From Lift-Off to Landing

Simple Security Improvements That Make a Big Difference

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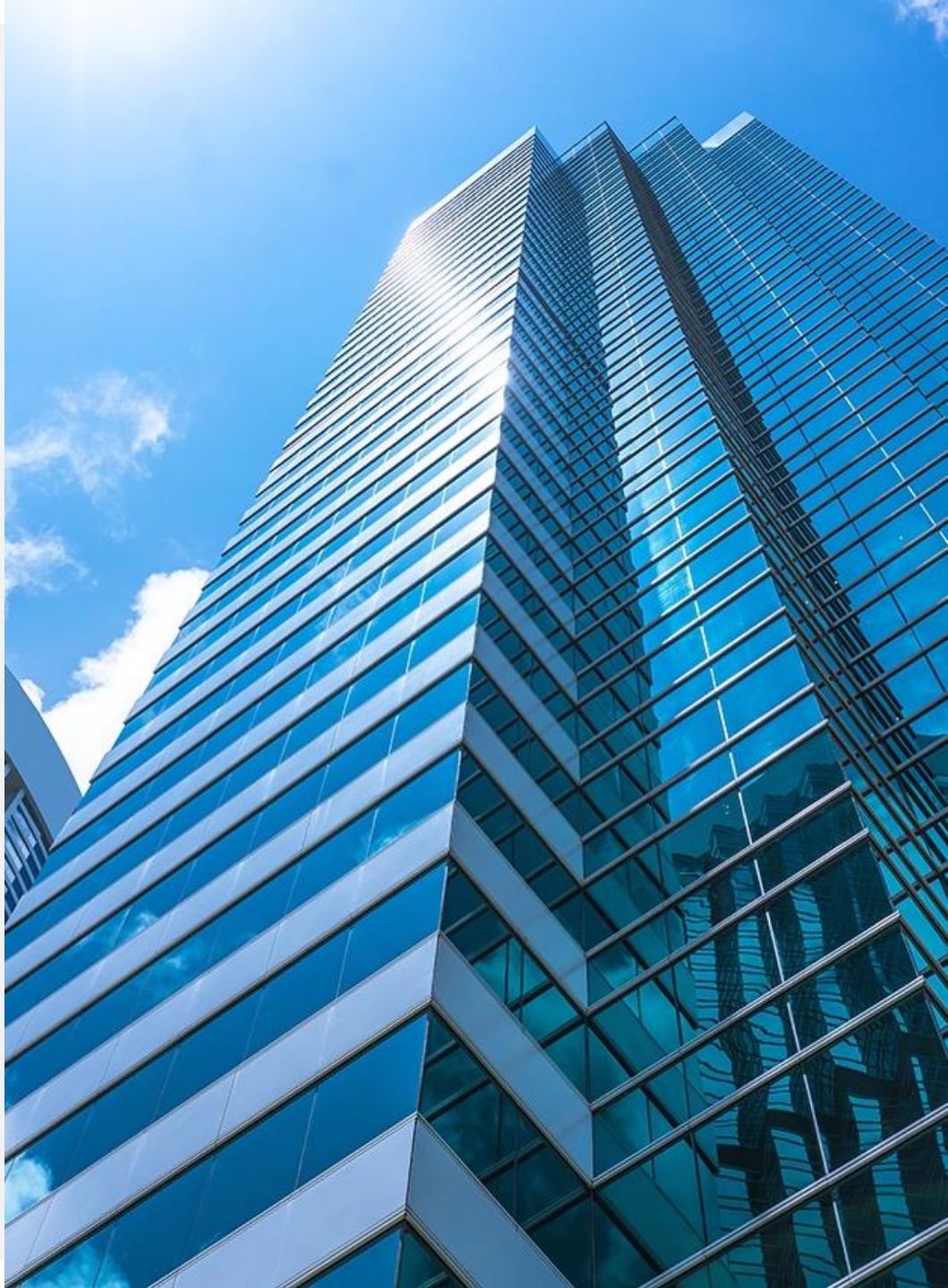
Principal Security Engineer

Two Forces Reshaping the Threat Landscape

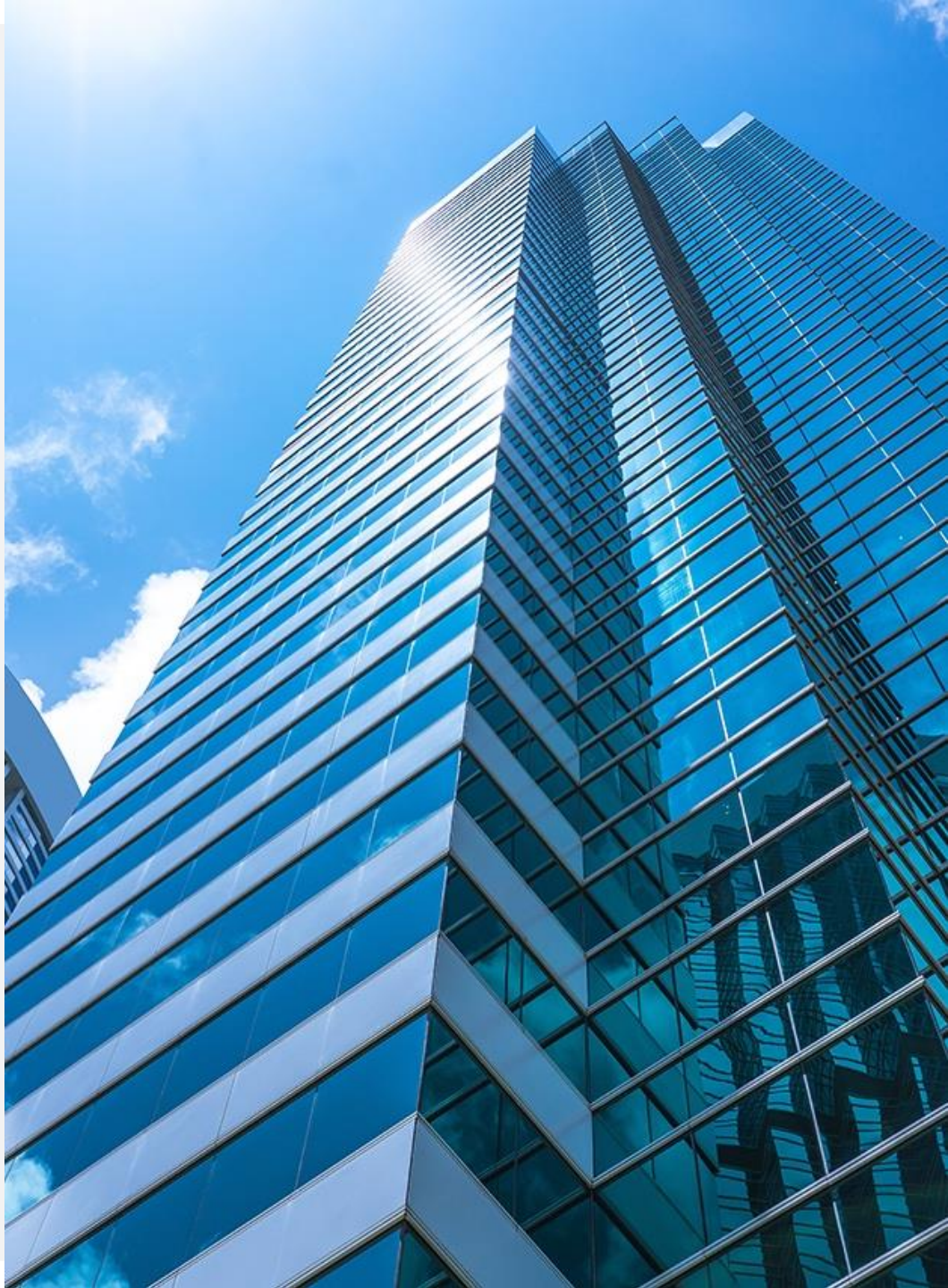


1

Two Forces Reshaping the Threat Landscape

Geopolitical Conflict

The Iran conflict (Operation Epic Fury / Roaring Lion, February 2026) has triggered a wave of retaliatory cyber operations targeting Western businesses and critical infrastructure.

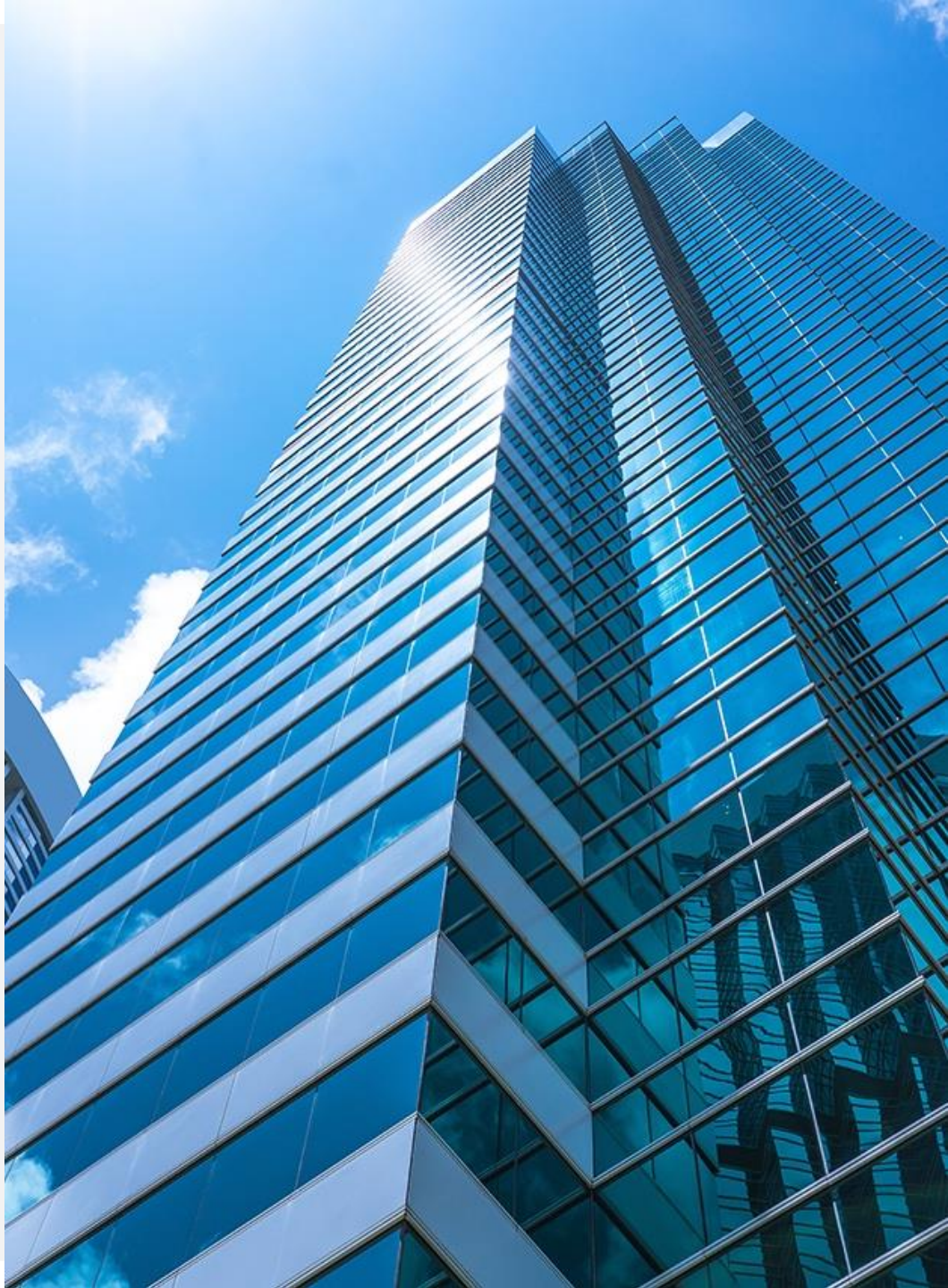


2

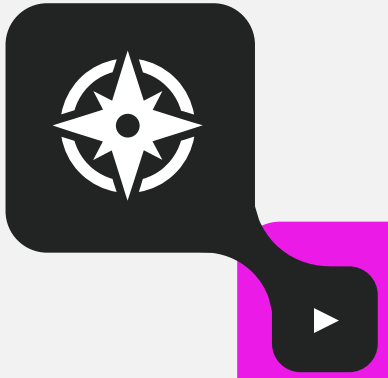
Two Forces Reshaping the Threat Landscape

AI-Powered Adversaries

Threat actors are weaponizing AI to operate faster, at greater scale, and with higher precision than ever before. Attack campaigns that once took weeks now take hours.

