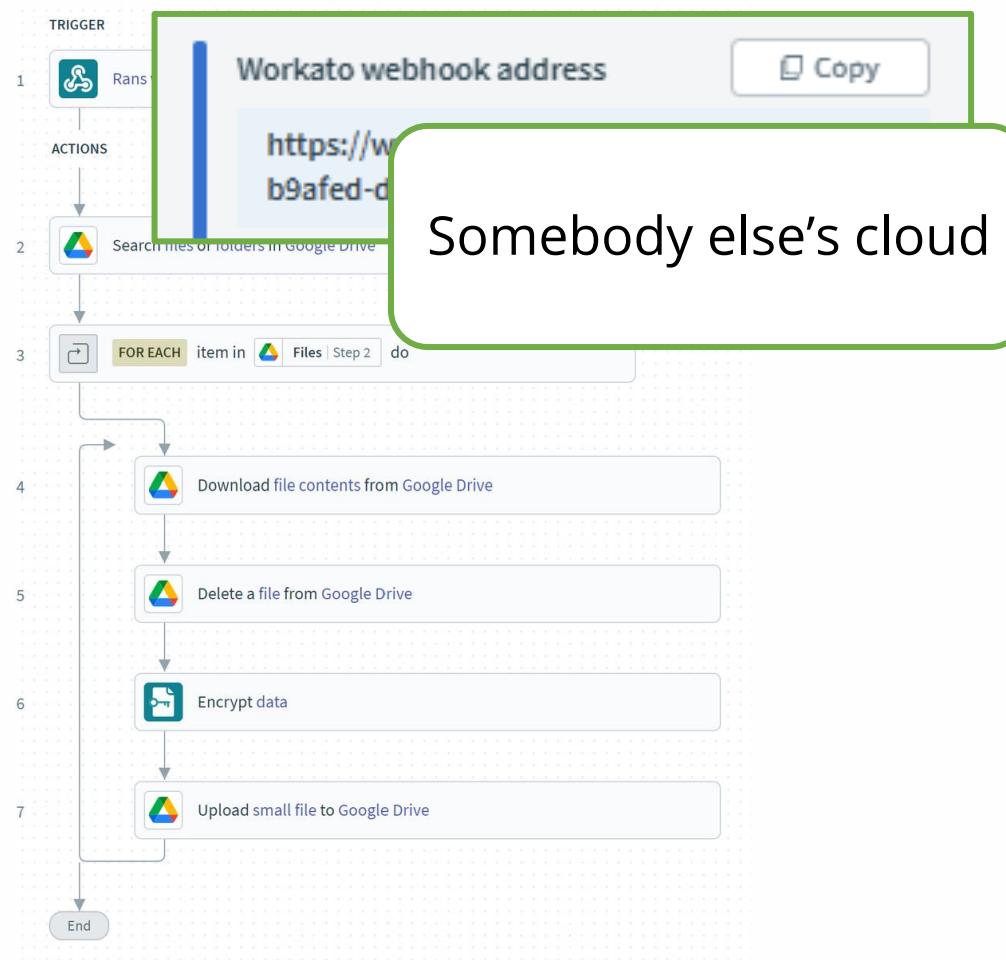


## What do we want?

- Remote execution
- Arbitrary payloads
- Maintain access



# Persistency v1

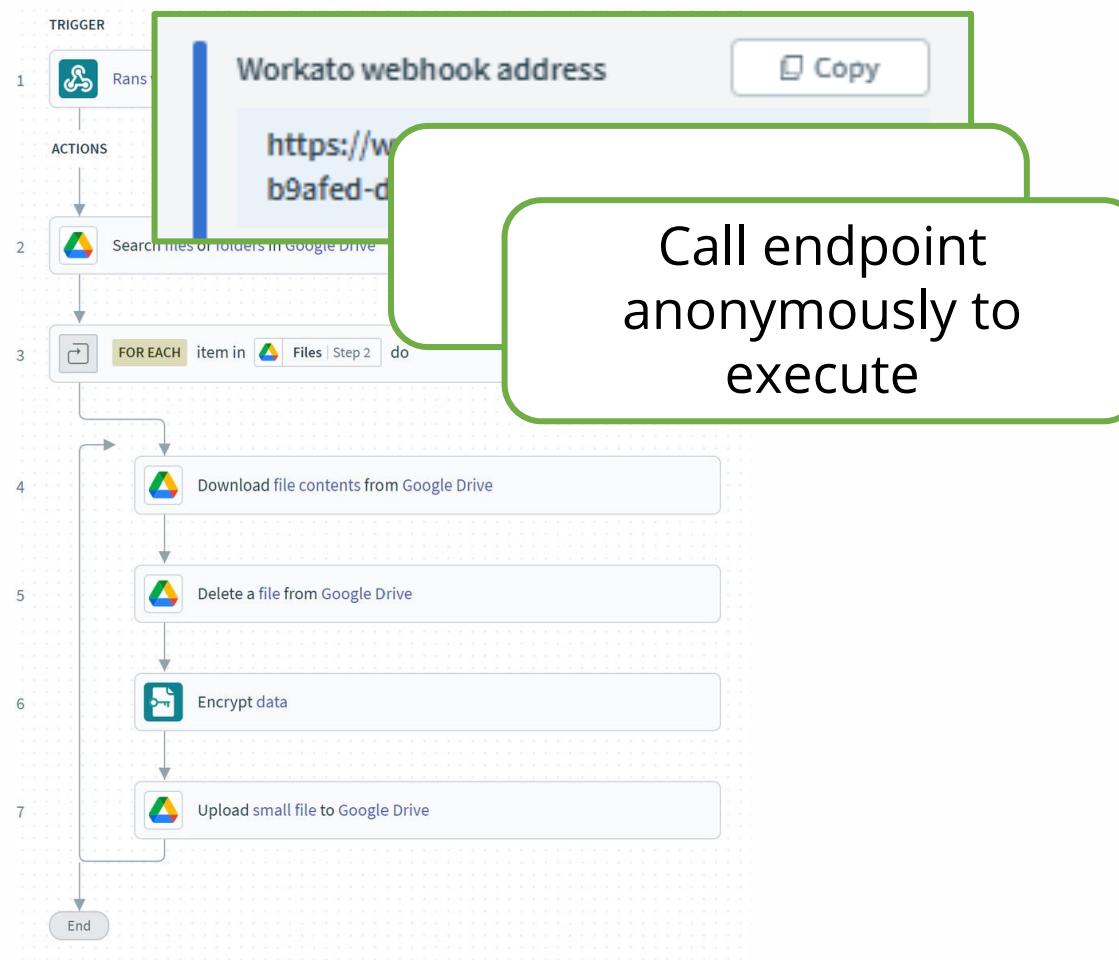


## What do we want?

- Remote execution
