Introduction to Modern Device Management

May 2025

@directorcia

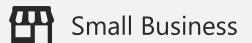
http://about.me/ciaops

Why manage devices?

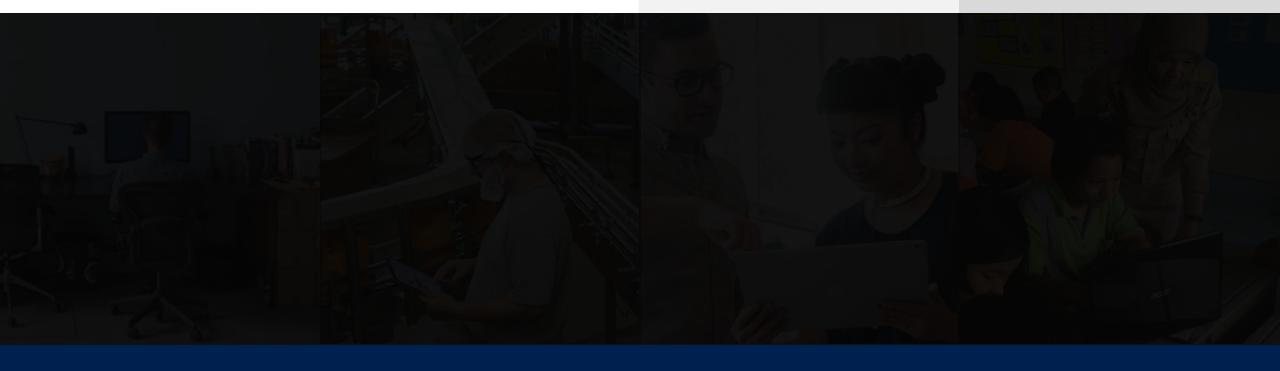
- PCs no longer dominate
- Devices provide access to corporate information
- Devices do not generally remain in one location
- Devices typically contain personal and corporate data
- Device are now being targeted by attackers (aka Flubot)
- Device are at more risk (stolen, unauthorised access, shared, etc)

M365 Flexible Device Management for all Organizations & Users









Knowledge Workers

Productive on company-owned and personal devices

Firstline Workers

Productive on shared/Kiosk devices

SMB Employee

Productive personal devices

Simplified admin experience in

Teachers / Students

Productive on lab or school devices Grouped based on classes/labs/carts Customized console, policies for EDU

Intune in Microsoft 365 F1

Microsoft 365 Business powered by Intune

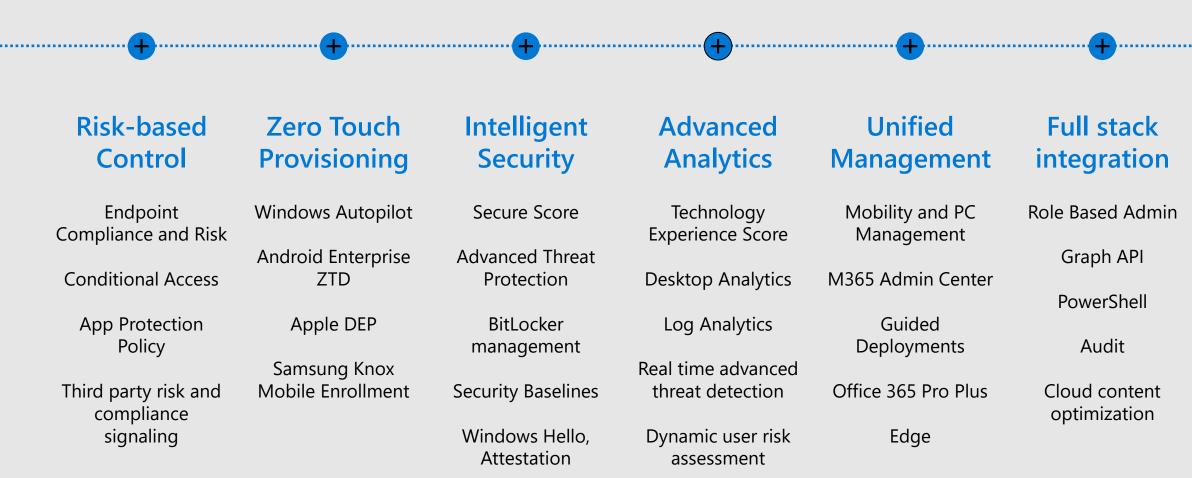
Intune for Education in Microsoft 365 Education

Intune and ConfigManager in Microsoft 365 Enterprise

Cloud powered endpoint management



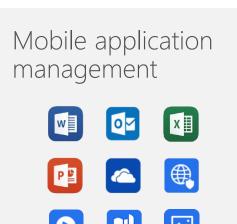




Enterprise mobility management with Intune









Microsoft Intune

Intune helps organizations provide their employees with access to corporate applications, data, and resources from virtually anywhere on almost any device, while helping to keep corporate information secure.

Microsoft Intune



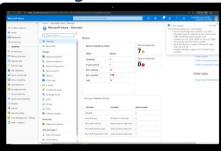
Cloud infrastructure Mobility Management PC management Security Admin

Configuration Manager



Intelligent edge for cloud infra On premises infrastructure PC Management

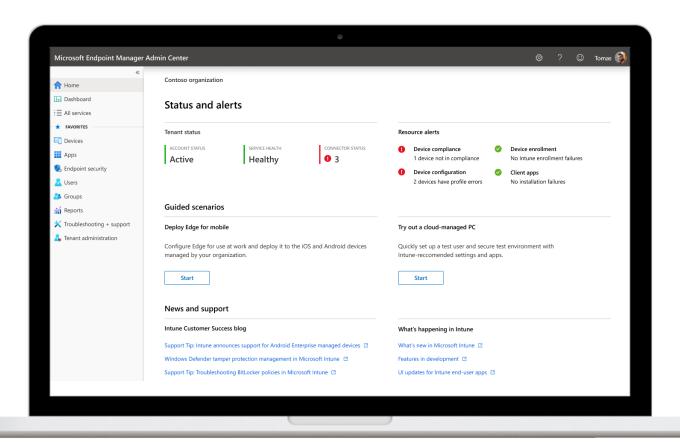
Other Endpoint Management Tools



Desktop Analytics Autopilot and more

Integrated solution for IT admins to understand and take action across all endpoints in their estate

Microsoft Endpoint Manager



Microsoft Intune admin center Dashboard V 1 Home Private dashboard Dashboard + New dashboard ∨ 🖰 Refresh 🗸 Full screen | 🖉 Edit 🛂 Export ∨ 🖺 Clone 📋 Delete All services Devices Device enrollment Device configuration Welcome to the Microsoft Intune admin center Device compliance Create policies in Intune Microsoft Intune gives you easy access to device and client app management Apps that devices must follow to capabilities from the cloud. It enables secure productivity across all of your device stay compliant Endpoint security types, including Windows, iOS, macOS, and Android. In Microsoft Intune you can: OK 💿 OK o Reports No Intune enrollment No policies with error Enroll and configure your devices or conflict failures last 7 days · Upload and distribute your apps Create polici... Users · Protect your organization's data · Cloud-enable computers enrolled with Configuration Manager Groups This tile has been deprecated. Please remove this tile from Monitor and troubleshoot your deployments Client apps vour dashboard. Tenant administration **Tutorials and articles** X Troubleshooting + support Learn about Microsoft Intune admin center OK o Get your device enrolled Get started with cloud-based mobility management No installation failures Please delete this tile Intune enrolled devices Device compliance status LAST UPDATED 5/09/25, 4:24 PM Platform Devices Status Devices Linux

0 No results 0 Android iOS/iPadOS 0 Enroll devices to view insights 0 macOS 0 Windows Windows Mobile 0

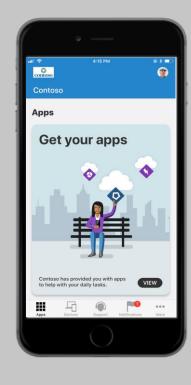
Total

0

This pinned part on the dashboard refers to a resource type or service that is deprecated. Please remove this part from the dashboard.

iOS deployment scenarios







BYOD

iOS app managed

- Data protection at the app level
- App protection without full device management

iOS device managed

- User-based enrollment via Company Portal
- Push Apps and policies
- Device based Compliance

- Apple Corporate programs like VPP, DEP, ASM
- Supervised mode with for controls
- Secure locked down devices: Kiosk, Classroom
- Lock management profile to a device

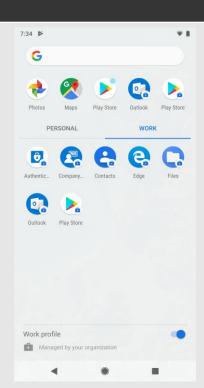
Android deployment scenarios

BYOD

Intune App Protection
Without Enrollment



AE Work Profile



Corp Owned

AE Dedicated (kiosk)



AE Fully managed



macOS deployment scenarios



Intune managed

Basic platform MDM management. Ideal for:

- Scoped/modern management needs for corp owned devices
- Deploying certs, pw configuration, apps
- Limiting access to compliant Macs
- Protection with device wipe, encryption

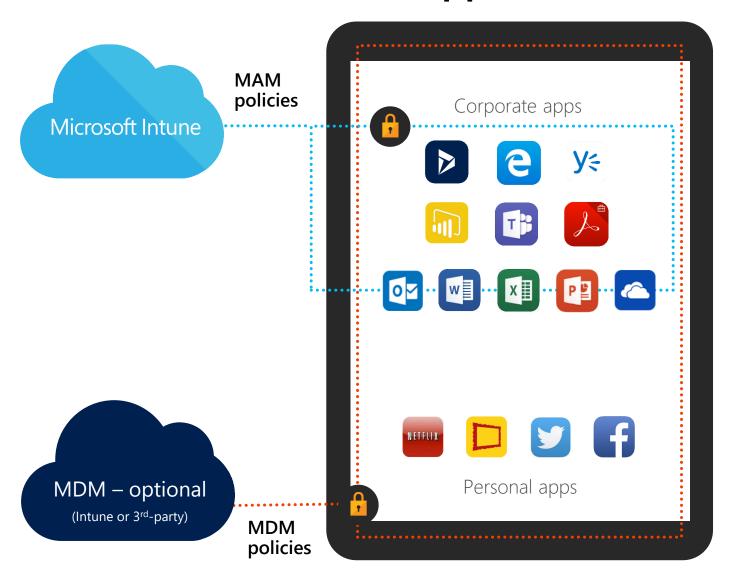


Jamf managed, Intune compliant

Advanced MDM management. Ideal for:

- Extensive inventory
- Depth of security controls
- Self Service app catalog & End user controls
- Limiting access to compliant Macs
- Scripting

Introduction to Intune App Protection Policies (APP)



Familiar Office experience

- Seamless "enrollment" into app management
- Use for personal and corporate accounts

Comprehensive protection

- App encryption at rest
- App access control PIN or credentials
- Save as/copy/paste restrictions
- App-level selective wipe

