

AUTHENTREND |  Microsoft

# AuthenTrend and Microsoft Azure Active Directory Protecting the Modern Workplace





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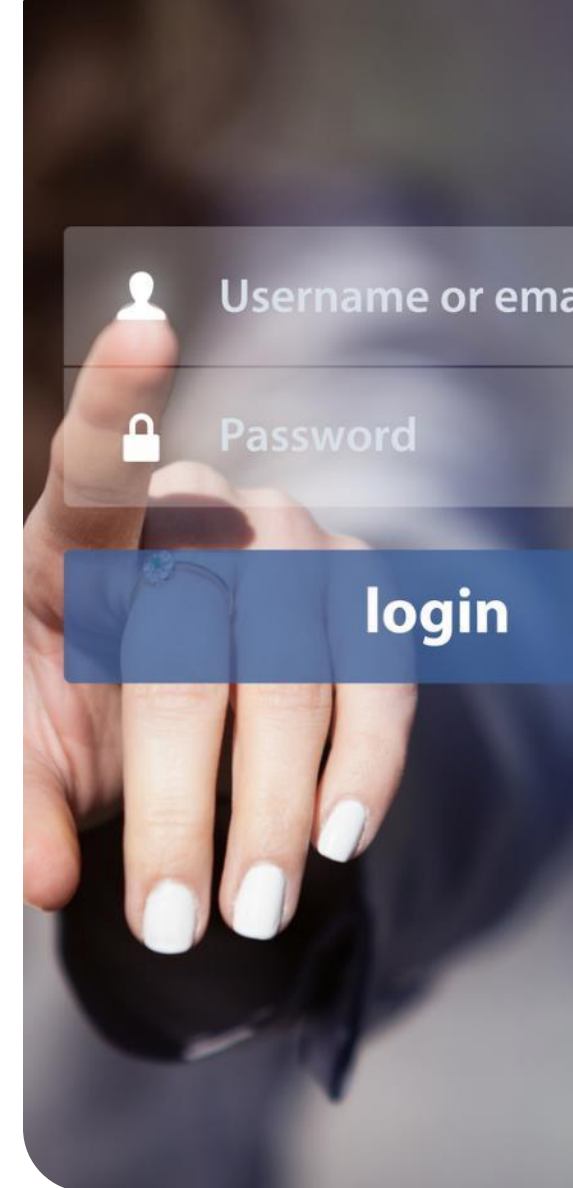
athena.chiang@authentrend.com





# Agenda

1. Why Passwordless?
2. Why Biometric Enabled Security Keys?
3. Forget Passwords, Go Passwordless! - Microsoft TAP feature
4. Use passwordless authentication to improve security – ATKey & Azure AD
5. AuthenTrend FIDO2 Fingerprint Security Keys - ATKey.Pro & ATKey.Card
6. Start your Passwordless Journey with ATKey and Azure AD!
7. Success Story
8. Next Step



