Here's a breakdown of how Passkeys (FIDO2) vs. Passwordless (Authenticator Push) work on Windows devices for browser/app logins:

1. Using Passkeys (FIDO2) on Windows

Scenario	Requires Windows Hello?	Works with Hardware Token (YubiKey)?
Browser/App Login	✓ Yes (if using software passkey in Authenticator)	No (if using YubiKey instead)
Local Windows Login	✓ Yes (must set up Hello PIN/biometrics)	✓ No (YubiKey replaces Hello)

Key Points:

- If using Microsoft Authenticator as a passkey (FIDO2):
 - o Requires Windows Hello (biometrics/PIN) to unlock the passkey.
 - X Fails if Windows Hello isn't set up.
- If using a hardware token (YubiKey):
 - No Windows Hello needed (the YubiKey itself acts as the authenticator).
 - User just inserts/taps the YubiKey when logging into browsers/apps.

2. Using Passwordless (Authenticator Push)

Scenario	Requires Windows Hello?	Works with Hardware Token?
Browser/App Login	X No (just phone approval)	X No (uses phone, not hardware key)

Scenario	Requires Windows Hello?	Works with Hardware Token?
Local Windows Login	X No (unless policy enforces it)	× No

Key Points:

- Authenticator Push (Passwordless):
 - Works without Windows Hello or YubiKey.
 - User gets a **notification on their phone** to approve login.
 - Best for users without biometric devices or hardware keys.

Summary of Your Understanding

Correct:

- Passkey (Authenticator FIDO2) on Windows requires Windows Hello for browser/app logins.
- Hardware token (YubiKey) bypasses Windows Hello—just plug/tap the key.
- Passwordless (Authenticator Push) works independently of both.

✓ Best Practice:

- For users without Windows Hello: Use YubiKey (FIDO2) or Authenticator Push.
- For users with Windows Hello: Let them use Authenticator Passkey (FIDO2) + Hello.

How to Configure for Each Scenario

- 1. Users with YubiKey (No Windows Hello Needed)
 - 1. Admin: Enable FIDO2 Security Keys in Entra ID → Authentication Methods.
 - 2. **User:** Register YubiKey at https://aka.ms/mysecurityinfo.
 - 3. **Login:** At teams.microsoft.com, select "Sign in with a security key" → Tap YubiKey.
- 2. Users with Authenticator Push (No Windows Hello Needed)

- 1. Admin: Enable Passwordless Phone Sign-In (Authenticator) in Entra ID.
- 2. User: Register Authenticator at https://aka.ms/mysecurityinfo.
- 3. Login: At teams.microsoft.com, select "Approve a request on my Authenticator app".

3. Users with Windows Hello + Authenticator Passkey

- 1. Admin: Enable FIDO2 and Windows Hello for Business.
- 2. User: Set up Windows Hello (PIN/biometrics) + register Authenticator as passkey.
- 3. Login: At teams.microsoft.com, select "Use Windows Hello or security key".

Final Answer

- If users have YubiKey: No Windows Hello needed—just the key.
- X If users rely on Authenticator Passkey (FIDO2): Windows Hello is required.
- If users use Authenticator Push (Passwordless): No Hello or hardware needed.

Passkey vs. Passwordless (Authenticator) on Mobile Devices

Here's how **Passkeys (FIDO2)** and **Passwordless (Authenticator Push)** work on **iOS and Android**, compared to Windows:

Mobile Device Compatibility Chart

Scenario	Passkey (FIDO2)	Passwordless (Authenticator Push)
Supported on Mobile?	✓ Yes (iOS 16+/Android 9+)	✓ Yes (All devices with Authenticator app)
How It Works	Uses device-stored FIDO2 keys (biometric-locked).	Uses push notifications + number matching.
Login Experience	Select "Passkey" → Authenticate with FaceID/fingerprint.	Enter email → Approve notification in Authenticator app.

Scenario	Passkey (FIDO2)	Passwordless (Authenticator Push)
Works in Browsers?	✓ Yes (Chrome, Edge, Safari with limitations).	✓ Yes (All major browsers).
Works in Native Apps?	✓ Yes (Teams, Outlook, etc. if app supports FIDO2).	✓ Yes (All Entra ID-integrated apps).
Phishing Resistance	Strong (FIDO2 standard).	✓ Good (but less secure than FIDO2).
Requires Biometrics?	Yes (FaceID, fingerprint, or PIN).	X No (just phone approval).
Offline Login?	✓ Yes (key is stored locally).	X No (needs internet for push).
Best For	High-security users (admins, finance).	General workforce (simpler, no hardware needed).

Key Differences on Mobile

1. Passkey (FIDO2) on Mobile

How it works:

- User selects "Sign in with a passkey" → Authenticates via FaceID/fingerprint.
- The passkey is stored in the device's secure enclave (like Apple Keychain/Google Password Manager/MS Authenticator).

• Limitations:

- Safari (iOS) doesn't fully support FIDO2 yet (works best in Chrome/Edge).
- Shared devices? Passkeys are tied to the user's biometrics.

