# YubiKeys for Entra ID passwordless lifecycle management

# yubico

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#### Version History

| Version | Date         | Changes         |
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# Introduction

Effective lifecycle management ensures that YubiKeys remain usable, secure, and accounted for throughout a user's time with the organization. This section outlines best practices and operational considerations for managing YubiKeys after initial deployment.

# Onboarding

Enterprises may adopt different registration and identity binding models when onboarding new users. YubiKeys support secure, phishing-resistant authentication through passkeys (FIDO2), and Entra ID provides multiple options for enabling users to register their YubiKeys during onboarding.

#### **Passkey Registration Methods**

Entra ID enforces an identity verification step during registration to prevent unauthorized credential creation.

#### **Self-Service Registration**

To complete passkey registration via self-service, users must first verify their identity. Entra ID supports the following verification methods:

• Microsoft Entra Multifactor Authentication (MFA)

Any enabled and registered MFA method can fulfill this requirement. This includes using the YubiKey 5 Series as an OATH-TOTP credential with the Yubico Authenticator App or using a PIV smart card credential on a YubiKey.

• Temporary Access Pass (TAP)

A time-limited, configurable passcode that can be used for one-time or multi-use sign-ins. TAP enables secure onboarding without ever requiring a password and satisfies the MFA requirement for passkey registration.

There are two modes for self-service registering passkeys (FIDO2) with YubiKeys

#### • Managed Mode (Self-Service Security Info Portal)

Users register their passkey by navigating to the Microsoft Entra Security Info portal, where they can add or remove authentication methods. This model supports phased rollouts and minimal IT intervention.

Refer to the **User Enablement Guide** for the setup and user experience for Managed Mode registration.

#### • Interrupt Mode (In-line Registration)

Users are prompted to register a YubiKey passkey during sign-in or while updating their security info. This mode is typically enforced through Conditional Access when accessing a resource protected by an authentication strength requiring passkeys.

Refer to the **Enforce YubiKeys for Entra ID Sign-in guide** for the setup and user experience for Interrupt Mode.

Once verified, users can register a passkey on their YubiKey, which can become their primary sign-in method removing the need for passwords or additional MFA during future sign-ins.

#### Pre-registration with the Yubico Enrollment Suite

Yubico offers the **Yubico Enrollment Suite** to delegate passkey registration through both IT-administered and automated workflows. This includes tools for pre-registering YubiKeys on behalf of users, as well as a service that delivers factory-programmed YubiKeys ready for immediate use.

- **YubiEnroll** is a client application that enables IT to pre-enroll YubiKeys on behalf of users.
- Yubico FIDO Pre-reg is a service that delivers factory-enrolled YubiKeys, pre-programmed with passkeys (FIDO2 credentials), for immediate use by new or existing users using YubiEnterprise Delivery.

#### Attestation and Key Restrictions

Attestation is a mechanism by which a YubiKey cryptographically proves its make and model at the time of registration. Microsoft Entra ID uses this attestation statement to validate that the device being registered is genuine and originates from a trusted manufacturer.

While Entra ID does not require attestation by default, enabling it allows organizations to collect and verify device metadata during registration.

This capability works in conjunction with key restrictions, a policy setting that allows administrators to enforce which FIDO2 security keys are allowed for registration, based on their <u>AAGUID (Authenticator Attestation GUID)</u>. The AAGUID is specific to the make and model of the device and is consistent across YubiKeys that share the same capabilities and firmware. For organizations with compliance-driven requirements, Yubico offers a service to program YubiKeys with a custom AAGUID, enabling enforcement of customer-specific policies and key management.

By combining attestation and key restrictions, organizations can ensure that only approved YubiKeys are used for registration.

Yubico strongly recommends enabling attestation and configuring key restrictions to ensure that only genuine, enterprise-approved YubiKeys are used. This helps organizations meet internal policy requirements, mitigate supply chain risks, and support compliance with industry regulations that require verification of hardware authenticity and source.