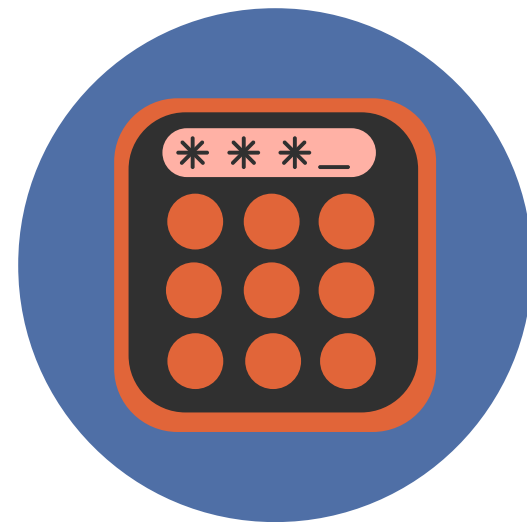


# Why Passwordless?



SMS

- Coverage issues
- Delay
- Phishable



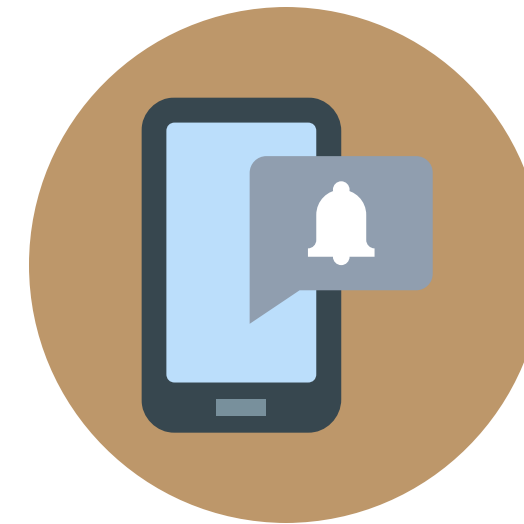
Backup  
Codes

- Saving required
- Phishable



OTP/  
TOTP

- Shared Secret Key
- Phishable



Mobile  
Push

- Internet required
- Phishable



Security Key

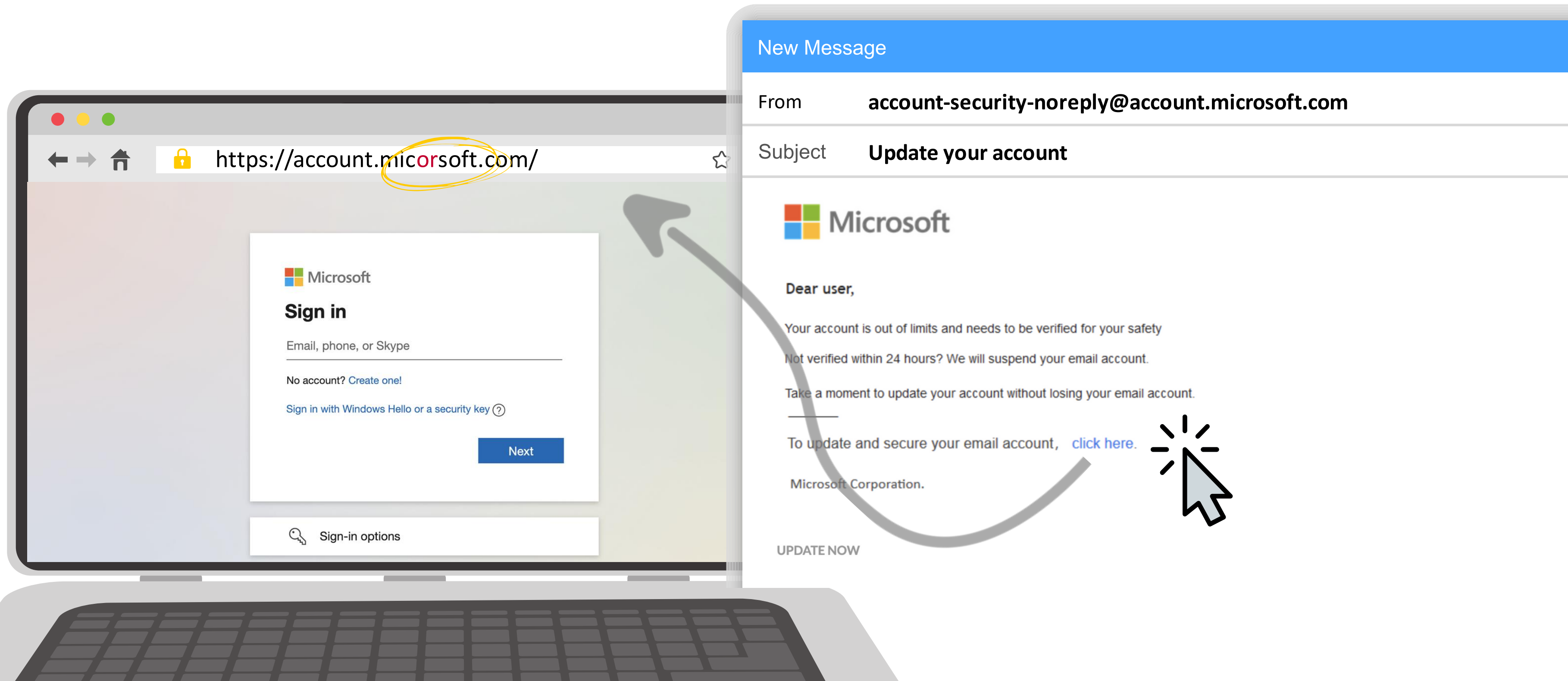