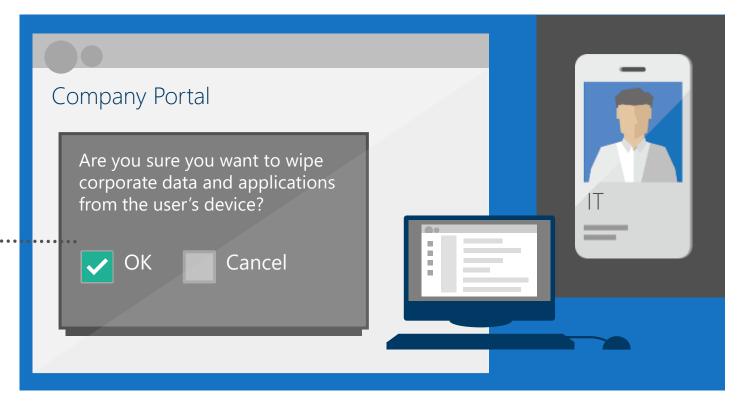
MDM mgmt. by Intune or third-party is optional

Might be a good solution for these scenarios:

- BYOD when MDM is not required
- Extending app access to vendors and partners
- Already have an existing MDM solution

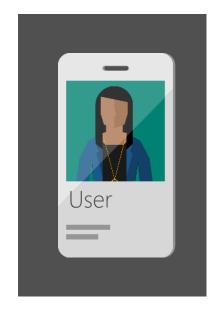
Selective wipe

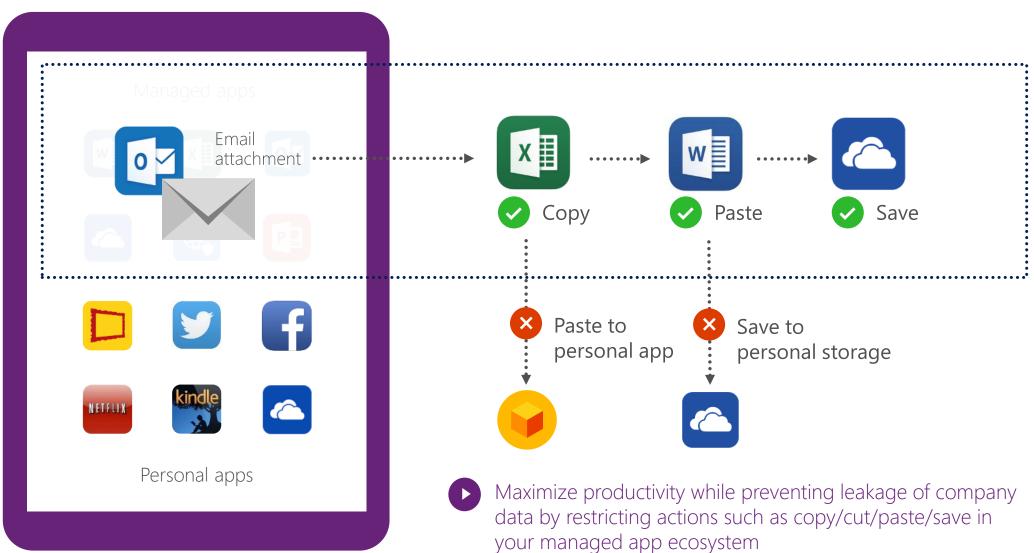




- Perform selective wipe via self-service company portal or admin console
- Remove managed apps and data
- Keep personal apps and data intact