Refer to the **Admin Deployment Guide** for instructions on enabling attestation and enforcing key restrictions.

#### **Authentication Scenarios**

After successful registration, users can authenticate using passkeys stored on their YubiKey for both browser-based and desktop both local and remote sign-ins.

#### • Browser and Application Sign-in

Sign-in occurs using a supported browser or client app (e.g., Microsoft Edge or Outlook) to access services protected by Entra ID such as Office 365.

#### • Windows Sign-in

Users can sign into Windows directly from the sign in screen or lock screen using their YubiKey. Once signed in, Single Sign-On (SSO) can be automatically provided to all Entra-protected resources when using Microsoft apps and browsers.

#### Remote Desktop Sign-in

Users can sign-in remotely using a supported Remote Desktop connection client for pre-session and in-session authentication scenarios.

Refer to the **User Enablement Guide** for sign-in experiences for local session scenarios and the **Remote Desktop Guide** for remote session sign-in scenarios.

# Offboarding

YubiKey offboarding procedures ensure secure deprovisioning while supporting operational flexibility. Organizations may adopt one of two models when handling YubiKeys during user separation: **user-retained** or **reclaimed for reuse**.

To complete the offboarding process:

- **Delete the user's passkey (FIDO2 credential)** from their profile in Microsoft Entra using different methods including:
  - Entra Admin Center
  - PowerShell
  - YubiEnroll or other tooling leveraging Microsoft Graph API

#### **User-Retained Model**

In this model, the departing employee is permitted to retain the YubiKey. This approach is often favored in large-scale deployments due to the low cost of hardware and the reduced overhead of repurposing devices.

**Note:** There is no residual risk as long as the FIDO2 credential (passkey) associated with the user is deleted from Microsoft Entra ID. Without a registered credential, the YubiKey cannot be used to access any corporate resource.

#### **Reclaimed Model**

If the organization opts to reclaim the YubiKey for future use, the device should be reset to its factory state to remove any stored credentials.

**Important:** Resetting the YubiKey deletes all credentials, including any used for personal accounts. There is currently no way to restrict enterprise-issued YubiKeys from being used with non-enterprise services.

Resetting may occur:

- During the offboarding process
- Immediately prior to reissuance as part of your provisioning workflow

## Key Management

Effective key management ensures users can securely maintain access while preserving the integrity of the YubiKey. This section covers PIN changes, device resets, and biometric fingerprint management for YubiKey Bio models.

#### **PIN Management**

All YubiKeys used for passkey (FIDO2) authentication require a PIN. This includes the YubiKey 5 Series, Security Key Series and YubiKey Bio models. The PIN serves as the local user verification method and plays a critical role in securing authentication.

#### • Initial Configuration:

A PIN must be set before the YubiKey can be used for FIDO2 authentication. This can occur:

- As part of the passkey registration process, when the user registers their YubiKey in Entra ID.
- **Independently**, prior to registration, using supported tools. This is particularly relevant during provisioning workflows or when preparing a YubiKey Bio for fingerprint enrollment, which cannot proceed without a PIN.

#### • Biometric Enrollment (YubiKey Bio):

For YubiKey Bio models, a PIN is required to enroll fingerprints and serves as the fallback verification method if fingerprint authentication is unavailable or fails.

#### • PIN Changes:

Users may change their PIN at any time. This action requires user verification and requires knowledge of the existing PIN.

A PIN change may be enforced on first sign-in if the key has been pre-registered by the administrator using the YubiEnroll utility or by the Yubico FIDO Pre-reg service.

Refer to the **User Enablement Guide** for instructions on PIN management.

# Lost or Stolen YubiKeys

Even though a YubiKey is protected by a PIN or biometric verification, if a YubiKey has been lost or stolen the credential remains registered in Entra ID. To prevent unauthorized access, the associated passkey must be promptly removed from the user's profile.

