# YubiKeys for Entra ID passwordless user enablement guide

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### Version History

Version	Date	Changes
2.3	May 20, 2025	<ul> <li>Updated with passkey terminology</li> <li>Added instructions for the Yubico Authenticator App</li> <li>Added instructions for the ykman CLI</li> </ul>
2.2	May 8th, 2023	<ul> <li>Edits and Revisions to User Guide</li> </ul>
2.1	July 29, 2021	Minor revisions
2.0	March 2, 2021	<ul> <li>Updated for general availability</li> </ul>
1.0	October 6, 2020	Added YubiKey Lifecycle Management Section
0.5	September 22, 2020	Initial Release

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### Introduction

This guide walks you through registering your YubiKey and signing in with a passkey, a secure, passwordless way to access your work account.

### **Objectives**

- Biometric enrollment:
  - Enroll fingerprints for authentication using biometrics (optional):
    - Using Windows Hello on a Windows 10 or 11 device
    - Using the Yubico Authenticator App
- Registration:
  - Sign-in with a Temporary Access Pass (TAP)
  - Register a passkey (FIDO2) on a YubiKey using self-service registration bootstrapped with a TAP
- Authentication:
  - Sign-in to a web application using a passkey (FIDO2) on a YubiKey
  - Sign-in to a Windows 10 or 11 device with a passkey (FIDO2) on a YubiKey
- Lifecycle management:
  - Change the PIN on a YubiKey
  - Reset a YubiKey
  - Delete a YubiKey from an Entra account

### Before you begin

- You will need a supported YubiKey approved for use by your organization.
- Internet connectivity is required the first time you sign in with your YubiKey.
  - For device sign-in:
    - Windows 10 or 11, cached credentials allow you to sign in offline after the initial sign-in.
    - If you have multiple passkeys registered on a single YubiKey, Windows will automatically select the most recently registered passkey. This is a Microsoft Windows limitation.
- If you're signing in to a Windows 10 or 11 device with your YubiKey, the device must be Entra joined to Entra hybrid joined. This does not apply to web-based sign-in.
- There is a limit of ten security keys per user. If your account already has ten security keys one will have to be removed to register a new YubiKey.

# YubiKey Bio Series Setup (if applicable)

The YubiKey Bio Series (FIDO Edition and Multi-Protocol Edition) requires fingerprint enrollment to enable biometric authentication without the need for a PIN during sign-in. However, a PIN is required during setup and serves as a fallback if fingerprint matching fails. After three unsuccessful fingerprint attempts, the YubiKey will prompt you to enter the PIN.

These instructions demonstrate how to enroll fingerprints on the YubiKey Bio using the native Windows Hello utility and using the Yubico Authenticator App.

### Using Windows Hello on Windows 10 or 11 to enroll fingerprints

- 1. Insert your YubiKey Bio
- Click on Start > Settings > Accounts

   a. Under Account Settings, select Sign-in options

Settings     Demo User     DemoUser@dem0tenant.on	Accounts	
Find a setting	DEMO USER DemoUser@dem0tenant.onmicrosoft.com Administrator	
<ul> <li>8 Bluetooth &amp; devices</li> <li>Network &amp; internet</li> </ul>	8= Your info Profile photo	>
Personalization     Apps	Email & accounts Accounts used by email, calendar, and contacts	>
<ul> <li>Accounts</li> <li>Time &amp; language</li> </ul>	Sign-in options Windows Hello, security key, password, dynamic lock	>

3. Select Security key, in the Sign in to apps with a physical security menu, click Manage

← Settings		
Demo User DemoUser@dem0tenant.on	Accounts > Sign-in options Ways to sign in	
Find a setting Q	Facial recognition (Windows Hello)     Sign in with your camera (Recommended)	~
Bluetooth & devices	Fingerprint recognition (Windows Hello)     This option is currently unavailable	~
Personalization	PIN (Windows Hello)       Sign in with a PIN (Recommended)	~
Apps	Security key Sign in with a physical security key	^
<ul> <li>Time &amp; language</li> <li>Gaming</li> </ul>	Sign in to apps with a physical security key Manage	

4. Touch the YubiKey when prompted



5. Under Security Key PIN, click Add

Windows Hello setup X
🖟 Security Key Fingerprint
Personalize your security key
Set up
Security Key PIN
Creating a PIN for your security key helps keep
you secure
Add
C Reset Security Key
Remove everything from this security key and reset to factory settings
Reset
Close

