

# Troubleshooting the modern managed client



Workplace Ninja Virtual Edition 2021



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# About me...



**Jörgen Nilsson**

- Principal Consultant
- Microsoft MVP: Enterprise Mobility
- MCSE/MCSA/MCITP/MCTS
- ITIL Foundation Certified
- Microsoft Certified Trainer (MCT)



## Contact Info

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# About me...

## Ronni Pedersen

- Cloud Architect, APENTO
- Microsoft MVP: Enterprise Mobility
- MCSE/MCSA/MCITP/MCTS and more... 😊
- ITIL Foundation Certified
- Microsoft Certified Trainer (MCT)

## Contact Info

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- Twitter: [@ronnipedersen](https://twitter.com/ronnipedersen)





# Key Takeaway

[www.wpninjas.eu](http://www.wpninjas.eu)



## Agenda

- Tools
- The Log Files
- Troubleshooting Enrollment
- Troubleshooting Policies
- Applications
- Software Updates
- Windows Autopilot

# Tools

The right tool for the right job...





# Remote Control

www.wpninjas.eu

- TeamViewer integrates in the Endpoint Management Portal
- Quick Assist is built-in
  - Lacks UAC support
  - No Logging
  - Maybe OK for smaller organizations
  - During AutoPilot (Alt+Win+Q)



<https://oliverkieselbach.com/2020/03/03/quick-assist-the-built-in-remote-control-in-windows-10/>



# Configure the TeamViewer connector

www.wpninjas.eu

- Easy setup and configuration

There are other options:

- Beyond Trust
- LogMeIn

... And many more but **only**  
TeamViewer integrates in the  
admin console

The screenshot shows the Microsoft Endpoint Manager admin center interface. The left sidebar has a tree view with nodes like Home, Tenant admin, Connectors and tokens, and others. Under 'Connectors and tokens', there's a sub-section for 'TeamViewer connector'. A red box highlights this section. To the right, the main content area shows the 'Connectors and tokens | TeamViewer connector' page. It includes a search bar, navigation buttons (Connect, Refresh), and status information: Connection status (Requires setup), Last connection (--), and Connection request expires (--). A note says: 'New connection requests expire after 15 minutes. If the Connection status is not Active within 15 minutes, click Connect to start a new request.' Below this is a descriptive text about the TeamViewer service and a 'Log in to TeamViewer to authorize' button. At the bottom of the connector list, another red box highlights the 'TeamViewer connector' entry.



# CMtrace

[www.wpninjas.eu](http://www.wpninjas.eu)

- Great log reader
- Not free but included in the Intune/MEM license
- Deploy it to all clients

Deployment guide by Jörgen Nilsson (CCMEXEC.COM):

- <https://ccmexec.com/2018/12/copy-and-associate-cmtrace-using-intune-win32app-and-powershell/>



# More Tools – advanced troubleshooting

www.wpninjas.eu

- Wireshark
- Fiddler
- Netmon
- SyncMLViewer

[SyncMLViewer/SyncMLViewer/dist at master · okieselbach/SyncMLViewer · GitHub](https://github.com/okieselbach/SyncMLViewer)

SyncML Viewer - oliverkieselbach.com - 1.0.7

File Options Actions Help

SyncML Representation Protocol Stream SyncML Sessions/Messages Response Status Codes Reference MDM Diagnostics About

```
1 <!-- OmaDmSessionStart -->
2
3 <!-- 8/31/2021 9:03:03 PM -->
4 <SyncML xmlns="SYNCML:SYNCML1.2">
5   <SyncHdr>
6     <VerDTD>1.2</VerDTD>
7     <VerProto>DM/1.2</VerProto>
8     <SessionID>30</SessionID>
9     <MsgID>1</MsgID>
10    <Target>
11      <LocURI>https://r.manage.microsoft.com/devicegatewayproxy/cimhandler.ashx</LocURI>
12    </Target>
13    <Source>
14      <LocURI>8A39C151B9A1CC59557F513B7C0E9DFA3E8C03268E259C3126346B7668E8EA2B</LocURI>
15      <LocName>dummy</LocName>
16    </Source>
17    <Cred>
18      <Meta>
19        <Format xmlns="syncml:metinf">b64</Format>
20        <Type xmlns="syncml:metinf">syncml:auth-md5</Type>
21      </Meta>
22      <Data>EV EkoFZcVgPM+ESnu9IC0g==</Data>
23    </Cred>
24  </SyncHdr>
25  <SyncBody xmlns:msft="http://schemas.microsoft.com/MobileDevice/MDM">
26    <Alert>
27      <CmdID>2</CmdID>
28      <Data>1201</Data>
29    </Alert>
30    <Alert>
31      <CmdID>3</CmdID>
32      <Data>1224</Data>
```