Phishing-resistant

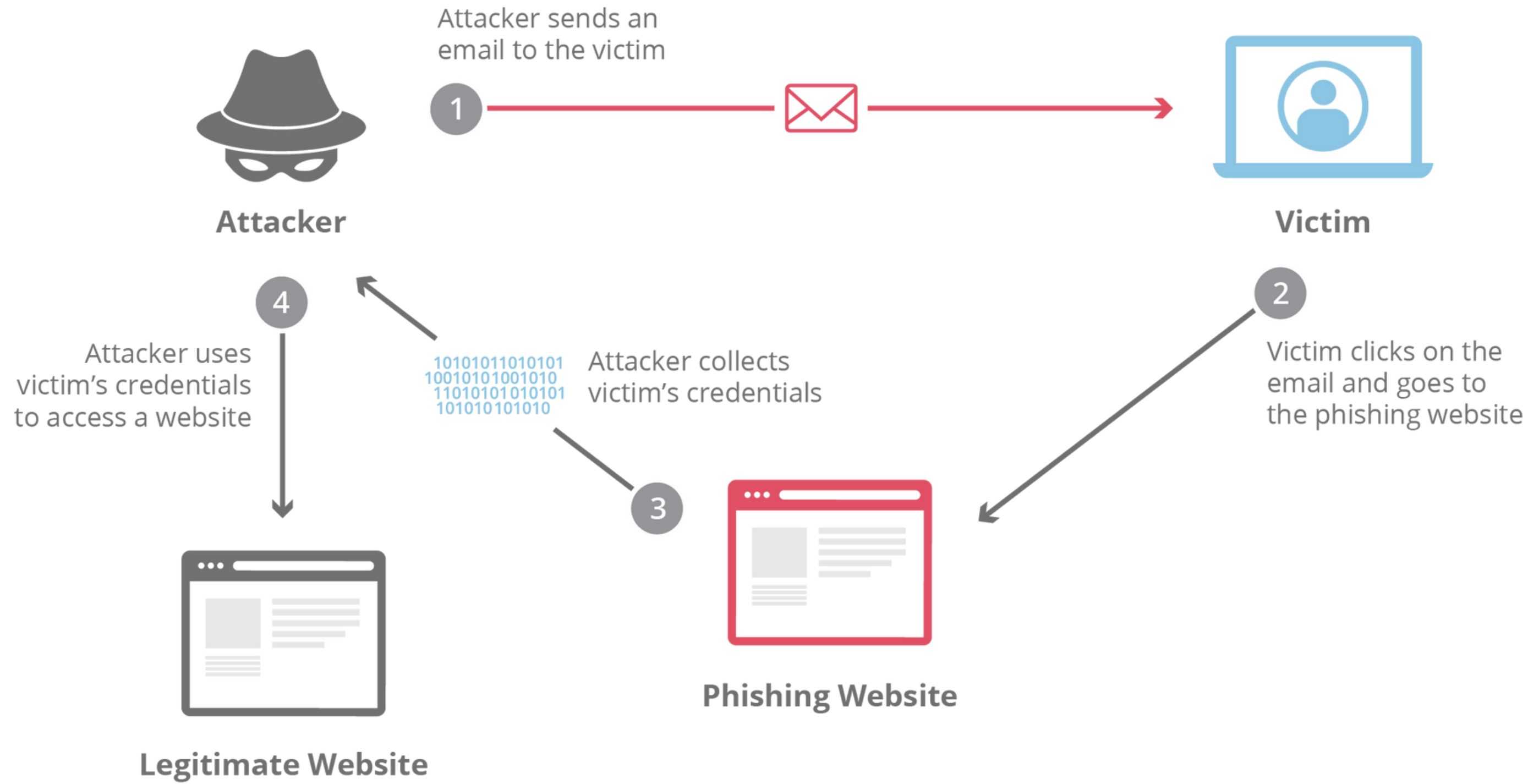


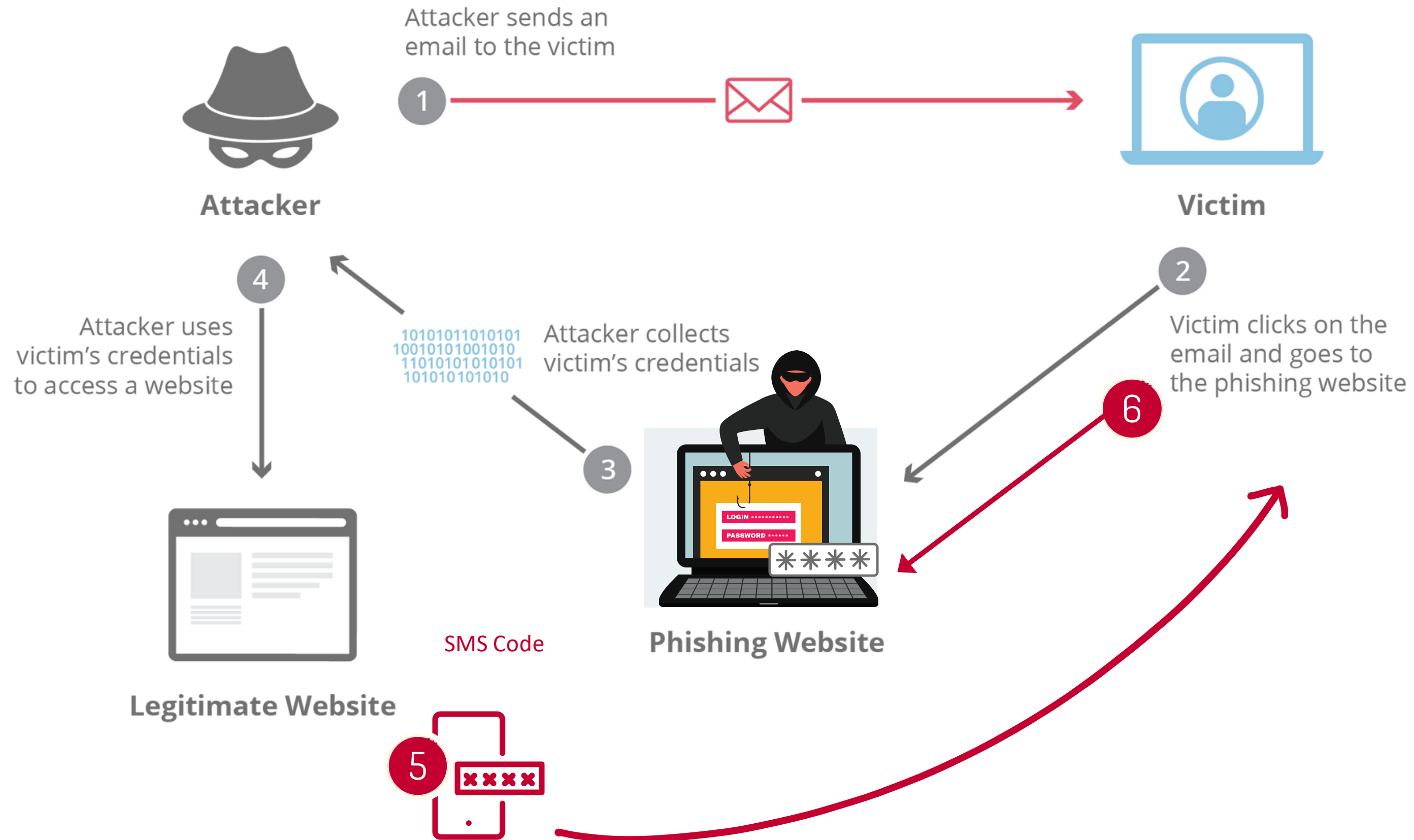
Level of Assurance



# Phishing Attacks are Easier than you think!



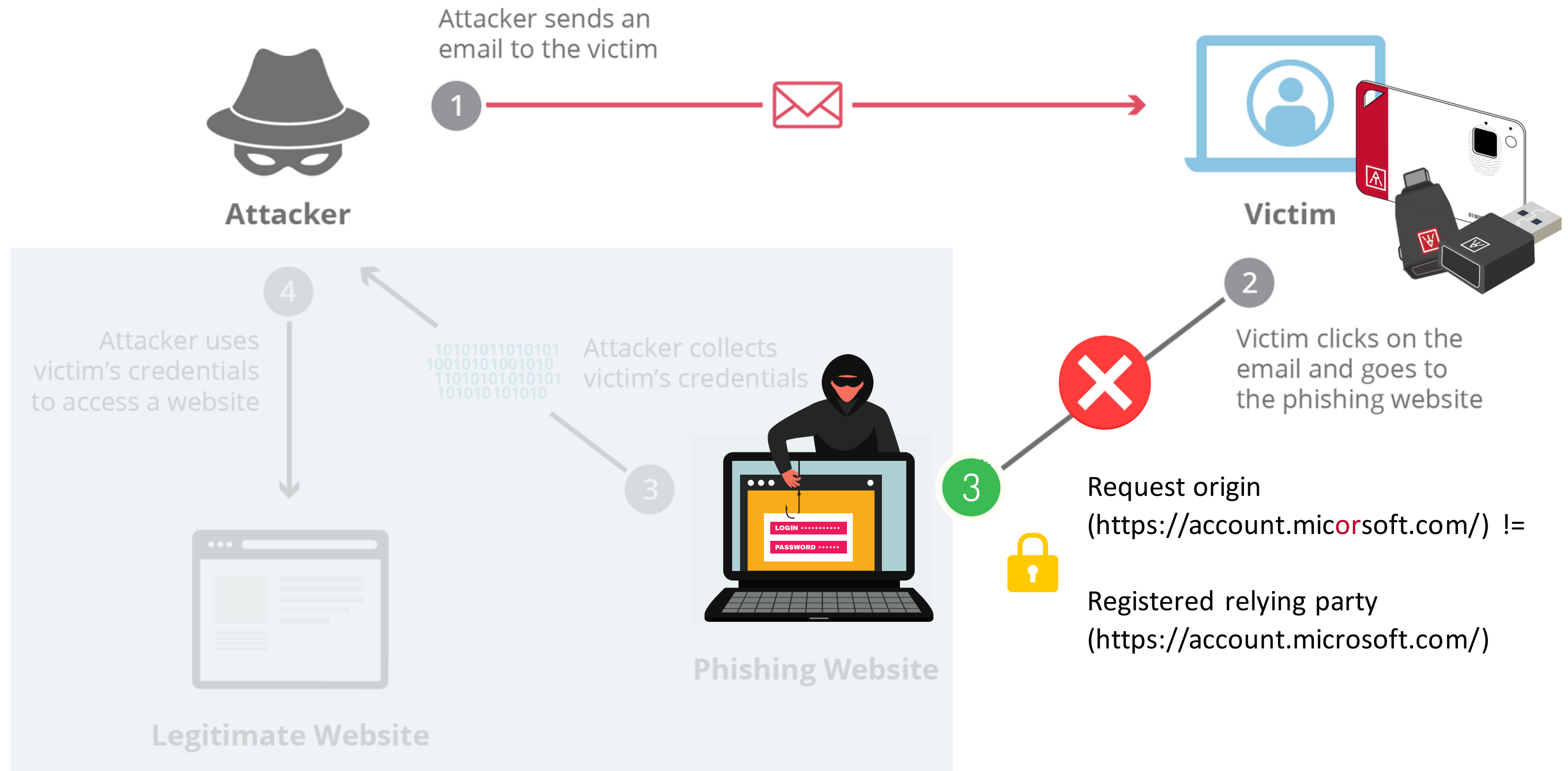


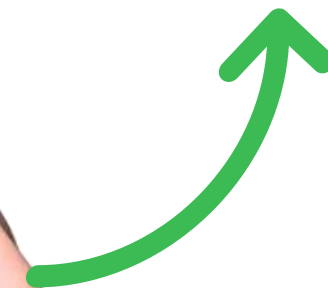
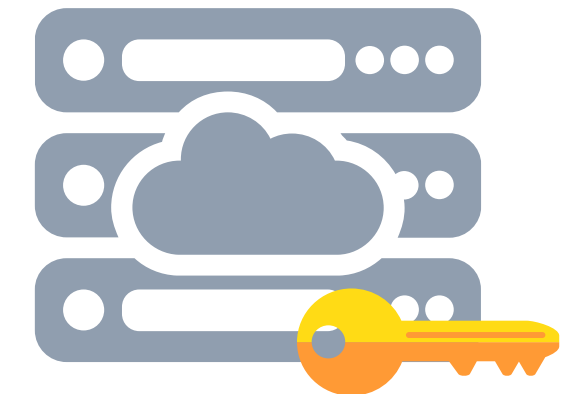
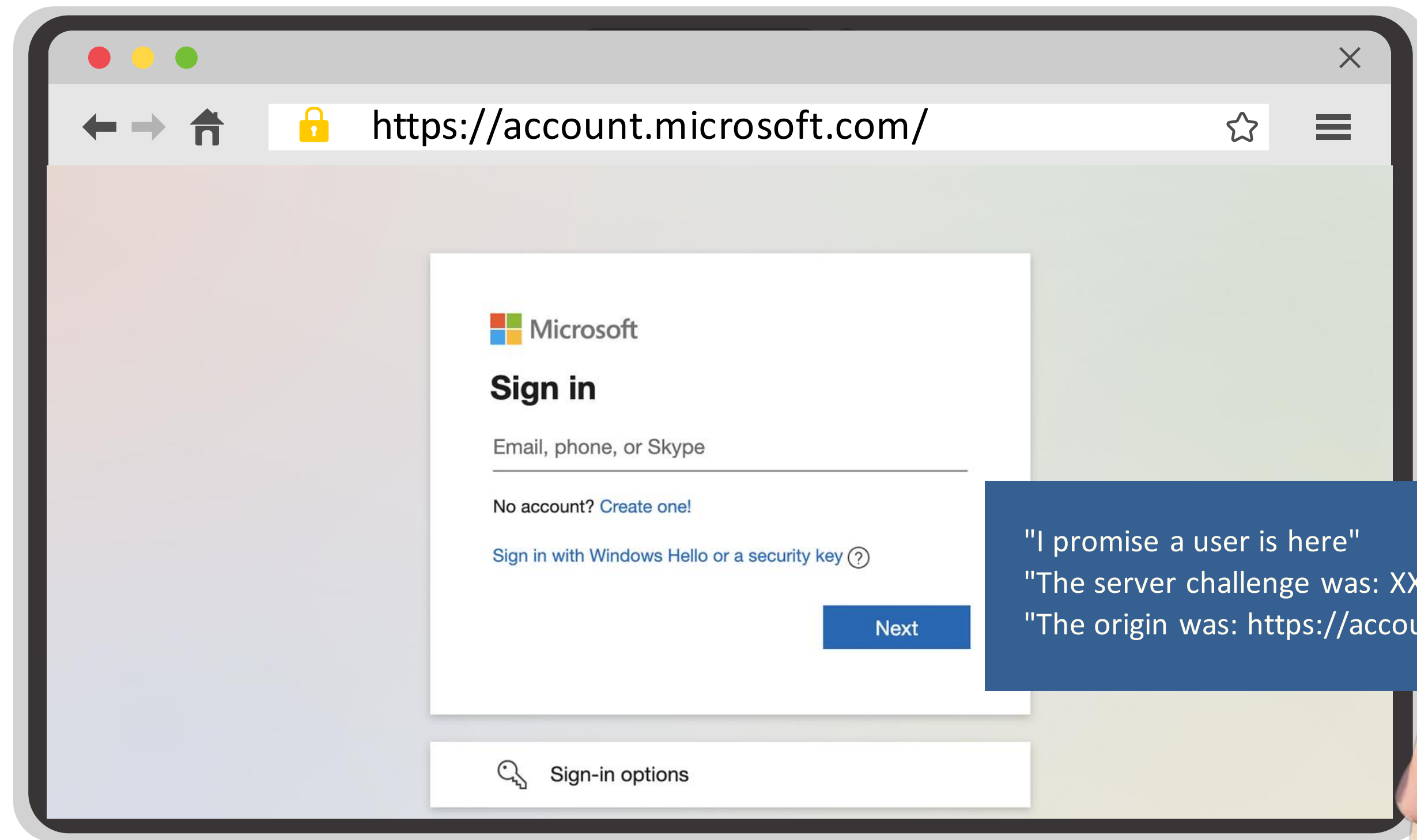