2. Passwordless (Authenticator Push) on Mobile

- How it works:
 - User enters email → Gets a push notification → Approves with number matching.
- Advantages:
 - **Works everywhere** (even on older devices).
 - No biometrics required (just phone unlock).
- **★** Summary: What Should You Use?

User Case	Recommended Method	
iPhone/Android users	Passkey (FIDO2) for security, Passwordless Push for simplicity.	
Shared tablets/kiosks	X Avoid passkeys (biometric-locked). Use Passwordless Push or YubiKey.	
Admins/high- security	✓ Passkey (FIDO2) + YubiKey (best phishing protection).	
General workforce	Passwordless Push (easiest for most users).	

K How to Configure in Entra ID

- 1. For Passkeys (FIDO2):
 - o Enable FIDO2 Security Keys in Authentication Methods.
 - o Users register at <u>aka.ms/mysecurityinfo</u>.
- 2. For Passwordless Push:

- o Enable Microsoft Authenticator → Passwordless Phone Sign-In.
- Users add Authenticator in My Security Info.

Final Answer

- Passkeys (FIDO2) on mobile: Best for personal devices with biometrics (FaceID/fingerprint).
- Passwordless Push: Best for shared devices or users without biometrics.
- YubiKey (FIDO2): Works on mobile via NFC/USB (no biometrics needed).

Step-by-Step Guide: Enabling Passkeys & Passwordless (Authenticator) on Mobile in Entra ID

This guide covers **two methods** for mobile users:

- 1. **Passkey (FIDO2)** Uses device biometrics (FaceID/fingerprint).
- 2. Passwordless (Authenticator Push) Uses phone notifications.

Prerequisites

- Microsoft Entra ID P1/P2 license (required for passwordless).
- Microsoft Authenticator app installed on user phones.
- Admin access to Entra ID (Azure AD).

Method 1: Enable Passkey (FIDO2) for Mobile

(Best for personal iPhones/Android with biometrics.)

Step 1: Admin – Enable FIDO2 in Entra ID

- 1. Go to Microsoft Entra Admin Center.
- 2. Navigate to:

Protection \rightarrow Authentication Methods \rightarrow Policies \rightarrow FIDO2 Security Key.

- 3. Configure:
 - Enable: Yes

- o **Target:** All users (or a specific group).
- Enforcement: Allow FIDO2 security keys (for mobile passkeys).
- 4. Click Save.

Step 2: User - Register Passkey on Mobile

- 1. User opens My Security Info.
- 2. Clicks + Add method → FIDO2 Security Key.
- 3. Follows prompts:
 - o **On iPhone:** Uses FaceID/TouchID to create passkey.
 - On Android: Uses fingerprint/PIN.
- 4. **Success!** Passkey is stored in device's secure enclave.

Step 3: User Logs In with Passkey

- 1. Visits teams.microsoft.com (or any M365 app).
- 2. Selects "Sign in with a passkey".
- 3. Authenticates with FaceID/fingerprint.
- 4. Logged in! <

Method 2: Enable Passwordless (Authenticator Push)

(Works on any phone, no biometrics required.)

Step 1: Admin – Enable Passwordless Push

- 1. Go to Microsoft Entra Admin Center.
- 2. Navigate to:

Protection \rightarrow Authentication Methods \rightarrow Policies \rightarrow Microsoft Authenticator.

- 3. Configure:
 - o **Enable:** Yes
 - Authentication mode: Passwordless phone sign-in

- o **Target:** All users (or a group).
- 4. Click Save.

Step 2: User – Register Authenticator

- 1. User installs Microsoft Authenticator (if not already).
- 2. Signs in to My Security Info.
- 3. Clicks + Add method → Microsoft Authenticator.
- 4. Follows prompts to **scan QR code** and link account.

Step 3: User Logs In with Passwordless Push

- 1. Visits outlook.office.com (or any M365 app).
- 2. Enters email → Clicks **Next**.
- 3. Selects "Approve a request on my Authenticator app".
- 4. Approves notification (with number matching).
- 5. Logged in!

Conditional Access (Optional, for Security)

To enforce **Passkeys or Passwordless** for specific apps:

- 1. Go to Entra ID \rightarrow Security \rightarrow Conditional Access.
- 2. Create a new policy:
 - Users: Select a group.
 - Apps: Select (e.g., Microsoft Teams, Outlook).
 - Grant: Require authentication strength → Choose "Phishing-resistant MFA" (for FIDO2) or "Passwordless MFA" (for Authenticator).



Scenario	Use Passkey (FIDO2)	Use Passwordless Push
Personal iPhone/Android	Best (secure)	Works
Shared/Kiosk Devices	X No (biometric lock)	∨ Best
No Biometrics	× Fails	∨ Best
Highest Security	✓ Yes (FIDO2)	X Less secure

Final Steps

- 1. Admins: Enable FIDO2 and/or Authenticator Passwordless in Entra ID.
- 2. Users: Register at aka.ms/mysecurityinfo.
- 3. **Test:** Try logging into portal.office.com with both methods.