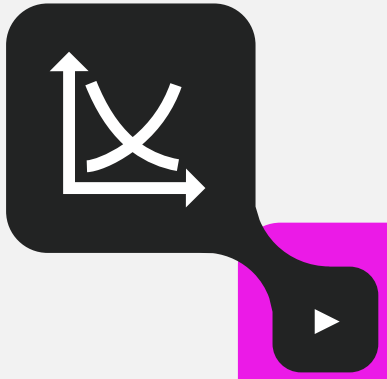


Understanding the Adversary



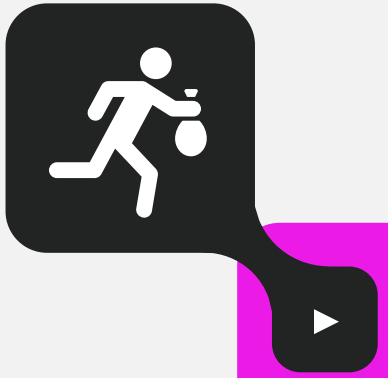
Nation-State Retaliation

Cyber is cheaper, deniable, and hits harder than traditional warfare



Financial Gain

Ransomware, data extortion, Cybercrime-as-a-Service



Espionage & IP Theft

State actors target trade secrets, defence data, and intelligence

Hacktivism & Influence

DDoS, defacement, hack-and-leak to shift public opinion

AI: The Adversary's New Force Multiplier

44% increase in attacks on public facing applications, driven by AI-Enabled Vulnerability Scanning, then publishing false content.

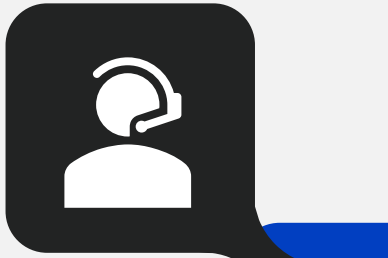
Death of “Spot the Phish”

AI Phishing Strips Away Old Tells

No typos, perfect branding, contextually relevant content

Deepfake Video Calls

Used to impersonate CFOs, CEOs, and senior leadership



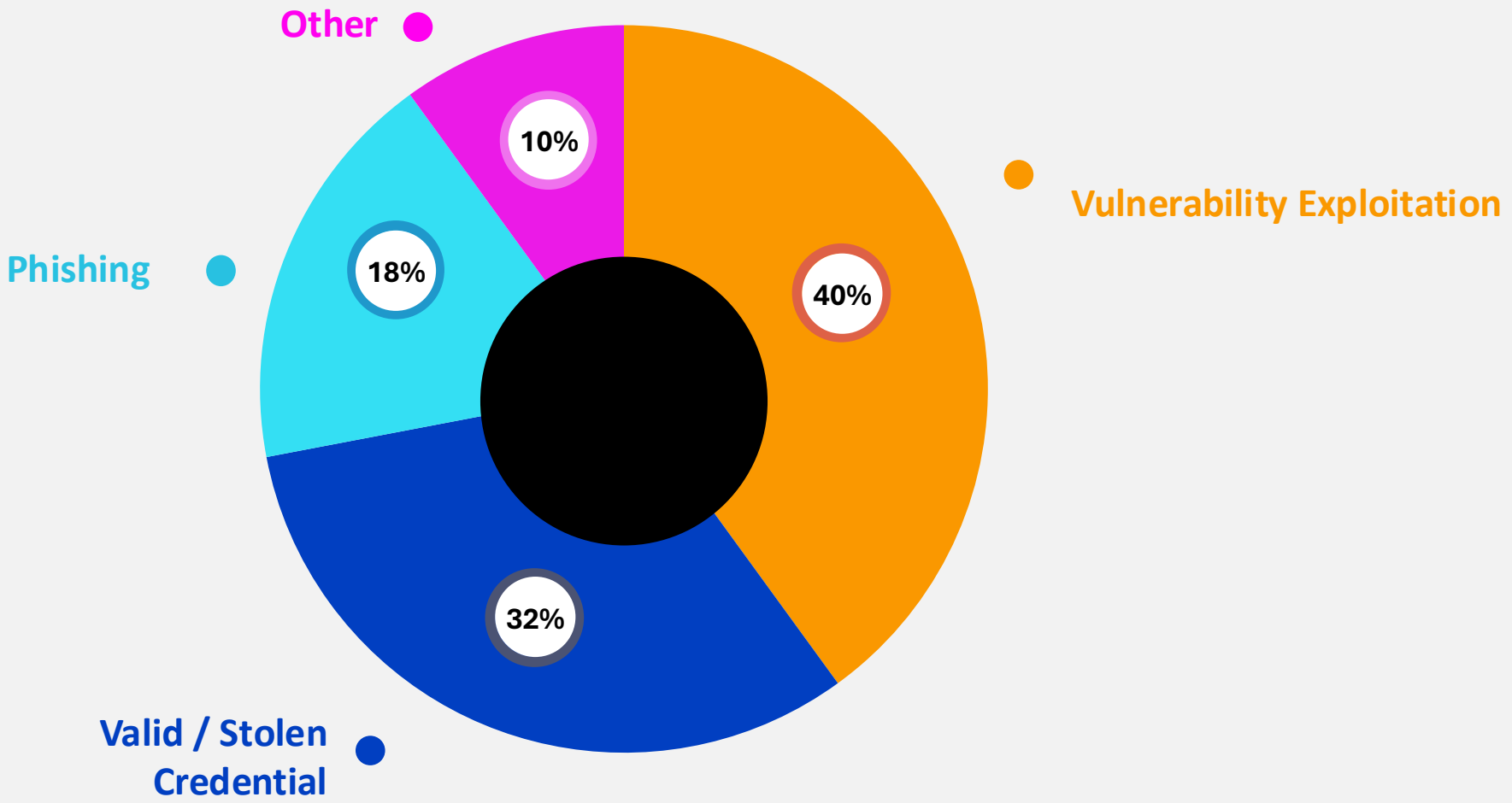
Voice Cloning

Enables real-time phone-based social engineering

Staff Training Alone is no Longer Sufficient

Layered technical controls are essential

How Attackers Get In



So how is this happening?

Your Domain

Is Their Weapon

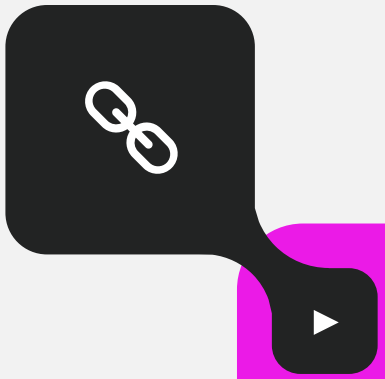
In plain terms: the signpost is still up, but the destination is empty — and anyone can move in and put their own content there, under the a trusted brand.

Subdomain Takeovers

"Its free real estate"

You decommission a cloud service

Azure, AWS, Github – Resource Deleted



You forget to remove the DNS Record

CNAME still pointing at nothing, dangling

Attacker claim it. Now it’s theirs

No Hacking. No access to your systems needed. Captured in less than 5 minutes

The Trust Problem

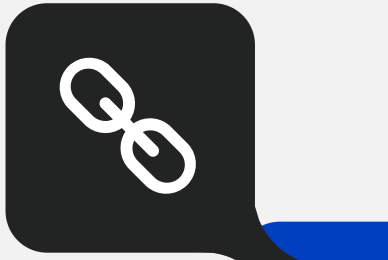
https://login-micr0s0ft-secure.xyz

Emails filters will catch this. Browser flags, and even Dave from accounts is going to catch this one

https://portal.yourcompany.com/login

Trust domain. Your Domain. Email Gateway waves it through, no one will question it.

Now Add AI

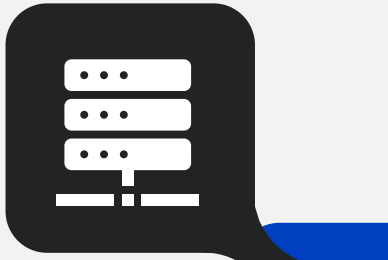


1. Takeover

Adversary claims the forgotten subdomain

2. Prompt

AI Builds login replica with logging mechanism



3. Deploy

Application is deployed to the captured instance

4. Harvest

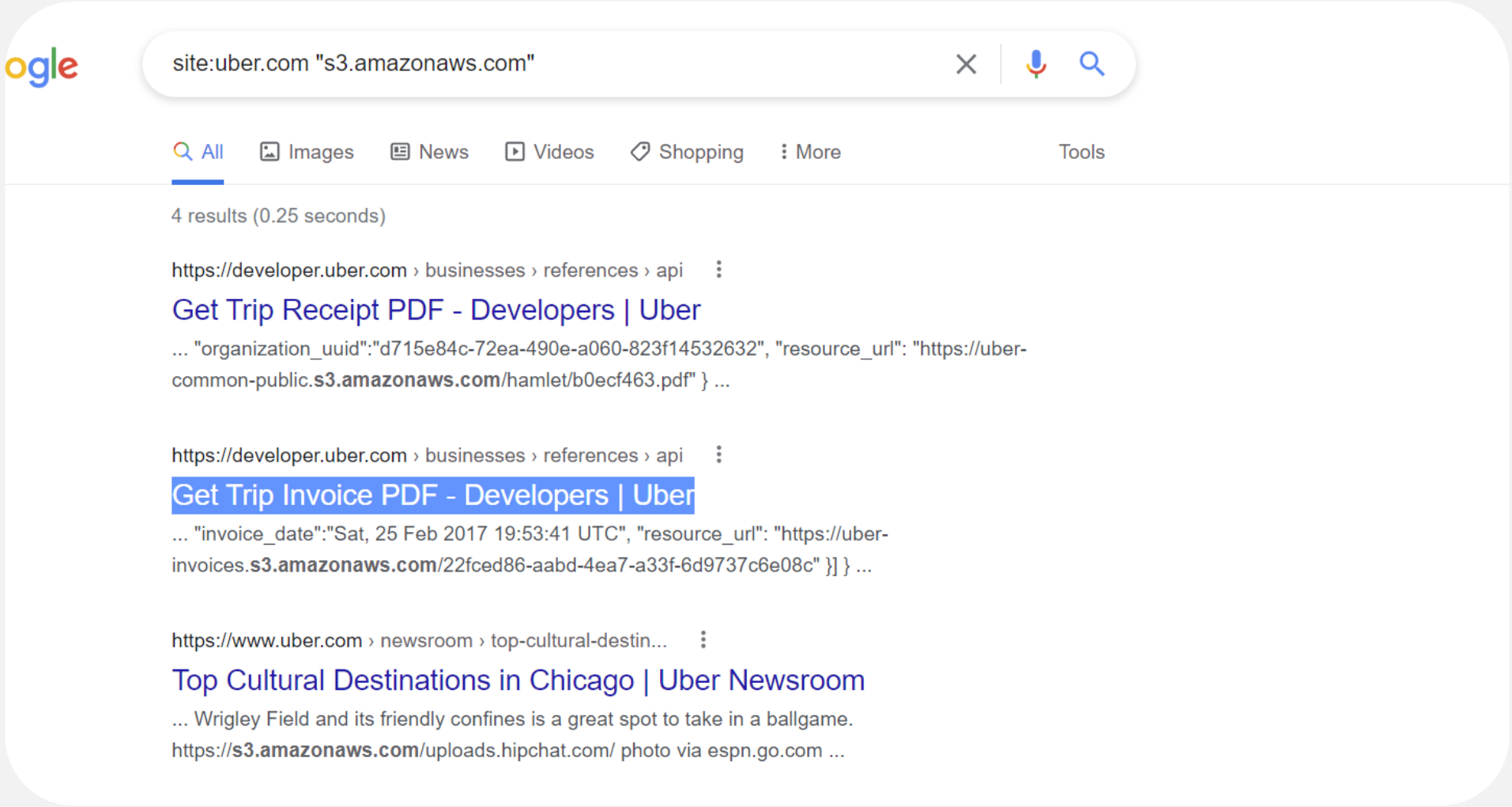
Data is fed back to a command and control. Credentials, Payment details etc.