6. Create a PIN, confirm it and click Ok

Windows Hello setup	×
Set up a security ke	y PIN ক
ОК	Cancel

7. Under Security Key Fingerprint, Click Set up



8. Enter your PIN and click Ok



9. Touch your YubiKey Bio to begin the fingerprint enrollment process



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- 10. Continue to touch the circular area within the silver ring with the fingerprint you are enrolling repeatedly until the fingerprint capture process is complete



11. We recommend that you **add an additional fingerprint**. You may add up to five fingerprints. Once complete, click **Done** 

Windows Hello setup X
All set! Use your fingerprint the next time you want to unlock your device.
Add another finger
Done

### Using the Yubico Authenticator App on Windows 10/11:

- 1. Insert the YubiKey into your Windows device
- 2. Launch the Yubico Authenticator App
- 3. Select Fingerprints > Set PIN

Yubico Authenticator					-	×
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YubiKey C Bio - Multi-protocol Ec S/N: 29475326 F/W: 5.6.6	Fingerprints	V	Setup	1		
	Get started with fingerprints			Add fingerprint A PIN is required		$\triangle$
☆ Home	Before it's possible to register fingerprints, a PIN need to be set.	ds	Mana	ge		
Fingerprints			123	Set PIN FIDO PIN protection	n	⚠
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#### 4. Create a New PIN, Confirm the PIN and click Save

Set	t PIN	
123	New PIN	0
	A PIN must be 6-8 characters long and may contain letters, numbers and special characters.	8/8
123	Confirm PIN	$\odot$
		8/8
	Cancel	Save

### 5. Select Add Fingerprint

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.0	YubiKey C Bio - Multi-protocol Ed	Fingerprints	FID02 PIV	Setup			
	S/N: 29475326 F/W: 5.6.6	Get started with fingerprints	S	Ô	Add fingerprint 0/5 fingerprints regi	stered	⚠
Ŵ	Add one or more	Add one or more (up to five) fingerprints	or more (up to five) fingerprints	Manage			_
ê	Fingerprints			123	Change PIN 8 attempts remainin	g	
• 0:	Passkeys						
<u>*</u> =	Certificates						

6. Touch the YubiKey to begin enrolling your fingerprint and follow the instructions



7. Provide a name for the fingerprint and click **Save**. Repeat this process and add an additional fingerprint.

Add fingerprint
Fingerprint captured successfully!
Name this fingerprint
Right Index
11/15
Cancel Save

8. Your fingerprint will be saved and you can now use it to sign-in once you have a passkey registered with Entra ID.

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ę	Passkeys						
<u>*</u> =	Certificates						

# Register a passkey (FIDO2) on your YubiKey

To register a YubiKey for passwordless sign-in, you'll need to first prove your identity using either:

- An existing multifactor authentication (MFA) method
- A Temporary Access Pass (TAP) provided by your administrator

#### What is a TAP?

A TAP is a one-time or time-limited code that allows you to register a security key without needing a password or existing MFA method. It is issued by your IT administrator and should be handled securely.

#### Important:

- A TAP can only be used within its valid time window.
- If you're using a one-time TAP, you must complete registration within 10 minutes of signing in.
- If your TAP expires or is deleted, it cannot be used again.

### Use a Temporary Access Pass to sign-in

- 1. Insert your YubiKey
- 2. Launch a browser and navigate to https://aka.ms/mysecurityinfo
- 3. Enter your email address and click Next

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4. Enter the TAP and click Sign in

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5. Successful authentication will sign you in to the Security Info portal

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	(i) To maintain access to your account, add a sign in metho	od.					×
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	These are the methods you use to sign into your a	account or reset your password.					
🖵 Devices	+ Add sign-in method						
🔍 Password	••• Password	Last updated: 8 months ago	Change				
Organizations	Temporary access pass	Expires 4/8/2025, 5:23:12 PM		Delete			
<ul> <li>Settings &amp; Privacy</li> <li>Recent activity</li> </ul>	Lost device? Sign out everywhere						
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# Register a passkey on your YubiKey

