



Deploying Platform SSO with Entra ID

Best Practices



Presenters



Michael Epping

Product Manager, Microsoft

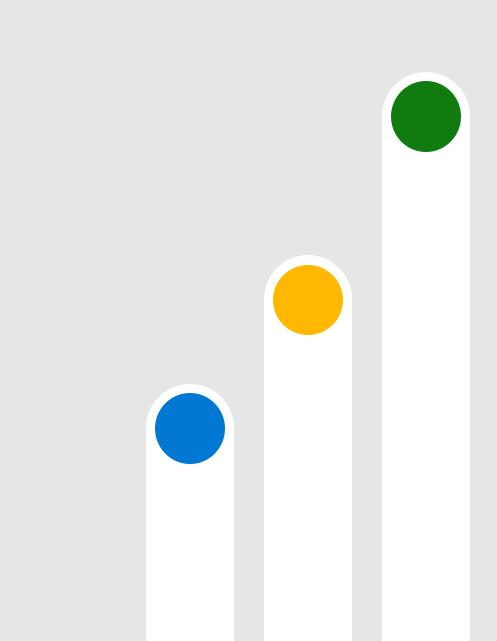


Mark Morowczynski

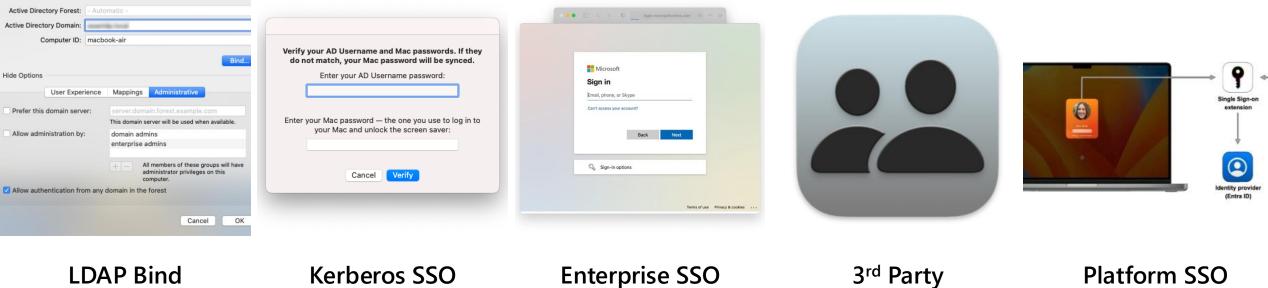
Product Manager, Microsoft

Platform SSO Fundamentals

Deployment Best Practices Authentication Strengths Feedback Go Do's!



History of Enterprise Identity Options on macOS



2001 Mac OS X (10.0) Kerberos SSO 2019 macOS 10.15 Enterprise SSO 2019 macOS 10.15 3rd Party (Jamf Connect, XCreds, etc. Platform SSO 2022 macOS 13+

Quick Poll

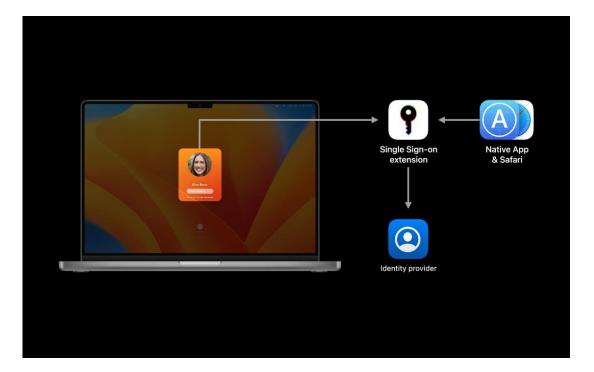
Show of hands, how many of you have deployed the Microsoft Enterprise SSO Extension?

Where are the gaps?

Nothing outlined so far provides a native way to manage local identities without on-premises AD

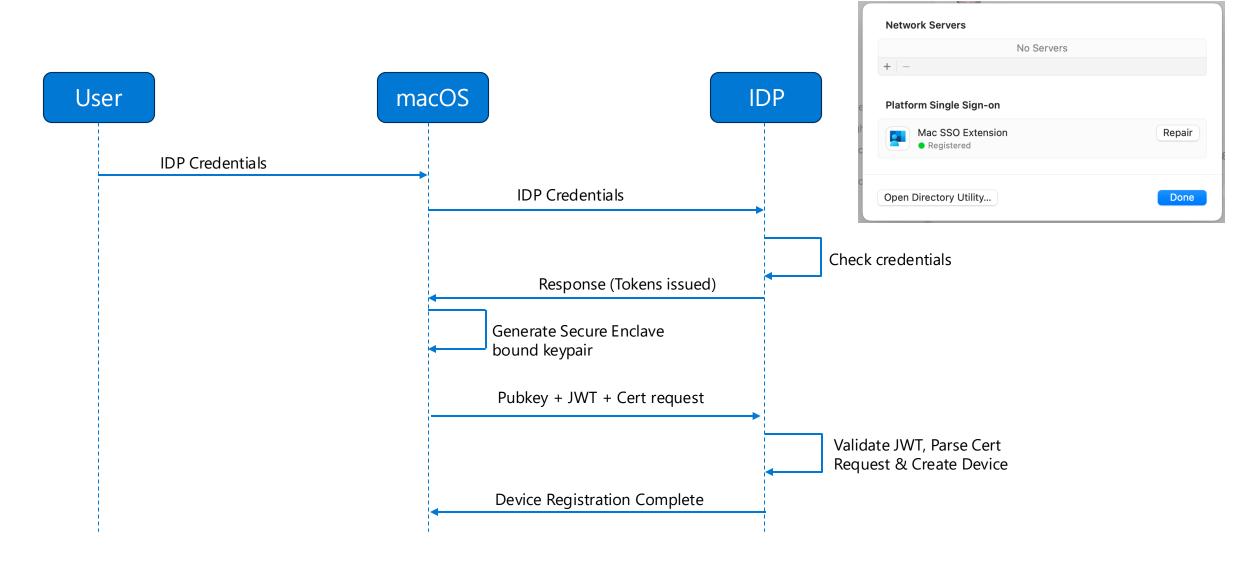
- Local creds, on-premises AD,
 MDM, or 3rd party tools
- \cdot On-premises dependencies
- \cdot Multiple tools used for SSO
- \cdot No phishing-resistance