# How Security Key Prevents Phishing Attacks





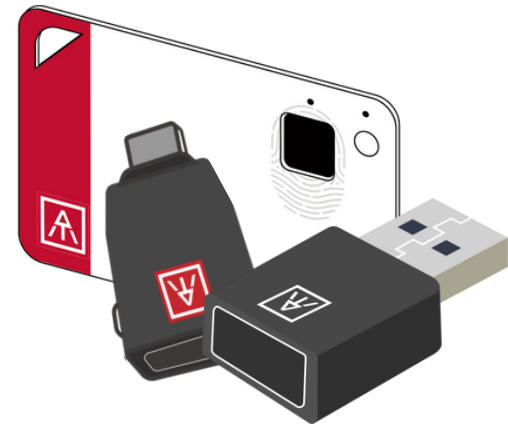
"I promise a user is here"  
"The server challenge was: XXXXXX"  
"The origin was: https://account.microsoft.com"



# Why Biometric?

- Striking a Balance between Security and Convenience

Fingerprint-enable  
Security Key



PIN + Touch



< 1s

Time to Authenticate

> 3s (Depends on PIN length)

Using just a fingerprint match

FIDO2 Experience

Requiring PIN + Touch

**Passwordless!**

No one can guess the fingerprint

The enrolled fingerprint template is stored and biometrically matched in a specialized secure element to protect it from digital and physical attacks.

Security Consideration

**PIN is still guessable!**

- Most popular PINs in 2020\*: 1234, 0000 and 2580
- It's risky to type the PIN on an unknown device.
- Easily profiled when entering PIN codes in public places.

\*1: Philipp Markert, Daniel V. Bailey, Maximilian Golla, Markus Dürmuth, Adam J. Aviv: This PIN can be easily guessed, IEEE Symposium on Security and Privacy (SP '20), San Francisco, USA, 2020

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**AuthenTrend applied fingerprint-authentication technology to the FIDO2 security key and aspires to replace all passwords with biometrics to help people take back ownership of their credentials.**

**– Alex Simons**, Corporate Vice President of Identity Program Management,  
Microsoft Identity Division



# Data breaches and bulk credential theft are your user's biggest risk

**37 Billion**

Compromised records in 2020. Nearly a 400% increase from 2019.

**81%**

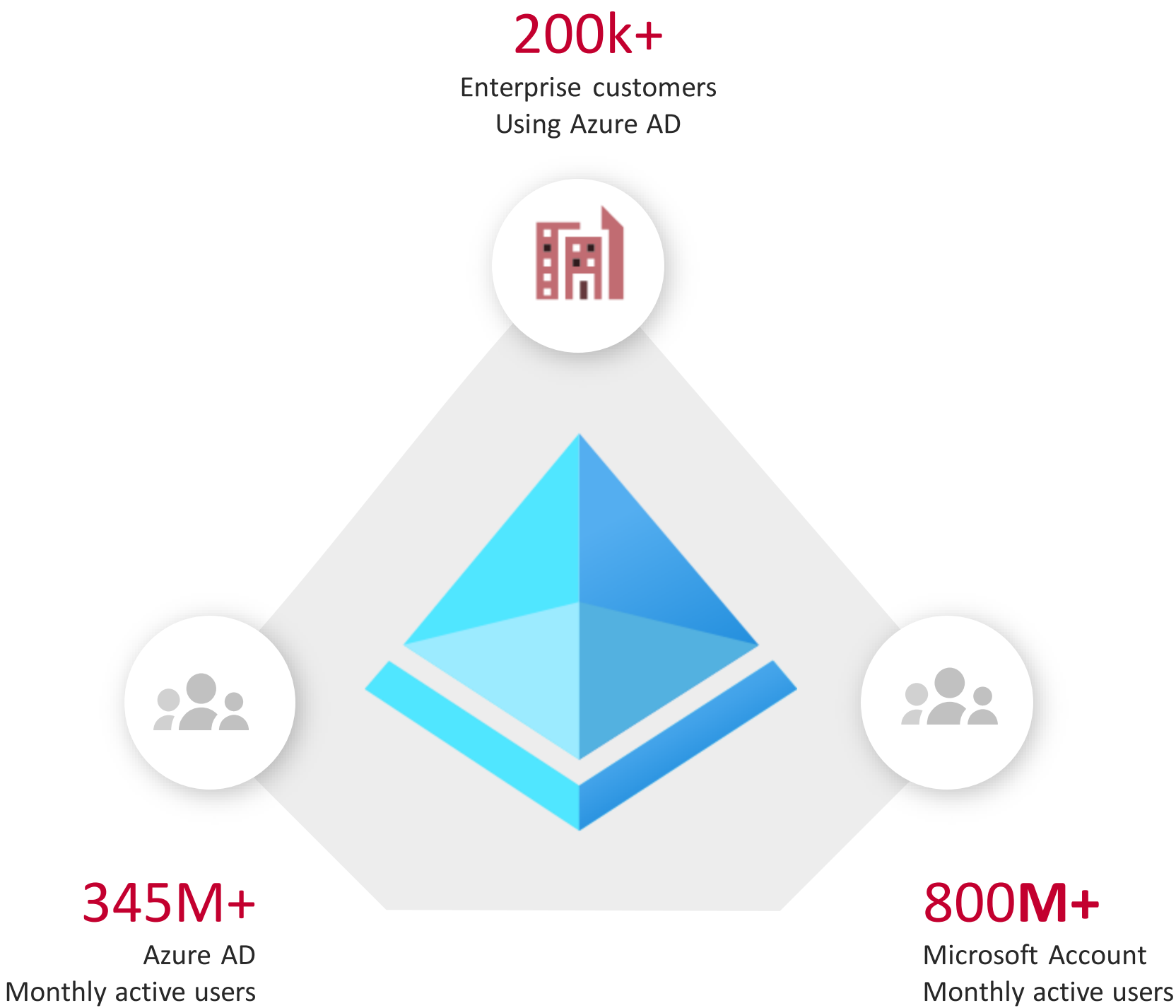
Of data breaches are caused by compromised, weak, and reused passwords.

**\$70**

The average cost per user of a single password reset.

# Identity is the control plane

The center of digital transformation for modern organizations with thousands of organizations and billions of monthly active users



## Temporary Access Pass (TAP)

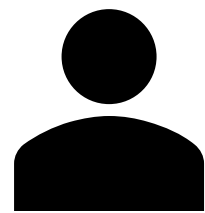
Time limited passcode that satisfies strong authentication requirements and can be used to onboard other authentication methods, including FIDO2.

### Key Components:

- Integrated in the credential's framework for easy testing and rollout.
- Tailor TAP into your organization's onboarding and recovery process using API's.
- End user can register new credentials and gain temporary access.