1. In the Security Info portal, click on the Add sign-in method

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<ul> <li>Overview</li> <li>Security info</li> <li>Devices</li> </ul>	Security info These are the methods you use to sign into	o your account or reset your password.					
Spassword	••• Password	Last updated: 8 months ago	Change				
Organizations	Temporary access pass	Expires 4/8/2025, 5:23:12 PM		Delete			
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### 2. Select the Security Key option

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A Overview	Security inf	Add a sign-in method ×			
𝒫 Security info	These are the method	Passkey in Microsoft Authenticator Sign in with your face, fingerprint, PIN			
Devices     Password	Password	Sign in using a USB, Bluetooth, or NFC device			1
<ul> <li>Organizations</li> </ul>	Lost device? Sign out e	Microsoft Authenticator     Approve sign-in requests or use one-time codes			
<ul> <li>Settings &amp; Privacy</li> <li>Recent activity</li> </ul>		Hardware token           Sign in with a code from a hardware token			
		Phone           Get a call or text to sign in with a code			
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3. Select the **USB device** option. Alternatively, the NFC device option can also be selected when using a YubiKey that is NFC capable and you have a compatible NFC reader connected to your device.

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4. Click Next

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5. Click **Ok** to allow registration of your YubiKey

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		Image: Windows Security         Image: Security key setup         Set up your security key to sign in to         Ingin.microsoft.com as DemoUser@YubicoDemo.ca.         This request comes from the app "msedge.exe" by         "Microsoft Corporation".         Image: Cancel         Cancel         Cancel         Tem of ut	se Priv	acy & coc	kies	
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6. Click **Ok** to allow Entra ID to view the make and model of your YubiKey

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	Windows Security       ×         Continue setup       This will let login.microsoft.com see the make and model of your security key.         login.microsoft.com wants to create a credential on your security key. This lets you sign in without having to type your username.         Note: A record of your visit to this site will be kept on your security key.         OK       Cancel	use Privacy	St cookies	· · · · · · · · · · · · · · · · · · ·
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7. **Create a PIN** and **confirm it**, then click **Ok**. Note if you are using the YubiKey Bio and have a fingerprint enrolled, you will be prompted to touch your key instead of creating a PIN.

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8. **Touch** the YubiKey when prompted. You will be prompted twice.

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9. You will receive confirmation that the passkey has been saved. Click **Ok** to proceed.

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Windows Security         Windows Security         Passkey saved         Vou can now use your security key to sign in to         "login.microsoft.com".         OK         Cancel	Terms of use Privacy & cocokies
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10. Provide a friendly name for your YubiKey and click Next

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11. Click **Done** to complete the registration process.

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& Security info	Security info						
Security into	These are the method	e east usue passward					
Devices	+ Add sign-in meth You're all set!	×	<				
S Password	Password You can use your security key inst the next time you sign in.	ead of a username and password	ange				
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12. Successful registration will display your newly registered YubiKey as a **Passkey** 

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A Overview				
Security info	Security info			
	These are the methods you use to sign into your account or re	eset your password.		
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### Sign-in to a web application with your YubiKey

These instructions demonstrate how to sign-in to the Office 365 portal, however you can sign-in to any web application you have access to that is connected to Entra ID.

- 1. Launch a browser and navigate to https://portal.office.com
- 2. At the Sign in prompt select Sign-in options

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3. At the Sign-in options screen select the **Face**, **fingerprint**, **PIN or security key** option

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4. Enter your **PIN** and click **Ok.** Note if you are using a YubiKey Bio, you will be prompted to touch your key and provide your fingerprint.

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5. Touch your YubiKey to complete the authentication

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	Windows Security       Image: Comparison of Co	e Privacy & c	cookies	
	📑 Q. Search 🔛 🖬 🤬 🔤 😰 🐻 🕸		(1)) 2025-	04-08

6. You should now be signed in to Office 365

### Sign into Windows 10 or 11 with a YubiKey

These instructions demonstrate how to sign-in to your Windows PC with your registered YubiKey. Once successfully signed-in you should have single sign-on (SSO) access into your Entra applications.

- 1. Insert your YubiKey into your Windows device
- 2. From the Windows lock screen select your user account
- 3. Click on Sign-in options

	Demo User
	Sign-in options
V Demo User	
Cther user	ENG 🖵 🛣 🕚

4. Select the **security key icon**, enter your **PIN** and hit enter. If you are using a YubiKey Bio, you will be prompted to touch your YubiKey instead.