Mobile application management





Mobile application management policies



Enforce corporate data access requirements



Prevent data leakage on the device



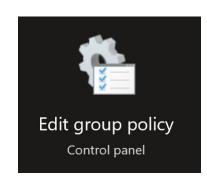
Enforce encryption of app data at rest



App-level selective wipe

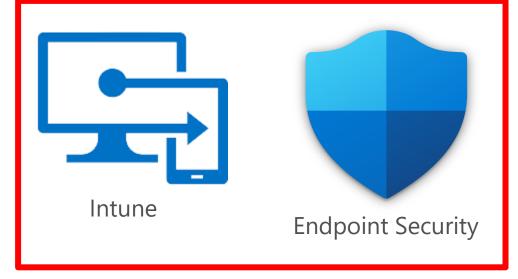
Ways to get policies on Windows devices





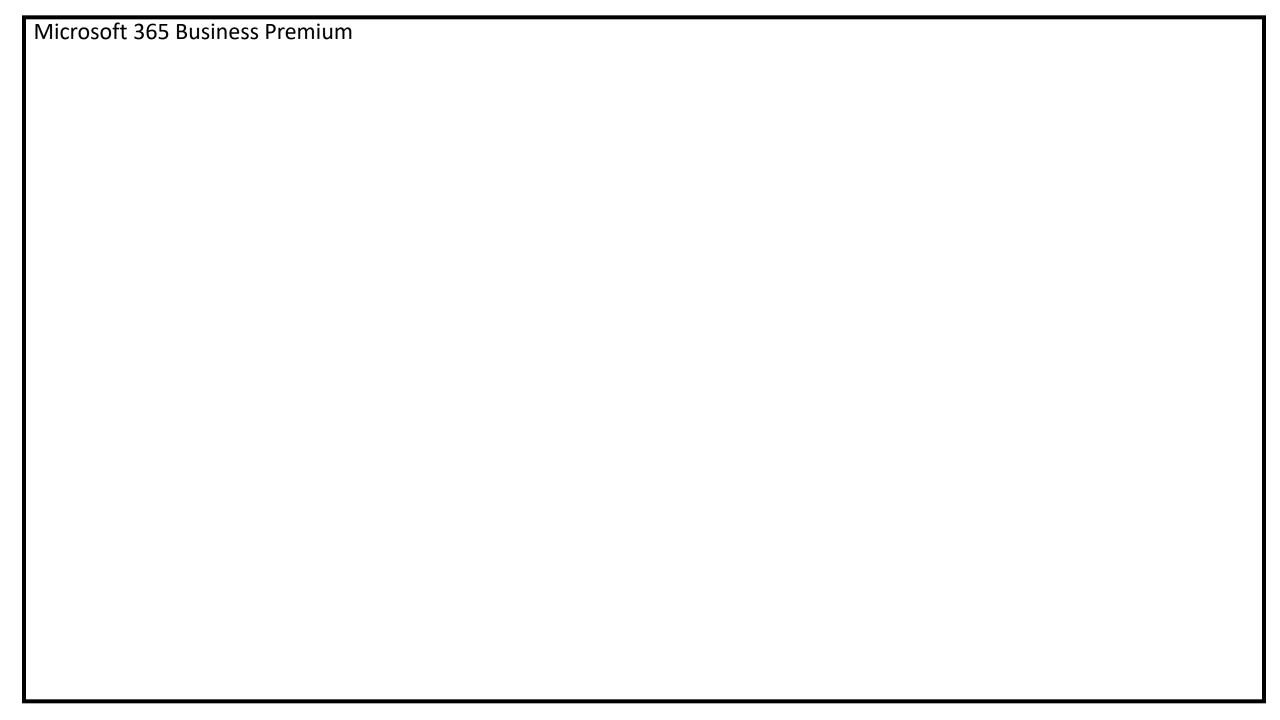


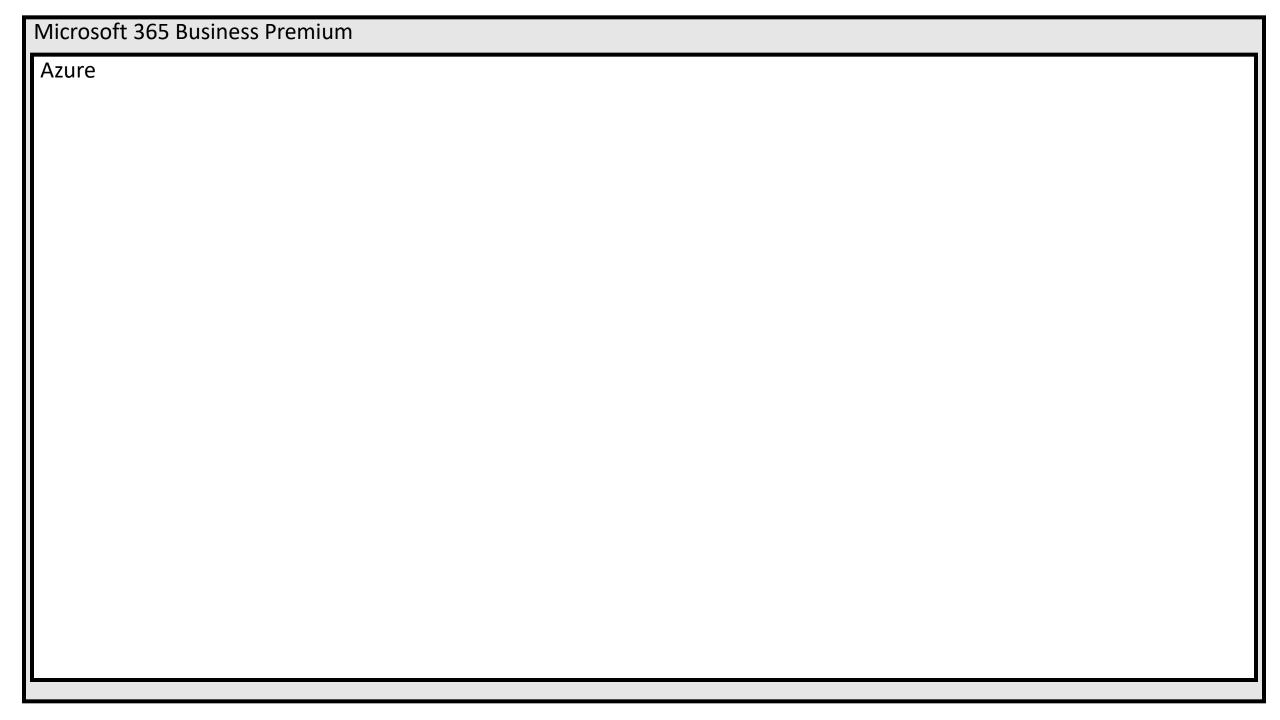
Endpoint Manager

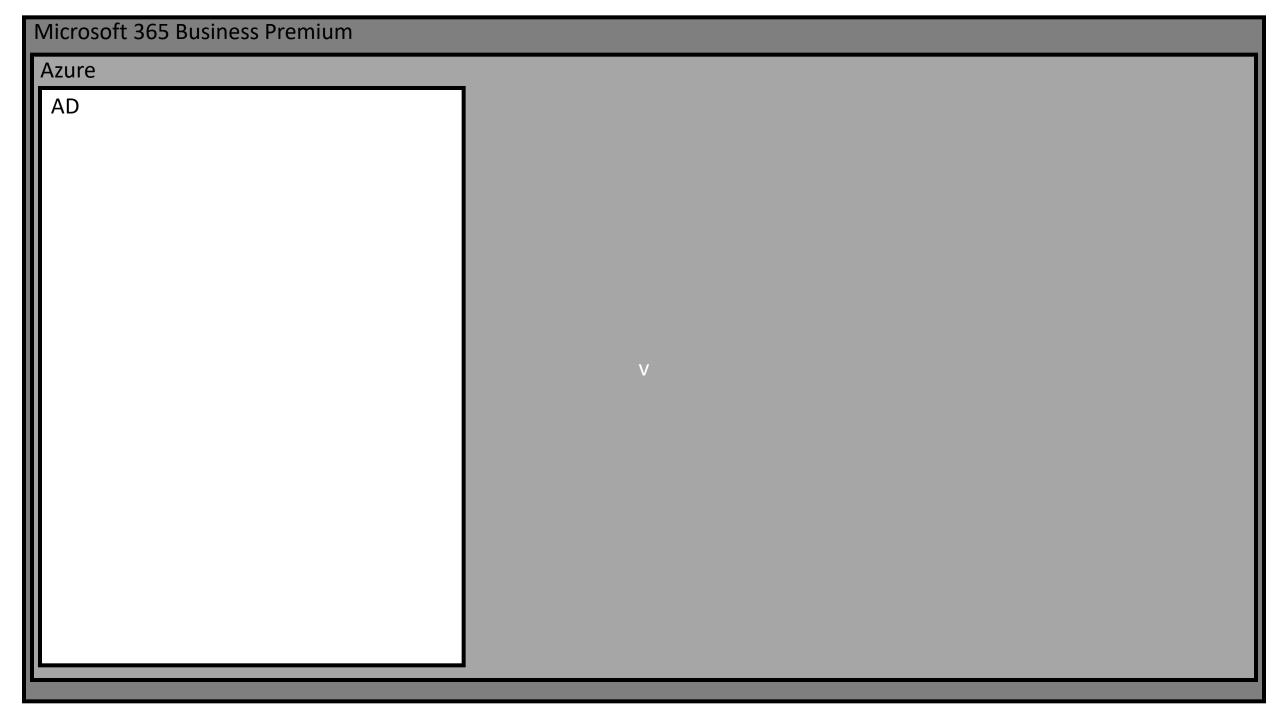


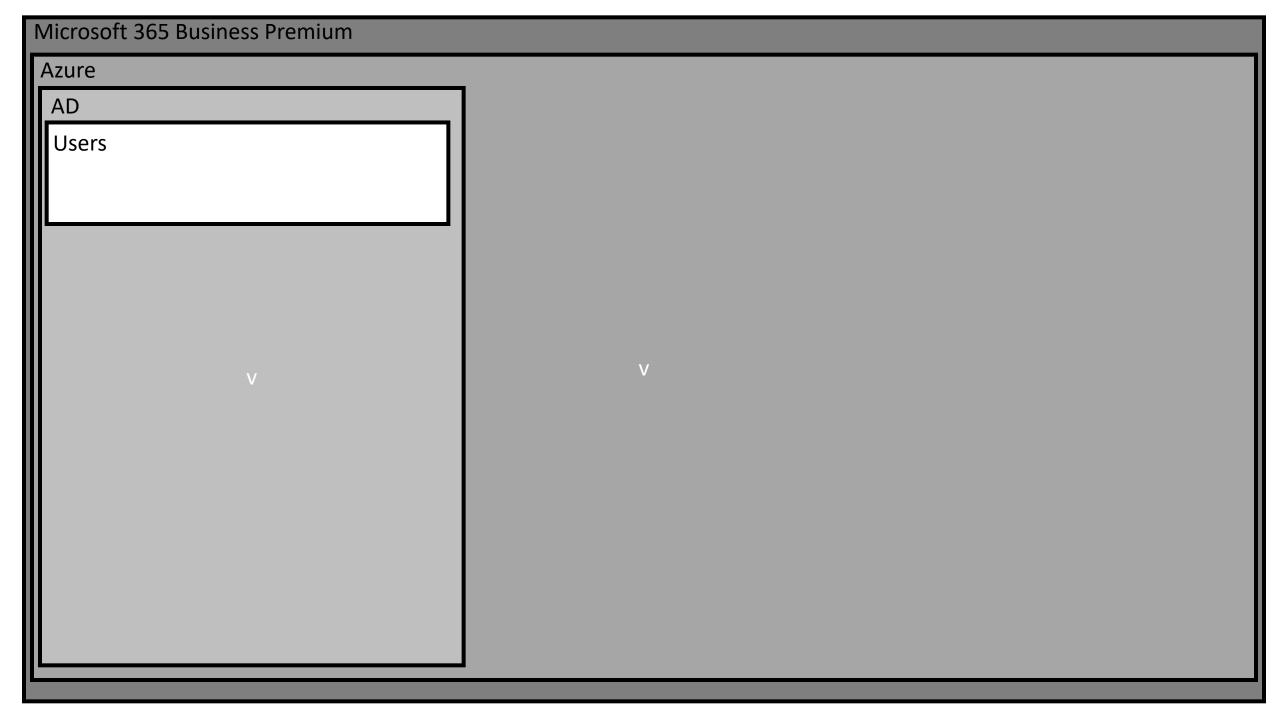


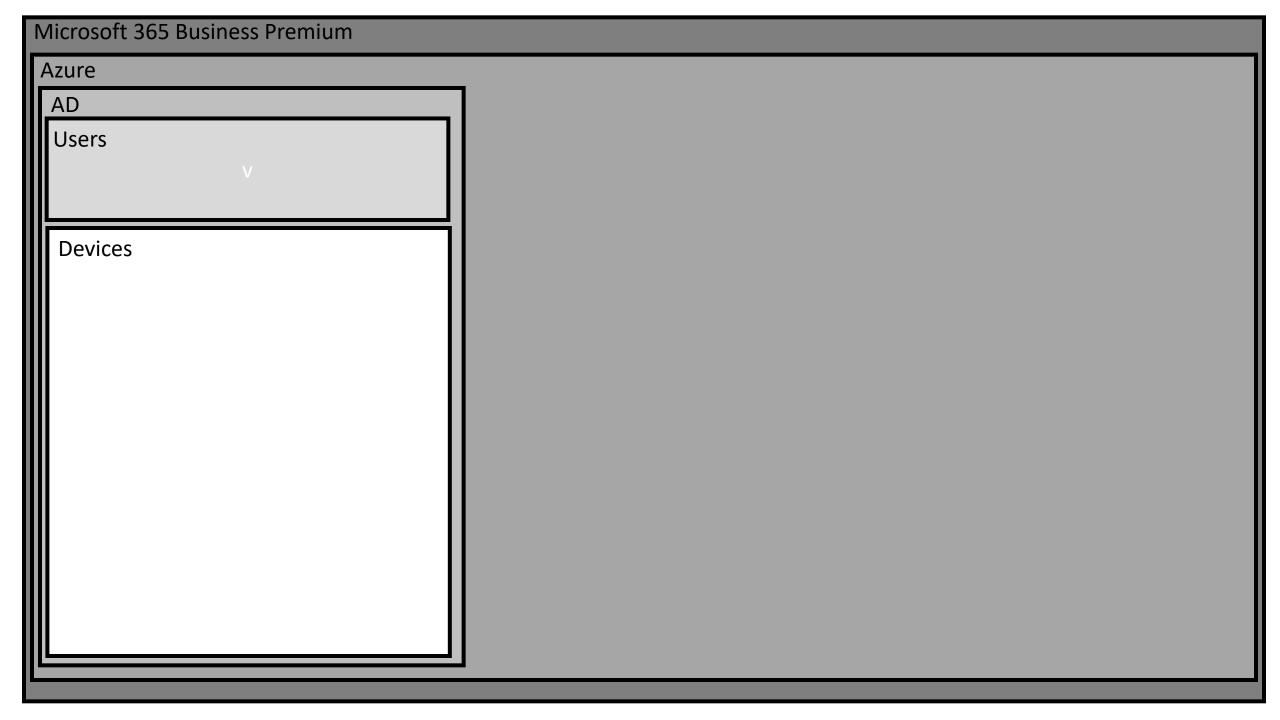
Microsoft 365 Business Premium Azure AD **Endpoint Manager** Users Security Intune Groups Antivirus Devices Compliance | Configuration Enrolment Disk Devices Encryption Joined Firewall No MAM Compliance = Office 365 MDM = Office 365 Mobile devices Detection Ease of resource access And Apps Registered Response No MAM Protection Configuration No Compliance **ASR** No MDM Ease of resource access Account Stand Alone Protection No MAM No Compliance No MDM











Microsoft 365 Business Premium Azure AD Users Devices Stand Alone No MAM No Compliance No MDM

Microsoft 365 Business Premium Azure AD Users Devices Registered No MAM Some Compliance No MDM Local device authentication Stand Alone No MAM No Compliance No MDM





Dashboard > CIAOPS



Overview Getting started Preview hub Diagnose and solve problems

Manage

- Users
- Groups
- **External Identities**
- Roles and administrators
- Administrative units
- Enterprise applications
- Devices
- App registrations
- Identity Governance
- Application proxy
- licenses

Switch tenant Delete tenant + Create a tenant What's new Preview features

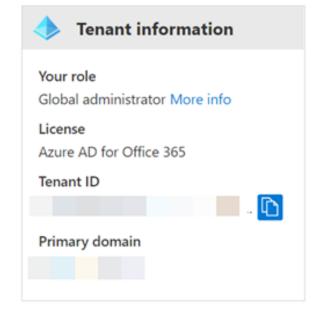
Got feedback?

Azure Active Directory can help you enable remote work for your employees and partners. Learn more

CIAOPS

Sian-ins

Search your tenant





Status

Not enabled

Last sync

Sync has never run

Dashboard > CIAOPS > Devices



DESKTOP-T32S2...