- Arbitrary payloads
- Maintain access
- Avoid detection



# Persistency v1

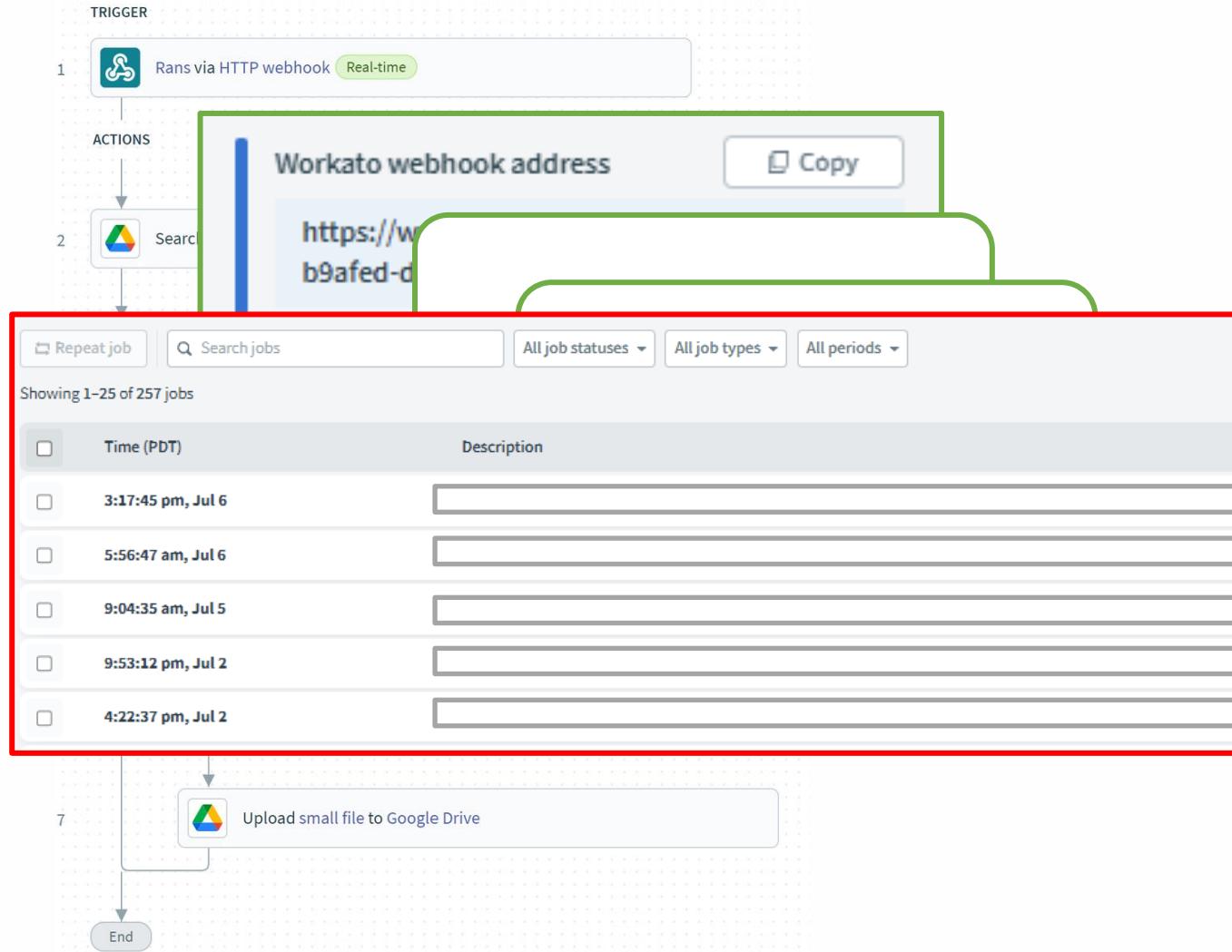


## What do we want?

- Remote execution
- Arbitrary payloads
- Maintain access
- Avoid detection