Y				
Demo User Security Key PIN →				
Sign-in options				
V     Demo User       Image: Comparison of the second secon	ENG	G.	Ť	Ċ

5. Touch your YubiKey when prompted



6. You will be successfully signed-in to the desktop



# YubiKey Lifecycle Management

This section outlines some additional considerations when managing YubiKeys, to include removal of YubiKeys from a user account, changing the PIN, or resetting the YubiKey. The end user has the option to use the following tools:

- 1) Windows 10/11 Windows Hello utility
- 2) macOS Google Chrome Security Key Settings
  - a) Supported on macOS 10.14 or later
  - b) Recommended version 85 or later
- 3) The <u>Yubico Authenticator App</u>
- 4) The YubiKey Manager CLI

# Change YubiKey PIN

Using Windows Hello

- 1. Insert the YubiKey into the device.
- 2. Sign-in to the Windows 10 or 11 machine.
- 3. Navigate to **Settings > Accounts > Sign-in options**.
- 4. Click Security Key. Once expanded, click Manage.

←	Settings		_	
	Demo DemoUser@YubicoDemo.ca	Acc	ounts > Sign-in options	
Find	l a setting Q	0 Ways to	Some of these settings are managed by your organization.	
	System Bluetooth & devices	: :	Facial recognition (Windows Hello) This option is currently unavailable	~
•	Network & internet	Ŵ	Fingerprint recognition (Windows Hello) This option is currently unavailable	~
	Apps	÷	PIN (Windows Hello) This option is currently unavailable	~
•	Accounts Time & language	Ô	Security key Sign in with a physical security key	^
•	Gaming		Sign in to apps with a physical security key Manage	1
•	Privacy & security	Þ	Password Sign in with your account's password	~
6	Windows Update		Picture password Swipe and tap your favorite photo to unlock your device	~

5. When prompted, touch the YubiKey



6. Under Security Key PIN select Change



7. In the **Change your security key PIN** window, provide the **current PIN**, the **new PIN**, and **confirm the new PIN**. Click **OK**.

Windows He	llo setup	Vindows Hello setup $ imes$					
Chang	je your security l	cey PIN					
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•	•••••						
	•••••		0				
			_				
_	OK	Cancel					
	UN	Cancer					

#### Using Google Chrome (macOS and Linux only)

- 1. Open Google Chrome.
- 2. Navigate to "chrome://settings/securityKeys" in address bar or use the menu as described below:
  - a. Menu ( i )  $\rightarrow$  Settings.
  - b. From the left menu, select "Privacy and security." Under the Privacy and security menu, click Security.

Î	Clear browsing data Clear history, cookies, cache, and more	÷
\$	Cookies and other site data Third-party cookies are blocked in Incognito mode	×
۲	Security Safe Browsing (protection from dangerous sites) and other security settings	•
뉁	Site Settings Controls what information sites can use and show (location, camera, pop-ups, and more)	×

- c. Under Advanced, click Manage security keys.
- 3. Click Create a PIN.
- 4. When prompted, insert the YubiKey and tap it.

Create a PIN		
To continue, insert and touch your security key		
	Cancel	Save

5. At the **Change a PIN** screen, enter in the current PIN, the new PIN, and confirm the new PIN. Once completed, click **Save**.

Change a PIN	
Enter your currer the security key,	It PIN to change it. If you don't know your PIN, you'll need to reset then create a new PIN.
Current PIN	
Enter your new P	IN. A PIN must be at least four characters long and can contain
PIN	Confirm PIN
	Cancel Save

6. If successful, Chrome will indicate the PIN was created.

### Using the Yubico Authenticator App

- 1. Insert the YubiKey
- 2. Launch Yubico Authenticator App
  - a. <u>Note</u>: On Windows 10 and 11, Yubico Authenticator will request to elevate to administrator privileges when performing passkey management functions.
- 3. Select Passkeys