Yes

Windows

Delete 🔯 Manage ↓ Download devices (Preview) ○ Refresh EE Columns >> Preview features Got feedback? Compared to the state of th + Add filters p d Name Enabled OS Version Join Type MDM Compliant Owner demo-desktop Yes Windows Windows 10 Azure AD registered Lewis Collins N/A None Yes demo-desktop Windows Windows 10 Azure AD registered N/A Lewis Collins None O Yes demo-deskadmin Windows Windows 10 Azure AD registered Robert Crane None N/A

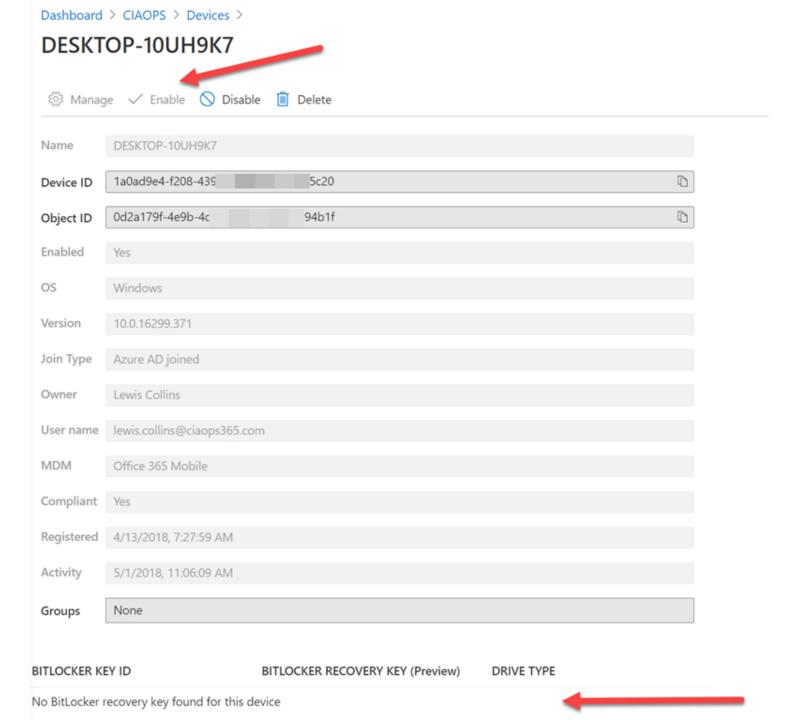
Azure AD joined

Lewis Collins

None

N/A

Windows 10



Basic Device Management Resources

- Register your personal device on your organization's network
- Entra registered devices
- Join your work device to your organization's network
- Entra joined devices
- Set Up Basic Mobility and Security
- Create device security policies in Basic Mobility and Security

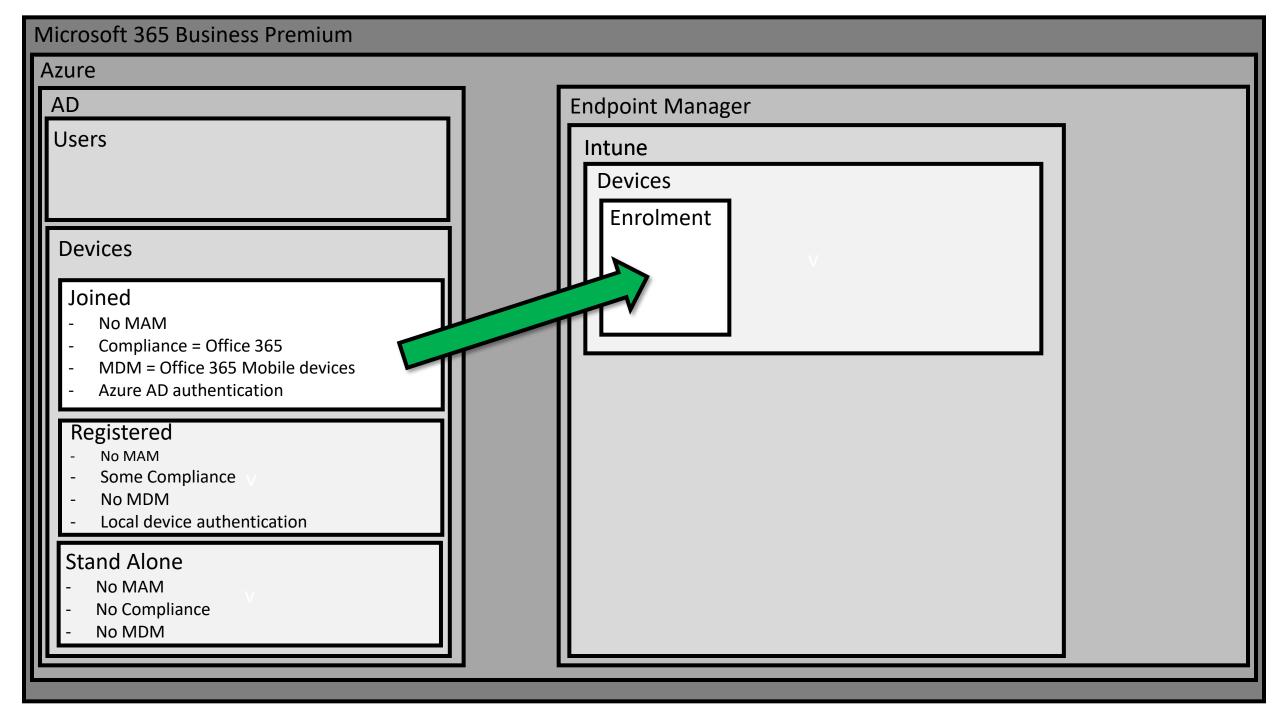
Microsoft 365 Business Premium Azure AD Users Devices Joined No MAM Compliance = Office 365 MDM = Office 365 Mobile devices Azure AD authentication Registered No MAM Some Compliance No MDM Local device authentication Stand Alone No MAM No Compliance No MDM

Microsoft 365 Business Premium Azure AD **Endpoint Manager** Users Devices Joined No MAM Compliance = Office 365 MDM = Office 365 Mobile devices Azure AD authentication Registered No MAM Some Compliance No MDM Local device authentication Stand Alone No MAM No Compliance No MDM

Microsoft 365 Business Premium Azure AD **Endpoint Manager** Users Intune Devices Joined No MAM Compliance = Office 365 MDM = Office 365 Mobile devices Azure AD authentication Registered No MAM Some Compliance No MDM Local device authentication Stand Alone No MAM No Compliance No MDM

Microsoft 365 Business Premium Azure AD **Endpoint Manager** Users Intune Devices Devices Joined No MAM Compliance = Office 365 MDM = Office 365 Mobile devices Azure AD authentication Registered No MAM Some Compliance No MDM Local device authentication Stand Alone No MAM No Compliance No MDM

Microsoft 365 Business Premium Azure AD **Endpoint Manager** Users Intune Devices Enrolment Devices Joined No MAM Compliance = Office 365 MDM = Office 365 Mobile devices Azure AD authentication Registered No MAM Some Compliance No MDM Local device authentication Stand Alone No MAM No Compliance No MDM



Dashboard > CIAOPS

CIAOPS | Mobility (MDM and MAM)

Azure Active Directory



- Getting started
- Preview hub
- X Diagnose and solve problems

Manage

- Users
- Groups
- **External Identities**
- Roles and administrators
- Administrative units
- Enterprise applications
- Devices
- App registrations
- Identity Governance
- Application proxy
- Licenses
- Azure AD Connect
- Custom domain names
- Mobility (MDM and MAM)
 - Password reset

+ Add application

EE Columns

 $iggreateright{ \begin{tabular}{c} \end{tabular} \end{tabular}}$ Get a free Premium trial to use this feature ightarrow

Name



Microsoft Intune

Dashboard > CIAOPS >

Configure

Microsoft Intune





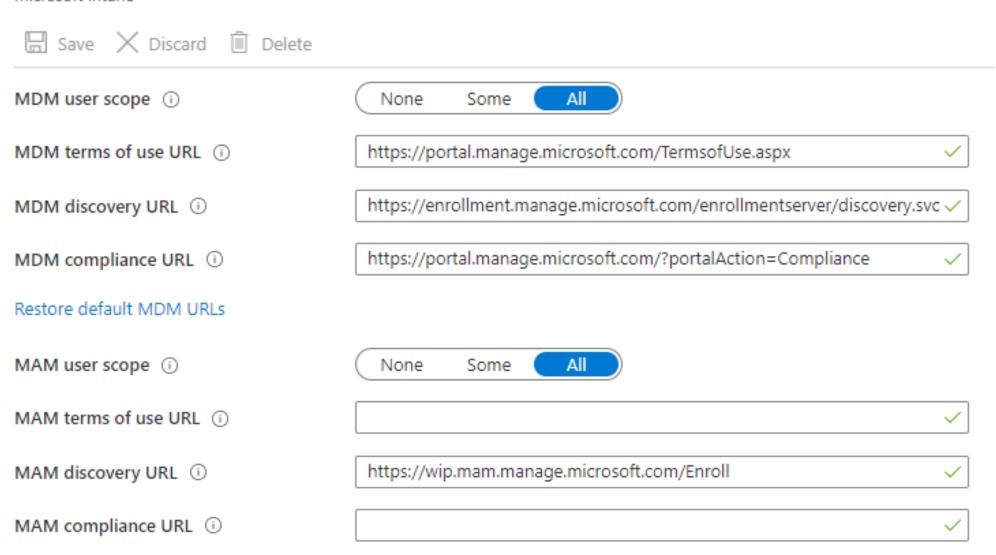


Automatic MDM enrollment is available only for Azure AD Premium subscribers.