This Isn’t Theoretical

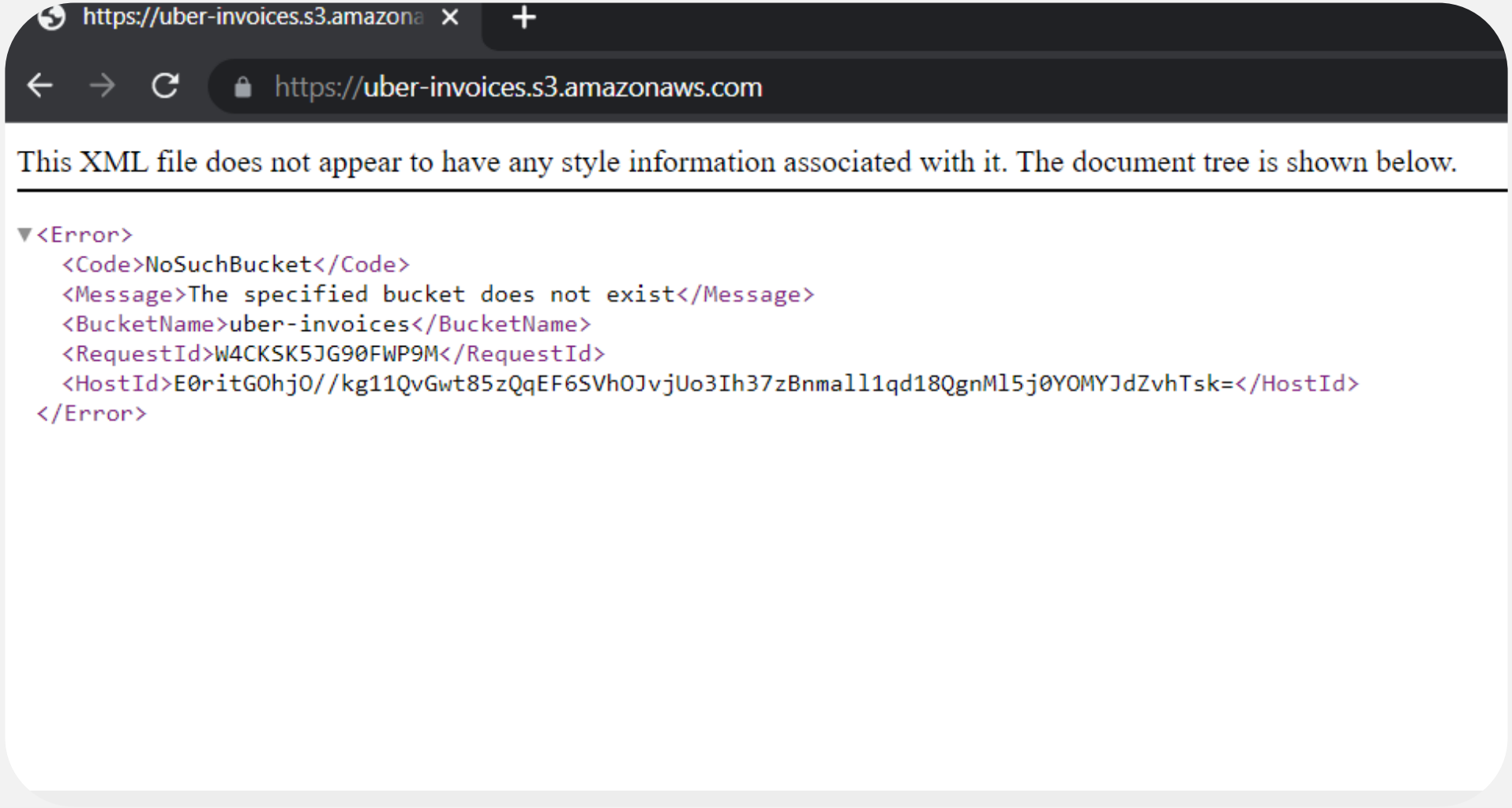
It’s a wide problem, only growing as business grow

- 34x US Universities Compromised
- 2,000+ exploitable DNS records at ONE organisation
- Attacks are happening, now

Let’s See It For Real



Let’s See It For Real



Register > Upload > Serve

Let’s See It For Real

Only a S3 bucket… What’s the harm… Right?

Ooh no……

er	operation	useragent	request_uri
	REST.GET.OBJECT	"MobileSafari/604.1 CFNetwork/978.0.7 Darwin/18.7.0"	"GET /favicon.ico HTTP/1.1"
	REST.GET.OBJECT	"MobileSafari/604.1 CFNetwork/978.0.7 Darwin/18.7.0"	"GET /favicon.ico HTTP/1.1"
	REST.GET.OBJECT	"Mozilla/5.0 (iPad; CPU OS 12_5_5 like Mac OS X) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/12.1.2 Mobile/15E148 Safari/604.1"	"GET /d2a15e04-7c2d-41fc-81b2-9abb4ec98e8d?Signature=XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX&Expires=1474815844&AWSAccessl
	REST.GET.OBJECT	"MobileSafari/604.1 CFNetwork/978.0.7 Darwin/18.7.0"	"GET /apple-touch-icon.png HTTP/1.1"
	REST.GET.OBJECT	"MobileSafari/604.1 CFNetwork/978.0.7 Darwin/18.7.0"	"GET /apple-touch-icon.png HTTP/1.1"
	REST.GET.OBJECT	"MobileSafari/604.1 CFNetwork/978.0.7 Darwin/18.7.0"	"GET /apple-touch-icon-precomposed.png HTTP/1.1"
	REST.GET.OBJECT	"MobileSafari/604.1 CFNetwork/978.0.7 Darwin/18.7.0"	"GET /apple-touch-icon-precomposed.png HTTP/1.1"
	REST.GET.OBJECT	"MobileSafari/604.1 CFNetwork/978.0.7 Darwin/18.7.0"	"GET /apple-touch-icon-152x152.png HTTP/1.1"
	REST.GET.OBJECT	"MobileSafari/604.1 CFNetwork/978.0.7 Darwin/18.7.0"	"GET /apple-touch-icon-152x152.png HTTP/1.1"
	REST.GET.OBJECT	"MobileSafari/604.1 CFNetwork/978.0.7 Darwin/18.7.0"	"GET /apple-touch-icon-152x152-precomposed.png HTTP/1.1"
	REST.GET.OBJECT	"MobileSafari/604.1 CFNetwork/978.0.7 Darwin/18.7.0"	"GET /apple-touch-icon-152x152-precomposed.png HTTP/1.1"

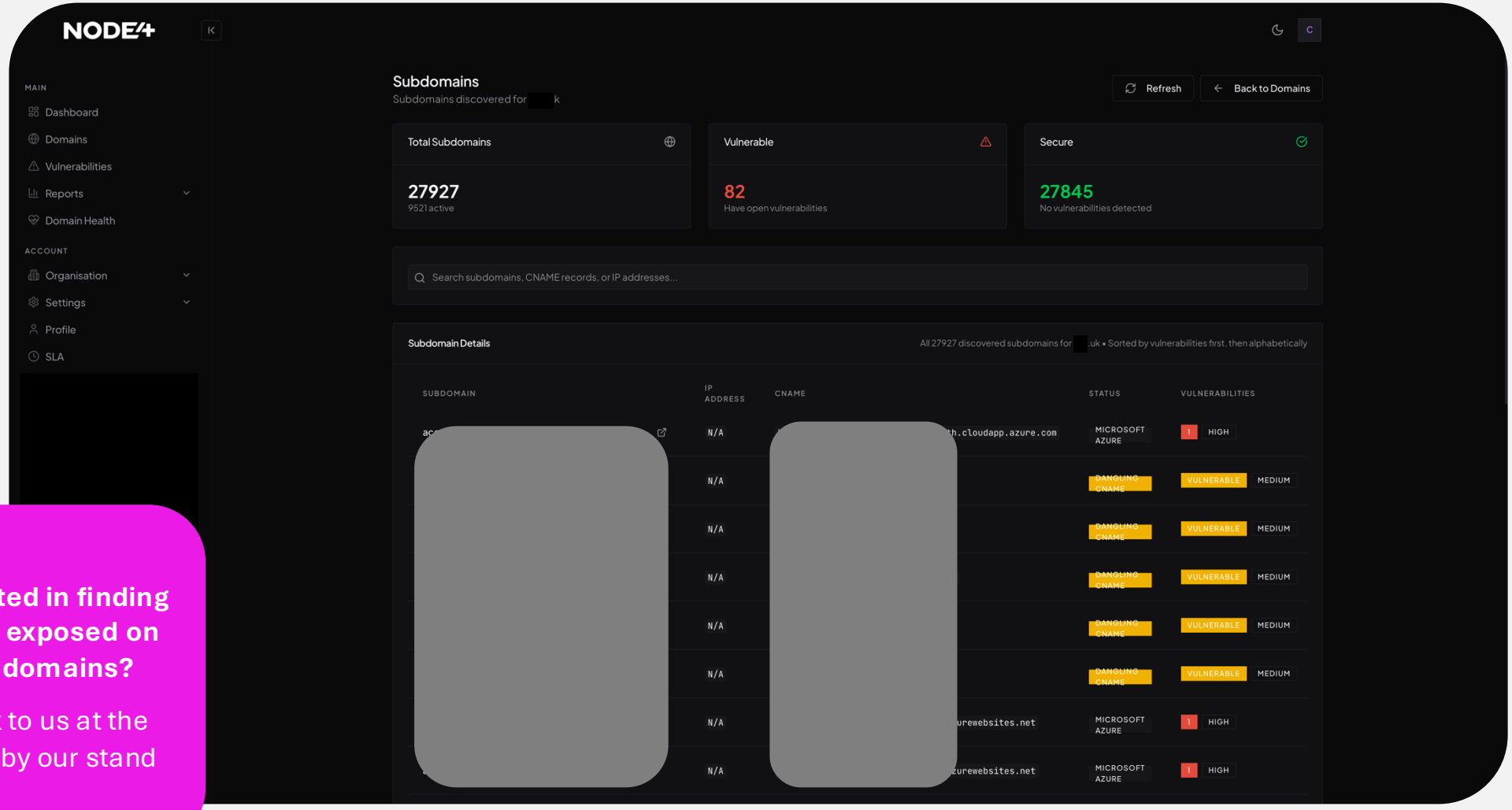
We often see these services be linked to a lot more…

That’s not good….

[redacted].53	"https://uber-invoices.s3.amazonaws.com/"	REST.GET.OBJECT	"Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/102.0.0.0 Safari/537.36"
[redacted].53	"https://t3.uberinternal.com/"	REST.GET.BUCKET	"Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/102.0.0.0 Safari/537.36"
	"https://uber-invoices.s3.amazonaws.com/"	REST.GET.OBJECT	"Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/102.0.0.0 Safari/537.36"
	"https://t3.uberinternal.com/"	REST.GET.BUCKET	"Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/102.0.0.0 Safari/537.36"

Now imagine this being your business… what could an adversary get?

The Scale Of The Problem



Interested in finding what's exposed on your domains?