Clear Stream Save As

# Log Files





# Collect diagnostics from a Windows Device

www.wpninjas.eu

- Collecting Diagnostic Logs from Windows Devices
  - Windows 10 1909 or newer
  - Both Intune and Co-Managed devices
  - Corporate-owned devices only
- More information:
  - <https://docs.microsoft.com/en-us/mem/intune/remote-actions/collect-diagnostics>





# Collecting Diagnostic Logs

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The screenshot shows the Microsoft Intune interface for managing devices. The top navigation bar includes options like Retire, Wipe, Delete, Remote lock, Sync, Reset passcode, Restart, Collect diagnostics (which is highlighted with a red box and number 1), and Fresh Start.

The main content area displays device details for "DESKTOP-NIIRT6B". Under the "Essentials" section, it lists the device name, management name, ownership, serial number, phone number, primary user, enrolled by, compliance status, operating system, and device model. A "See more" link is also present.

The "Device actions status" table shows a single entry for "Collect diagnostics" which is marked as "Complete" at "5/16/2021, 8:18:21 AM".

The left sidebar lists various management categories: Properties, Hardware, Discovered apps, Device compliance, Device configuration, App configuration, Endpoint security configuration, Recovery keys, User experience, Device diagnostics (preview) (which is highlighted with a red box and number 3), and Managed Apps.

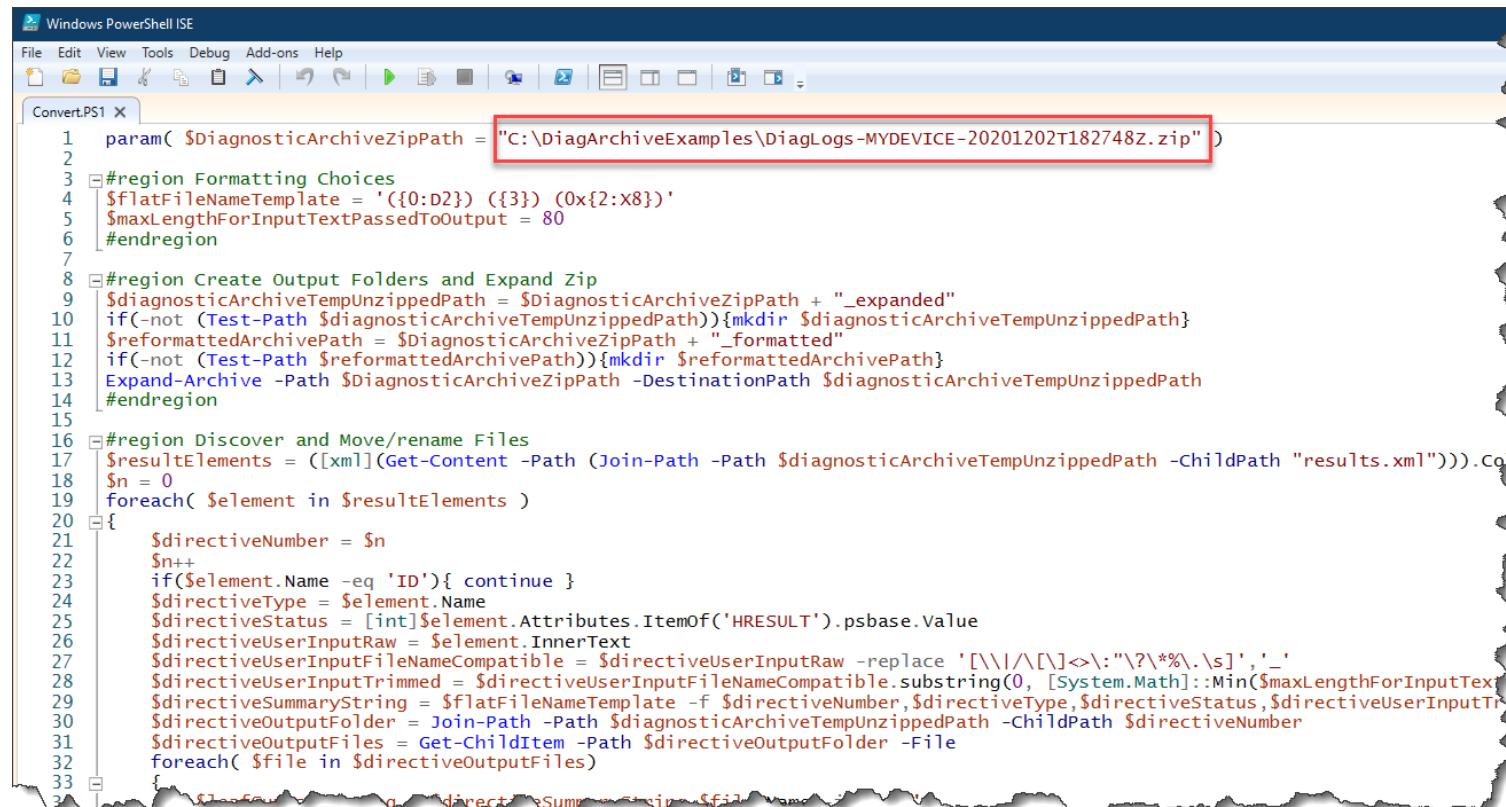
This screenshot shows the "Device diagnostics (preview)" details page. It displays a table with columns: Requested by, Status, Request initiated, Diagnostics uploaded, and Diagnostics.