Platform SSO



- Framework built by Apple
- Local account credential managed by combo of MDM and IDP vendor plugin
- Replacement for AD join
- Multiple auth methods

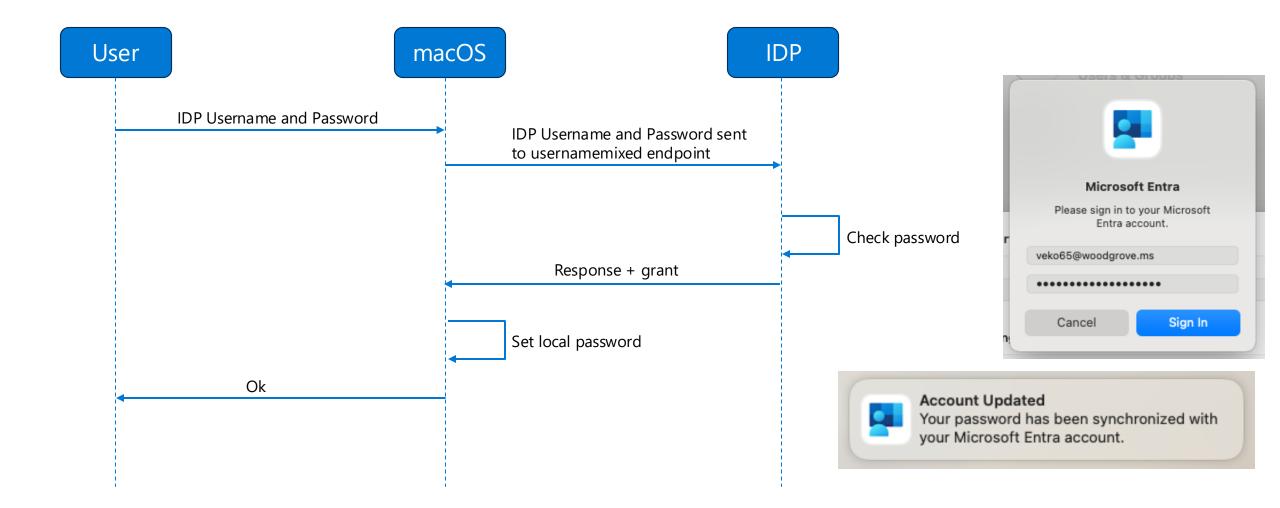
Step 1: Device Registration



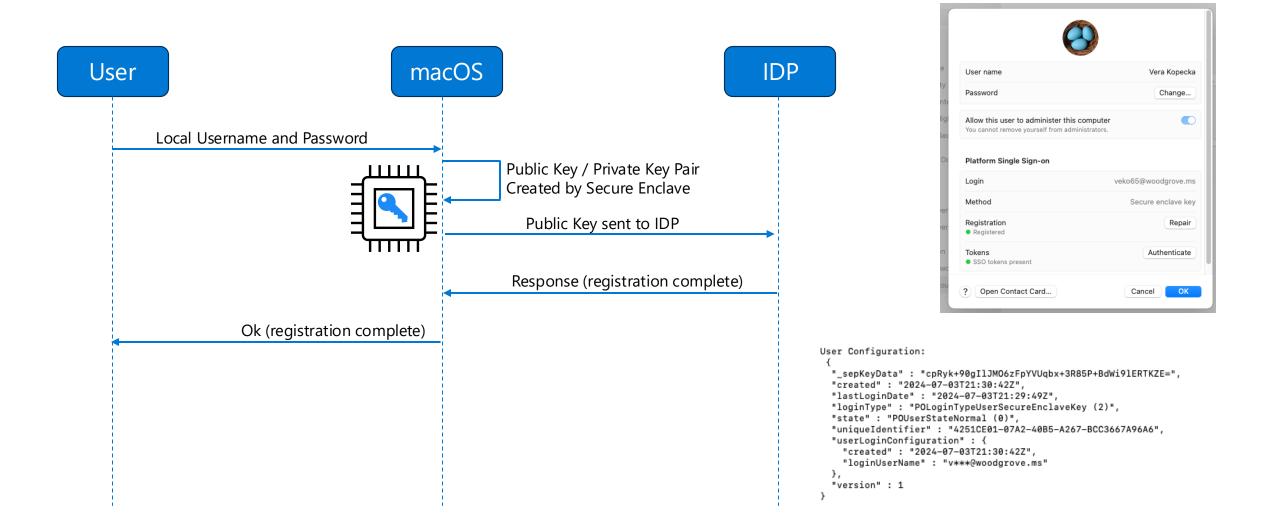
3 Authentication Methods Support by Platform SSO