Speak to us at the end or by our stand

Detection Isn’t Enough

Detect The Risk

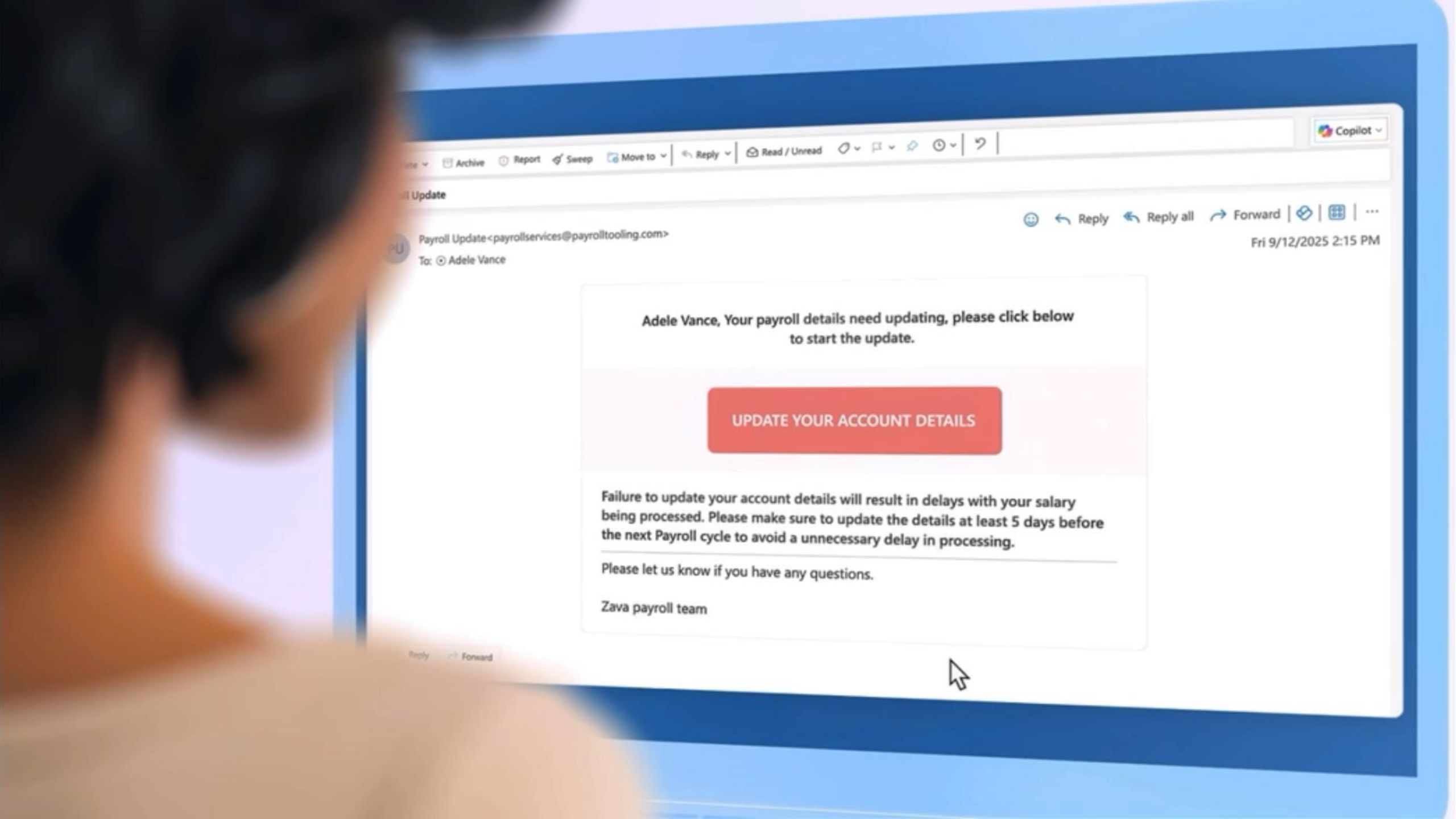
- Monitor Attack Surface
- Find Dangling DNS
- Watch CT Logs

Make Credentials Worthless

- SSO & Passkeys
- Conditional Access
- Device Compliance

Demo Time

Beyond MFA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Report
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Reply
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Copilot
Update
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Reply all
Forward
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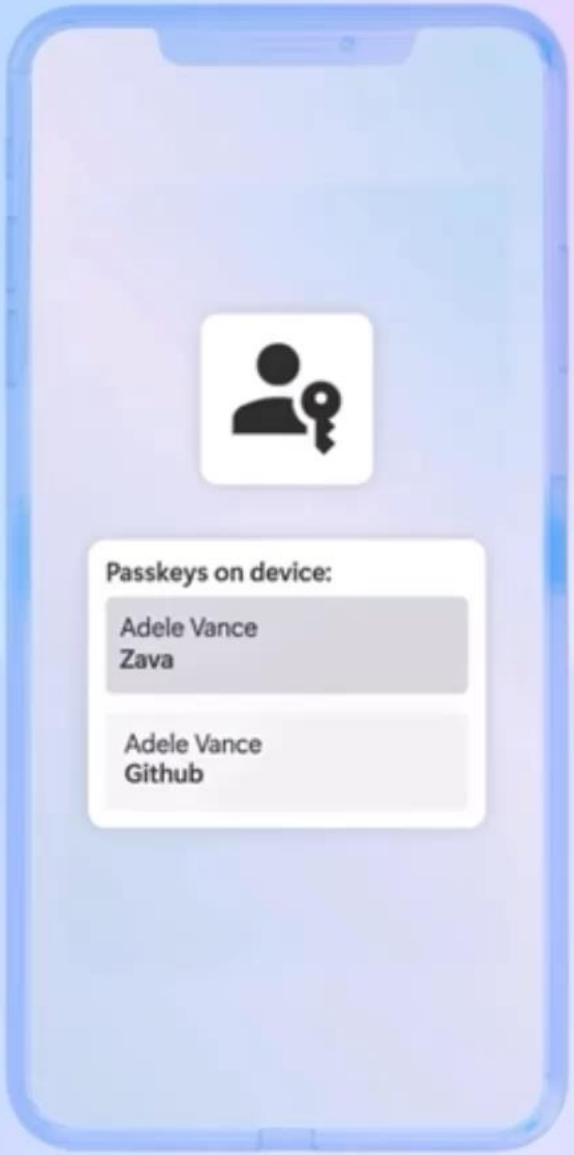
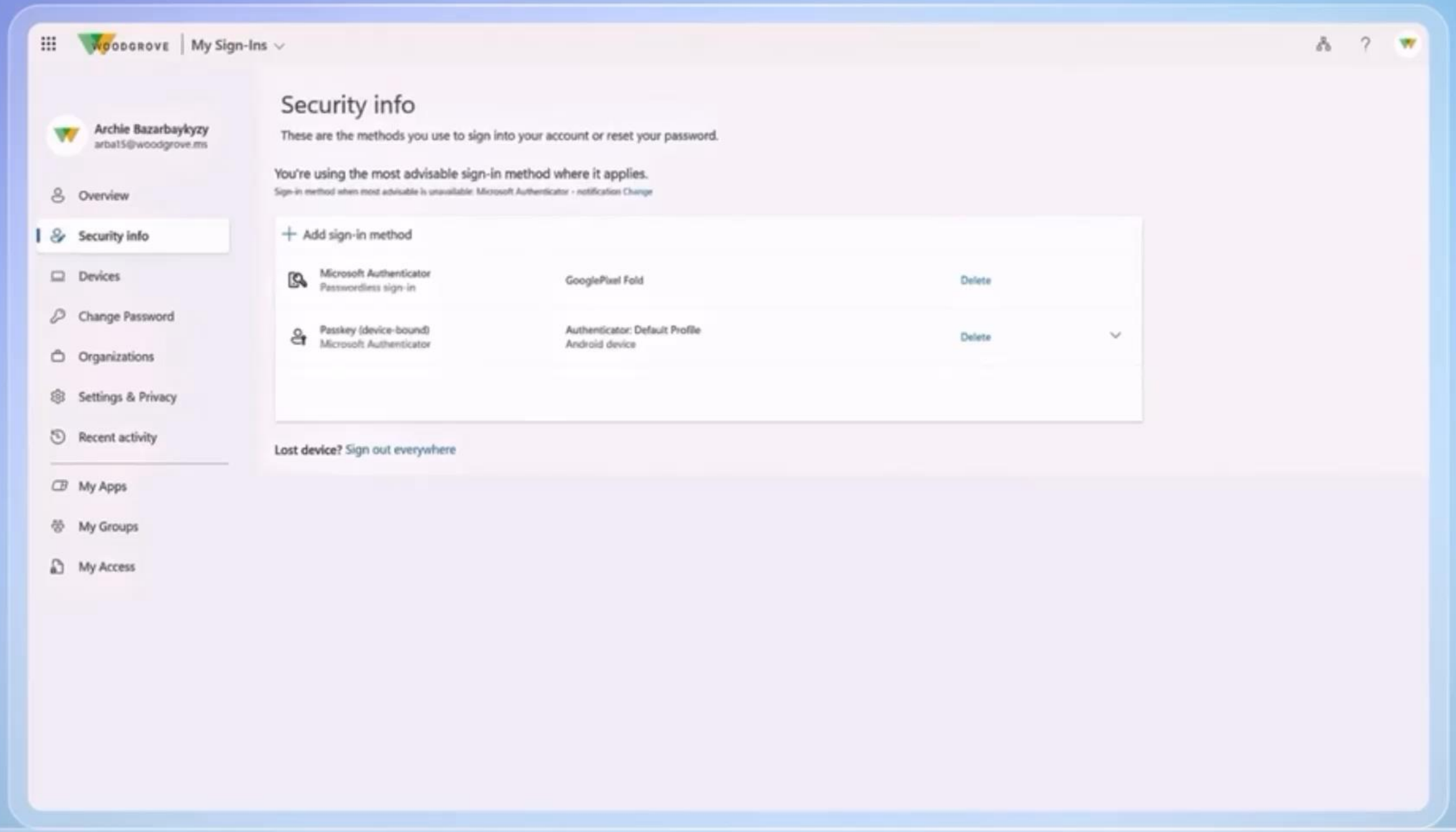
Fri 9/12/2025 2:15 PM
Adele Vance, Your payroll details need updating, please click below to start the update.
UPDATE YOUR ACCOUNT DETAILS
Failure to update your account details will result in delays with your salary being processed. Please make sure to update the details at least 5 days before the next Payroll cycle to avoid a unnecessary delay in processing.
Please let us know if you have any questions.
Zava payroll team