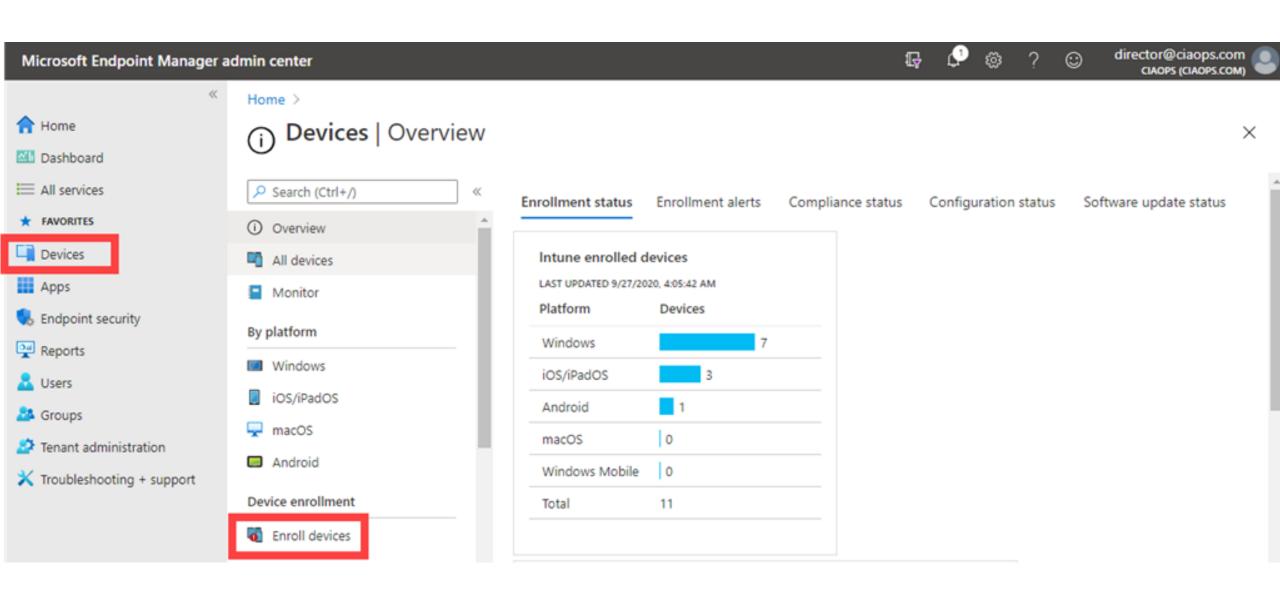
Home > CIAOPS >

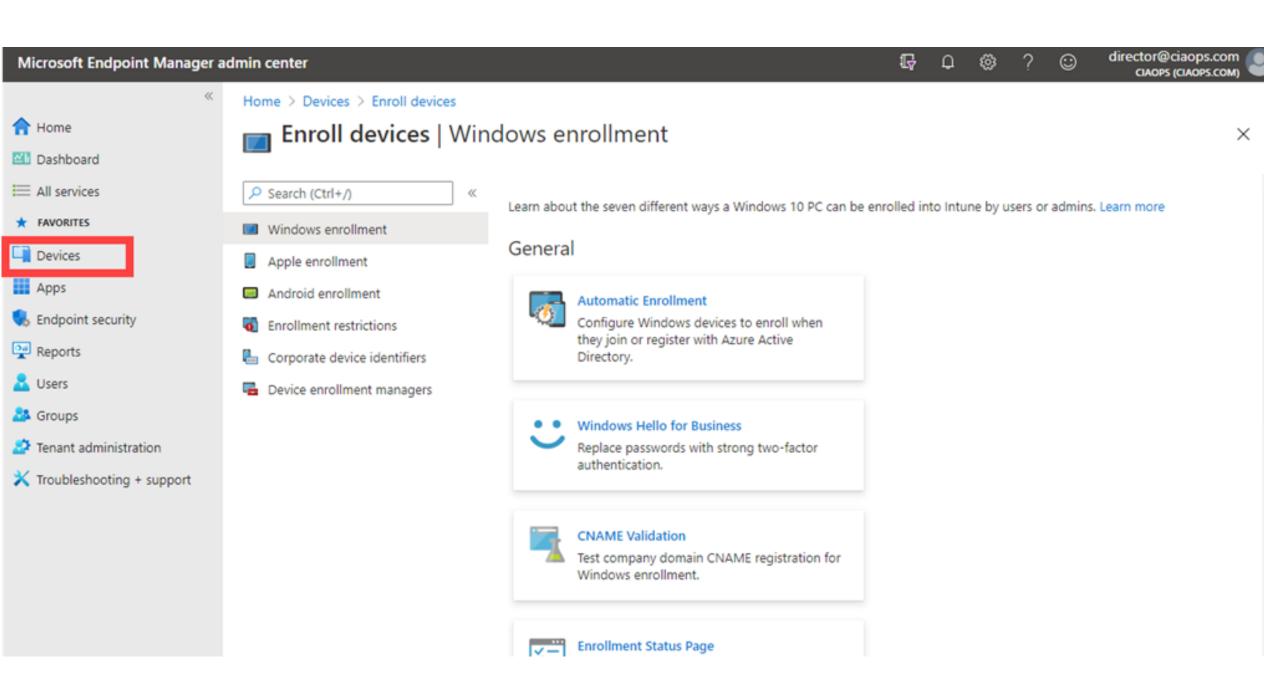
Configure

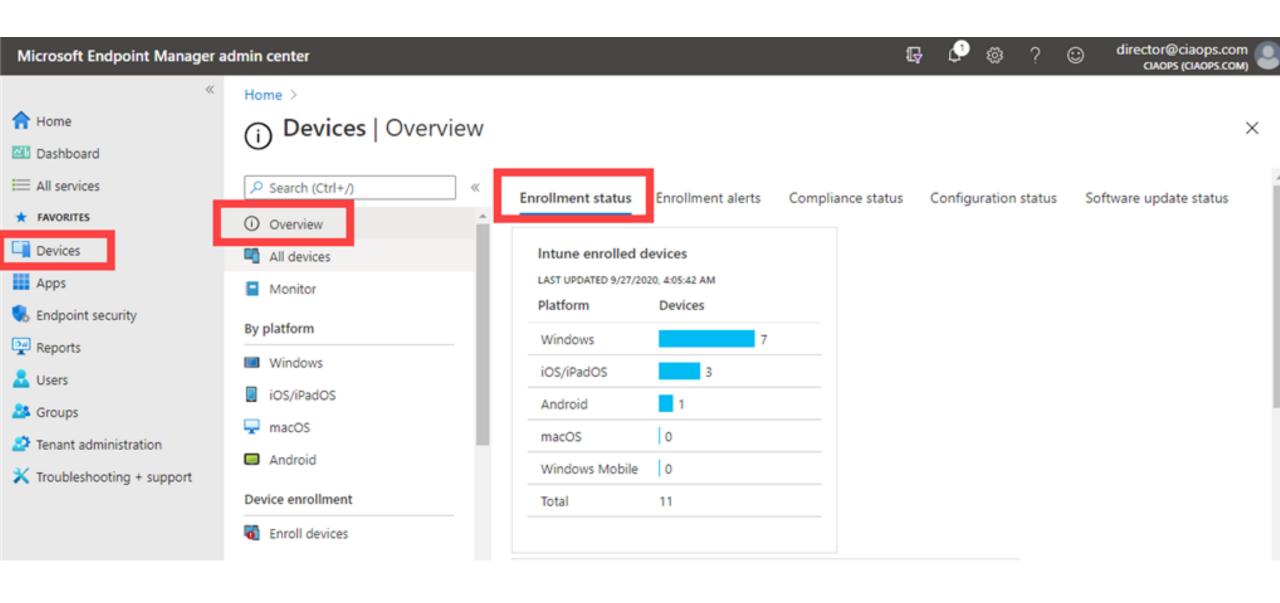
Microsoft Intune



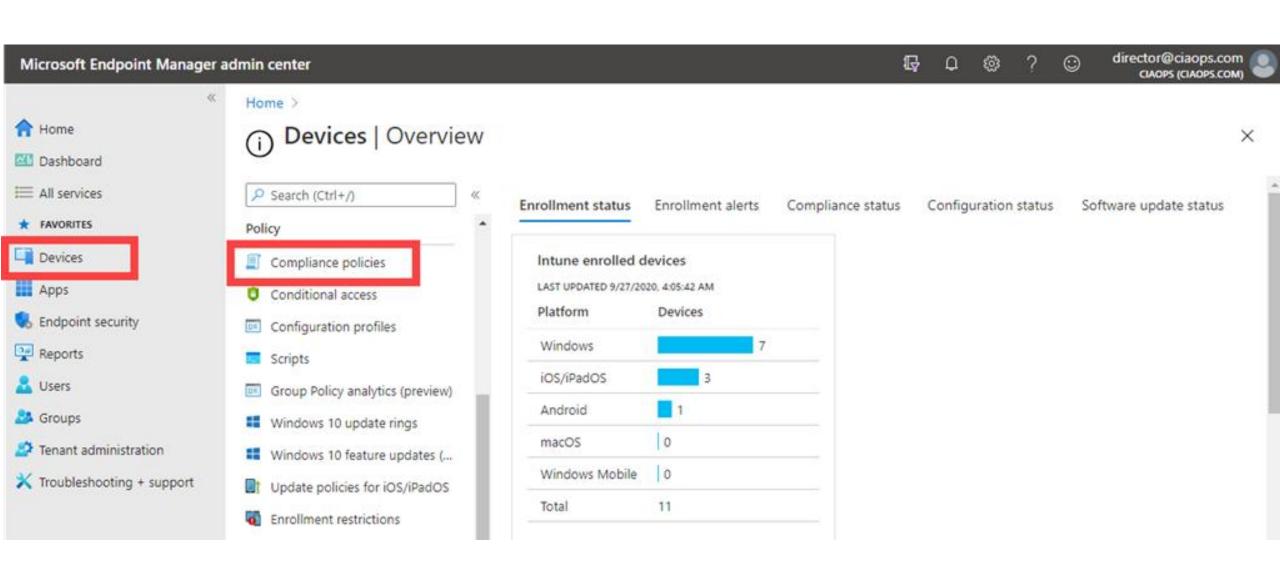
Restore default MAM URLs







Microsoft 365 Business Premium Azure AD **Endpoint Manager** Users Intune Devices Enrolment Compliance **Devices** Joined No MAM Compliance = Office 365 MDM = Office 365 Mobile devices Azure AD authentication Registered No MAM Some Compliance No MDM Local device authentication **Stand Alone** No MAM No Compliance No MDM



Home > Devices > Compliance policies



Compliance policies | Policies



- ⊞ Retire Noncompliant Devices
- Locations
- Compliance policy settings



1 One or more compliance policies for iOS/iPadOS have a configured Device Threat Level setting without an active Mobile Threat Defense connector.

X

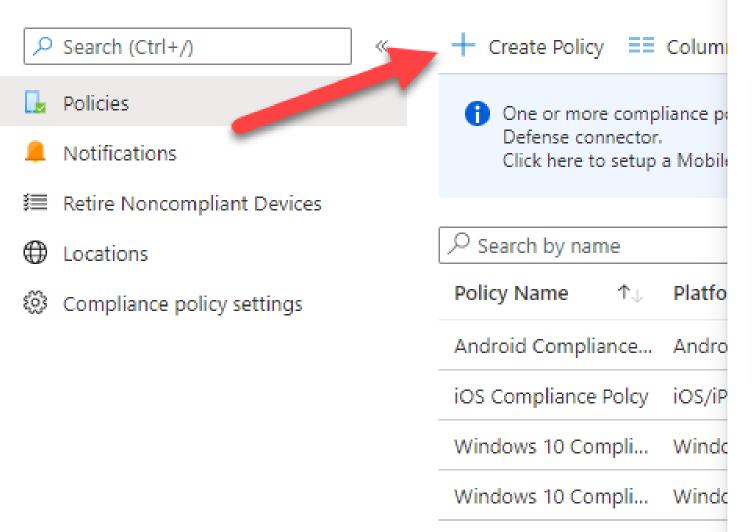
Click here to setup a Mobile Threat Defense connector for iOS/iPadOS.