- Avoid attribution



# Persistency v1

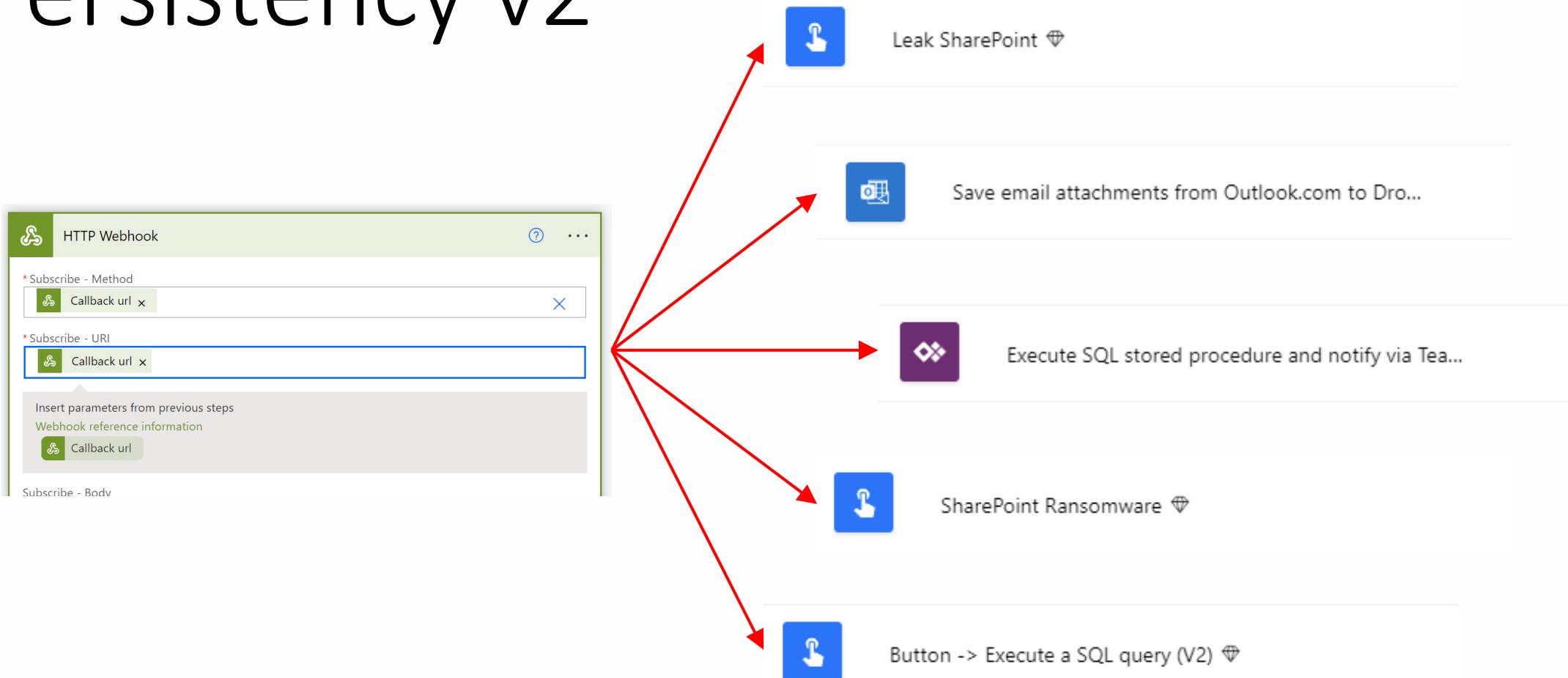


## What do we want?

- Remote execution
- Arbitrary payloads
- Maintain access
- Avoid detection
- Avoid attribution
- No logs