Device-bound passkeys

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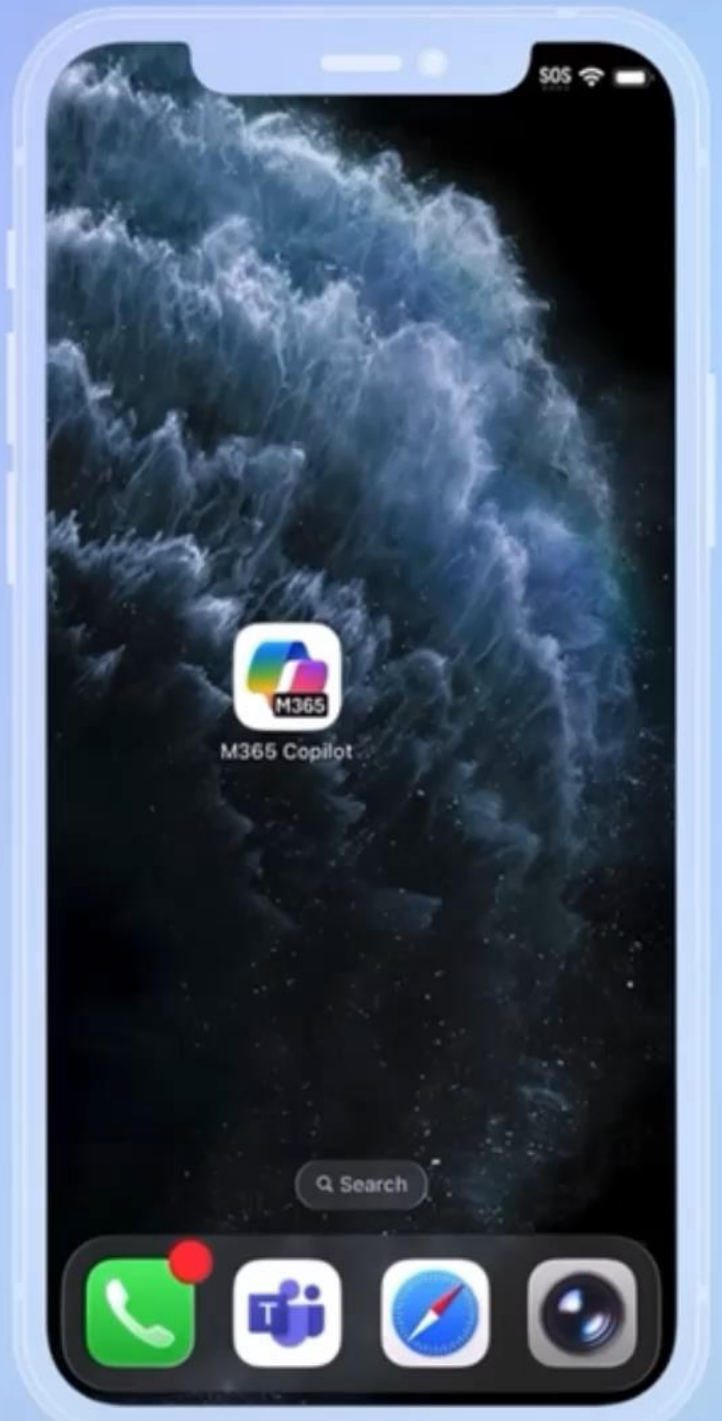
My Sign-Ins
Archie Bazarbaykyzy
arba15@woodgrove.ms
Overview
Security info
Devices
Change Password
Organizations
Settings & Privacy
Recent activity
My Apps
My Groups
My Access
Security info
These are the methods you use to sign into your account or reset your password.
You're using the most advisable sign-in method where it applies.
Sign-in method when most advisable is unavailable: Microsoft Authenticator - notification Change
Add sign-in method
Microsoft Authenticator
Passwordless sign-in
GooglePixel Fold
Delete
Passkey (device-bound)
Microsoft Authenticator
Authenticator: Default Profile
Android device
Delete
Lost device? Sign out everywhere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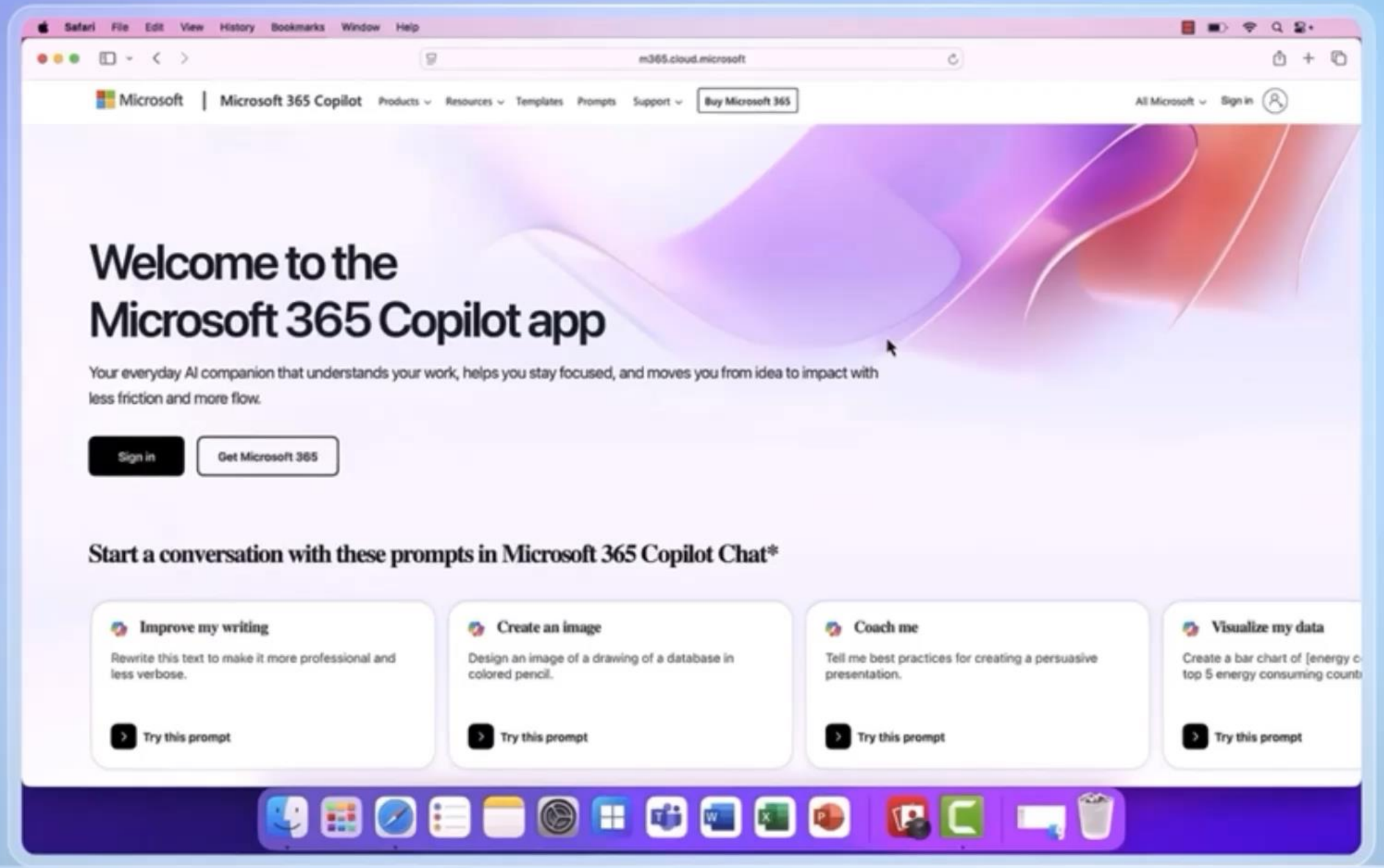
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Your everyday AI companion that understands your work, helps you stay focused, and moves you from idea to impact with less friction and more flow.
Sign in
Get Microsoft 365
Start a conversation with these prompts in Microsoft 365 Copilot Chat*
Improve my writing
Rewrite this text to make it more professional and less verbose.
Try this prompt
Create an image
Design an image of a drawing of a database in colored pencil.
Try this prompt
Coach me
Tell me best practices for creating a persuasive presentation.
Try this prompt
Visualize my data
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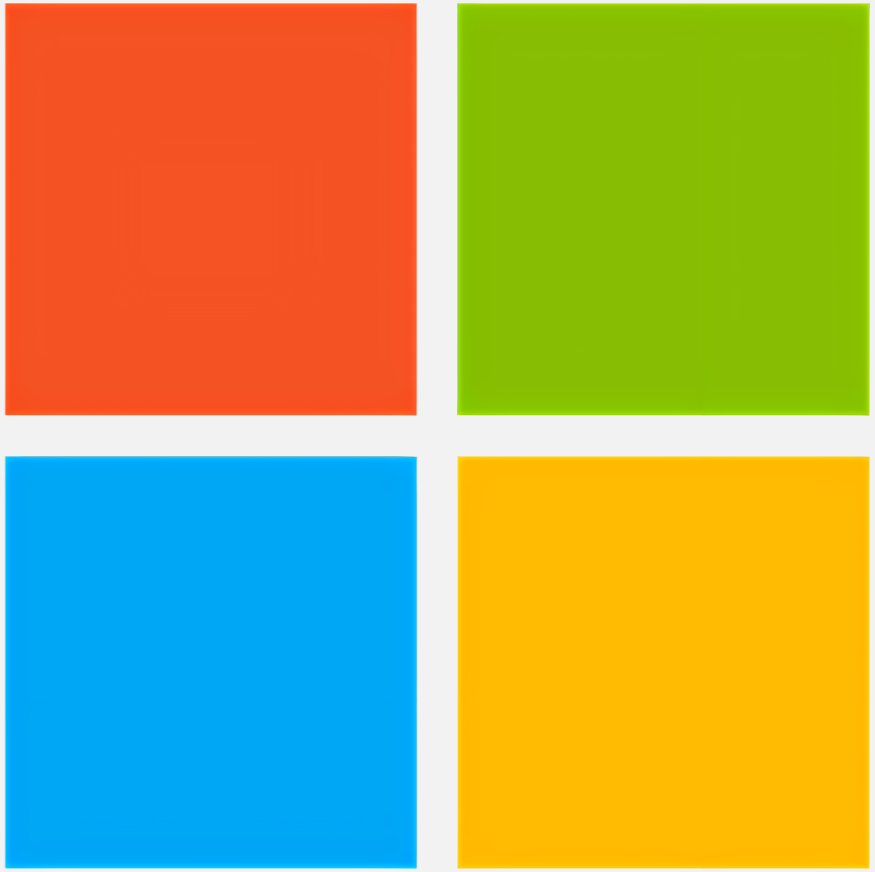
Try this prompt