🛃 Yubico Authenticator				-		×
=						÷
YubiKey 5 NFC	Home	Devic	e			
5/N: 2//88/91 F/W: 5./.1	YubiKey 5 NFC 🥒 🙄	**	Toggle application Enable/disable app	ons lication	IS	
A Home	Serial number: 27788791 Firmware version: 5.7.1	×	Factory reset Restore YubiKey de	faults		
2 Accounts	Yubico OTP PIV OATH	Appli	cation			
よ Passkeys	OpenPGP YubiHSM Auth FIDO U2F FIDO2	<b>1</b>	Settings Change application	prefere	ences	
≟= Certificates	v	?	Help and about Troubleshoot and s	upport		
🖁 Slots						

### 4. Select Change PIN

🛃 Yub	ico Authenticator			-		×
≡						÷
	YubiKey 5 NFC	Passkeys	FID02	Manage	_	
	S/N: 27788791 F/W: 5.7.1	Enter the FIDO2 PIN for your YubiKey		123 Change PIN 8 attempts remaining	1	
Ŵ	Home	123 PIN	0			
0.0	Accounts		🔒 Unlock			
₽° ₽	Passkeys					
<u>*</u> =	Certificates					
Ð	Slots					

5. Enter the Current PIN and then enter the New PIN and Confirm PIN and click Save

Ch	ange PIN
123	Current PIN (O)
	8/63
123	
	A PIN must be 4-63 characters long and may contain letters, numbers and special 8/63 characters.
123	
	8/63
	Cancel Save

6. The Yubico Authenticator App will display a  $\ensuremath{\text{PIN set}}$  confirmation

🛃 Yubi	ico Authenticator				-	-	×
=							:
+ •	YubiKey 5 NFC S/N: 27788791 F/W: 5.7.1	Passkeys	FID02	Mana	ge Change PIN		
		Q Search passkeys	:=	123	8 attempts remaining		
Ŵ	Home						
0.	Accounts	login.microsoft.com DemoUser@dem0tenant.onmicrosoft	t.com				
P	Passkeys	1 of 100 passkeys used. Non-passkey credentials n but can not be listed.	nay exist,				
<u>*</u> =	Certificates						
Ð	Slots						
		PIN set					

### Using YubiKey Manager CLI

- 1. Open a terminal
  - a. **Note:** On Windows 10 or 11, passkey management in YubiKey Manager CLI will need to be run as an administrator.
- 2. Navigate to the YubiKey Manager CLI installation path
- 3. Run the following command: *ykman fido access change-pin --pin 123456 --new-pin 654321* (modify the PIN values to your values)
- 4. Hit Enter

### Reset the YubiKey

#### **Using Windows Hello**

Microsoft Windows allows you to reset your security key if you have forgotten your PIN. There is no way to recover a forgotten PIN and a reset of the YubiKey will be required.

**Note:** If you reset your YubiKey, it will no longer be associated with your user account in Entra ID and will need to be re-registered. The corresponding registrations in Entra ID will not be automatically removed after resetting a YubiKey. Sign-in to My Security Info portal with each Entra account associated with the YubiKey to remove the registrations. Refer to the section below **Removing a YubiKey as a security method.** 

**Note:** Windows 10 versions below Spring 2020 (2004) are not able to reset FIDO2 security keys successfully. Use a different method.

- 1. Insert the YubiKey
- 2. Navigate to **Settings > Accounts > Sign-in options**.
- 3. Click Security Key. Once expanded, click Manage.
- 4. When prompted, touch the YubiKey
- 5. Under Reset Security Key, select Reset



6. Click **Proceed** to reset the Security Key.

Windows Helio setup Reset Security Key The security key will be reset to 1 credentials on this key will be cle	actory settings. All data and ared.
Proceed	Cancel

7. When prompted, unplug and reinsert the YubiKey

Windows Helio setup	
Reinsert your security key. Learn more	$\sum$
	Cancel

8. When prompted, Touch the YubiKey twice within 10 seconds



9. Upon a successful reset, click Done

Windows Hello setup	×
	Done

#### Using Google Chrome (macOS and Linux only)

- 1. Open Google Chrome.
- 2. Navigate to "chrome://settings/securityKeys" in address bar or use the menu as described below:
  - a. Menu ( i )  $\rightarrow$  Settings.
  - b. From the left menu, select "Privacy and security." Under the Privacy and security menu, click Security.

