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# Mastering Endpoint Management: Boldly Enhancing Efficient Results

Jeroen Burgerhout

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# Why this complex session title?

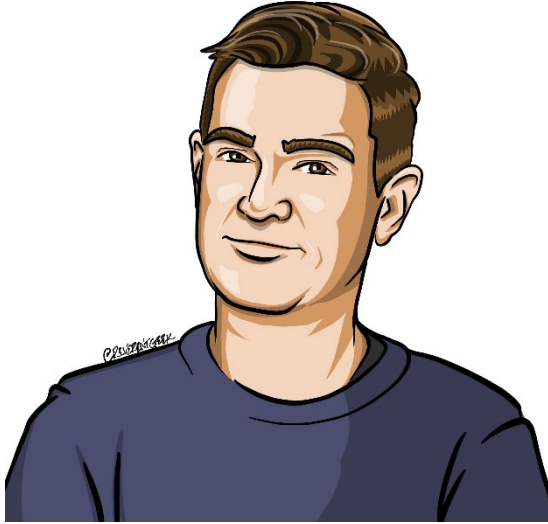
Mastering Endpoint Management:

**#MEMBEER**

Boldly Enhancing Efficient Results



# Jeroen Burgerhout



- Microsoft 365 Consultant
- Microsoft Certified Trainer
- Netherlands
- WorkplaceDudes
- Microsoft 365 Modern Management Meetup
- ExpertsLive NL Team
- Craft beer lover 🍺
- (good weather) Golfer 🏌️







# 1. Portals, portals, portals



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# Intune portals

- [intune.microsoft.com](https://intune.microsoft.com)
- [aka.ms/intune](https://aka.ms/intune)
- [aka.ms/in](https://aka.ms/in)
  
- [endpoint.microsoft.com](https://endpoint.microsoft.com) (still working)





# cmd.ms by Merrill Fernando

cmd.ms

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Microsoft Portals

Azure

Azure Active Directory

Defender

Intune

Microsoft 365

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**[cmd.ms] the Microsoft Cloud command line!**

Are you tired of clicking around in Microsoft portals to get to a blade?

Use the power of your browser's address bar to quickly get to your favorite blade in Azure, Microsoft 365, Azure AD, Intune...

Try it out. Open a new tab and type **[command].cmd.ms** using any of the commands or alias from the list below.

Remember to check out the [browser extensions](#) that add support for auto-complete in the address bar.

All Microsoft Portals Search commands...

	NAME	COMMAND	ALIAS	URL
	Azure Active Directory (Entra)	ad.cmd.ms	aad,entra	https://entra.microsoft.com
	Azure Active Directory	azad.cmd.ms		https://portal.azure.com/#view/Microsoft_AAD_IAM/ActiveDirectoryMenuBlade...
	Microsoft 365 Admin	admin.cmd.ms		https://admin.microsoft.com
	Azure	az.cmd.ms	azure	https://portal.azure.com
	Azure Preview Portal	azp.cmd.ms	azurepreview	https://preview.portal.azure.com/
	Intune	in.cmd.ms	intune,endpoint	https://intune.microsoft.com
	Microsoft 365 Defender	defender.cmd.ms	def,security	https://security.microsoft.com
	Sentinel	azsentinel.cmd.ms	sentinel	https://portal.azure.com/#blade/Microsoft_Azure_Security_Insights/Workspac...
	Exchange	ex.cmd.ms	exo,exchange	https://admin.exchange.microsoft.com
	SharePoint	sp.cmd.ms	spo,sharepoint	https://admin.microsoft.com/sharepoint
	Teams	teams.cmd.ms	team	https://admin.teams.microsoft.com/
	OneDrive	one.cmd.ms	onedrive	https://admin.onedrive.com





## 2. Microsoft tenant available?



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# It's all about the name

- 🤔 Which tenant name should you pick?
- 🤔 Is it available?

somerandomtenantname.onmicrosoft.com





# o365.rocks

## Microsoft 365

### Tenant availability check

Tenant name

Enter your preferred tenant name. Names can contain letters and numbers only. No spaces or symbols.