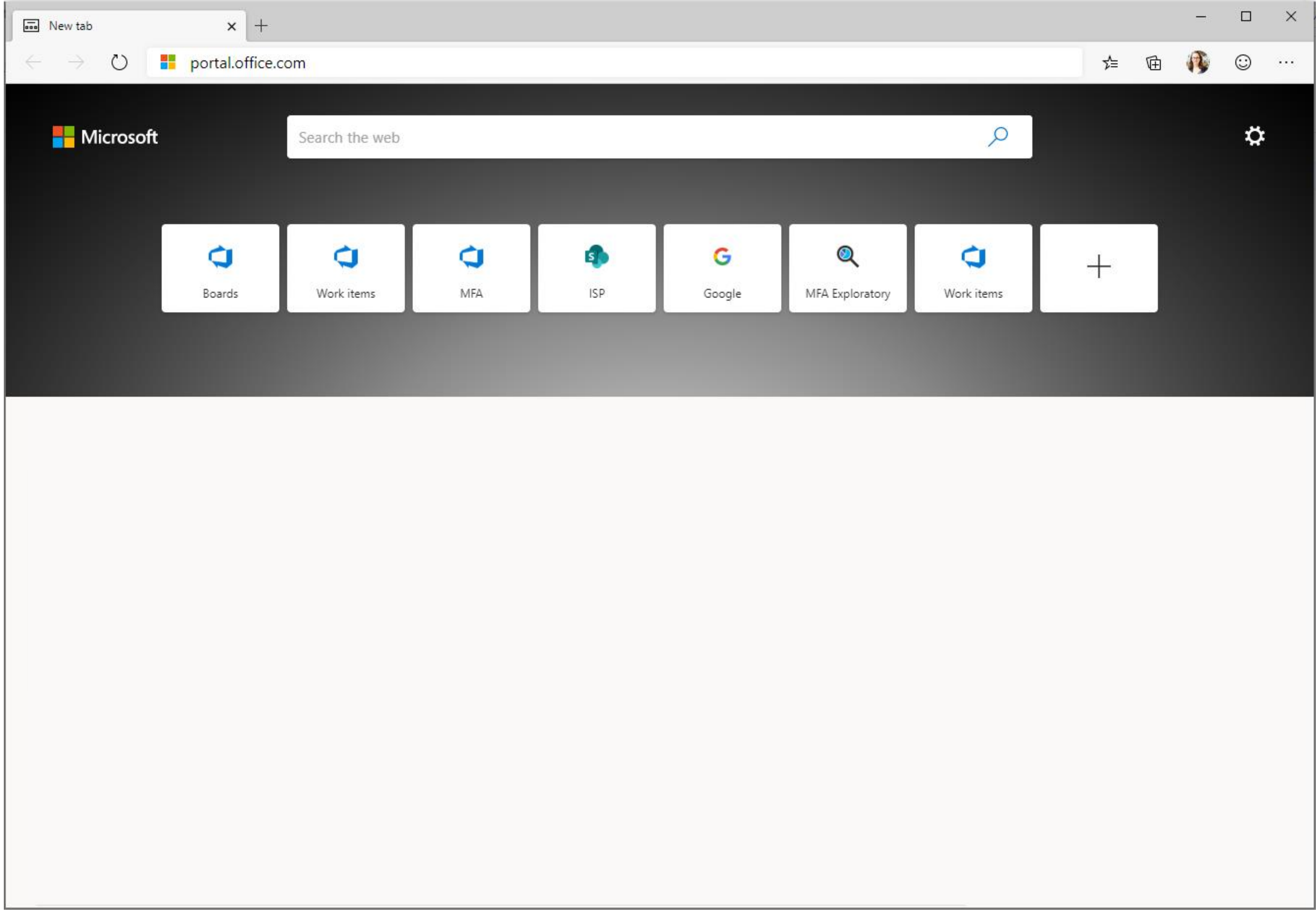
# User receives the Access Pass

User goes through identity verification process (varies by org) and receives the pass from an admin / manager / app



Welcome! Please go to <https://aka.ms/mysecurityinfo> and use Access Pass 2J#FG!pP







## Sign in

Email, phone, or Skype

---

No account? [Create one!](#)

[Can't access your account?](#)

[Sign-in options](#)

Next





## Sign in

alanh@contoso.com

No account? [Create one!](#)

[Can't access your account?](#)

[Sign-in options](#)

Next





← alanh@contoso.com

## Enter temporary access pass

Passcode

☐ Show passcode

Sign in

[Sign in another way](#)





← alanh@contoso.com

Enter temporary access pass

••••••••

☐ Show passcode

Sign in

[Sign in another way](#)





← alanh@contoso.com

## Enter temporary access pass

2J#FG!pP



Show passcode

Sign in

[Sign in another way](#)





← alanh@contoso.com

## Enter temporary access pass

2J#FG!pP

☒ Show passcode

Sign in

[Sign in another way](#)





← alanh@contoso.com

## More information required

Your organization needs more information to keep your account secure.

[Use a different method](#)

[Learn more](#)

Next



## Keep your account secure


Your organization requires you to set up the following method of proving who you are.

### Security key

Have your security key ready.

When you choose **Next**, you will be prompted to plug your security key into the USB port on your computer.

Then, touch the button on your security key to finish setting up the device.

NextBack

[Choose a different method](#)

## Keep your account secure

Your organization requires you to set up the following method of proving who you are.

### Security key

We are redirecting you to a new window to finish setup.

[Back](#)[Choose a different method](#)



Windows Security



## Making sure it's you

Web site login.microsoft.com wants to create a credential for  
alanh@contoso.com

Please enter your security key PIN.



[Change PIN](#)

OK

Cancel



Windows Security



## Making sure it's you

Web site login.microsoft.com wants to create a credential for  
alanh@contoso.com

Please enter your security key PIN.



[Change PIN](#)

OK

Cancel



Windows Security



## Making sure it's you

Web site login.microsoft.com wants to create a credential for  
alanh@contoso.com



Take action on your security key.

Cancel



## Keep your account secure

Your organization requires you to set up the following method of proving who you are.

### Security key

Name your security key. This will help to differentiate it from other keys.

Enter name

Next

Back

Choose a different method

## Keep your account secure

Your organization requires you to set up the following method of proving who you are.

### Security key

Name your security key. This will help to differentiate it from other keys.

Alan's Security key

Next

Back

Choose a different method

## Keep your account secure

Your organization requires you to set up the following method of proving who you are.






### Security key

 You're all set!

You can use your security key instead of username and password the next time you sign-in.

Be sure to follow your security key manufacturer guidance to perform any additional setup tasks such as registering your fingerprint.

  
[Done](#)[Back](#)[Choose a different method](#)

 Overview Security info Devices Recent activity Passwords Organizations Privacy Installs Subscriptions Settings Your Security key has been added.

## Security info

These are the methods you can use to sign in to your account or reset your password. Your admin may not allow you to change or delete a method.

**Default sign-in method:** Security key [Change](#)

[+ Add method](#)



Security key

Alan's Security key



Lost your device? [?](#)

Good afternoon

Start new

Outlook

OneDrive

Word

Excel

PowerPoint

OneNote

SharePoint

Teams

Yammer

Admin

All apps

Recommended

Tyler Lenig shared this with you  
Jul 16

Design for D365 Connection  
Graph opt out toggle

D365 Connection Graph user opt out...  
microsoft-my.sharepoint-...

Tyler Lenig edited this  
Tue at 11:09 AM

Giving end users control overtheir WKW  
data

1 Team Information

Role	Admin
Program Manager(s)	Tyler Lenig
Developer(s)	
Team	Microsoft Dynamics 365
Area	CRM
Sign-off	

2 Executive Summary

Recently we released a feature in CRM with the Dynamics 365 user interface that allows Dynamics 365 users to discover who at their office they are most likely to provide a customer's first connection to a

Giving users control over their WKW ...  
microsoft-my.sharepoint-...