#### **Recommended Actions**

In the event a YubiKey is reported lost or stolen:

- Delete the passkey (FIDO2 credential) associated with the device from the user's profile in Microsoft Entra ID as soon as possible. This can be performed using:
  - The Entra Admin Center
  - PowerShell
  - YubiEnroll or other tooling leveraging Microsoft Graph API
  - Via Self-service in the Security Info Portal
- **(Optional)** Revoke all active sessions for the user via the Entra Admin Center or PowerShell to enforce reauthentication.

Yubico recommends that users register at least one backup YubiKey to ensure uninterrupted access in the event of loss or theft. Users have the ability to self-serve deletion of their lost YubiKey via the Security Info portal.

## Recovery

Recovery is a critical component of YubiKey lifecycle management. It ensures that users can regain access to their accounts in the event of forgotten PINs, lost devices, or other disruptions. A well-defined recovery process minimizes downtime while maintaining security assurance. The following subsections outline key recovery scenarios and the procedures required to restore access.

#### Forgotten PIN

There is no recovery mechanism for a forgotten PIN on a YubiKey. If the PIN is forgotten, the only option is to perform a **key reset**. This is a destructive and irreversible action that deletes all stored passkeys and restores the device to its factory state.

After the reset, the user must re-register a new passkey for each service that was previously associated with the device.

#### Locked YubiKey (PIN Retry Limit Reached)

If a user enters the incorrect PIN too many times (8), the YubiKey will lock as a security measure against brute-force attacks. Once locked, the device cannot be unlocked and must be reset. This reset deletes all stored credentials and returns the key to its factory state. As with a forgotten PIN, the user must re-register their passkey after the reset is complete.

#### **Key Resets**

A YubiKey reset permanently deletes all stored FIDO2 credentials and biometric data (if applicable).

Key resets have the following characteristics:

- No privilege restriction: Any user with physical access to the key can reset it.
- Must be performed locally: Resets cannot be performed remotely.
- **Requires physical interaction:** The process involves reinserting the key and confirming with a touch gesture.
- Irreversible: Once initiated, the reset cannot be undone.

Refer to the User Enablement Guide for instructions on performing a key reset.

#### **Re-registration**

After a YubiKey has been reset or replaced, users must re-register a new passkey for each account or service previously associated with the device. This process re-establishes the binding between the YubiKey and the user's identity in Microsoft Entra ID.

There are two common recovery paths:

• Using a Backup YubiKey (recommended):

If the user has a registered backup key, they can authenticate using the backup and re-register a new primary key via the self-service Security Info portal. This is the recommended approach for minimizing downtime and preserving productivity.

• Without a Backup Key:

If no backup key is available, administrators may issue a Temporary Access Pass (TAP) to bootstrap the registration of a new YubiKey. TAP provides time-limited access and satisfies the multifactor authentication requirement for registering a passkey.

If other passkey solutions are available, such as Windows Hello for Business, platform credentials on macOS, or passkeys stored in the Microsoft Authenticator app, these authenticators can be used to register a new passkey on a reset or replaced YubiKey.

Yubico strongly recommends **registering at least one backup key** per user to support seamless recovery, maintaining an elevated security posture and consistent user experience.

# Usage Monitoring and Auditing

Monitoring how YubiKeys are used across the organization helps maintain a secure authentication environment, ensure compliance, and proactively identify issues. Microsoft Entra ID provides robust logging and auditing capabilities that administrators can use to track authentication activity and key lifecycle events.