Check availability

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 <https://o365.rocks>





### 3. Managing an Intune tenant



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# Create, update, delete, copy

- Import / Export configs
- Ideal for a “blueprint” to use in new tenants
- Supported in a DevOps environment





# IntuneManagement by Mikael Karlsson

displayName	description	id
<input type="checkbox"/> DCP-Android-DeviceRestrictions		24d9401c-2af5-4848-8265-6b86634a585c
<input type="checkbox"/> DCP-macOS-DeviceFeatures-LoginWindow		2943394b-1956-4744-877e-41ebd549707f
<input type="checkbox"/> DCP-macOS-DeviceFeatures-SSO		f1803dfc-4afc-4d5e-b44f-c3d7bda7711b
<input type="checkbox"/> DCP-macOS-DeviceRestrictions-PasswordPolicy		1a09a70a-4fe6-4a6f-a849-95ad08fc30f
<input type="checkbox"/> DCP-macOS-DeviceRestrictions-SoftwareUpdates		22e3cf51-9e1d-4831-b163-645b1accbd4b
<input type="checkbox"/> DCP-macOS-EndpointProtection-FileVault		46d930ff-f7ea-4f16-b3d7-c23eb783678d
<input type="checkbox"/> DCP-macOS-EndpointProtection-Firewall		1ad8d8f9-0339-4ad1-a38b-0893-04b7239
<input type="checkbox"/> DCP-macOS-EndpointProtection-Gatekeeper		5f021e9b-7ca3-429f-bb64-182d832c89e
<input type="checkbox"/> DCP-Windows-Custom	- Microsoft Teams Prevent Launch - Disable User ESP	84e690ab-7772-42f5-9e90-cb72ff79064
<input type="checkbox"/> DCP-Windows-Custom-MultiFactorUnlock		c0c09301-a882-404f-a697-73d6775a793c
<input type="checkbox"/> DCP-Windows-Default-OMAURI-LAPS		bb38d6fb-f0fd-46c0-8ba0-d4a4ee4af539
<input type="checkbox"/> DCP-Windows-Defender-ForEndpoint		4ed44519-1c18-42d2-ab96-1be057e70ca3
<input type="checkbox"/> DCP-Windows-Edition/Upgrade		1739c29f-4f89-4f9f-abf9-aea90761e5f0
<input type="checkbox"/> DCP-Windows-HealthMonitoring		bb85a221-3081-4882-a80b-202826619348
<input type="checkbox"/> DCP-Windows-Kiosk		113143ac-1717-43c7-8c51-54d76a8c6f46
<input type="checkbox"/> DCP-Windows-WiFi		4251c624-86a7-4286-8656-12b7586dd72a
<input type="checkbox"/> UP-macOS-Broad		0939a3a2-62a7-4c0b-wd54-ae042018d660
<input type="checkbox"/> UP-MacOS-Pilot		f7bf1719-082e-4e4e-890f-8a12917b698c

 [github.com/Micke-K/IntuneManagement](https://github.com/Micke-K/IntuneManagement)



## 4. Uploading HW hash



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# Uploading.....

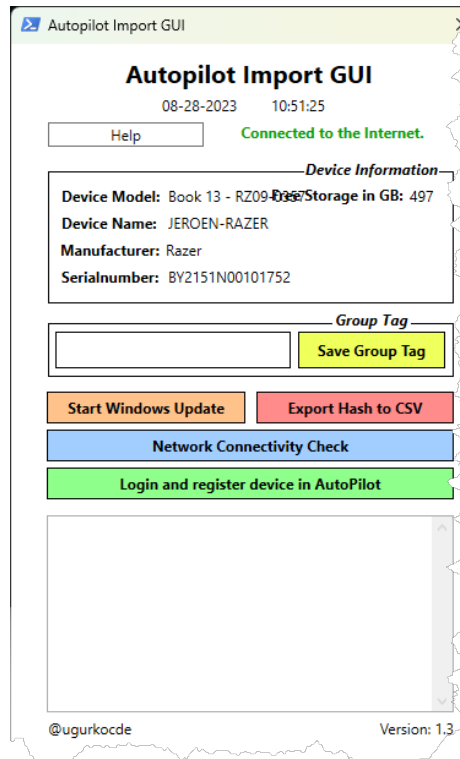
Different methods to upload a devices HW hash:

- Manual CSV upload
- Get-WindowsautopilotInfo –online
- Or....





# AutoPilot Import GUI by Ugur Koc



[https://github.com/ugurkocde/AutoPilot\\_Import\\_GUI](https://github.com/ugurkocde/AutoPilot_Import_GUI)





## 5. Adding apps



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# Packaging is 🧐

Packaging apps is time-consuming.

- convert the app to win32app
- you need to know the (un)install commando
- you “need” a product logo to make it fancy

💡 I probably have the solution







# WingetIntune by Stephan van Rooij

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\jeroe> winget-intune package Garmin.BaseCamp --package-folder C:\Packagefolder
info: WingetIntune.Implementations.WingetManager[4] Getting package info for Garmin.BaseCamp (null)
info: WingetIntune.Commands.PackageCommand[0] Package Garmin.BaseCamp 4.7.5.0 from Winget
info: WingetIntune.IntuneManager[1] Generating IntuneWin package for Garmin.BaseCamp 4.7.5.0 in C:\Packagefolder
info: WingetIntune.IntuneManager[3] Downloading content prep tool from https://github.com/microsoft/Microsoft-Win32-Cont
ent-Prep-Tool/raw/master/IntuneWinAppUtil.exe
info: WingetIntune.IntuneManager[4] Downloading installer from https://download.garmin.com/software/BaseCamp_475.exe to
C:\Users\jeroe\AppData\Local\Temp\intunewin\Garmin.BaseCamp\4.7.5.0\BaseCamp_475.exe
info: WingetIntune.IntuneManager[5] Generating IntuneWin package from C:\Users\jeroe\AppData\Local\Temp\intunewin\Garmin
.BaseCamp\4.7.5.0 to C:\Packagefolder\Garmin.BaseCamp\4.7.5.0 with BaseCamp_475.exe
info: WingetIntune.IntuneManager[6] Downloading logo from https://api.winstall.app/icons/Garmin.BaseCamp.png