MSW Publishing  
3h ago

Focus on enterprise customer needs i...  
MSW

Dana Wikan (Synaxis Corporation) ...  
Wed at 1:46 PM

Microsoft Graph  
Illustration proposal  
5.3.19  
Sandra Dellon, Designer

5.20\_Graph Icon Execution  
microsoft-my.sharepoint...

Recent Pinned Shared with me Discover

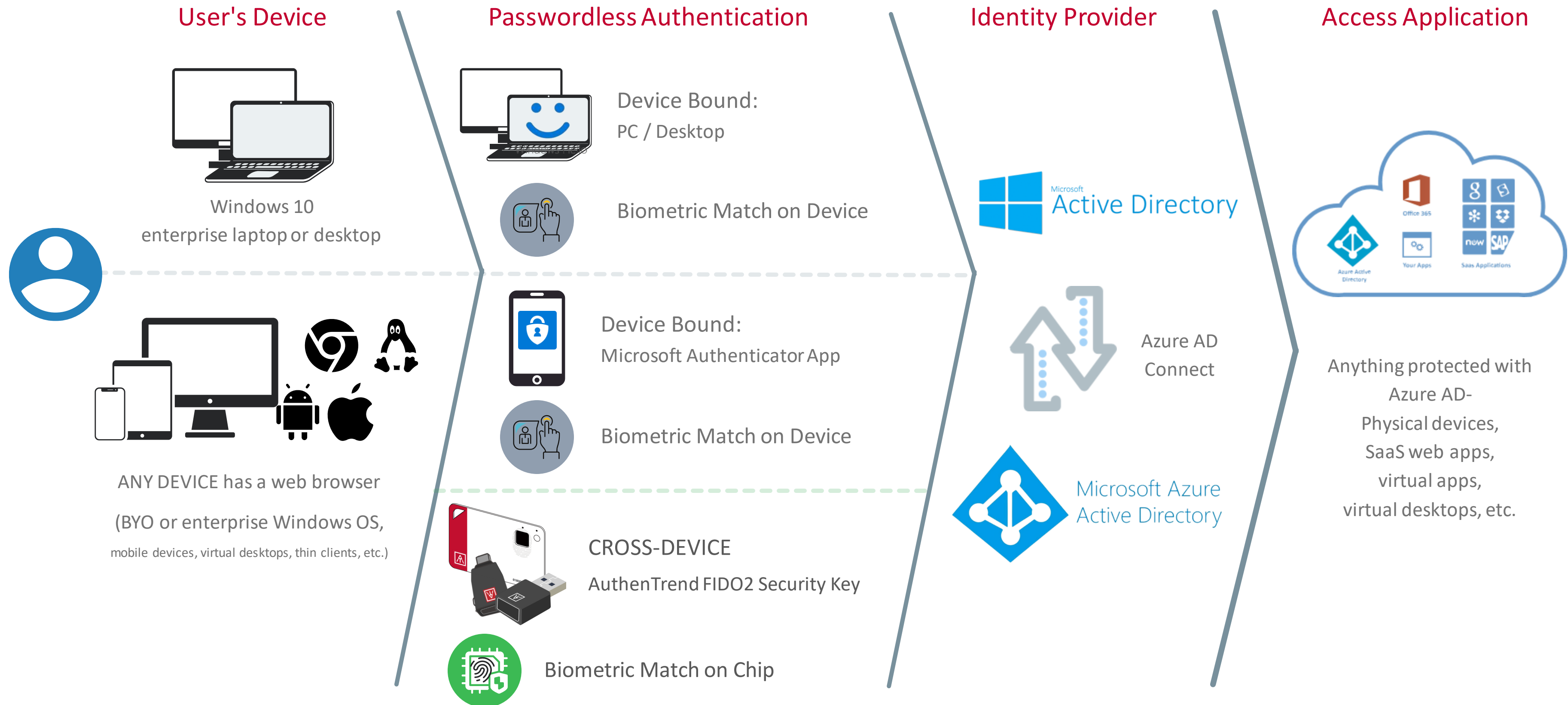
Upload and open...

Design for D365 Connection  
Graph opt out toggle

Design for D365 Connection  
Graph opt out toggle



# Passwordless+Biometric MFA Options on Azure



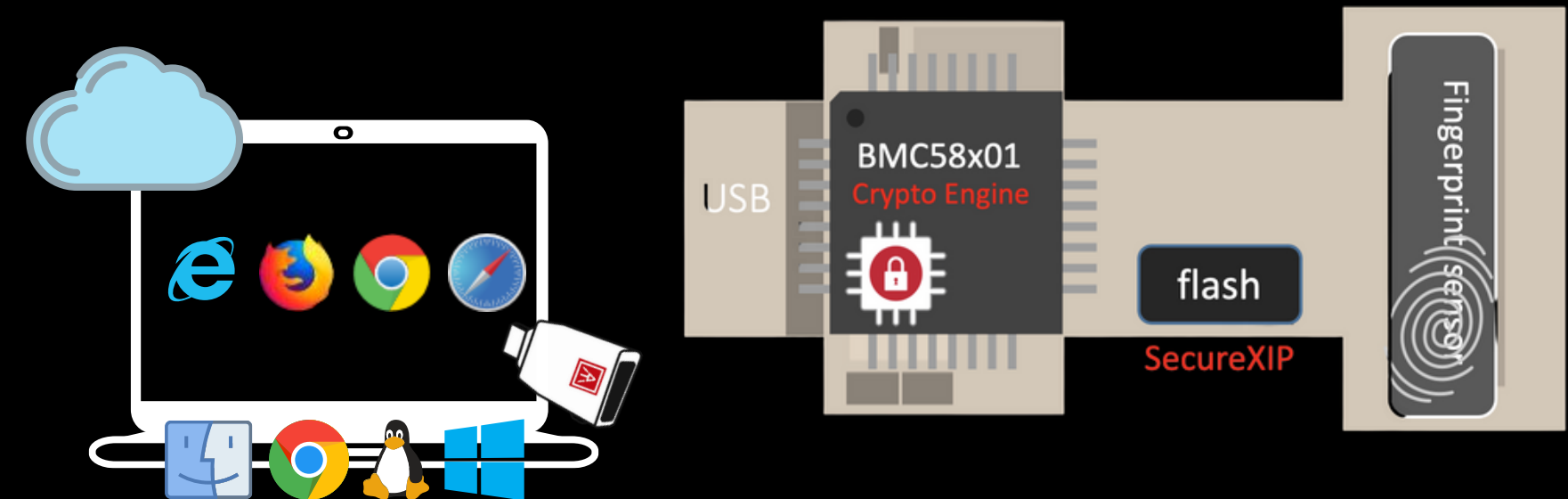




## Product Briefing | ATKey.Pro



A **FIDO2-certified**, side-mounted fingerprint security key that enables passwordless authentication in less than a second from any angle.