Î	Clear browsing data Clear history, cookies, cache, and more	*
٩	Cookies and other site data Third-party cookies are blocked in Incognito mode	•
٢	Security Safe Browsing (protection from dangerous sites) and other security settings	•
뉁	Site Settings Controls what information sites can use and show (location, camera, pop-ups, and more)	*

- c. Under Advanced, click Manage security keys.
- 3. Click Reset your security key.
- 4. When prompted, remove the YubiKey from the device, reinsert the YubiKey and touch it.

Reset your security key	
To continue, remove your security key from your device, then reinser	rt and touch it
	Cancel

5. Touch the YubiKey again to confirm reset.



6. Chrome will display "Your security key has been reset" when completed.



### Using Yubico Authenticator

- 1. Insert the YubiKey
- 2. Launch the Yubico Authenticator App
  - a. **Note:** On Windows 10 and 11, Yubico Authenticator will request to elevate to administrator privileges when performing passkey management functions.
- 3. Select Factory Reset

🚯 Yubico Aut	henticator			- 0	>	<
=					:	
	Home		Device	3		
	YubiKey 5C NFC 🥒 😳		*	Toggle applications Enable/disable applications		
Â	Serial number: 28612650 Firmware version: 5.7.1		×	Factory reset Restore YubiKey defaults		
0	Yubico OTP PIV OATH OpenPGP		Applic	ation		
Ŷ		<b>B</b>	۲ <b>۹</b> ۲	Settings Change application preferences	3	
<u>*</u> =			?	Help and about Troubleshoot and support		
Ð		V				

### 4. Select FIDO2 and click Reset

Factory reset					
PIV € OATH ✓ FIDO2 E PIV					
Warning! This will irrevocably delete all U2F and FIDO2 accounts, including passkeys, from your YubiKey.					
Your credentials, as well as any PIN set, will be removed from this YubiKey. Make sure to disable these from their respective web sites to avoid being locked out of your accounts.					
	Cancel	Reset			

5. **Unplug** the YubiKey and **reinsert** it when prompted



6. Touch the YubiKey when prompted



#### 7. Click Close



### Using YubiKey Manager CLI

- 1. <u>Note</u>: On Windows 10/11, passkey management in YubiKey Manager CLI will need to be run as an administrator.
- 2. Launch a terminal
- 3. Navigate to the the path the YubiKey Manager CLI installation path
- 4. Run the following command: *ykman fido reset*
- 5. Hit Enter
- 6. Remove and reinsert the YubiKey when prompted
- 7. Touch the YubiKey when prompted

# Deleting a YubiKey from your Entra account

- 1. Navigate to https://aka.ms/mysecurityinfo
- 2. Under Security Info, click delete on the YubiKey you intend to remove

InPrivate 🔲 🎝 Home   N	Microsoft 365 Copilot 🛛 🗙 🚦 My Sign-Ins   S	Security Info   Microx +						
← C ( Δ https://mysignins.microsoft.com/security-info								
$H$ My Sign-Ins $\sim$								
R Overview	Security info These are the methods you use to sign in	nto your account or reset your password.						
	+ Add sign-in method							
S Password	••• Password	Last updated: 9 months ago	Change					
Organizations	Security key Security Key	My Primary YubiKey		Delete	~			
🔒 Settings & Privacy	Op Passkey	My Backup YubiKey		Delete	~			
Recent activity	Lost device? Sign out everywhere							

3. In the Delete security key prompt, Click Ok

InPrivate 🔲 🌗 Home	Microsoft 365 Copilot 🛛 🗙 🚦 My Sign-Ins   Si	ecurity Info   Micro × +		
← C 🗅 https://mysi	ignins.microsoft.com/security-info			
$H$ My Sign-Ins $\vee$				
옷 Overview 원 Security info	Security info These are the methods you use to sign in	to your account or reset your password.		
🖵 Devices	+ Add sign-in method			
🖓 Password	••• Password	Last updated: 9 months ago	Change	
Organizations	Security key Security Key	My Primary YubiKey	Delete	~
🔒 Settings & Privacy	<b>e</b> Passkey	Delete security key	te to delete this method for your account?	~
<ol> <li>Recent activity</li> </ol>	Lost device? Sign out everywhere		Ok Cancel	

4. The security key authentication method is no longer associated with the Entra ID account and can no longer be used to sign-in. If the YubiKey has not been reset, it cannot be used to sign-in to the account until it is registered again and associated with the account .