# Persistency v2





# Persistency v2

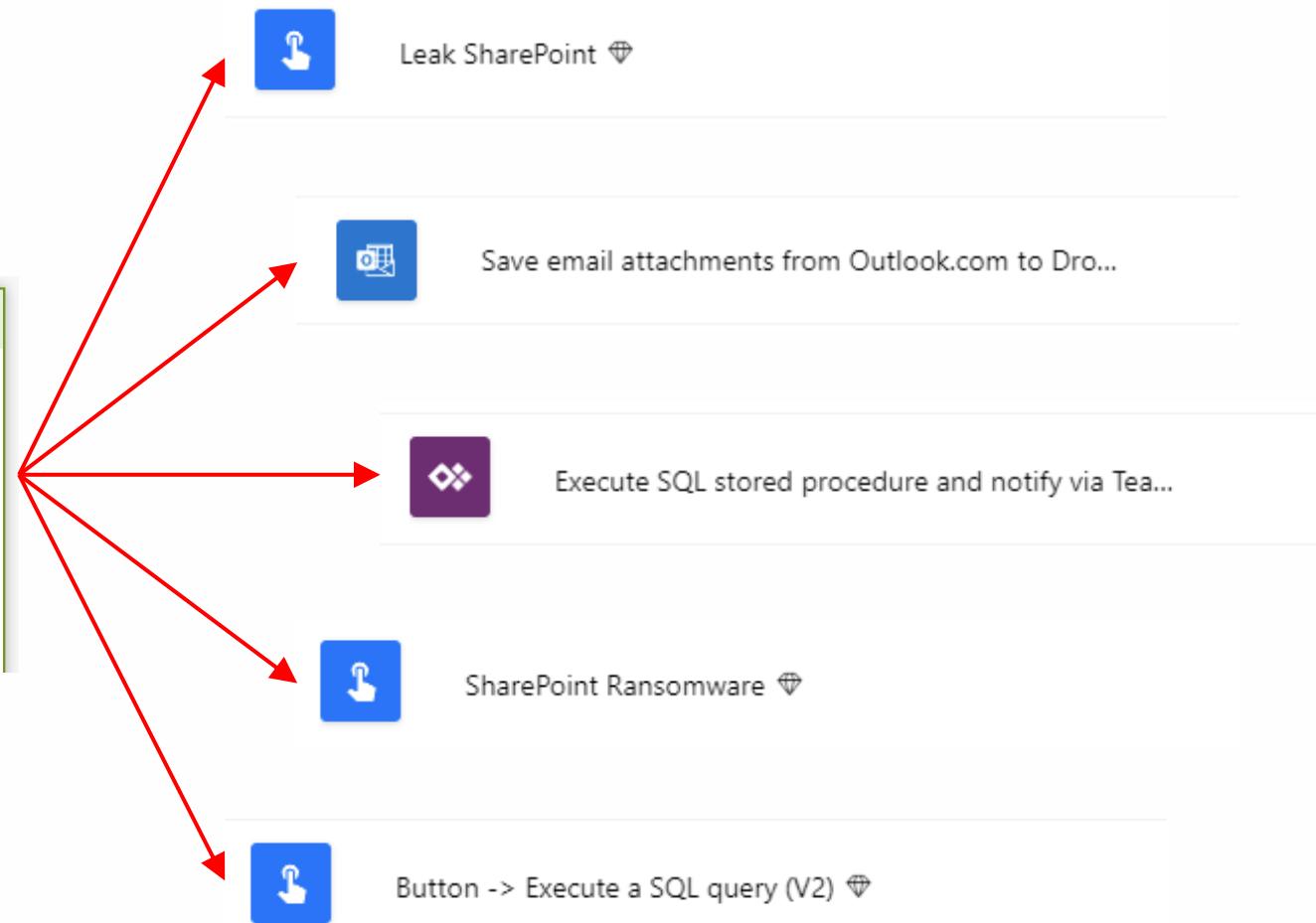
HTTP Webhook

\*Subscribe - Method  
Callback url

\*Subscribe - URI  
Callback url

Insert parameters from previous steps  
Webhook reference information  
Callback url

Subscribe - Body



What do we want?

- Arbitrary payloads
- No logs



# Solving persistency

Our current state:

- Remote execution
- Arbitrary payloads**
- Maintain access
- Avoid detection
- Avoid attribution
- No logs**



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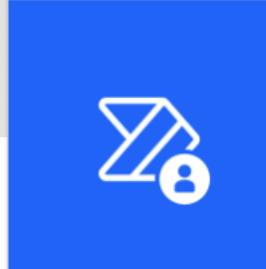
@mbrg0

# Executing arbitrary commands

Power Automate Management

Power Automate Management connector enables interaction with Power Automate Management service. For example: creating, editing, and updating flows. Administrators who want to perform operations with admin privileges should call actions with the 'as Admin' suffix.