### Sign-in Logs

The Microsoft Entra sign-in logs capture each authentication event, including the method used. This allows administrators to:

- Confirm that users are signing in with passkeys (FIDO2 security keys)
- Detect fallback to less secure methods (e.g., password + SMS) if permitted
- Identify inconsistent behavior or potential misuse

#### Audit Logs

The Microsoft Entra audit logs record changes to user authentication methods, such as:

- Registration or deletion of passkeys
- TAP issuance events (if used)

This is useful for:

- Verifying successful onboarding or offboarding
- Confirming that lost or stolen keys have been revoked

# Delete a passkey (FIDO2)

Deleting a passkey is an unrecoverable action and requires the appropriate role based on the role of the target user. For self-service deletion refer to the **User Enablement Guide**.

| Action                         | Target User | Required Role(s)  |  |
|--------------------------------|-------------|---|--|
| Delete passkey Standard user   |             | -Authentication Administrator<br>-Privileged Authentication Administrator |  |
| Delete passkey Privileged user |             | -Privileged Authentication Administrator<br>-Global Administrator         |  |

# Option 1: Deleting a Passkey (FIDO2) via the Entra Admin Center

- 1. Navigate to the Entra Admin Center: <u>https://entra.microsoft.com</u>
- 2. Sign-in with an account that holds at the appropriate role based on the table above
- 3. In the left menu pane, expand the Identity blade and select Users
  - a. Select the intended user, then select **Authentication methods** in the menu in the left menu pane:
  - b. Under **Authentication method**, click on the **ellipsis** towards the right of the menu for the passkey you intend to delete
  - c. Select Delete

| Home > Demo User   Authentication me | ethods > Users > Demo User   |   |                  |    |  |  |
|--------------------------------------|--|---|------------------|----|--|--|
|                                      | ntication methods  |   |                  | ×  |  |  |
| ✓ Search «                           | $+$ Add authentication method $\mid  otin P$ Reset password $ \widehat{oldsymbol{0}}$ Require re-register m  | ultifactor authentication 🛛 🛇 Revoke multifactor authenti | ication sessions |    |  |  |
| 2 Overview                           | v Authentication methods are the ways users sign into Microsoft Entra ID and perform self-service password reset (SSPR).   |   |                  |    |  |  |
| Audit logs                           | The user's "detault sign-in method" is the tirst one shown to the user when they are required to authenticate with a<br>second factor - the user always can choose another registered, enabled authentication method to authenticate with. |   |                  |    |  |  |
| Sign-in logs                         | Learn more   |   |                  |    |  |  |
| X Diagnose and solve problems        | Default sign-in method (Preview) 🕥 💦 No default 🖉  |   |                  |    |  |  |
| Custom security attributes           | Usable authentication methods  |   |                  |    |  |  |
| Assigned roles                       | Authentication method  | Detail  |                  | -  |  |  |
| Administrative units                 | Passkey  | My Backup YubiKey   | Manu datalla     | Χ. |  |  |
| A Groups                             | Passkey  | My Primary YubiKey  | View details     |    |  |  |
| Applications                         | Passkey  | My Pre-registered YubiKey                                 | Delete           |    |  |  |
| Licenses                             | Passkey  | My Pre-registered YubiKey                                 |                  |    |  |  |
| Devices                              | Non-usable authentication methods  |   |                  |    |  |  |
| Azure role assignments               |  |   |                  |    |  |  |
| Authentication methods               | Authentication method  | Detail  |                  |    |  |  |
| R New support request                | Temporary Access Pass  | TAP expired   |                  |    |  |  |

#### d. Select Yes to delete the passkey

| Are you sure you want to delete this Passkey?                        |  |  |  |  |  |
|--|--|--|--|--|--|
| This user will no longer be able to authenticate using this Passkey. |  |  |  |  |  |
| Yes No   |  |  |  |  |  |

e. The passkey will be deleted and can no longer be used to sign-in

# Option 2: Deleting a Passkey (FIDO2) via PowerShell

- 1. Launch **PowerShell** as an **administrator** and run the following commands modifying input values as needed:
- 2. List the user's FIDO2 authentication methods:

Get-MgUserAuthenticationFido2Method -UserId user@domain.com

3. Delete a specific passkey (FIDO2) using its Id:

Remove-MgUserAuthenticationFido2Method -UserId user@domain.com
-Fido2AuthenticationMethodId <method-id>