	Good: Password	Better: Smart Card	Best: Secure Enclave Key
Local Account Password Sync w/ Entra ID		×	×
Federation Support	via WS-Trust (same as Windows)		
MFA Required for Registration	×		
Phishing Resistant	×	Image: A start and a start	
Phishing Resistant via Built-In Apple Hardware	×	×	via same protocols as Windows Hello for Business
Can be used as a passkey	×	×	

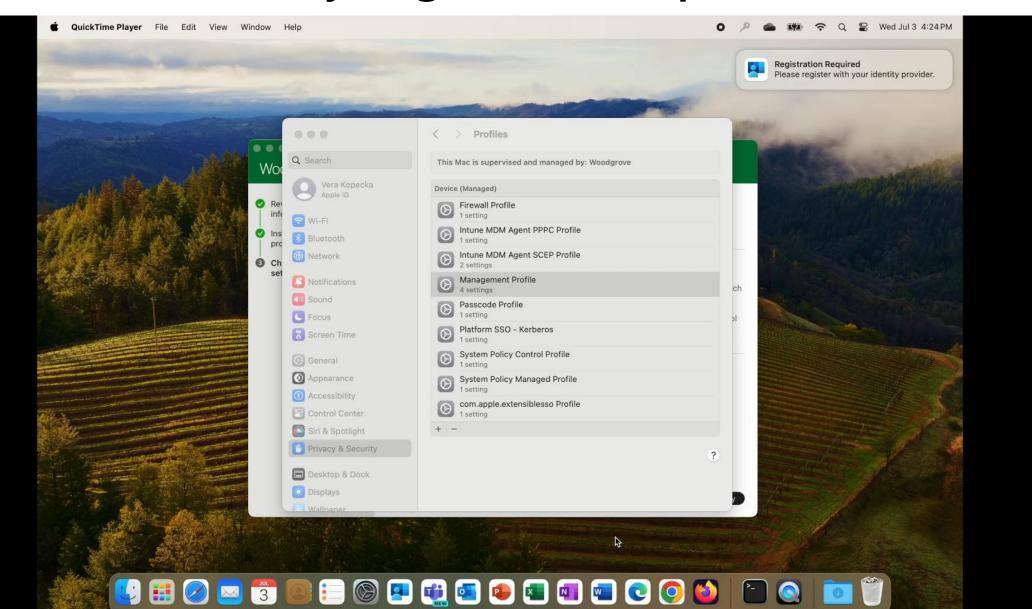
Step 2: User Registration - Password Sync Flow



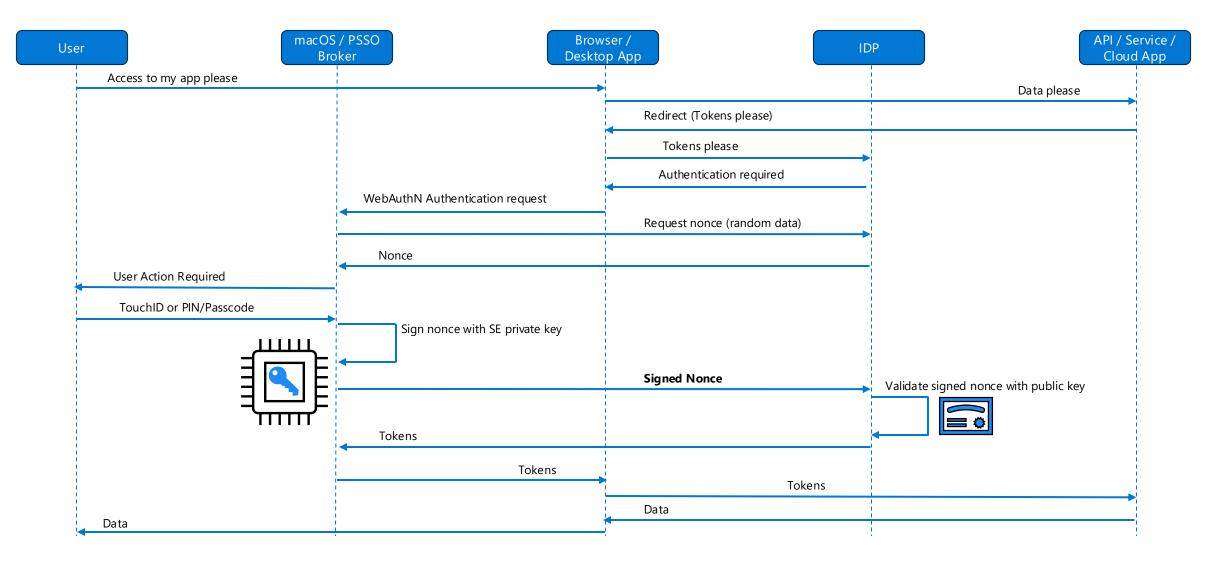
Step 2: User Registration - Secure Enclave Key Flow