Search by na	me									
Policy Name	\uparrow_{\downarrow}	Platform	\uparrow_{\downarrow}	Policy Type	$\uparrow\downarrow$	Assigned	↑↓	Last Modified	\uparrow_{\downarrow}	
Android Compliance		Android device admi		Android compliance pol		Yes		1/12/19, 9:50 AN	1	
iOS Compliance	Polcy	iOS/iPadOS		iOS compliance	policy	Yes		1/10/19, 10:47 P	М	
Windows 10 Co	mpli	Windows 10 a	and later	Windows 10 cor	mplianc	Yes		7/08/19, 12:52 P	М	•••
Windows 10 Co	mpli	Windows 10 a	ind later	Windows 10 cor	mplianc	Yes		7/20/20, 11:35 A	М	•••

Home > Devices > Compliance policies



Compliance policies | Policies



Create a policy

Platform

Select platform

Android device administrator

Android Enterprise

iOS/iPadOS

macOS

Windows 10 and later

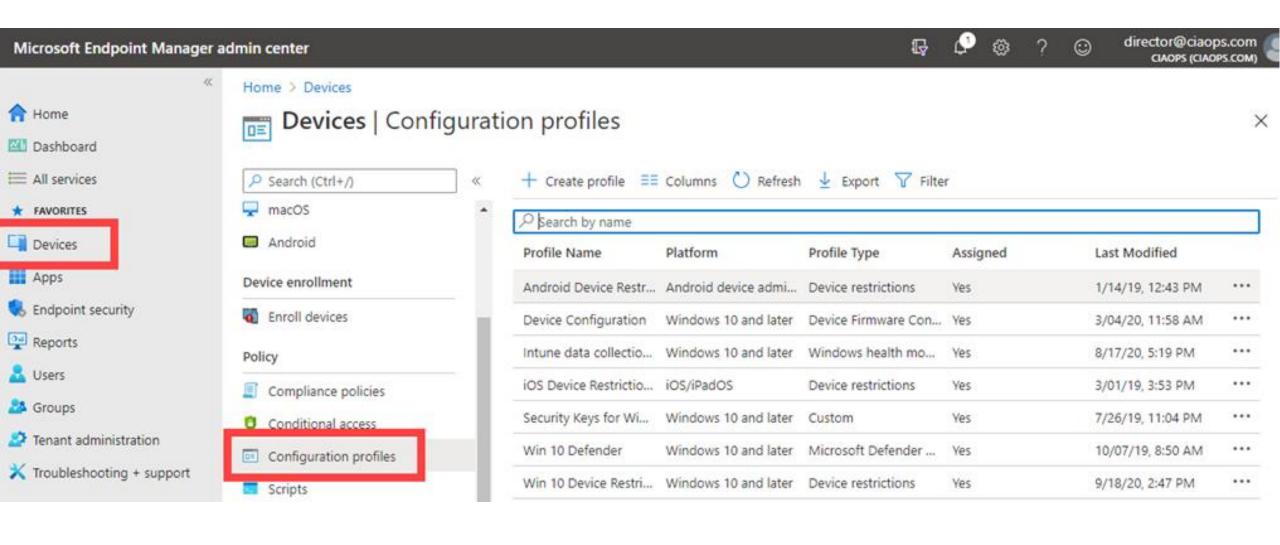
Windows 8.1 and later

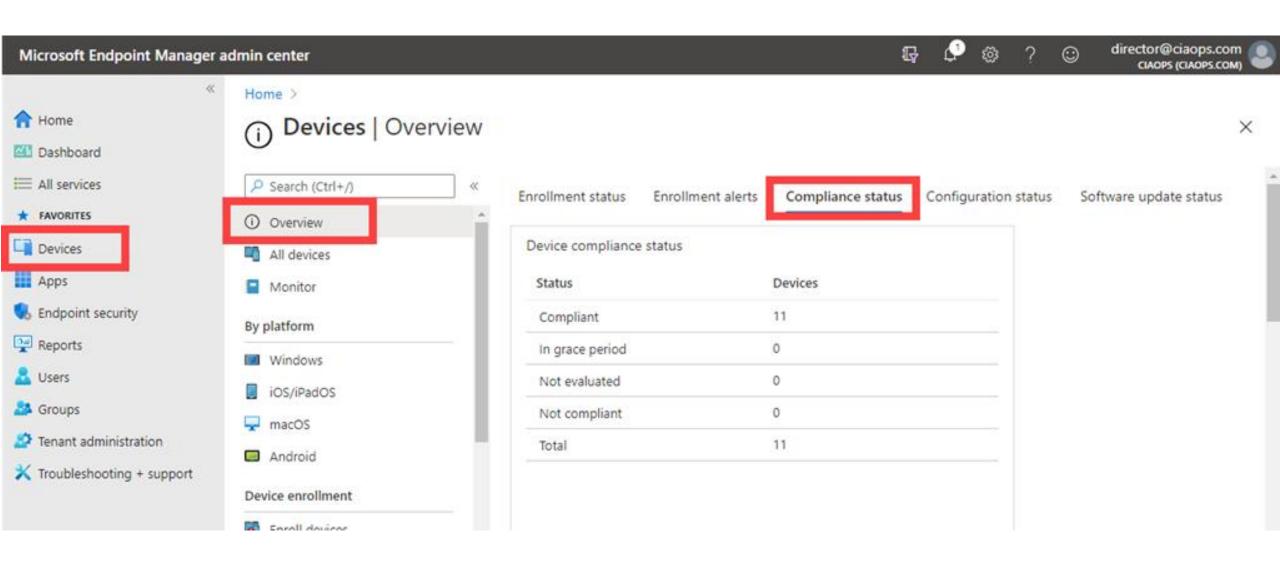
Windows 10 compliance policy

Windows 10 and later

Compliance settings Review + save △ Device Health Windows Health Attestation Service evaluation rules Require BitLocker ① Not configured Require Require Secure Boot to be enabled on the (Require Not configured device (i) Not configured Require code integrity ① Require Operating System Version ① Not configured Minimum OS version (i)

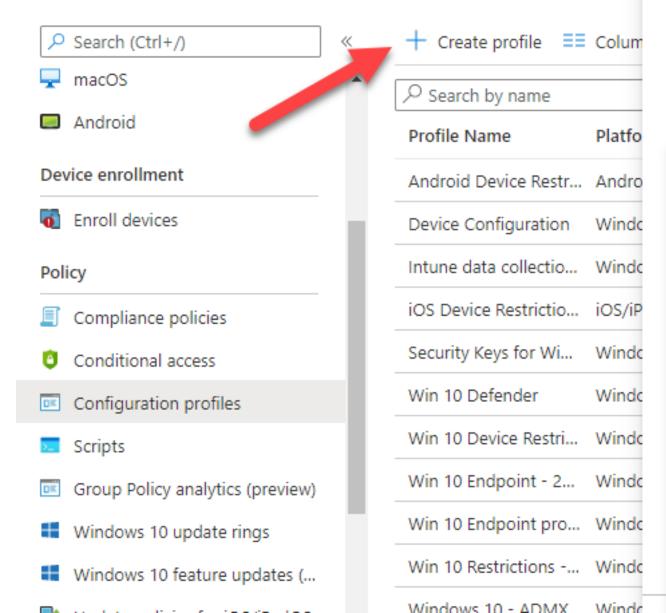
Microsoft 365 Business Premium Azure AD **Endpoint Manager** Users Intune Devices Enrolment Compliance Configuration **Devices** Joined No MAM Compliance = Office 365 MDM = Office 365 Mobile devices Azure AD authentication Registered No MAM Some Compliance No MDM Local device authentication **Stand Alone** No MAM No Compliance No MDM







Devices | Configuration profiles



Create a profile

Platform

Windows 10 and later

Profile

Select a profile

Administrative Templates

Custom

Delivery Optimization

Device Firmware Configuration Interface (preview)

Device restrictions

Device restrictions (Windows 10 Team)