# **Confirm passkey (FIDO2) deletion**

# Option 1: Using the Entra Admin Center

- 1. From the user properties section in the left pane, select Audit logs
- 2. Select the event that corresponds to the deletion

| Home > Demo User   Authentication methods > Users > Demo User |                       |                     |                       |                       |                |                       |                   |           |
|---|-----------------------|---------------------|-----------------------|-----------------------|----------------|-----------------------|-------------------|-----------|
| Demo User   Audit log   | gs ···                |                     |                       |                       |                |                       |                   | ×         |
|   | 🛓 Download 💍 Re       | fresh 🛛 🗮 Columns   | Got feedback?         |                       |                |                       |                   |           |
| L Overview  | Date : Last 1 month   | Show dates as : L   | .ocal Service : All   | Category : All        | Activity : All | + Add filters         |                   |           |
| Audit logs  | Date ↑↓               | Service             | Category ↑↓           | Activity ↑↓           | Status         | Status reason         | Target(s)         | Initiated |
| Sign-in logs  | 4/23/2025, 4:47:40 PM | Authentication Meth | UserManagement        | Admin deleted secur   | Success        | Admin deleted Fido2   | Demo User         | Admin     |
| × Diagnose and solve problems                                 | 4/23/2025 4:47:40 PM  | Device Registration | UserManagement        | Delete platform cred  | Success        |                       | b7348db9-6022-41b | b628f384  |
| Custom security attributes                                    | 4/22/2025 4:47:40 PM  | Care Directory      | Usert fan en en en et | Undetermen            | C              |                       | Demelles @demOte  | Device D  |
| 🕹 Assigned roles  | 4/23/2025, 4:47:40 PM | Core Directory      | Osermanagement        | opdate user           | Success        |                       | Demouser@demote   | Device R  |
| Administrative units  | 4/23/2025, 4:17:35 PM | Device Registration | UserManagement        | Add Passkey (device   | Success        |                       | DemoUser@dem0te   | DemoUs    |
|   | 4/23/2025, 4:17:35 PM | Core Directory      | UserManagement        | Update user           | Success        |                       | DemoUser@dem0te   | Device R  |
| Groups Groups   | 4/23/2025, 4:17:35 PM | Authentication Meth | UserManagement        | User registered secu  | Success        | User registered Fido  | Demo User         | Demo U:   |
| Applications  | 4/23/2025. 4:16:43 PM | Authentication Meth | UserManagement        | User started security | Success        | User started the regi | Demo User         | Demo U:   |
| Licenses  | 4/22/2025 4-16-20 DM  | Davica Registration | LicerManagement       | Add Basskov (dovico   | Success        | 5                     |                   | Domoliis  |
| Devices   | 4/25/2025, 4.10.20 PM | Device Registration | Osermanagement        | Add Passkey (device   | Success        |                       | Demouser@demote   | Demous    |
| Azure role assignments  | 4/23/2025, 4:16:20 PM | Core Directory      | UserManagement        | Update user           | Success        |                       | DemoUser@dem0te   | Device R  |
|   | 4/23/2025, 4:16:20 PM | Authentication Meth | UserManagement        | User registered secu  | Success        | User registered Fido  | Demo User         | Demo U:   |
| Authentication methods  | 4/23/2025, 4:15:24 PM | Authentication Meth | UserManagement        | User started security | Success        | User started the regi | Demo User         | Demo U:   |
| R New support request   |                       |                     |                       |                       |                |                       |                   |           |