VS



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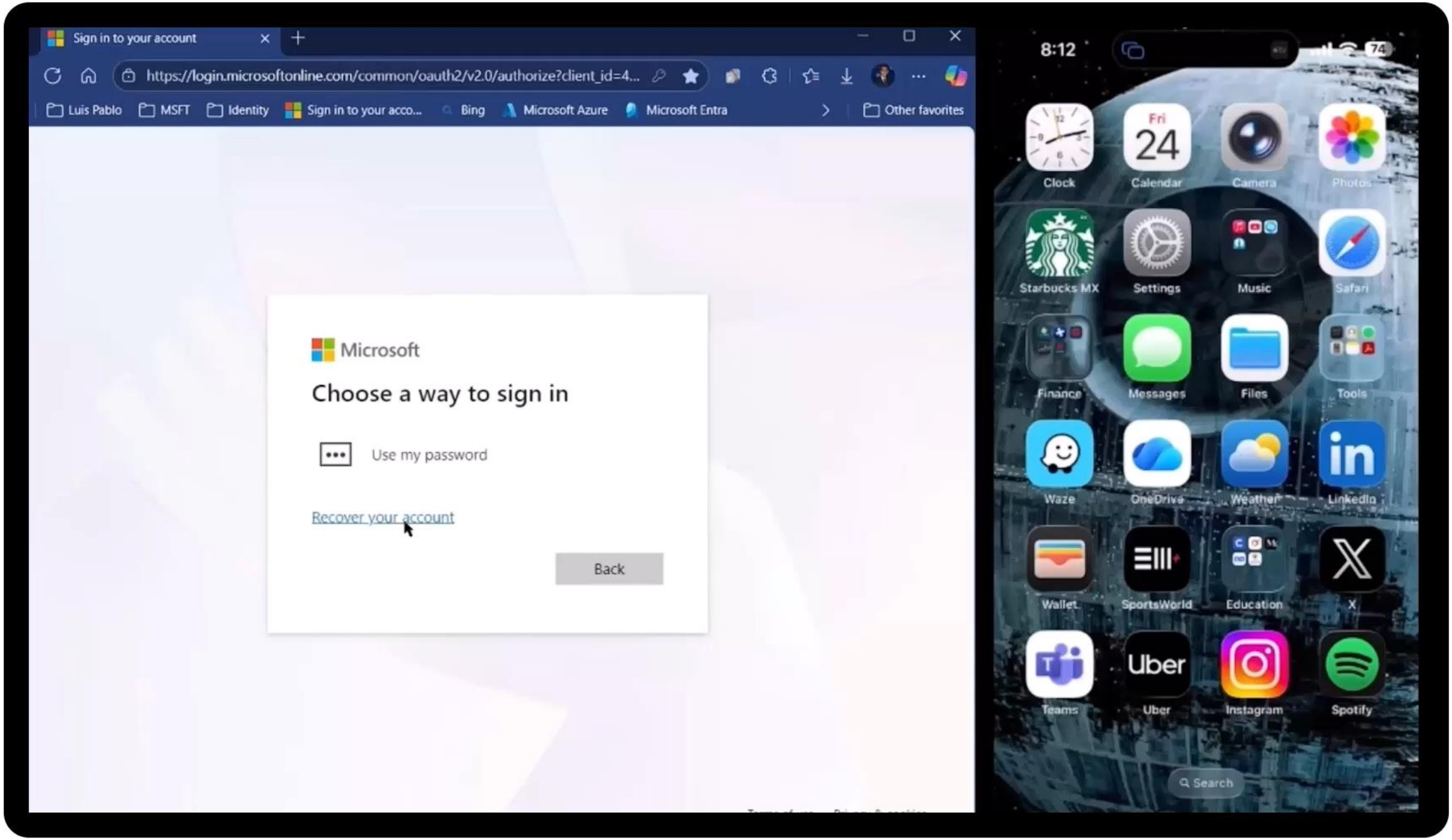
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Luis Pablo
MSFT
Identity
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Other favorites
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Choose a way to sign in
Use my password
Recover your account
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Photos
Starbucks MX
Settings
Music
Safari
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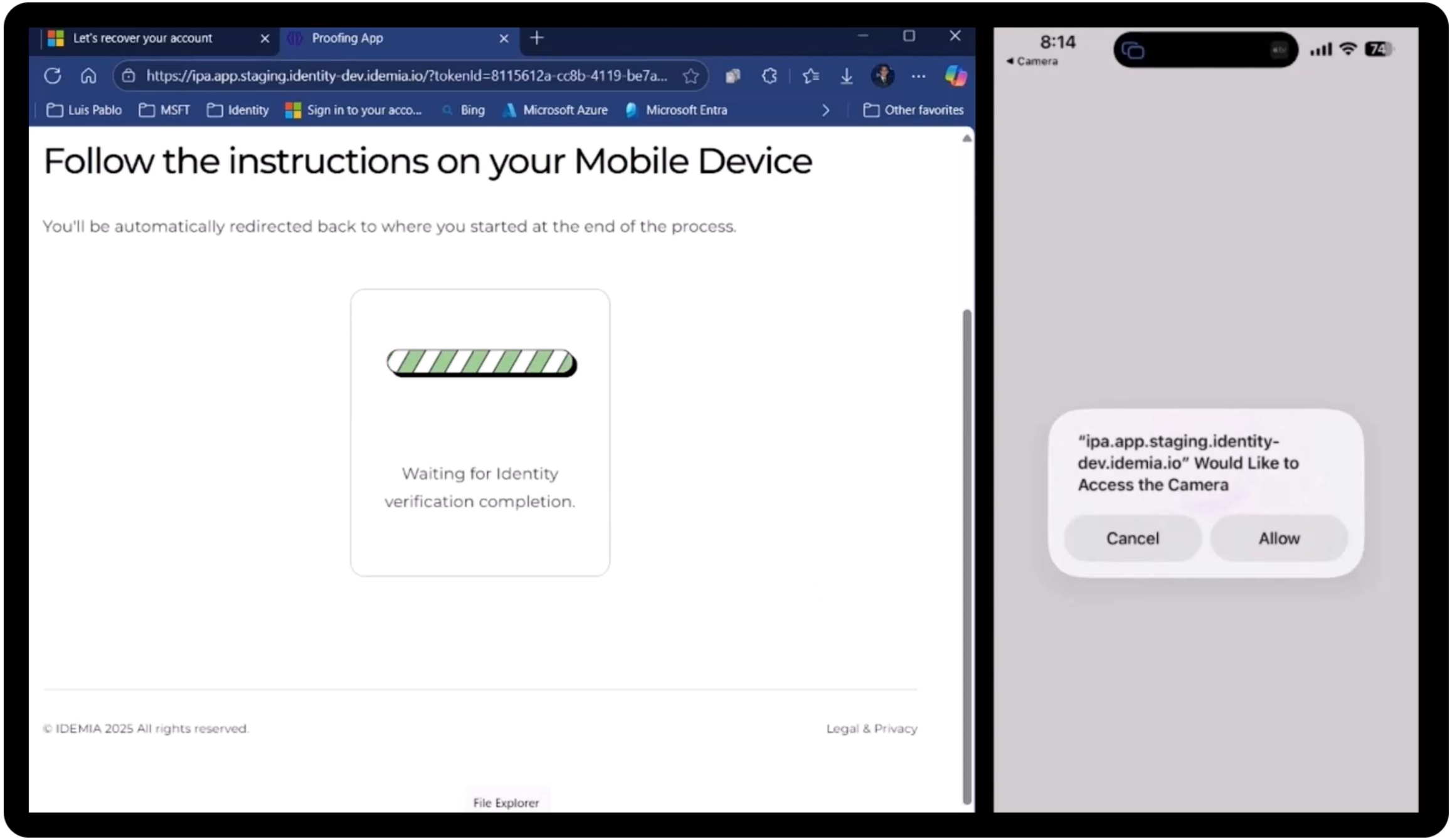
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Identity
Sign in to your acco...
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Other favorites
Follow the instructions on your Mobile Device
You'll be automatically redirected back to where you started at the end of the process.
Waiting for Identity verification completion.
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File Explorer
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Cancel
Allow

Let's recover your account | Proofing App

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Follow the instructions on your Mobile Device

You'll be automatically redirected back to where you started at the end of the process.

Waiting for Identity verification completion.

Legal & Privacy

File Explorer

8:14

Camera

EN

BY IDEMIA

Review the results.

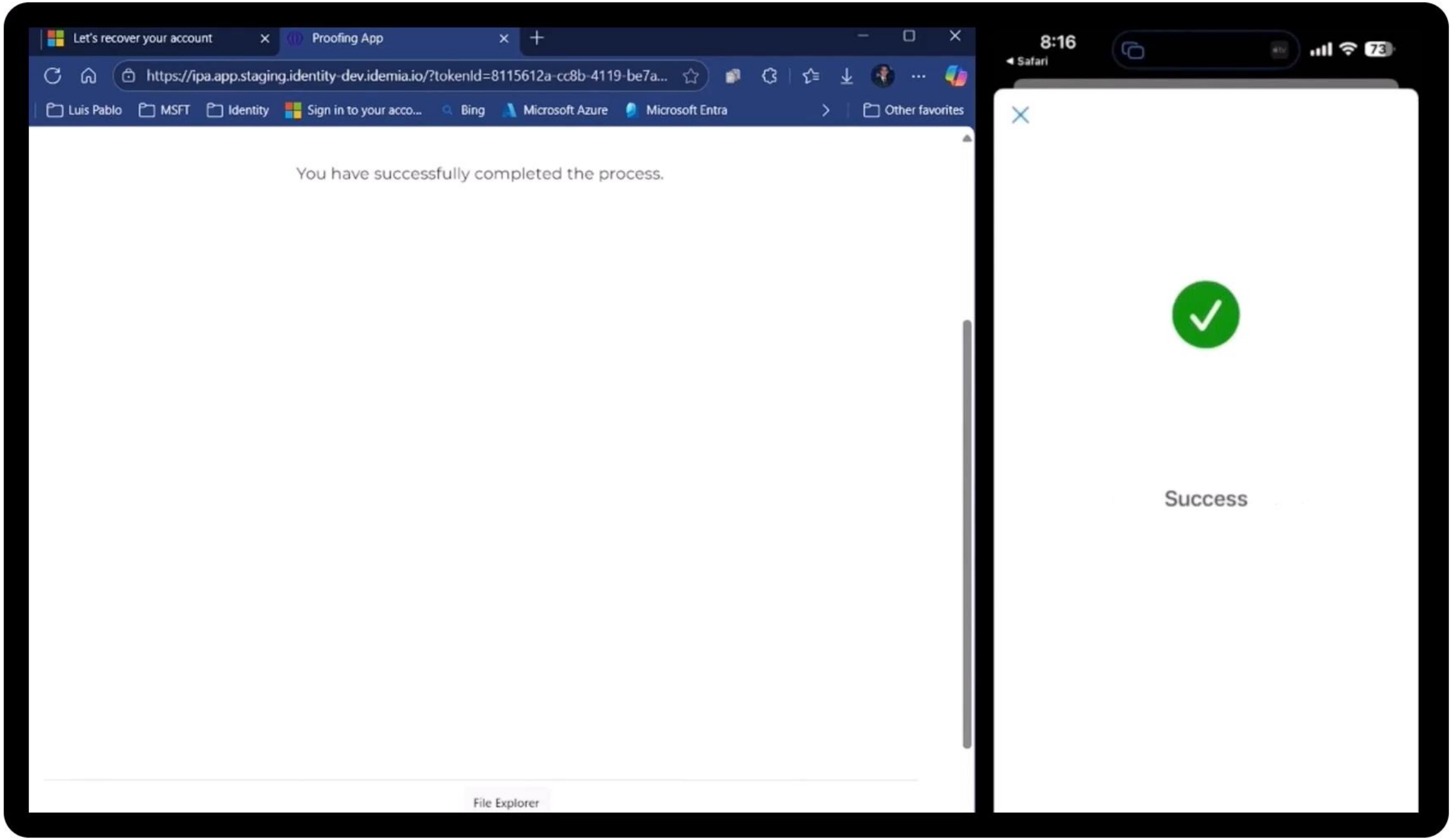
Before submitting photos, make sure that:

- **All corners are visible**
- **All data is visible (nothing is covered)**
- **No glares and shadows**

Front

Submit photos

Retake photo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Luis Pablo
MSFT
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Microsoft Azure
Microsoft Entra
Other favorites
You have successfully completed the process.
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Success