See documentation



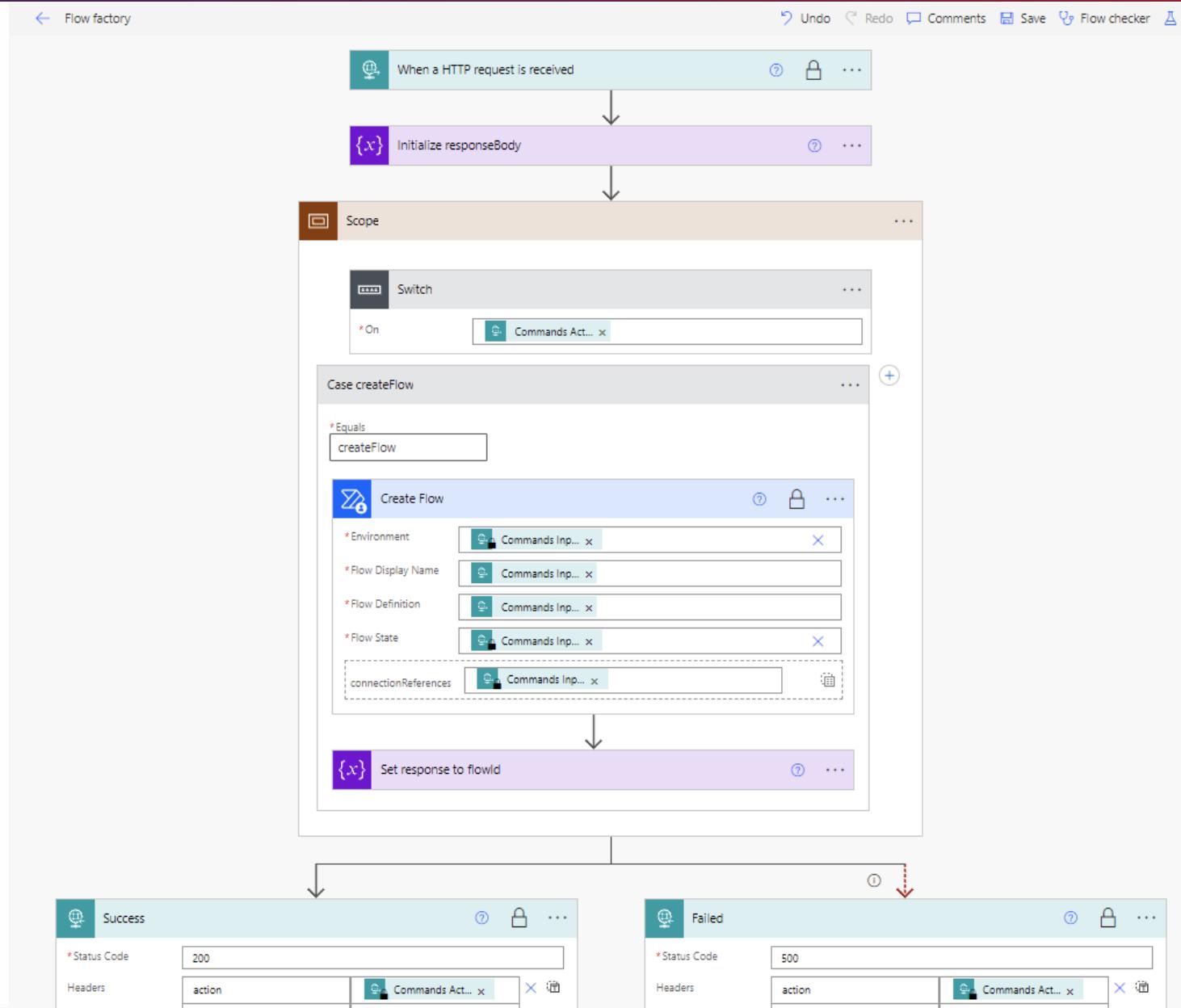


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# Create a flow

The screenshot shows a 'Case createFlow' step. It includes a condition 'createFlow' set to 'Equals'. Below it is a 'Create Flow' action step. This step has several inputs: 'Environment' (set to 'Commands Inp...'), 'Flow Display Name' (set to 'Commands Inp...'), 'Flow Definition' (set to 'Commands Inp...'), 'Flow State' (set to 'Commands Inp...'), and 'connectionReferences' (set to 'Commands Inp...'). A purple 'Set response to flowId' action step follows, which takes the output from the 'Create Flow' step. At the bottom, there is a button labeled 'Add an action'.