Domain Join

Edition upgrade and mode switch

Email

Endpoint protection

Identity protection

Device restrictions

Android device administrator

Configuration settings 2 Review + save

✓ General

✓ Password

Restricted Apps

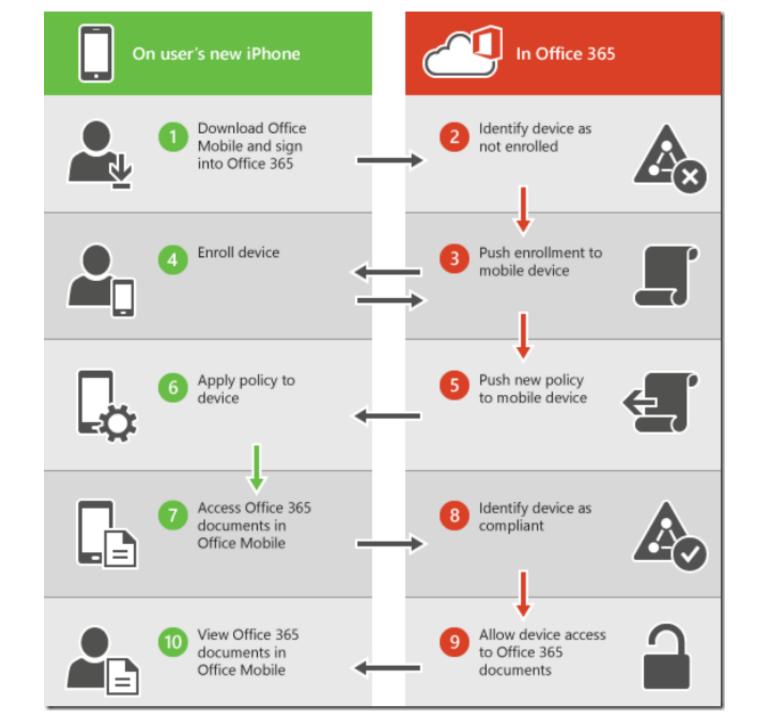
✓ Browser

Allow or Block apps

Cloud and Storage

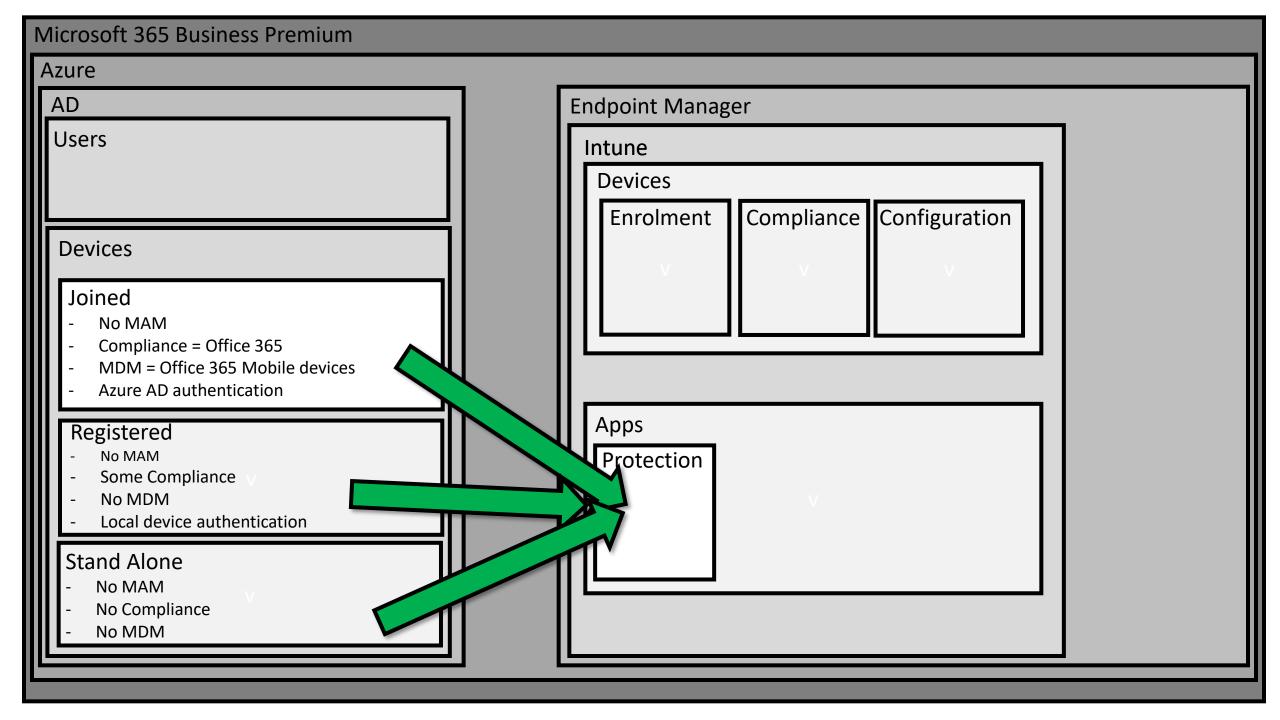
Cellular and connectivity

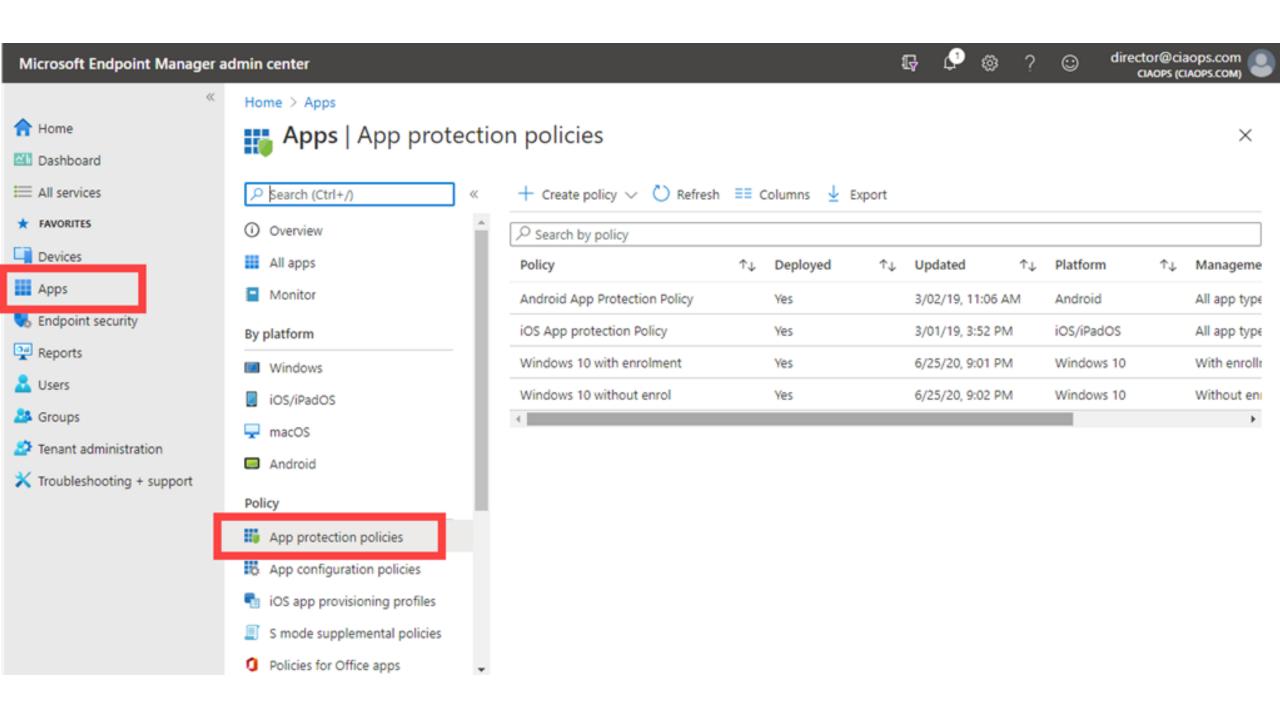
✓ Kiosk

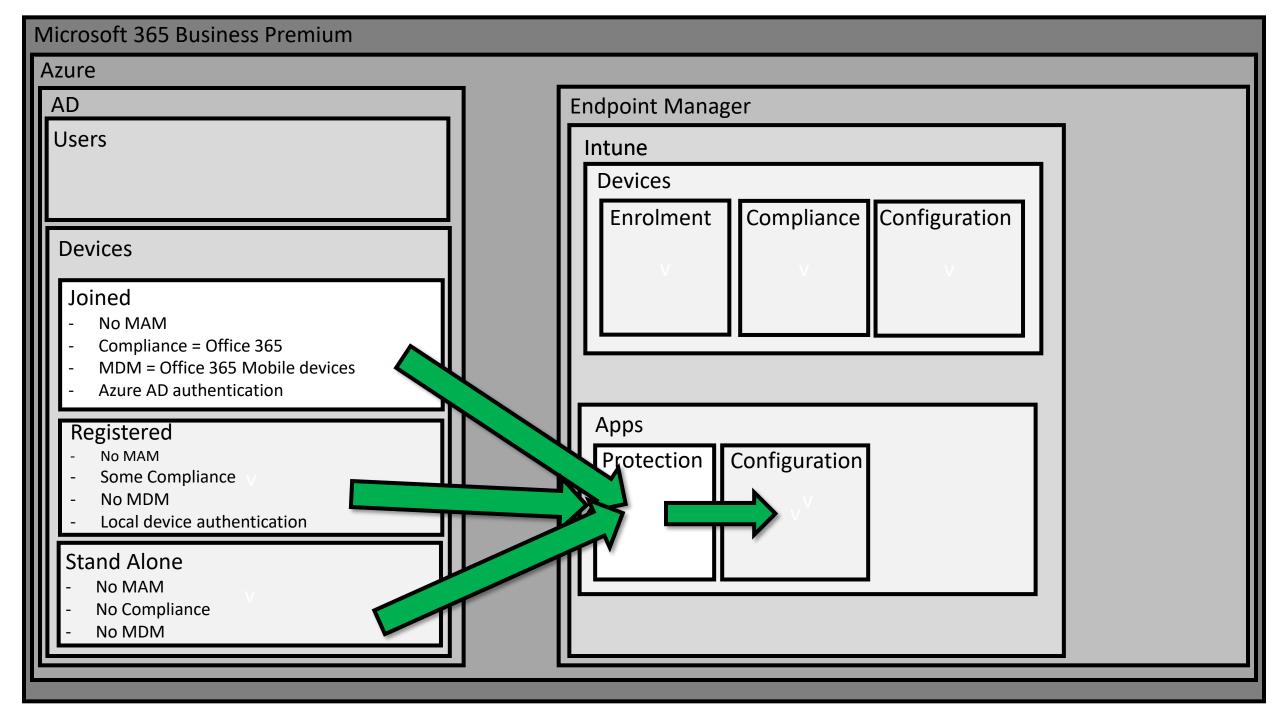


Intune Resources

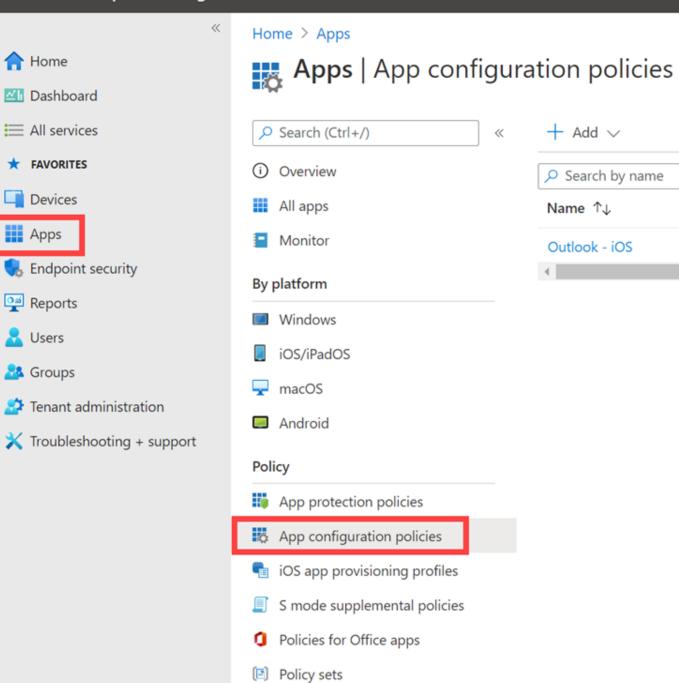
- Adding an Apple Certificate to Intune
- Use compliance policies to set rules for devices you manage with Intune
- Create a device profile in Microsoft Intune







Microsoft Endpoint Manager admin center



+ Add \

Name ↑↓

Outlook - iOS

Search by name

Platform ↑\

Create app configuration policy

✓ General configuration settings Outlook General app configuration Focused Inbox ○	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `
Outlook General app configuration Focused Inbox	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `
General app configuration Focused Inbox ① Not configured Require Biometrics to Access App ① Not configured Allow user to change setting ① Yes No Save Contacts ① Not configured Allow user to change setting ① Yes No External Recipients MailTip ① Not configured Block External Images ② Not configured Allow user to change setting ① Yes No Default App Signature ① Not configured Suggested Replies ① Not configured Allow user to change setting ① Yes No Organize mail by thread ② Not configured Play My Emails ① Not configured Not configured	~ ~ ~ ~
Require Biometrics to Access App ① Allow user to change setting ① External Recipients MailTip ① Not configured Block External Images ② Allow user to change setting ① Yes No Default App Signature ① Not configured Suggested Replies ① Allow user to change setting ① Yes No Organize mail by thread ② Not configured Discover Feed ② Not configured	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `
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Suggested Replies ① Not configured Allow user to change setting ② Yes No Organize mail by thread ③ Not configured Discover Feed ③ Not configured Play My Emails ① Not configured Native Calendar Sync ③ Not configured Smart compose Not configured	
Allow user to change setting Yes No Organize mail by thread Not configured Not configured Play My Emails Not configured Not configured Not configured Not configured Not configured Not configured	~
Organize mail by thread Not configured	~
Discover Feed Not configured	=
Play My Emails ① Not configured Native Calendar Sync ② Not configured Smart compose Not configured	~
Native Calendar Sync Not configured Not configured	~
Smart compose Not configured	~
	~
Data Protection configuration	~
Org Data on Wearables ① Not configured	~
Calendar Notifications ① Not configured Allowed	
Sync contact fields to native contacts app configuration	
Address ① Not configured	~
Birthday ○ Not configured	
Company ① Not configured	~
Department ① Not configured	~