Trust is King


NOKIA
NOKIA
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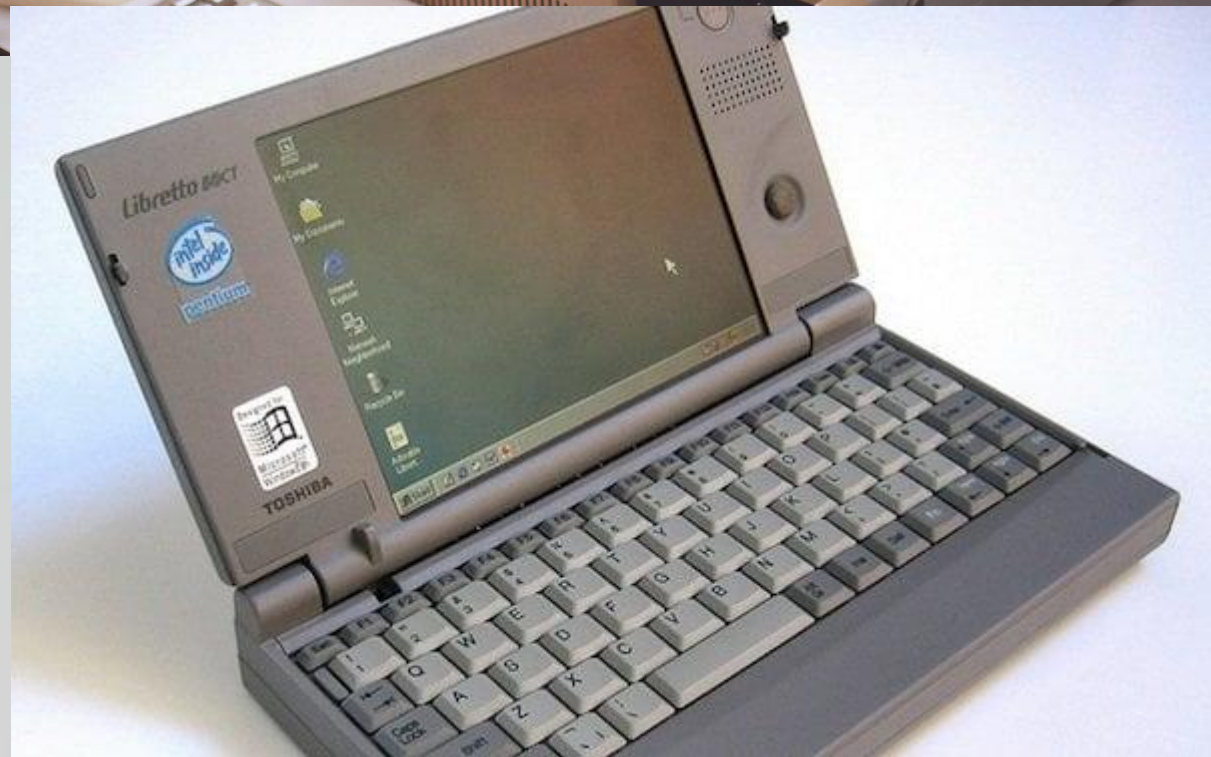
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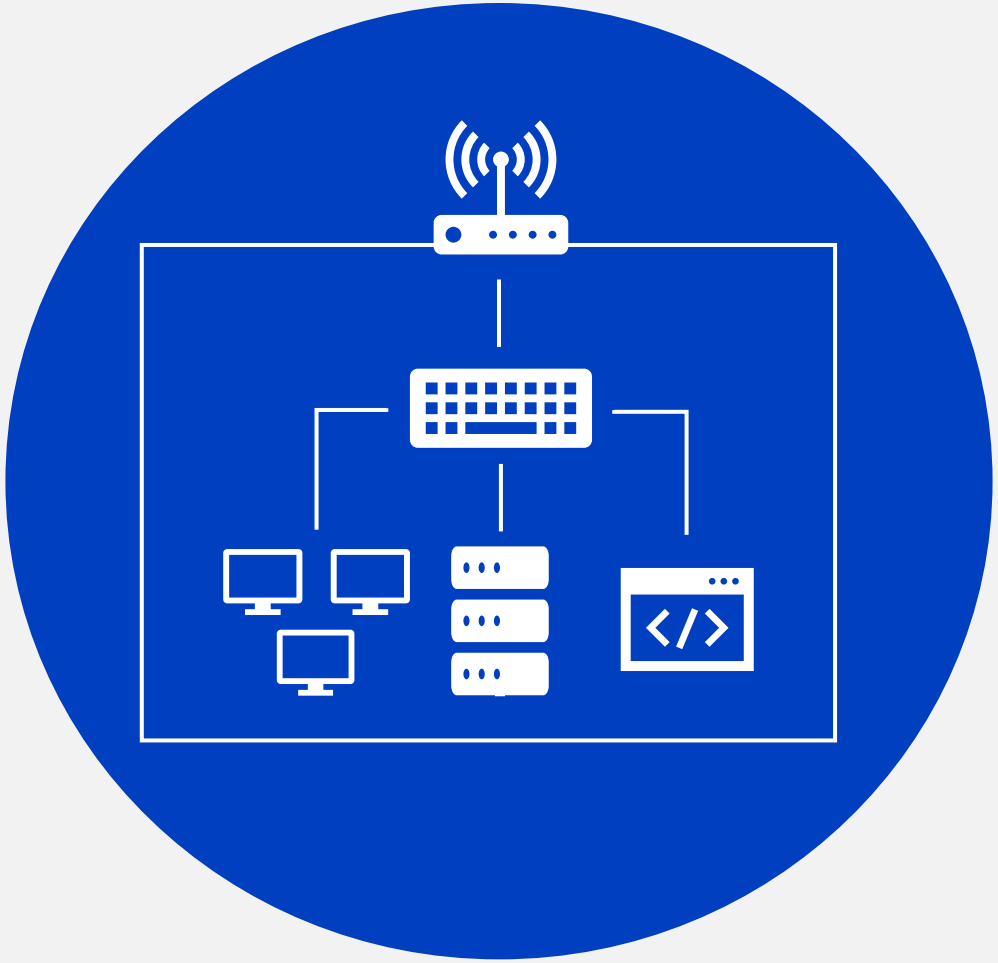
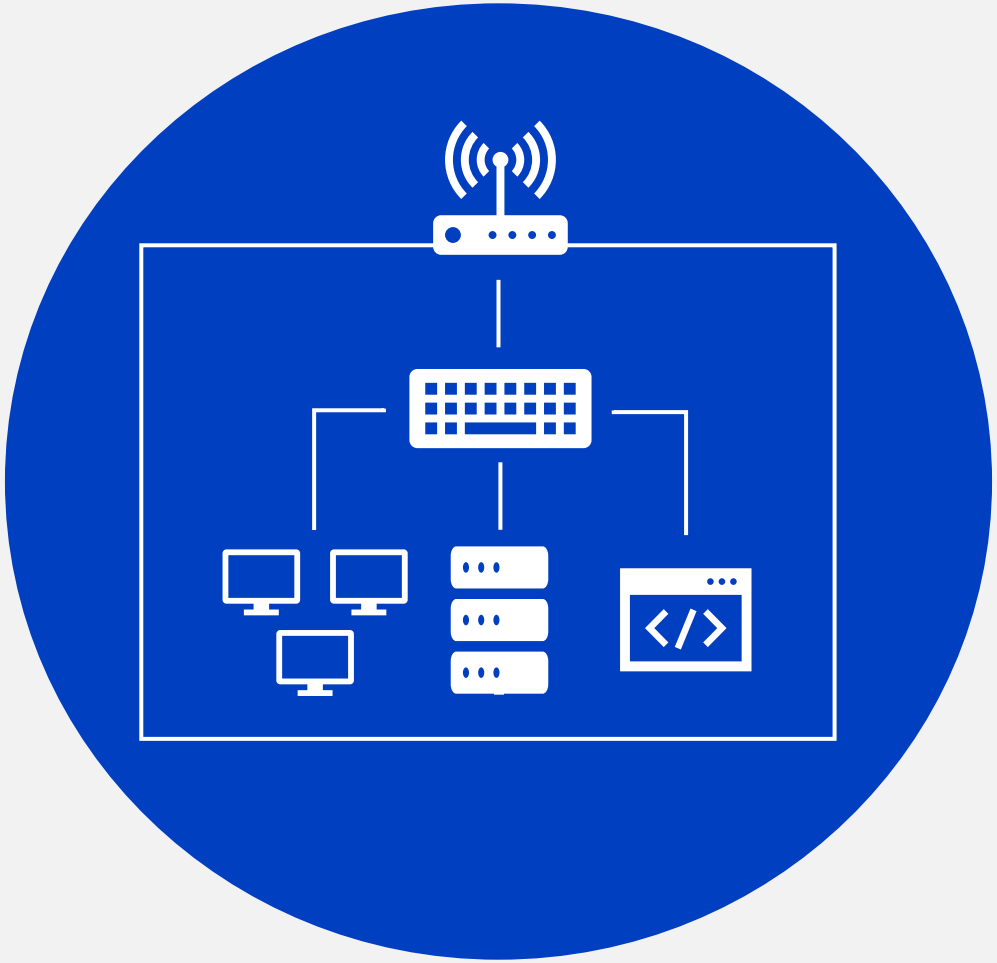
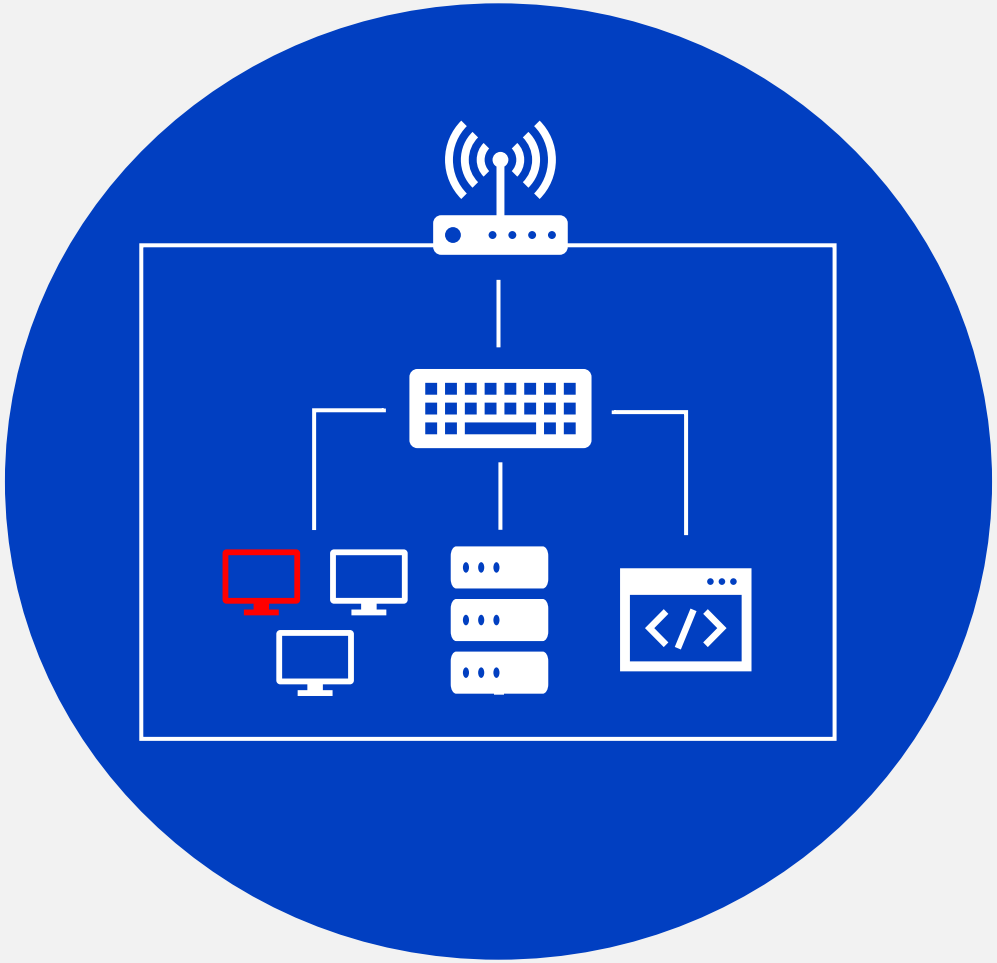