info: WingetIntune.IntuneManager[0] Writing package readme for package Garmin.BaseCamp
PS C:\Users\jeroe> winget-intune publish Garmin.BaseCamp --package-folder C:\Packagefolder --username adm-jeroen@thepesk
yghosts.onmicrosoft.com
info: WingetIntune.Implementations.WingetManager[4] Getting package info for Garmin.BaseCamp (null)
info: WingetIntune.Commands.PackageCommand[0] Publishing package Garmin.BaseCamp (null)
info: WingetIntune.IntuneManager[0] Created app ed1f708f-9f30-4a0b-821c-4d60c680c062, starting with content
info: WingetIntune.Implementations.AzCopyAzureUploader[0] AzCopy upload C:\Users\jeroe\AppData\Local\Temp\ecd4b903-0346-
4bbc-af88-c1d5cabf1cf1\IntuneWinPackage\Contents\IntunePackage.intunewin to https://mmcsbdb02.blob.core.windows.net/3656
4965-4b2d-472b-9d6b-325cdfd81c58/5182d570-e53e-4be7-a77e-f4d9da28e2f0/c76baa03-2382-41b5-8e65-ade50e0e2867.intunewin.bin
?sv=2017-04-17&sr=b&si=-426700832&sig=AX8Idi%2BMpsDiZ4h0K4GXJSjpHugYKkBgKvPnFP1XMZw%3D successfully
info: WingetIntune.IntuneManager[0] App file uploaded successfully
info: WingetIntune.IntuneManager[0] App CommittedContentVersion patched successfully
info: WingetIntune.Commands.PackageCommand[0] App Garmin.BaseCamp 4.7.5.0 created in Azure ed1f708f-9f30-4a0b-821c-4d60c
680c062
PS C:\Users\jeroe>
```



<https://github.com/svrooij/WingetIntune>



## 6. Where is my device registered?



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# Testing

The life of a consultant consist of testing and testing and preferably in multiple tenants.

With just one device.....





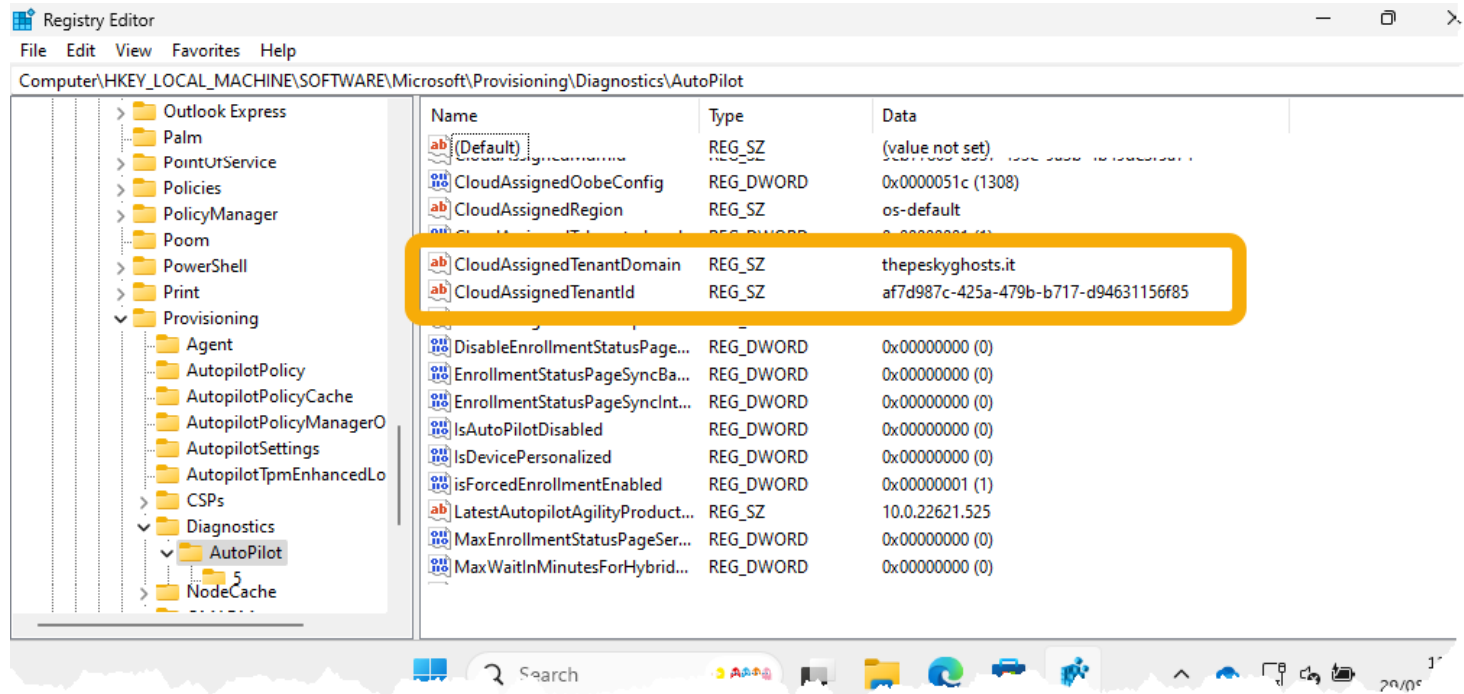
# Error 806