# List authenticated sessions to use

The screenshot shows a 'Case getConnections' step. It includes a condition 'getConnections' set to 'Equals'. Below it is a 'List My Connections' action step. This step has an 'Environment' input (set to 'Commands Inp...') and a 'Commands Inp...' input. A purple 'Set response to connections list' action step follows, which takes the output from the 'List My Connections' step.

# Delete a flow

The screenshot shows a 'Case deleteFlow' step. It includes a condition 'deleteFlow' set to 'Equals'. Below it is a 'Delete Flow' action step. This step has an 'Environment' input (set to 'Commands Inp...') and a 'Flow' input (set to 'Commands Inp...').

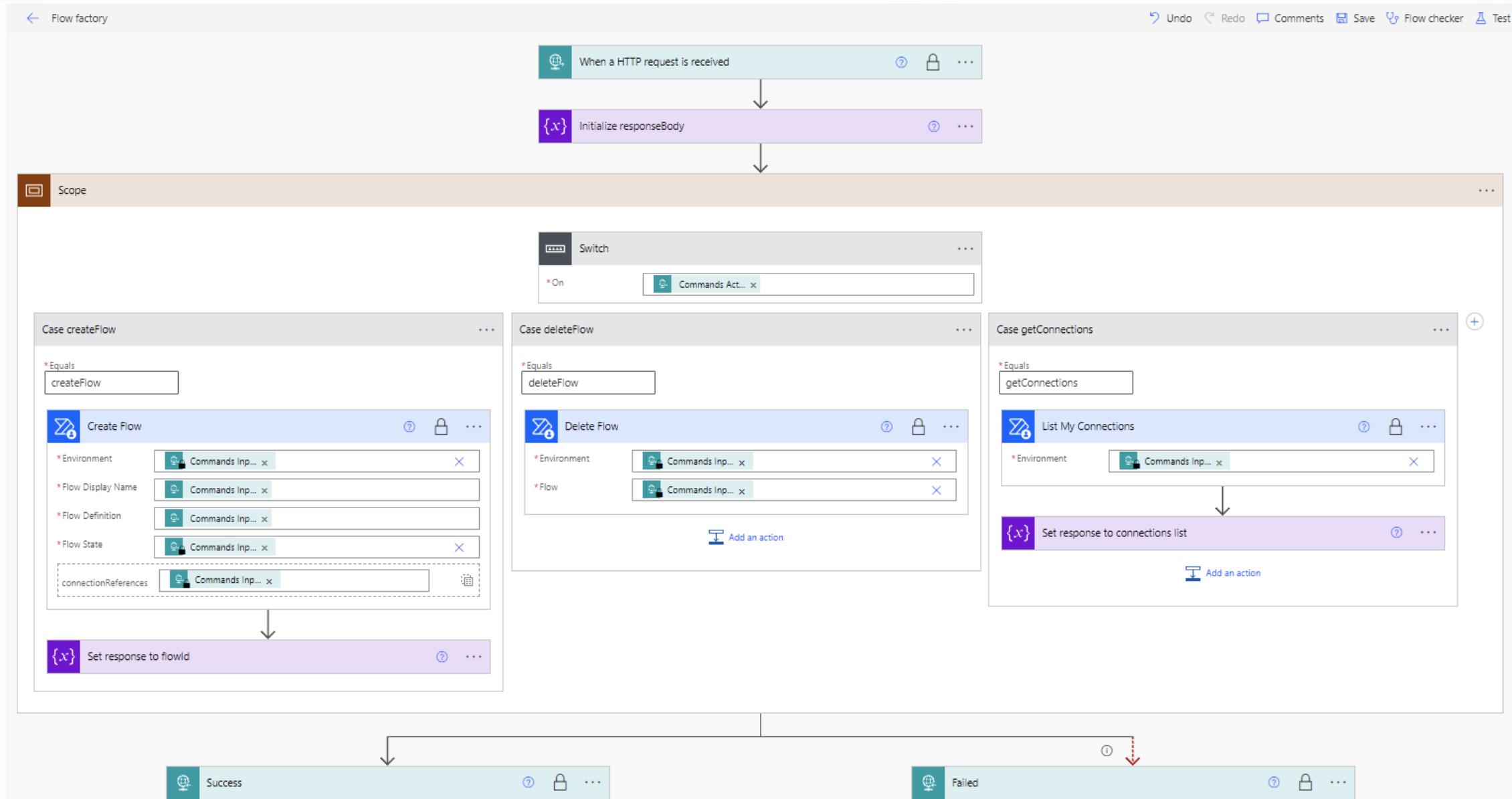


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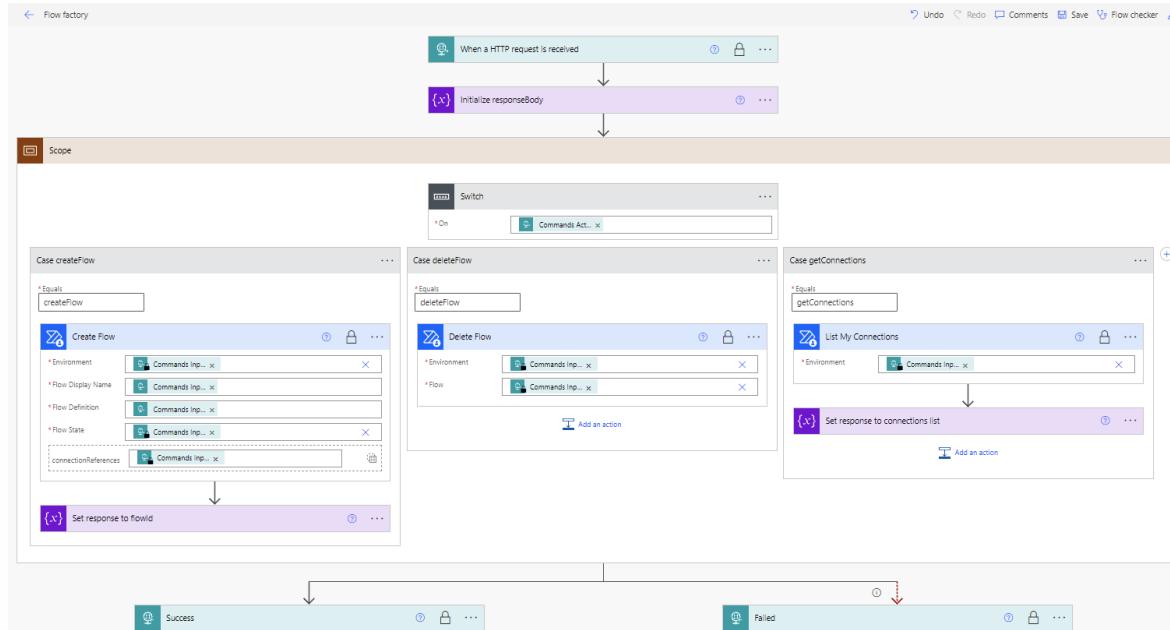
@mbrg0





# powerpwn (persistency v3)

What do we want?



1. Set up your flow factory
2. Control it though API and a Python CLI

- Remote execution
- Arbitrary payloads
- Maintain access
- Avoid detection
- Avoid attribution
- No logs



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CREDENTIAL SHARING AS A SERVICE: THE DARK SIDE OF NO CODE

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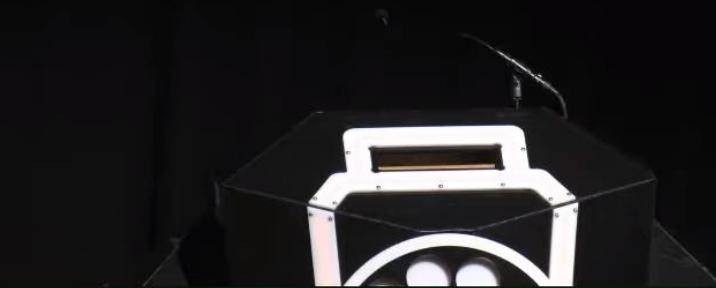


Learn more: [github.com/mbrg/defcon30](https://github.com/mbrg/defcon30)  
Twitter: @mbrg0

## Low Code High Risk:

Enterprise Domination via Low Code Abuse

Michael Bargury @ Zenity



DEFCON 30

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

D3F  
CON

DEFCON



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# POWERPWN DEMO

[github.com/mbrg/power-pwn](https://github.com/mbrg/power-pwn)



# Summary

- No Code is
  - Huge in the enterprise
  - Underrated by security teams
- Attackers are taking advantage of it by
  - Living off the land – account takeover, lateral movement, PrivEsc, data exfil
  - Phishing made easy
  - Hiding in plain sight
- **powerpwn** - the latest addition to your red team arsenal
- How to defend your org



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# How To Stay Safe

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# Protect your org!

## Build secure apps



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# Protect your org!

Build secure apps  
1. Don't overshare



Links → [mbgsec.com/blog/owasp-dc-links](http://mbgsec.com/blog/owasp-dc-links)



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# Protect your org!

Build secure apps

1. Don't overshare
2. OWASP LCNC Top 10



## OWASP Low-Code/No-Code Top 10

Main Join Contributors

Stars 51 slack nocode group nocode

### Overview

Low-Code/No-Code development platforms provide a development environment used to create application software through a graphical user interface instead of traditional hand-coded computer programming. Such platforms reduce the amount of traditional hand-coding, enabling accelerated delivery of business applications.