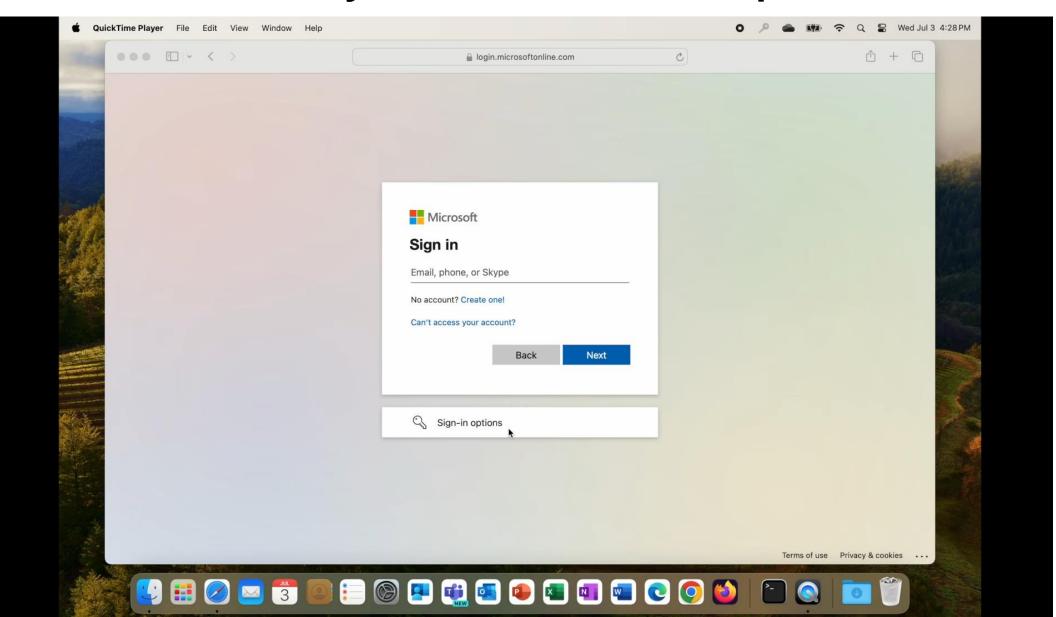
Secure Enclave Key Registration Experience



Secure Enclave Key Interactive Authentication Flow



Secure Enclave Key Authentication Experience



Sonoma vs. Ventura

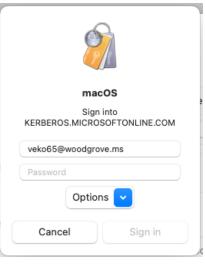
Feature	Ventura (macOS 13)	Sonoma (macOS 14)
Secure Enclave		
Password Sync		
Smart Cards	×	
User enrollment and registration UX in System Settings	×	
Local Account Creation using IDP	×	
Admin authentication without local user account	×	
Kerberos SSO	×	

Kerberos SSO via Platform SSO

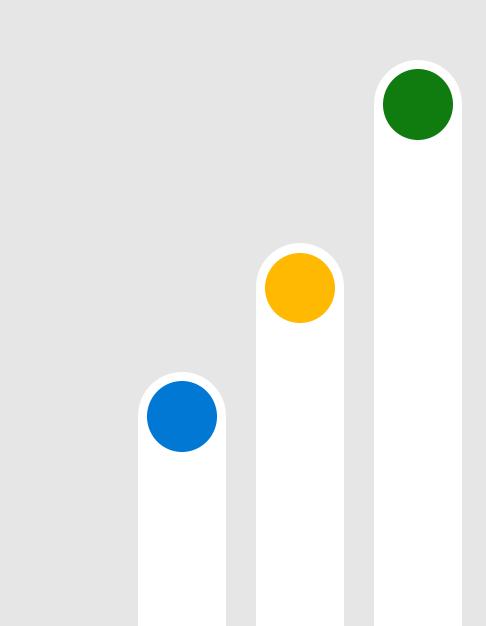
- Leverages the Apple Kerberos SSO extension
- Simplifies delivery of SSO to one tool
- Requires custom configuration profile (see docs)
- User experience similar to Apple Kerberos SSO, easier deployment

```
<key>ExtensionData</key>
<dict>
<key>allowPasswordChange</key>
<true/>
<key>allowPlatformSSOAuthFallback</key>
<true/>
<key>performKerberosOnly</key>
<true/>
<key>pwReqComplexity</key>
<true/>
<key>syncLocalPassword</key>
<true/>
<key>usePlatformSSOTGT</key>
<true/>
```

<key>Hosts</key> <array> <string>woodgrove.net</string> <string>*.woodgrove.net</string>



Platform SSO Fundamentals Deployment Best Practices Authentication Strengths Feedback Go Do's!