```
Administrator: Windows PowerShell
PS C:\Users\jeroe> Get-WindowsAutoPilotInfo.ps1 -Online
Welcome To Microsoft Graph!
Connected to Intune tenant af7d987c-425a-479b-b717-d94631156f85
Gathered details for device with serial number: BY2151N00101752
Waiting for 1 of 1 to be imported
Waiting for 1 of 1 to be imported
Waiting for 1 of 1 to be imported
Waiting for 1 of 1 to be imported
Waiting for 0 of 1 to be imported
BY2151N00101752: error 806 ZtdDeviceAlreadyAssigned
0 devices imported successfully. Elapsed time to complete import: 123 seconds
Waiting for 0 of 0 to be synced
All devices synced. Elapsed time to complete sync: 1 seconds
PS C:\Users\jeroe>
```





# Check registry from device





# AutopilotProfileInfo by Florian Salzmann

```
Administrator: Windows PowerShell
Windows Terminal can be set as the default terminal application in your settings. Open Settings

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\blinky> Get-AutopilotProfileInfo.ps1
This device is registered with the domain:
thepeskyghosts.it

PS C:\Users\blinky> |
```



<https://scloud.work/get-autopilotprofileinfo/>



## 7. Device details



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## Support like helpdesk, 2<sup>nd</sup> line

- Give access to the Intune portal
- Preferably with least privileges
- But the above needs some learning curve and training



# IntuneDeviceDetails by Petri Paavola

IntuneDeviceDetails ver 2.974

Connected as: **adm-jeroen@thepeskyghosts.onmicrosoft.cu** Quick filter: Compliance Compliant (Me) 1. Search devices Unknown - Reload c Basic info c

Showing information from device TPG-5CD8367H93 Selected device for report Found 6 devices Last sync -3 days ago 2. Create report

Manufacturer	HP	OS/Version	Windows 10 22H2 Ent	Compliance	compliant	Windows Autopilot	
Model	HP ProBook 450 G5	Language	en-US	isEncrypted	True	enrolled	True
Serial	5CD8367H93	Storage	200GB / 238GB	Last Sync	3 days ago	GroupTag	AUP_WIN_User_Special
WIFI MAC	04D3B0F0302F	Ethernet MAC	C8D9D2998C52	Primary User	inky@thepeskyghosts.it		

**Recent check-ins**  
inky@thepeskyghosts.it  
2023-08-25 10:35:44

**Primary User Group Memberships**  
Checked-In User Group Memberships (inky@thepeskyghosts.it)  
Device Group Memberships

DisplayName
AAD-DI-HP
AAD-DI-Windows

**Application Assignments** Select user inky@thepeskyghosts.it (Primary User)

context	Application type	displayName
unknown	officeSuiteApp	Microsoft 365 Apps for Windows 10
unknown	windowsMicrosoftEdgeApp	Microsoft Edge for Windows 10
Device	win32LobApp	CMTrace
Device	winGetApp	Company Portal
Device	win32LobApp	HP Bloatware Remover

**Configurations Assignments**

context	Configuration type	displayName
User	Settings Catalog	DCP-Windows-BaseSettings
User	Custom	DCP-Windows-Custom
Device	Settings Catalog	DCP-Windows-CustomSettings-Windows10
Device	Settings Catalog	DCP-Windows-CustomSettings-Windows10
Device	Settings Catalog	DCP-Windows-CustomSettings-Windows11

**Overview** Intune Device JSON Azure AD Device JSON Primary User JSON

**Device Name: TPG-5CD8367H93**

```
userPrincipalName : inky@thepeskyghosts.it
operatingSystem   : Windows
osVersion          : 10.0.19045.3208
skuFamily          : Enterprise
ownerType          : company
deviceType         : windowsRT
manufacturer       : HP
model              : HP ProBook 450 G5
chassisType        : laptop
serialNumber       : 5CD8367H93
jointType          : azureADJoined
deviceEnrollmentType : windowsAzureADJoin
managedDeviceName  : inky_Windows_7/14/2023_11:49 AM
autopilotEnrolled  : True
enrollmentProfileName : AUP_WIN_User_Special
enrolledDateTime   : 14-7-2023 11:49:26
```

**Primary User: inky@thepeskyghosts.it**