As Low-Code/No-Code platforms proliferate and become widely used by organizations, there is a clear and immediate need to create awareness around security and privacy risks related to applications developed on such platforms.

The primary goal of the "OWASP Low-Code/No-Code Top 10" document is to provide assistance and education for organizations looking to adopt and develop Low-Code/No-Code applications. The guide provides information about what the most prominent security risks are for such applications, the challenges involved, and how to overcome them.

### The List

1. [LCNC-SEC-01: Account Impersonation](#)
2. [LCNC-SEC-02: Authorization Misuse](#)
3. [LCNC-SEC-03: Data Leakage and Unexpected Consequences](#)
4. [LCNC-SEC-04: Authentication and Secure Communication Failures](#)
5. [LCNC-SEC-05: Security Misconfiguration](#)
6. [LCNC-SEC-06: Injection Handling Failures](#)
7. [LCNC-SEC-07: Vulnerable and Untrusted Components](#)
8. [LCNC-SEC-08: Data and Secret Handling Failures](#)
9. [LCNC-SEC-09: Asset Management Failures](#)
10. [LCNC-SEC-10: Security Logging and Monitoring Failures](#)

Links → [mbgsec.com/blog/owasp-dc-links](http://mbgsec.com/blog/owasp-dc-links)



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Harden your env

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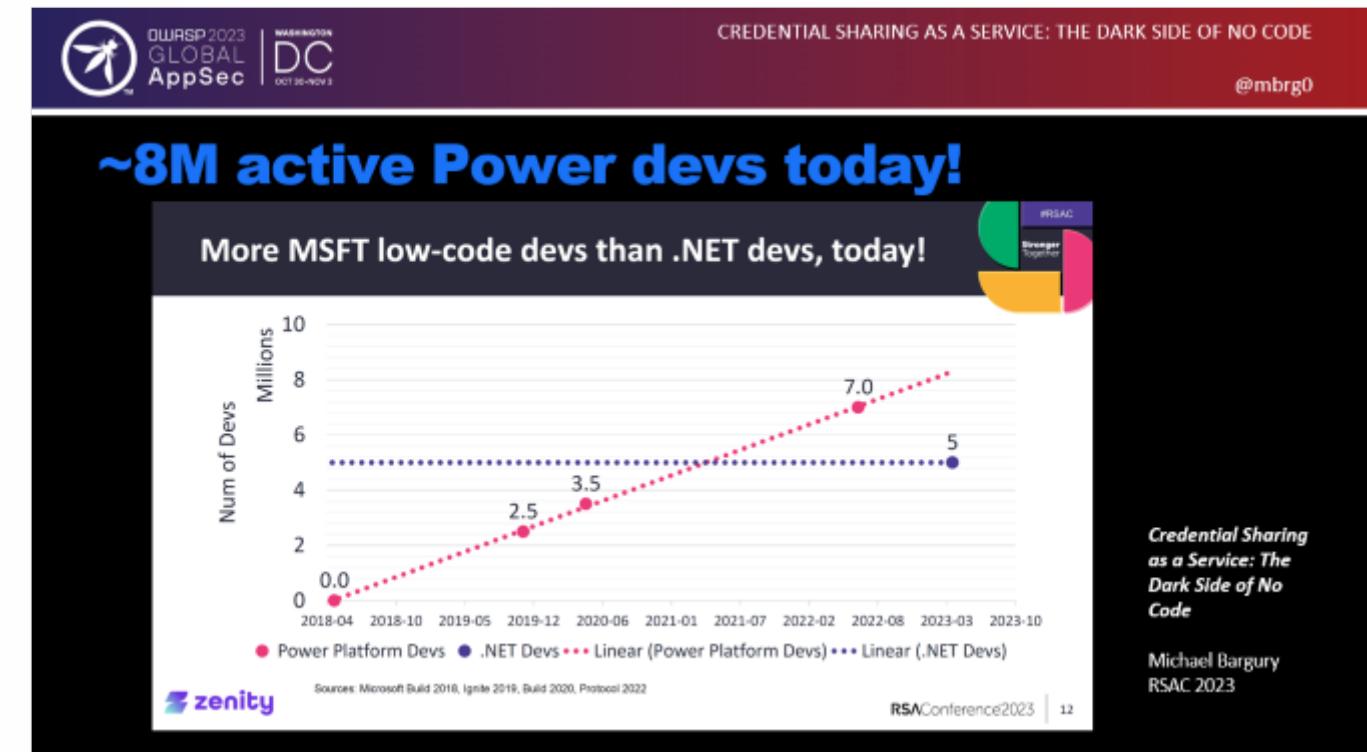
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4. powerpwn



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# THANK YOU