Best Practices

1. Deploy Secure Enclave Key

Secure Enclave and MFA

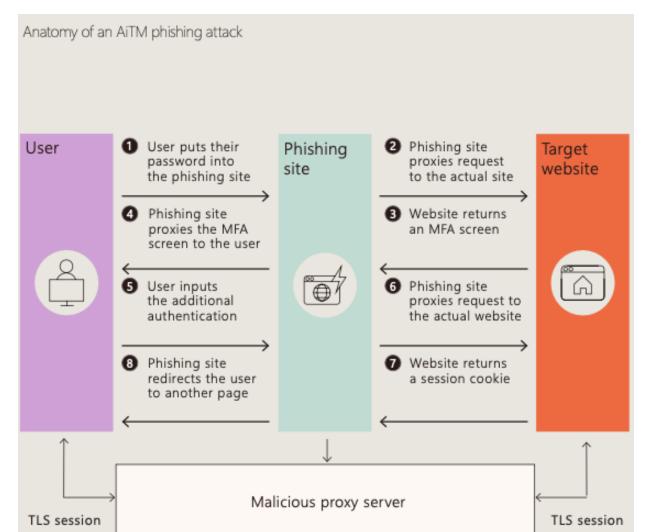
Secure Enclave PSSO = Phishing Resistant MFA credential

- PIN/Local Passcode = Something you have + something you know
- TouchID = Something you have
 + something you are
- You'll satisfy MFA Conditional Access Policies



Why Phishing Resistant is Critical?

- \cdot Defenses erode over time
- MFA is the bare minimum...
 today



Why Phishing Resistant is Critical?

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 today
- Understand
 FIDO2/CTAP2/WebAuthN https://aka.ms/PSU2024FIDO2
- Then really shift focus to endpoint (token theft, malware, updates, physical device theft)

•••	< > Password Options	
Q Search	AutoFill Passwords and Passkeys AutoFill helps you sign into apps and websites.	
💽 Siri & Spotlight		
🖐 Privacy & Security	Use passwords and passkeys from	
Desktop & Dock	iCloud Keychain	
🔅 Displays		
🛞 Wallpaper	Company Portal	
Screen Saver		
Battery	Verification Codes	
Lock Screen	Delete After Use Automatically delete verification codes in Messages and Mail after they	
Touch ID & Password	are used.	
😕 Users & Groups		
Passwords		
Internet Accounts		
Game Center		
🔁 Wallet & Apple Pay		
Keyboard		
💽 Trackpad		
Printers & Scanners		

Best Practices

- 1. Deploy Secure Enclave Key
- 2. Align password management for macOS

Password policies set via MDM can conflict with Platform SSO

- Secure Enclave overly complex password policies or frequent rotation requirements will cause user experience issues
- Password Sync MDM password policies that don't match Entra ID / Active Directory password settings will conflict

		_
Old password:		
New password:	?	2
Verify:		
Password hint: (Recommended)		
	Cancel Change Password	

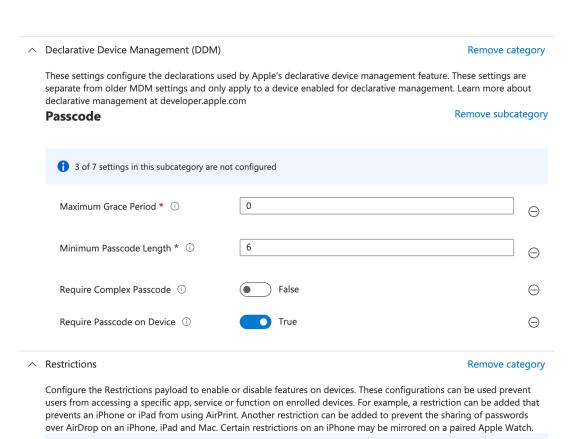
Secure Enclave Guidance:

- Align requirements with the rules your organization use to manage Windows Hello for Business PINs
- Default WHFB PIN rules:
 - · 4 characters
 - Numeric-only Allowed
 - · No expiration
 - Biometric Allowed
- Recommended PIN rules:
 - · 6-8 characters
 - Numeric-only Allowed
 - \cdot No expiration
 - Biometric Allowed



Secure Enclave Guidance:

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(i) 73 of 74 settings in this category are not configured

Allow Fingerprint For Unlock 🕕



count Policiae /Paeeword Policy

Password Sync Guidance:

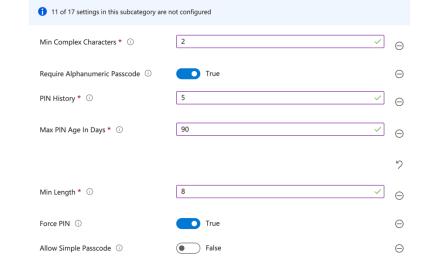
- Remove MDM password policies altogether, let PSSO Password Sync take control
- At minimum, make sure MDM password policy has same requirements as Entra ID / Active Directory

Policy	Setting
Enforce password history	5 passwords remembered
Maximum password age	90 days
Minimum password age	30 days
Minimum password length	8 characters
Password must meet complexity requirements	Enabled

Passcode

Remove subcategory

Configure the Passcode payload to specify whether a password or passcode is required to access and use an enrolled device. When the configuration profile is installed, users are asked to enter a password or passcode that meets the policies you specify. Otherwise, the profile won't be installed. When the Passcode payload is installed on an iPhone or iPad, users have 60 minutes to enter a passcode. If users don't do so within that time frame, the payload forces them to enter a passcode using the specified settings. If you use device policies and Exchange passcode policies, the two sets of policies are merged and the strictest settings are enforced.



Best Practices

- 1. Deploy Secure Enclave Key
- 2. Align password management for macOS
- 3. Enable Recommended MDM configs

Recommended MDM Settings

Recommended Configuration:

- All other configuration options can be the same as previous Enterprise SSO profiles
- Replace eSSO profile, don't create conflicting eSSO and PSSO profiles

Extensible Single Sign On (SSO)

Configure an app extension that enables single sign-on (SSO) for devices.