```
accountEnabled : True
displayName     : Inky
userPrincipalName : inky@thepeskyghosts.it
```

Device details updated 2023-08-28 13:55:37

Author: Petri.Paavola@yodamiitti.fi - Microsoft MVP  
<https://github.com/petri-paavola/IntuneDeviceDetailsGUI>



<https://github.com/petri-paavola/IntuneDeviceDetailsGUI>





## 8. Intune Documentation



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# M365 Documentation by Thomas Kurth

Simplify the life of consultants and admins

- ❖ Microsoft Intune
- ❖ Microsoft Entra ID (Azure AD)
- ❖ Microsoft Cloud Print
- ❖ Microsoft Information protection
- ❖ Windows 365 (CloudPC)



# M365Documentation by Thomas Kurth

Microsoft 365 Documentation

www.wpninjas.eu

## Autopilot Profiles

This section contains a list of all Autopilot Profiles available in Intune.

### AUP\_WIN\_Device\_Kiosk

Deployment profile used for kiosk devices

Name	Value
@odata.type	#microsoft.graph.azureADWindowsAutopilotDeploymentProfile
id	9564aded-c767-404d-aa41-4bdb87ff857f
displayName	<u>AUP_WIN_Device_Kiosk</u>
description	Deployment profile used for kiosk devices
language	os-default
createdDateTime	2021-08-30T12:01:37.0123805Z
lastModifiedDateTime	2023-06-26T11:31:38.6465776Z
enrollmentStatusScreenSettings	



<https://github.com/ThomasKur/M365Documentation>



## 9. Conditional Access Documentation



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# idPowerToys by Merril Fernando

Simplify the life of consultants and admins (part 2) 😊

- ❖ Visualize Conditional Access policies
- ❖ PowerPoint
- ❖ Web app and desktop app



# idPowerToys by Merril Fernando

The screenshot shows the idPowerToys web application. At the top left is the idPowerToys logo. At the top right is a 'Sign In' link. On the left side, there is a navigation menu with three items: 'Home', 'CA Documenter', and 'Mind Map'. The main content area is titled 'Conditional Access Documenter' and includes the subtitle 'Export your conditional access policies as a PowerPoint presentation.' Below this, there are two tabs: 'Automatic Generation' (which is selected) and 'Manual Generation'. A description states: 'Dynamically generate a PowerPoint presentation for the conditional access policies in your tenant.' Below the description is a '> Settings' link. At the bottom of the main content area, there is a message box that says 'Please sign in to generate documentation.' with a 'Sign In' link. At the bottom left of the application, there are three small circular icons. At the bottom right, there is a signature that reads 'Merril Fernando'.



<https://idpowertoys.com/>







## 10. Make videos



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# Video skills

- End-users
  - Workshops
  - Knowledge base
- Colleagues
  - training



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RUNS ON Apple Windows

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- Record All
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- Jeff's Galaxy Tab

AirPlay, Google Cast and Miracast together

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- Windows

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 <https://www.airsquirrels.com/reflector>




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--	---	---

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## 11. Intune updates



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# Intune updates

## Public Preview

- MAM for Windows (Edge)

## General Available

- Group Policy analytics tool

## 12. Keep up-to-date



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# Keep up-to-date with changes

## What's New



<https://learn.microsoft.com/en-us/mem/intune/fundamentals/whats-new>

## What is in development



<https://learn.microsoft.com/en-us/mem/intune/fundamentals/in-development>

## Social Media

@IntuneSupport (Intune support team)

MVP's

## Feedback portal



<https://feedbackportal.microsoft.com/feedback/forum/ef1d6d38-fd1b-ec11-b6e7-0022481f8472>







## 15 minutes break











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