15.0 x 26.5 x 8.3mm  
Weight: 3.3g



Type A

17.7 x 31.6 x 8.7mm  
Weight: 3.7g



Type C



- Fingerprint Enabled USB Dongle for U2F and FIDO2
- USB HID Device
- Broadcom Secure SoC (FIPS 140-2 Level3 certificate) with SecureBoot & SecureXIP enabled
- Up to 10 Fingerprints, matching < 1 sec
- Bonus: Hardware base password manager Bio-Safe™



## Product Briefing | ATKey.Card

RSA  
READY

Member of  
Microsoft Intelligent  
Security Association  
Microsoft

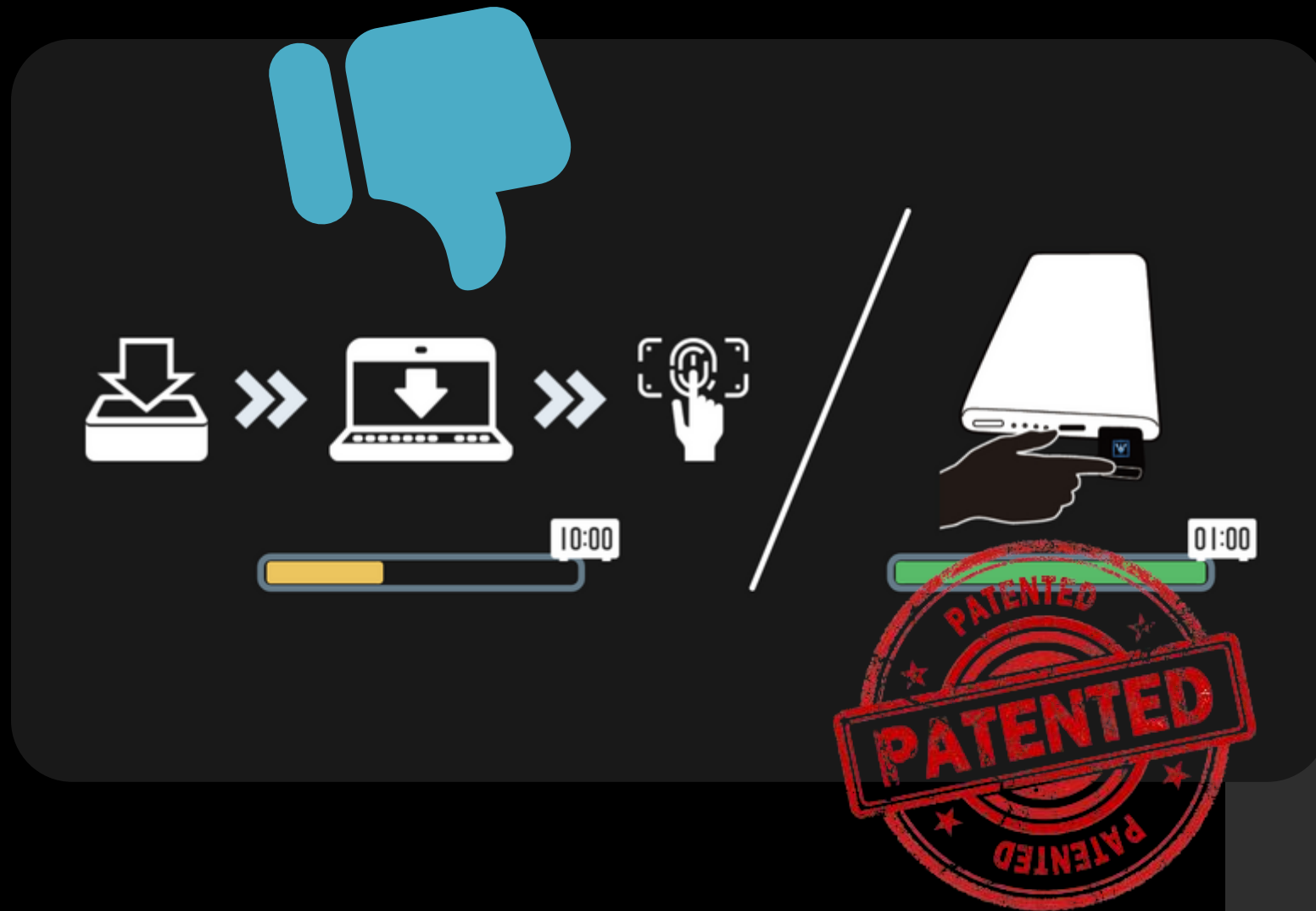
fido  
CERTIFIED

FIDO2

 **KEY**.Card

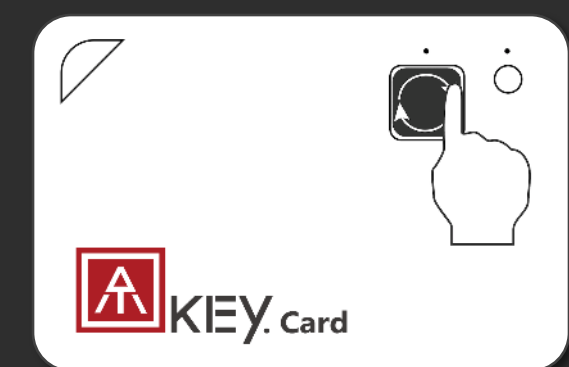
Smart badge type security card can communicate with the host through **USB/BLE/NFC** interfaces, including FIDO2, and FIDO U2F.

- USB HID + BLE (Bt4.2) + NFC (Mifair typeA); no driver needs
- Portable key for any Windows, Mac or Chromebook
- Portable key for Android (NFC/BLE) and iOS (BLE)
- EAL 6+ Infineon SE/NFC (SLE78)
- Up to 8x fingerprints, matching < 1 sec., FAR < 1/50,000, FRR < 2 %
- Built-in 90mAh Li-on battery, allow more than 150 times fingerprint authentications after battery full charge



## Standalone Enrollment

Enroll your fingerprints to ATKey directly!



## Three Steps to Work!

1. Enroll your fingerprints to ATKey
2. Register ATKey under Azure AD account
3. Fingerprint matching for authentication





Link: <https://youtu.be/NnNgXbrf7vA>





## Key benefits



### Enhanced security around identity

Embrace the power of biometric data + multifactor authentication.



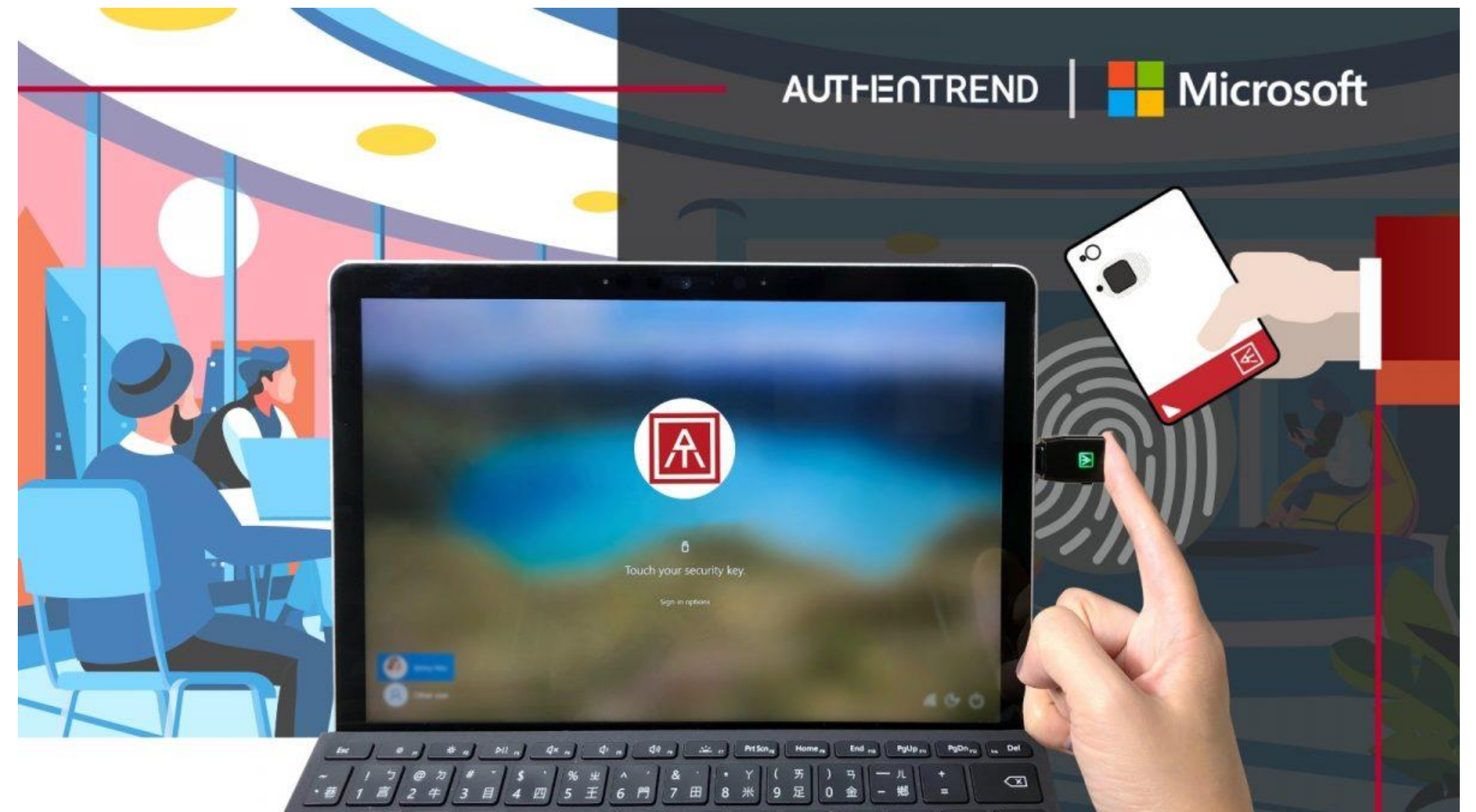
### Decrease IT expenses

Cut IT expenses and protect against costly data breaches.