Authentication Method (Deprecated) 🛈	UserSecureEnclaveKey
Screen Locked Behavior ①	Do Not Handle
Registration Token (i)	{{DEVICEREGISTRATION}}
Platform SSO 🕕	
Authentication Method 🛈	UserSecureEnclaveKey
Enable Authorization 🕕	Enabled
Enable Create User At Login ①	Enabled
New User Authorization Mode 🛈	Standard
Use Shared Device Keys 🕕	Enabled
User Authorization Mode $$	Standard
Team Identifier 🕕	UBF8T346G9
Extension Identifier ①	com.microsoft.CompanyPortalMac.ssoextensior
Туре ①	Redirect
URLs 🛈	https://login.microsoftonline.com, https://login. https://sts.windows.net, https://login.partner.mi https://login.chinacloudapi.cn, https://login.mic https://login-us.microsoftonline.com,

microsoft.com, crosoftonline.cn rosoftonline.us,

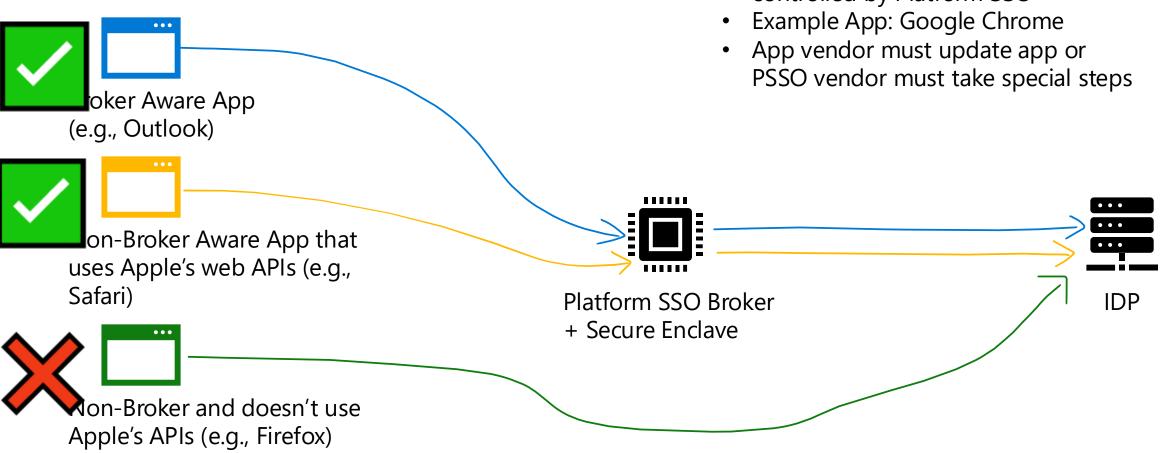
MDM Config Best Practices Round Up

- \cdot Start with the *recommended* and *documented* Platform SSO settings
 - Especially Shared Device Keys
 - Iterate from there
- · Deploy Kerberos settings as part of your Platform SSO configuration
- Make sure to bring over your Microsoft Enterprise SSO Extension settings
- · Align MDM password policy settings with org requirements
 - \cdot Work with Security and Identity teams to align across OSes

Best Practices

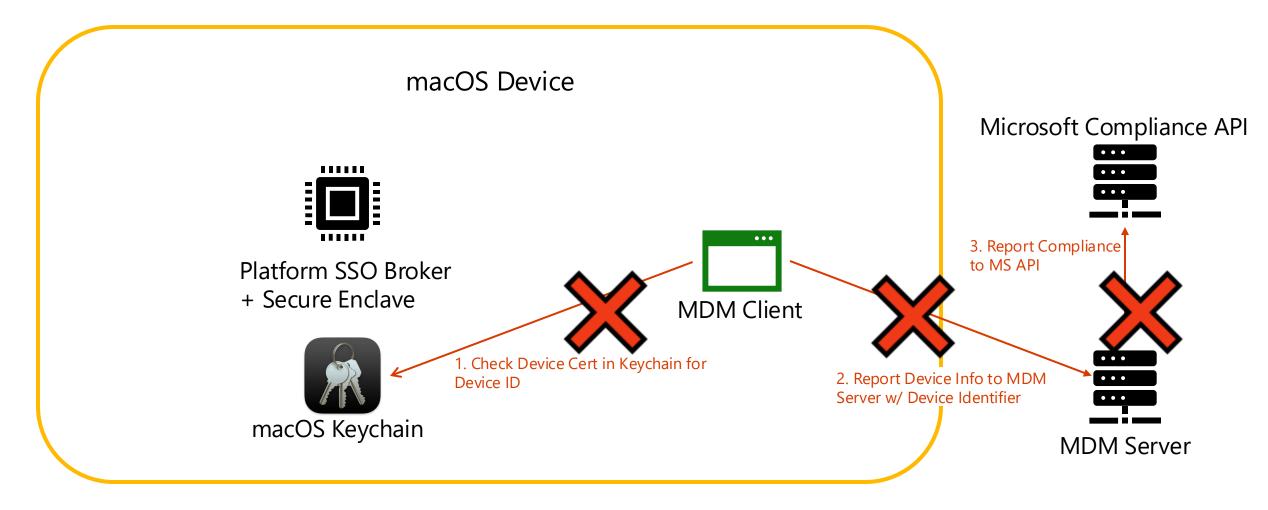
- 1. Deploy Secure Enclave Key
- 2. Align password management for macOS
- 3. Enable Recommended MDM configs
- 4. Understand impact of hardware-bound device identity

