

YubiKeys for Entra ID passwordless pre-deployment checklist

Introduction

This document helps assess whether your current infrastructure meets the hardware and software requirements to deploy phishing-resistant passwordless authentication with passkeys (FIDO2) using YubiKeys in a Microsoft Entra ID environment.

Pre-Deployment Checklist

General Requirements	✓
Microsoft Entra Multifactor Authentication	
Required Entra Roles: <ul style="list-style-type: none"> • Authentication Policy Administrator to implement and manage the authentication methods policy • Authentication Administrator to implement and manage authentication methods 	
Supported YubiKeys: <ul style="list-style-type: none"> • YubiKey 5 Series • YubiKey 5 FIPS Series • YubiKey Bio Series (includes FIDO and Multi-protocol Editions) • Security Key Series (includes Enterprise Edition) 	
Confirm Operating System and Browser Support	
Enable Connectivity to Entra ID endpoints for Authentication and Registration	

(Optional) Requirements to Enable security keys for Windows sign-in	✓
Microsoft Entra Joined Devices require Windows 10 version 1909 or higher	
Microsoft Entra Hybrid Joined devices require Windows 10 version 2004 or higher via one of the following options:	
Enable with Microsoft Intune	
Enable with a Provisioning Package	
Enable with Group Policy	

(Optional) Enable passwordless security key sign-in to on-premises resources by using Microsoft Entra ID	✓
Windows 10 version 2004 or higher. Devices can be Microsoft Entra joined or Microsoft Entra hybrid joined.	
Hybrid Identity with Entra ID configured for provisioning and synchronization	
Latest version of Entra Connect	
Windows Server 2016 or 2019 Domain Controller with the latest patches <i>Note: These patches have been rolled into the latest monthly cumulative updates for each version.</i>	
Required Roles and permissions: <ul style="list-style-type: none"> • Active Directory Domain and Enterprise Admins group membership • Entra Hybrid Administrator Role 	
Explore Supported vs Unsupported Scenarios	

References

1. [YubiKeys for Microsoft Entra ID passwordless sign in guide](#)
2. [Browser support of FIDO2 passwordless authentication - Microsoft Entra](#)
3. [Security Key Sign-in to Windows](#)
4. [Enable passwordless security key sign-in to on-premises resources by using Microsoft Entra ID](#)