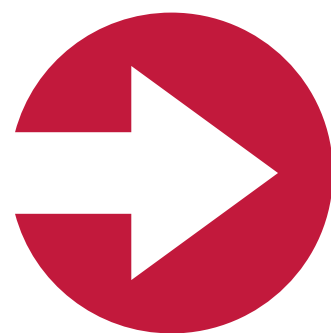


### Empower remote employees

Enable employees to securely work from anywhere.







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# Go Passwordless – Pilot Program

ATKey.Pro and ATKey.Card with Azure Active Directory



## Successful Implementation Story

### Challenge Josai University



**Hidden Cost of Manual Administration**, accounts hacked and time waste.

**Increases in Chronic Absence**, signed in the roll call for another student who missed class.

### Solution

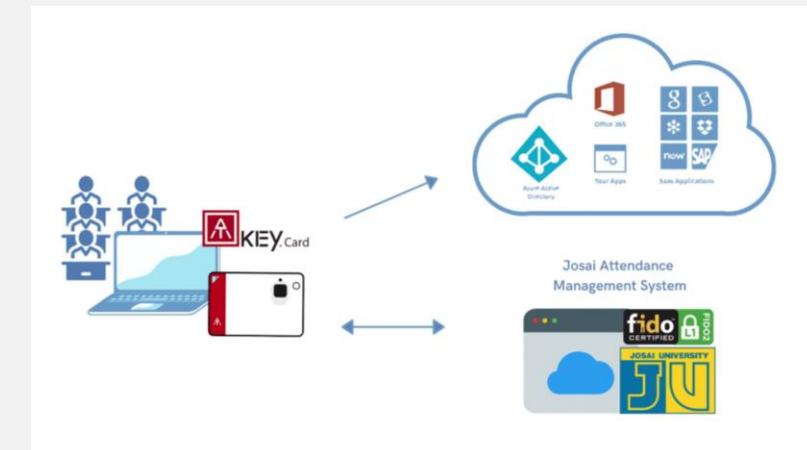


#### **ATKey.Card as student ID.**

Sign in securely by using ATKey.Card with Azure AD.

**Sign in using biometric.** System will record the attendance automatically.

### Result



**Zero account takeovers**

**Eliminate the hassle of password reset**

**Easily monitor the attendees during the pandemic era.**



# ○ Sign in courses and your PC

— simply with AKey.Card and Azure AD

# AUTHTREND

## Quotations from Solution Providers for ATKey with AAD

### “ Belgium, Luxembourg, France, and the Netherlands

While checking the market for FIDO2 keys, ATKey.Card quickly drew OSCC's attention. The incredible ease with which the device can enroll fingerprints and can be made operational is a huge asset. The ATKey.Card provides a serious increase in security while making the logistics of the rollout as easy as possible.

– Kim Oppalfens, CEO, OSCC  
[kim.oppalfens@oscc.be](mailto:kim.oppalfens@oscc.be)

### “ Hungary

ATKey.Pro and ATKey.Card are fast and incredibly reliable in authentication, which capacitates the solution to be integrated with all kinds of secured daily work. These fantastically easy-to-use and professional solutions offer new opportunities to various organizations, whether from segment SOHO, Enterprise or even from the Public Sector.

– Laszlo Nemeth, Networking and Security BU Leader, HRP Europe  
[lnemeth@hrp.hu](mailto:lnemeth@hrp.hu)

### “ Japan

We are proud to announce that Josai University's diploma policy and my experience at W3C/WebAuthn have been integrated into the implementation of world-first FIDO2 server for academia. The server should be able to lead our students one step higher active learning classes. A pilot university ID using ATKey.Card is making seamless FIDO2 login from Windows to Josai Attendance Management System(JAMS).

– Sugimoto Osamu, Professor, Josai University

### “ Australia

Over the last two years we have been searching far and wide for a FIDO2 key that provides seamless enrolment along with high standards of biometric security. This long-awaited key has finally arrived with the ATKey.Pro and is perfectly timed with the release of Microsoft's Temporary Access Password (TAP). We are now rapidly approaching a situation where the possibilities of true Passwordless are becoming a reality.

– Callum Golding, Director, CSP  
[callum.golding@cspa.com.au](mailto:callum.golding@cspa.com.au)

### “ The United Kingdom

As a security-minded MSP, we're really excited to be working with AuthenTrend to make "passwordless" a reality. Our customers can utilise their existing Windows 10, Microsoft 365 & Azure AD Premium investments to implement passwordless without any additional third party software. We can provide users with a choice of the ATKey.Pro (USB dongle) or ATKey.Card (credit card sized), to allow them to pick the right form factor to suit them.

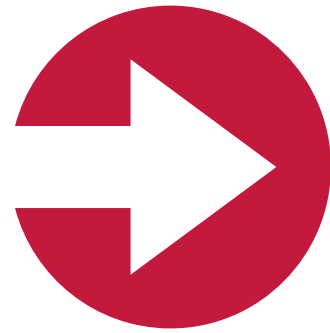
– Harry Boyne, Co-Founder, Chalkline  
[harry@chalkline.tech](mailto:harry@chalkline.tech)

### “ Italy

Using ATKey.Pro means significantly increasing the security level because it is like putting your passwords in a virtual 'safe.' I would like to express my gratitude to AuthenTrend for the fruitful collaboration and for sharing their professional expertise.

– Tiziano Tresanti, CEO and Funding Partner, Airpim



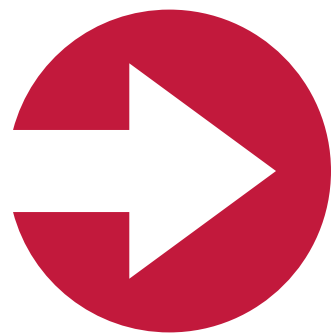


## Next Steps

Learn more about AuthenTrend and Azure AD ([bit.ly/MSFTGA](https://bit.ly/MSFTGA))

Download AuthenTrend solution guides.

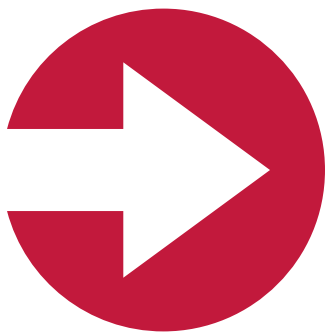
Sign up the Passwordless Pilot Program to build a Passwordless, Worry-Free IT Ecosystem



## Future Engagement

Athena.Chiang@AuthenTrend.com

Contact@AuthenTrend.com





## Thanks! Please Submit the Survey

[https://aka.ms/Survey\\_7/7\\_ProtectingtheModernWorkplace](https://aka.ms/Survey_7/7_ProtectingtheModernWorkplace)



# Thank you.

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 [contact@authentrend.com](mailto:contact@authentrend.com)