#### 3. Confirm the passkey has been successfully deleted under the Activity tab

| Home > Demo User   Authentication met | hods > Users > Demo User           | Audit Log Detail                        | S   | × |
|---------------------------------------|------------------------------------|---|---|---|
| Demo User   Audit lo                  | ogs …                              | 2                                       |   |   |
| Search «                              | 🛓 Download 🖒 Refresh 🕴 🎫           | Activity Target(s) M                    | odified Properties  |   |
| 🚨 Overview                            | Date : Last 1 month Show           | Activity                                |   |   |
| Audit logs                            | Date 1 Service                     | Date                                    | 4/23/2025, 4:47 PM  |   |
| Sign-in logs                          | 4/23/2025, 4:47:40 PM Authenticati | Activity Type                           | Admin deleted security info                                       |   |
| X Diagnose and solve problems         | 4/23/2025, 4:47:40 PM Device Regis |   | · · · · · · · · · · · · · · · · · · ·                             |   |
| Custom security attributes            | 4/23/2025, 4:47:40 PM Core Directo | Correlation ID                          | b5548a4a-c4b3-4adb-bb97-accfb146a57d                              |   |
| Assigned roles                        | 4/23/2025, 4:17:35 PM Device Regis | Category                                | UserManagement  |   |
| Administrative units                  | 4/23/2025, 4:17:35 PM Core Directo | Status                                  | SUCCESS   |   |
| A Groups                              | 4/23/2025, 4:17:35 PM Authenticati |   |   |   |
| Applications                          | 4/23/2025, 4:16:43 PM Authenticati | Status reason                           | Admin deleted Fido2 Authentication Method for user                |   |
| Licenses                              | 4/23/2025, 4:16:20 PM Device Regis | User Agent                              | Mozilla/5.0, (Windows NT 10.0; Win64; x64), AppleWebKit/537.36,   |   |
| Devices                               | 4/23/2025, 4:16:20 PM Core Directo |   | (KHTML, like Gecko), Chrome/133.0.00, Safari/537.36, Edg/133.0.00 |   |
| Azure role assignments                | 4/23/2025, 4:16:20 PM Authenticati | Initiated by (actor)                    |   |   |
| New support request                   | 4/23/2025, 4:15:24 PM Authenticati | Type                                    | User  |   |
| C new support request                 | 4/23/2025, 4:15:04 PM Authenticati | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |   |   |
|                                       | 4/23/2025, 4:15:04 PM Device Regis | Display Name                            | Admin   |   |
|                                       | 4/23/2025, 4:15:04 PM Core Directo | Object ID                               | b628f389-ead8-4f29-b1af-4af7e27b3045                              |   |
|                                       | 4/23/2025, 4:15:04 PM Authenticati | ID address                              | 174 91 155 80   |   |
|                                       | 4/23/2025, 4:11:36 PM Authenticati | ir address                              | 174.51.153.00   |   |
|                                       | 4/23/2025, 4:11:36 PM Core Directo | User Principal Name                     | DemoAdmin@dem0tenant.onmicrosoft.com                              |   |
|                                       | 4/23/2025, 4:11:35 PM Core Directo | Additional Details                      |   |   |
|                                       | 4/3/2025, 3:32:24 PM Device Regis  |   |   |   |
|                                       | 4/3/2025, 3:32:24 PM Core Directo  | InitiatedFrom                           | ADIbizaUX (74658136-14ec-4630-ad9b-26e160ff0fc6)                  |   |

# **Option 2: Using Microsoft Graph PowerShell**

4. Launch **PowerShell** as an **administrator** and run the following commands modifying input values as needed:

```
Connect-MgGraph -Scopes "AuditLog.Read.All"
  -Filter "activityDateTime ge $startTime and
  -All
    $ .ResultReason -eq "Admin deleted Fido2 Authentication
    ($_.TargetResources | Where-Object {
      $ .Type -eq "User" -and $ .DisplayName -eq
 Select-Object ActivityDateTime,
                @{Name = "DeletedBy"; Expression = {
$ .InitiatedBy.User.DisplayName }},
                @{Name = "TargetUser"; Expression = {
($ .TargetResources | Where-Object Type -eq "User").DisplayName
                ResultReason |
  Format-Table -AutoSize
```

You should receive an output with the following values:

| ActivityDateTime | DeletedBy     | TargetUser    | ResultReason   |
|------------------|---------------|---------------|--|
| Timestamp        | <user></user> | <user></user> | Admin deleted Fido2<br>Authentication Method<br>for user |