Authentication Flows

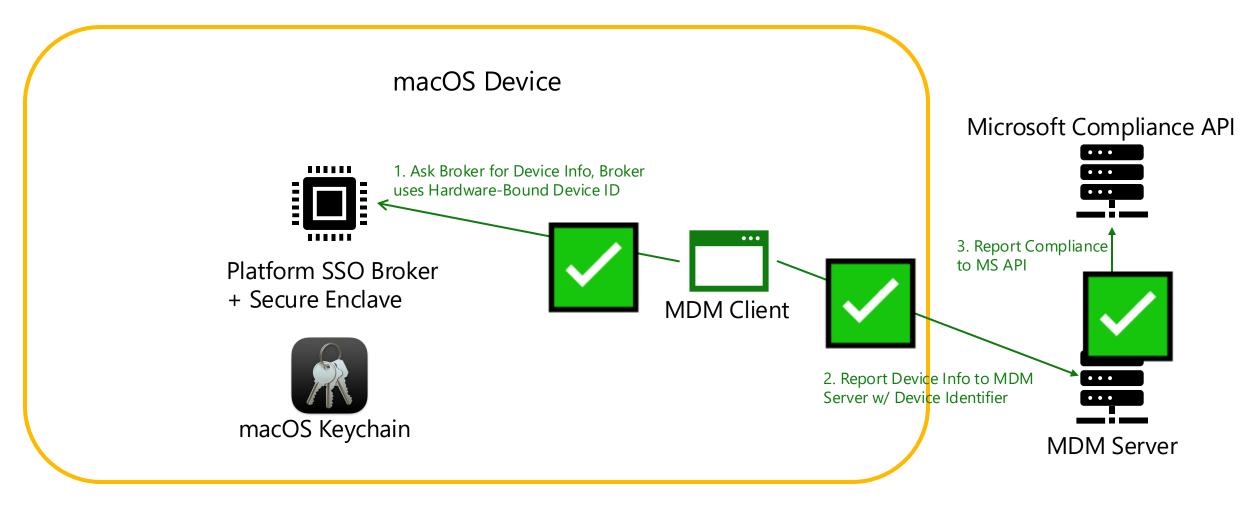


• No access to any key material controlled by Platform SSO

Device-Bound Cert Impact on MDMs



Device-Bound Cert Impact on MDMs



Requirement: MDM Vendors must make updates to their clients to use the broker instead of the Keychain for 3rd Party Compliance Integration w/ Microsoft

Best Practices

- 1. Deploy Secure Enclave Key
- 2. Align password management for macOS
- 3. Enable Recommended MDM configs
- 4. Understand hardware-bound device identity impacts
- 5. Follow Apple's TLS Guidance

TLS Inspection and Apple's SSO Framework

- TLS Inspection is not allowed for specific Apple URLs:
 - app-site-association.cdn-apple.com
 - app-site-association.networking.apple
- Top cause of support cases we see for macOS SSO, SSO will be completely broken
- Work with your network teams to exempt these URLs, or preferably these wildcards:
 - *.cdn-apple.com
 - *.networking.apple

TLS Inspection and Apple's SSO Framework

- Trust but Verify check if TLS Inspection is occurring on your Macs:
 - \cdot Use Mac Evaluation Utility from AppleSeed for IT

• • •	report01 Report C 378 Tests	omplete	C
Reports	Overview		Туре
Fireport01	Categories and Tests	Number of Tests Status	Evaluated
Now	> Computer Information	5 🔇	Status
	> Network Information	10	Warning
	> Apple Network Services	216	Observation
	V HTTPS Interception	79 🤞	app-site-association.cdn-apple.com:443 - Certificate
	> Certificate Validation	3	isn't trusted by built-in anchor certs (("Charles Proxy 0 (2 Nov 2023, Michaels-MacBook-Pro-2.local)" certifica
	> Device Setup	7 🤞	is not trusted))
	> Device Management	15	Description
	> Apple Business Essentials	5	HTTPS Interception app-site-association.cdn-
	> Apple Business Manager and Apple School Manager	9 🤞	apple.com:443
	> Software Update	5	
	> Apple ID	4 🤞	
	> App Store	4 🤞	
	> Content Caching	7	
	✓ Additional Content	10	
	App-site-association.cdn-apple.com:443		
	app-site-association.networking.apple:443		
	audiocontentdownload.apple.com:443	4	
	🚱 data.appattest.apple.com:443		
	🚱 devimages-cdn.apple.com:443		
	download.developer.apple.com:443	4	
	playgrounds-assets-cdn.apple.com:443	4	
	playgrounds-cdn.apple.com:443	4	
	sylvan.apple.com:443	4	
	www.apple.com:443	4	
	> Feedback Assistant	3 🤞	
G Filter	> DNS Resolution	1	
	> Apple Diagnostics	1 🧸	