Microsoft 365 Business Premium

Azure

AD

Users

Devices

Joined

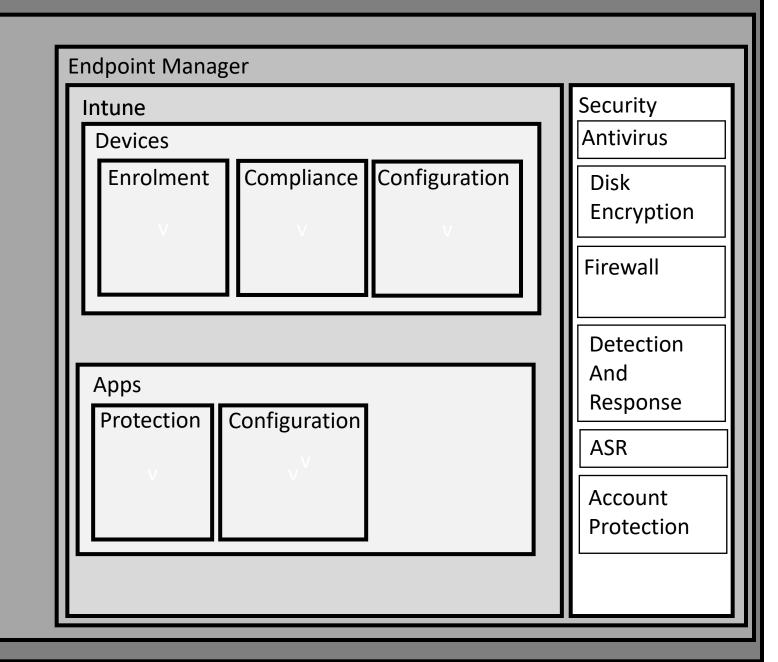
- No MAM
- Compliance = Office 365
- MDM = Office 365 Mobile devices
- Azure AD authentication

Registered

- No MAM
- Some Compliance
- No MDM
- Local Device authentication

Stand Alone

- No MAM
- No Compliance
- No MDM



Endpoint Security at a glance



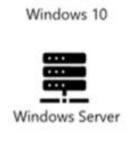




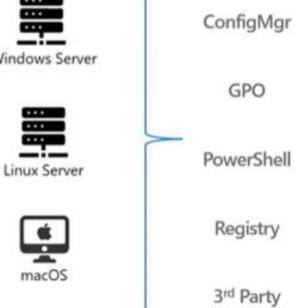


Detection &

Response



Mobile



Intune

Management

Solutions









Account protection

Help and support

Help and support

X

Home > Endpoint security

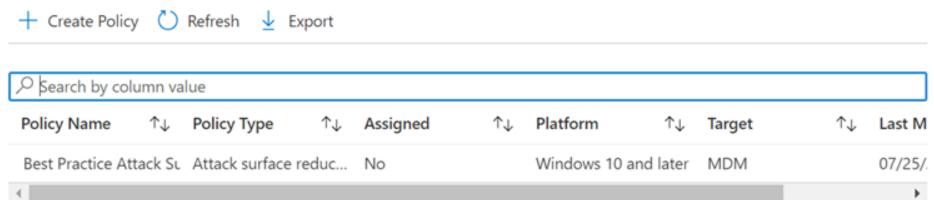


Endpoint security | Attack surface reduction





- Security baselinesSecurity tasks
- Manage
- Antivirus
- Disk encryption
- Firewall
- Endpoint detection and response
- Attack surface reduction
- Account protection

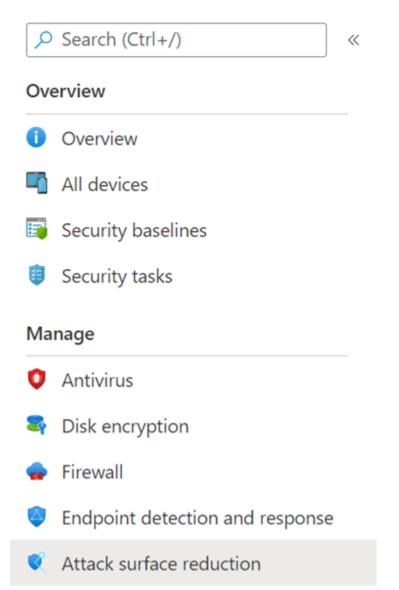


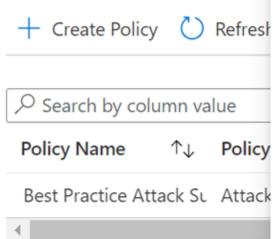
Home > Endpoint security

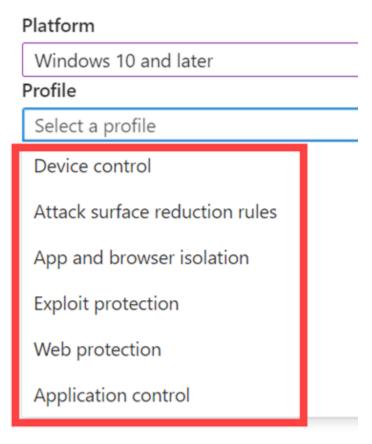


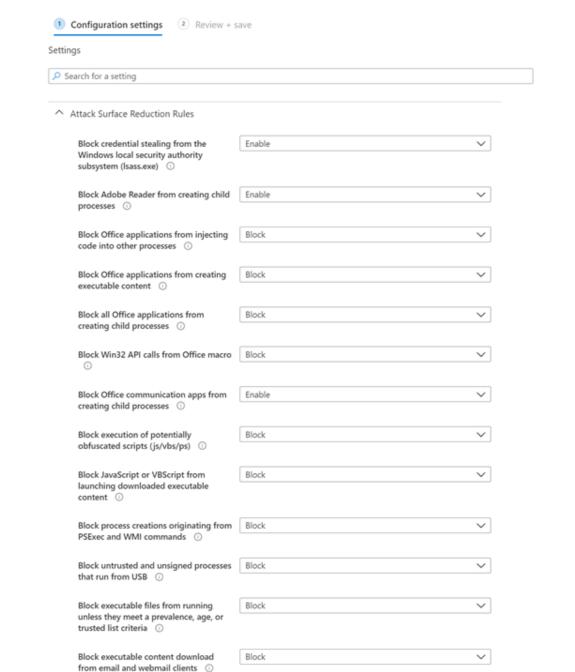


Endpoint security | Attack surface redu







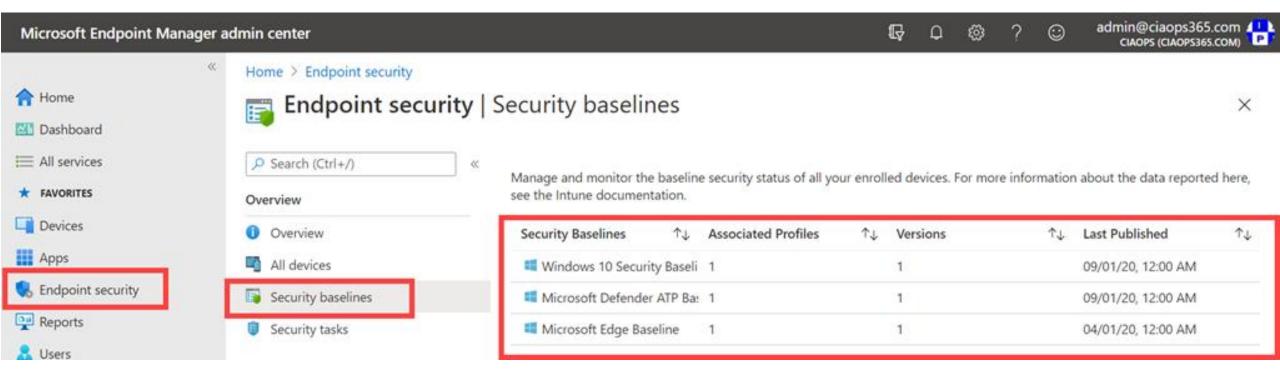


Enable

 \vee

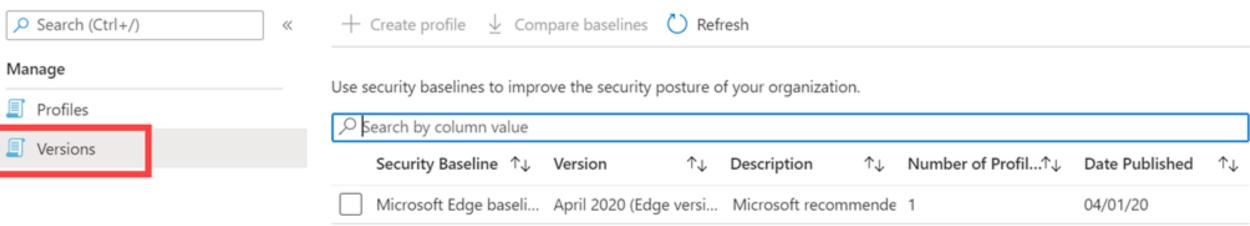
Use advanced protection against

ransomware ①

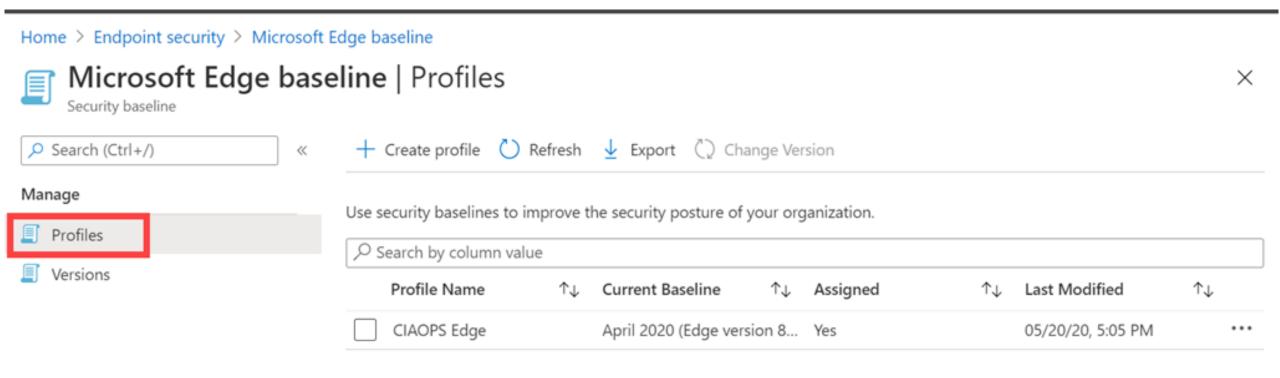


Home > Endpoint security > Microsoft Edge baseline





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Recommendations

- Maintain good documentation
- Define a naming convention up front and apply consistently
- Apply policies and updates in rings
- Ensure you have a 'break glass' account configured
- Grow into your settings

For resellers

- Have at least one physical device for each OS
- Use a demo tenant first time out
- Fully implement device management in your own production environment
- Configuration is never complete
- Leverage the power of automation

Resources

- Microsoft Endpoint Manager overview https://docs.microsoft.com/enus/mem/endpoint-manager-overview
- Windows 10 in cloud configuration https://www.microsoft.com/en-au/microsoft-365/windows/cloud-configuration
- Unpacking endpoint management: the series https://techcommunity.microsoft.com/t5/microsoft-endpoint-manager-blog/unpacking-endpoint-management-the-series/ba-p/2200356
- Microsoft Endpoint Manager documentation https://docs.microsoft.com/en-us/mem/
- Device compliance docuemtation https://docs.microsoft.com/enus/mem/configmgr/compliance/

CIAOPS Resources



- Blog http://blog.ciaops.com
- Github http://github.com/directorcia
- Free Office 365, Azure Administration newsletter http://bit.ly/cia-o365-tech
- Free Office 365, Azure video tutorials http://www.youtube.com/directorciaops
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