Cloud Apps & Services

Remote Working

User Owned Devices



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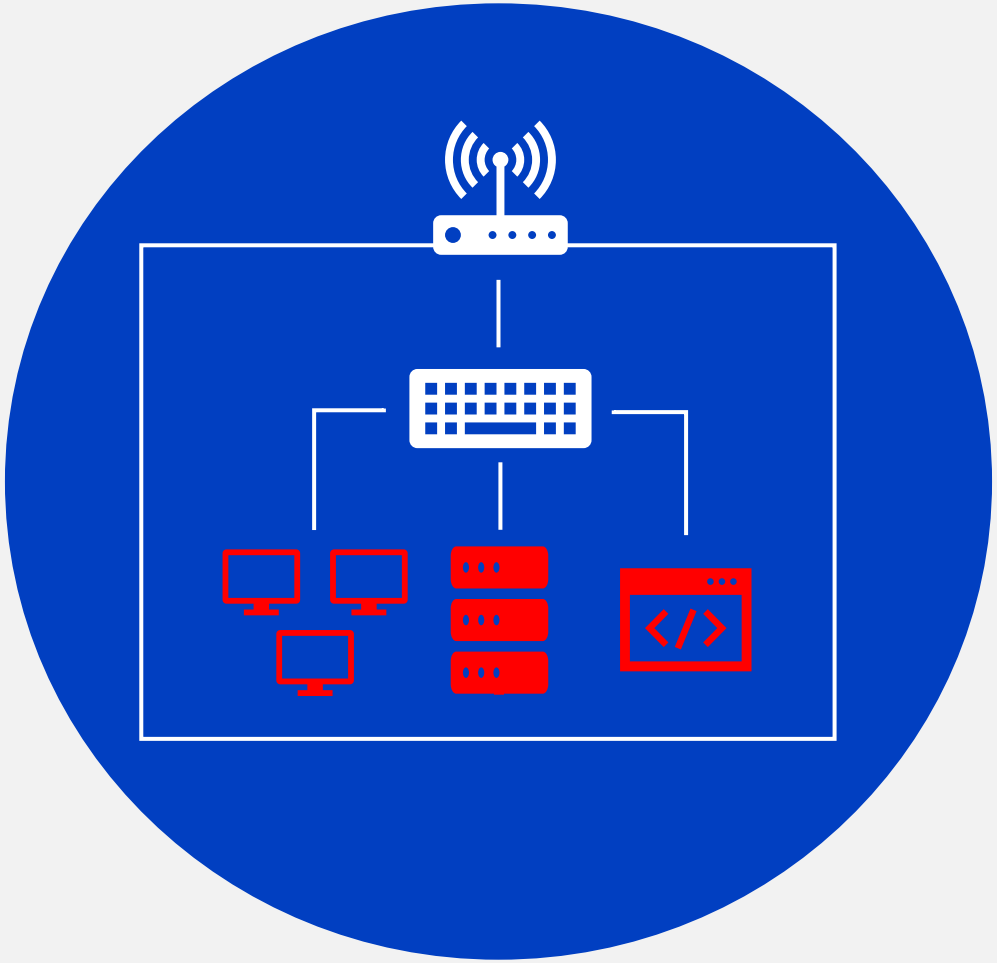

Cloud Apps & Services

Remote Working

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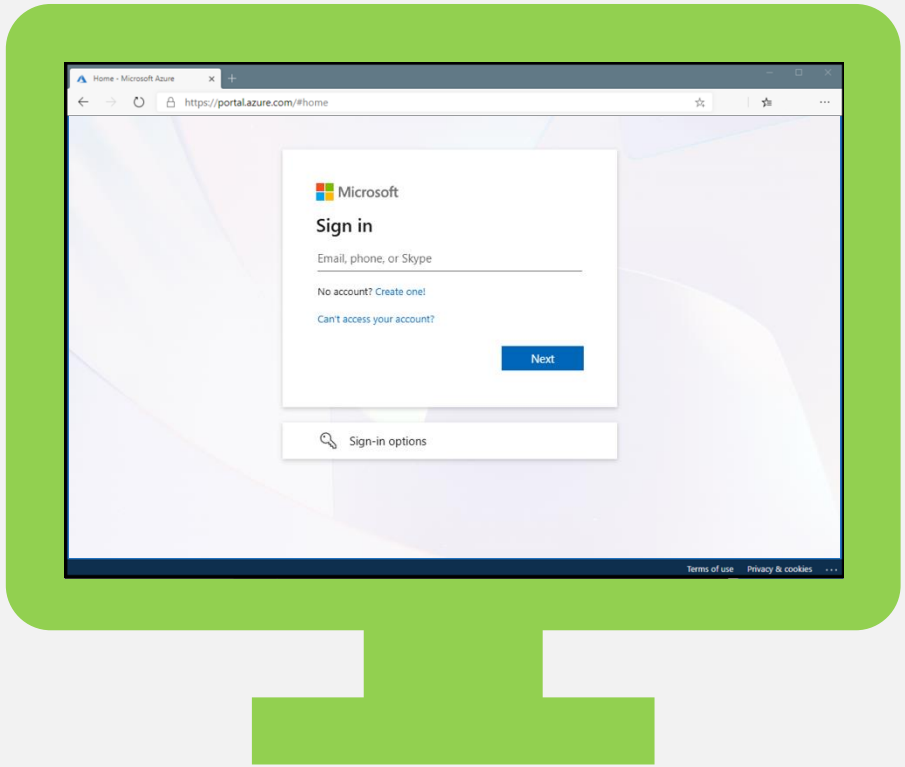
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No account? Create one!
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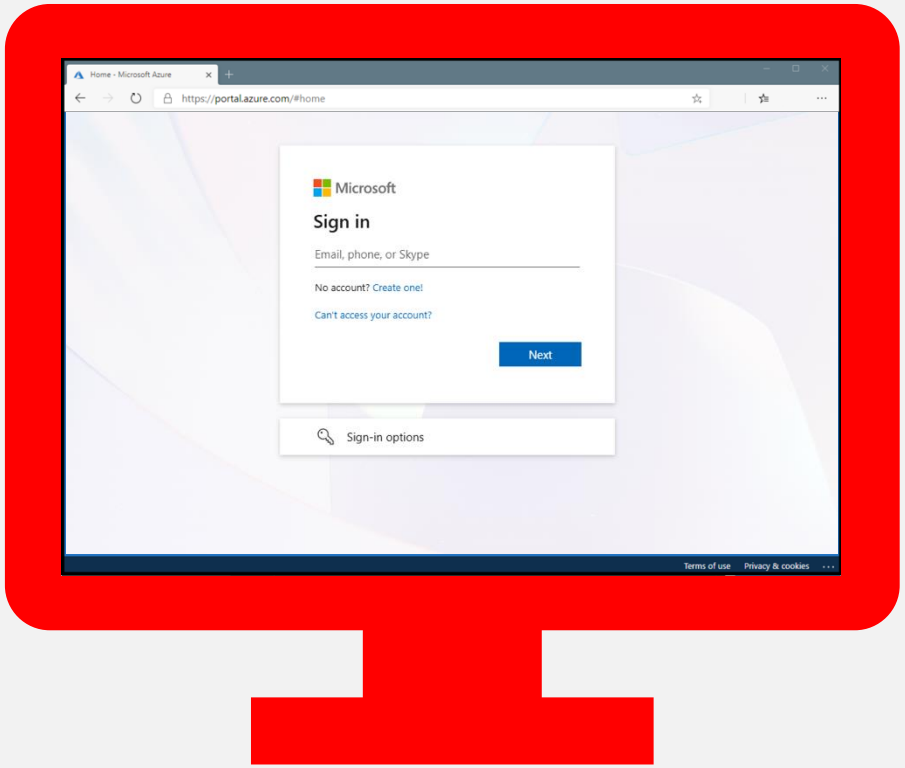
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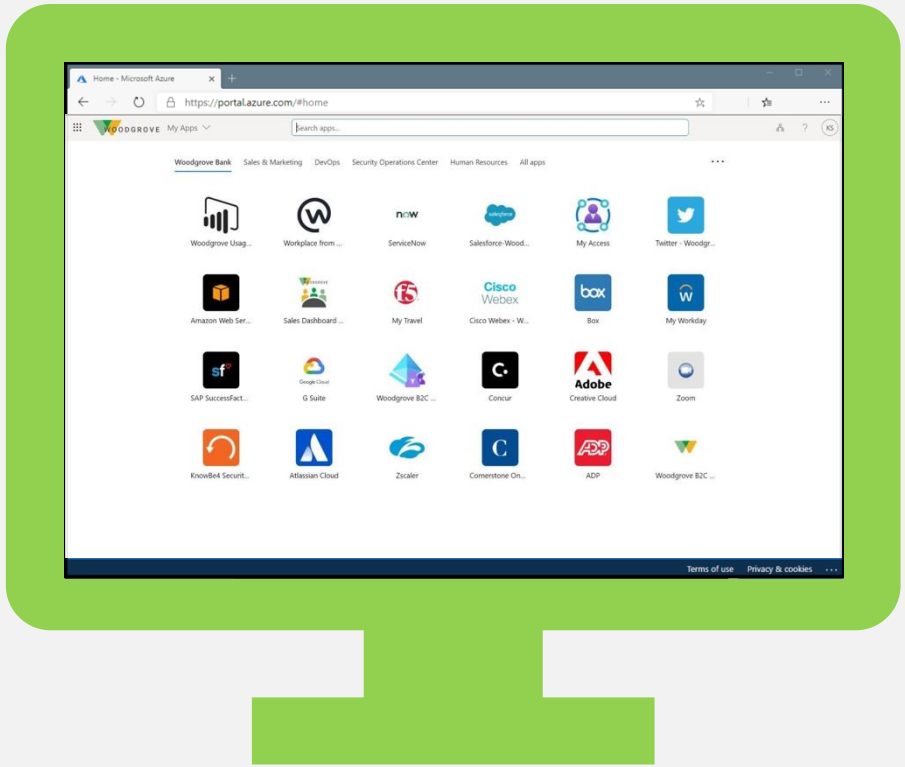
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DevOps
Security Operations Center
Human Resources
All apps
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Workplace from ...
ServiceNow
Salesforce-Wood...
My Access
Twitter - Woodgr...
Amazon Web Ser...
Sales Dashboard ...
My Travel
Cisco Webex - W...
Box
My Workday
SAP SuccessFact...
G Suite
Woodgrove B2C ...
Concur
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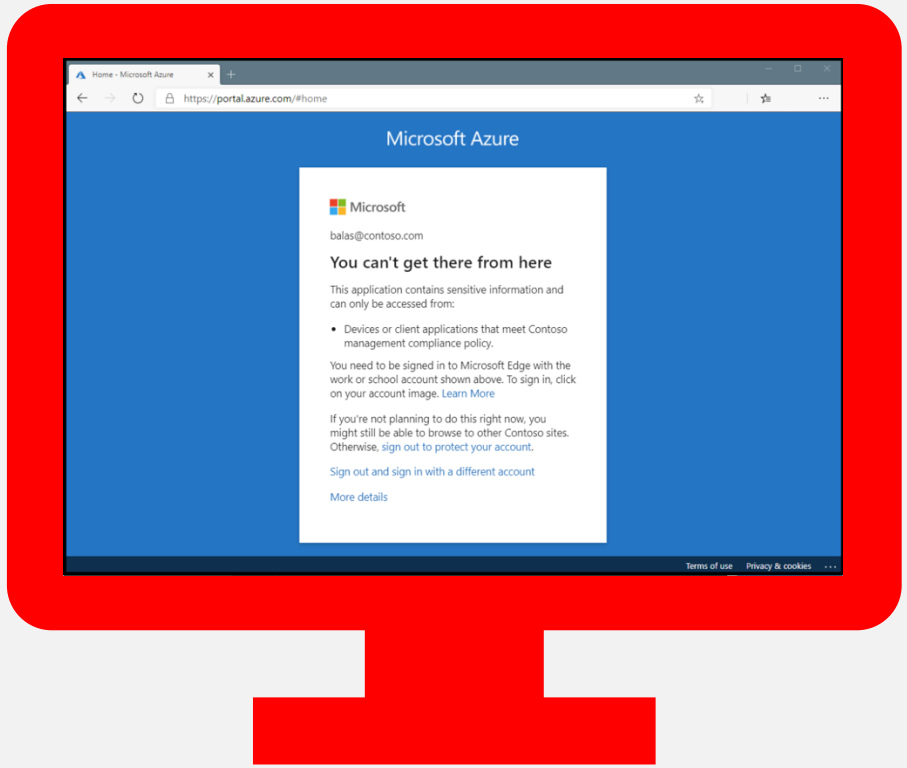
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This application contains sensitive information and can only be accessed from:
Devices or client applications that meet Contoso management compliance policy.
You need to be signed in to Microsoft Edge with the work or school account shown above. To sign in, click on your account image. Learn More
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Wrap Up

You’re Only as Strong as Your Weakest Supplier

Takeaways

The Threat Landscape Has Shifted

Geopolitical conflict and AI have changed the speed, scale, and sophistication of attacks. This is not business as usual.

01

Identity is the New Battleground

Cloud identity infrastructure (Entra ID, Intune, IAM) is where the most impactful attacks are happening.

02

The Basics Still Matter the Most

MFA, patching, backups, and incident planning prevent the vast majority of successful attacks.

03

Any Questions?

Thank You.

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