TLS Inspection and Apple's SSO Framework

- Trust but Verify check if TLS Inspection is occurring on your Macs:
 - Use Mac Evaluation Utility from AppleSeed for IT
- \cdot Can also check with systiagnose:
 - sudo sysdiagnose -f ~/Desktop/
 - $\cdot\,$ Open the system_logs.logarchive file.
 - Search for com.apple.appsso and change the filter to SUBSYSTEM

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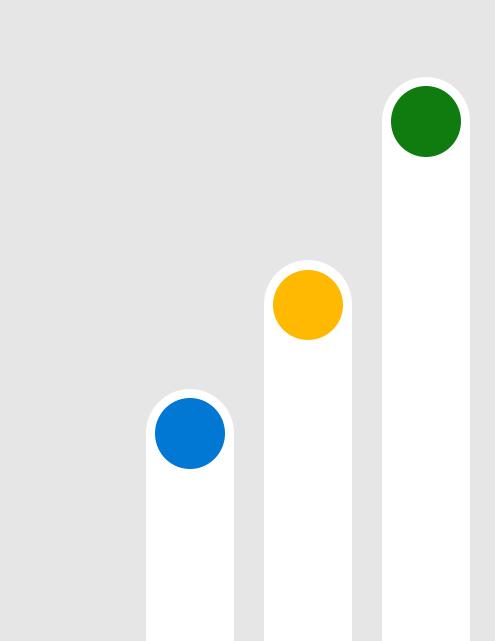
Best Practices

- 1. Deploy Secure Enclave Key
- 2. Align password management for macOS
- 3. Enable Recommended MDM configs
- 4. Understand hardware-bound device identity impacts
- 5. Follow Apple's TLS Guidance
- 6. Use the Troubleshooting Guides

Troubleshooting Guides

- \cdot "PSSO isn't working. Has anyone seen this before?"...YES!
 - Have we seen your specific issue before? Maybe
- · Leverage the troubleshooting guides
 - Enterprise SSO: <u>aka.ms/AppleSSOTSG</u>
 - Platform SSO: <u>aka.ms/PSSOTSG</u>
- · Be SPECIFIC
 - · Which credential? Password/Smart Card/Secure Enclave
 - Which OS? Ventura/Sonoma/Sequoia
 - Which MDM? Intune/Jamf/etc.
 - $\cdot\,$ Does that MDM support this?
 - Where do you differ from the recommended config?
 - $\cdot\,$ What do the guides lead you to believe the issue is?
 - Do you have a support case open?

Platform SSO FundamentalsDeployment Best PracticesAuthentication Strengths FeedbackGo Do's!



Auth Strengths Option 1

View Authentication Strength

• Pros

- Quicker time to PSSO General Availability (already works this way in Public Preview)
- Cons
 - Lack of per-OS granularity between Windows and macOS
 - Microsoft may still make changes in the future and split the "overloaded authentication flow"
 - May or may not require administrator action

Name Type Description

Authentication Flows

Phishing-resistant MFA

Built-in

Include authentication methods that are phishingresistant like Passkeys (FIDO2) and Windows Hello for Business

Windows Hello For Business // mac



 \times

OR

Passkeys (FIDO2)

OR

Certificate-based Authentication (Multifactor)

Auth Strengths Option 2

View Authentication Strength

• Pros

- Better per-OS granularity
- Future-proof, no changes required down the road
- Cons
 - Longer time to PSSO General Availability

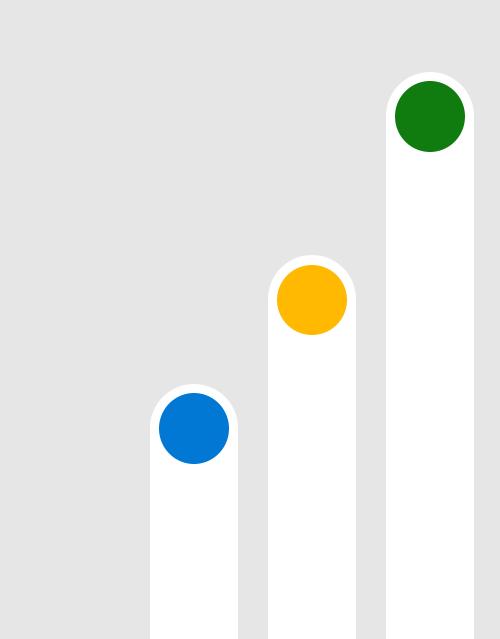
Name	Phishing-resistant MFA
Туре	Built-in
Description	Include authentication methods that are phishing- resistant like Passkeys (FIDO2) and Windows Hello for Business
Authentication Flows	Windows Hello For Business
	OR
	Passkeys (FIDO2)
	OR

Certificate-based Authentication (Multifactor)





Platform SSO Fundamentals Deployment Best Practices Authentication Strengths Feedback Go Do's!



Go Do's!

- \cdot Understand how PSSO works and you meet the pre-reqs
- Deploy Secure Enclave whenever possible
- · Align your password management policy
- Understand hardware-bound device identity impacts, deploy Chrome extension if needed
- · Prepare to enforce with Conditional Access Authentication Strengths
- Continue to provide feedback to Microsoft, Apple, and your MDM provider
 - We try to watch the #Microsoft-entra channel on MacAdmins Slack and Microsoft Mac Admins on LinkedIn (<u>aka.ms/MacAdmins</u>)





Q&A

https://bit.ly/psumac-2024-39