Requested by	Status	Request initiated	Diagnostics uploaded	Diagnostics
rop@apento.com	Complete	5/16/2021, 8:18:07 AM	5/16/2021, 8:28:57 AM	<a href="#">Download</a>



# Formatting Log Data

- <https://docs.microsoft.com/en-us/windows/client-management/mdm/diagnosticlog-csp#making-use-of-the-uploaded-data>



```
Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
Convert.ps1 X
1 param( $DiagnosticArchiveZipPath = "C:\DiagArchiveExamples\DiagLogs-MYDEVICE-20201202T182748Z.zip")
2
3 #region Formatting Choices
4 $flatFileNameTemplate = '({0:D2}) ({3}) (0x{2:X8})'
5 $maxLengthForInputTextPassedToOutput = 80
6 #endregion
7
8 #region Create Output Folders and Expand Zip
9 $DiagnosticArchiveTempUnzippedPath = $DiagnosticArchiveZipPath + "_expanded"
10 if(-not (Test-Path $DiagnosticArchiveTempUnzippedPath)){mkdir $DiagnosticArchiveTempUnzippedPath}
11 $reformattedArchivePath = $DiagnosticArchiveZipPath + "_formatted"
12 if(-not (Test-Path $reformattedArchivePath)){mkdir $reformattedArchivePath}
13 Expand-Archive -Path $DiagnosticArchiveZipPath -DestinationPath $DiagnosticArchiveTempUnzippedPath
14 #endregion
15
16 #region Discover and Move/rename Files
17 $resultElements = ([xml](Get-Content -Path (Join-Path -Path $DiagnosticArchiveTempUnzippedPath -ChildPath "results.xml"))).Co
18 $n = 0
19 foreach( $element in $resultElements )
20 {
21     $directiveNumber = $n
22     $n++
23     if($element.Name -eq 'ID'){ continue }
24     $directiveType = $element.Name
25     $directiveStatus = [int]$element.Attributes.ItemOf('HRESULT').psbase.value
26     $directiveUserInputRaw = $element.InnerText
27     $directiveUserInputNameCompatible = $directiveUserInputRaw -replace '[\\|\\[]>:\\"?%\\.\\s]', '_'
28     $directiveUserInputTrimmed = $directiveUserInputNameCompatible.substring(0, [System.Math]::Min($maxLengthForInputText, $directiveUserInputRaw.Length))
29     $directiveSummaryString = $flatFileNameTemplate -f $directiveNumber, $directiveType, $directiveStatus, $directiveUserInputTrimmed
30     $directiveOutputFolder = Join-Path -Path $DiagnosticArchiveTempUnzippedPath -ChildPath $directiveNumber
31     $directiveOutputFiles = Get-ChildItem -Path $directiveOutputFolder -File
32     foreach( $file in $directiveOutputFiles )
33     {
34         $directiveSummaryString += $file.Name
35     }
36 }
```

# Troubleshoot enrollment





# Scenarios

[www.wpninjas.eu](http://www.wpninjas.eu)

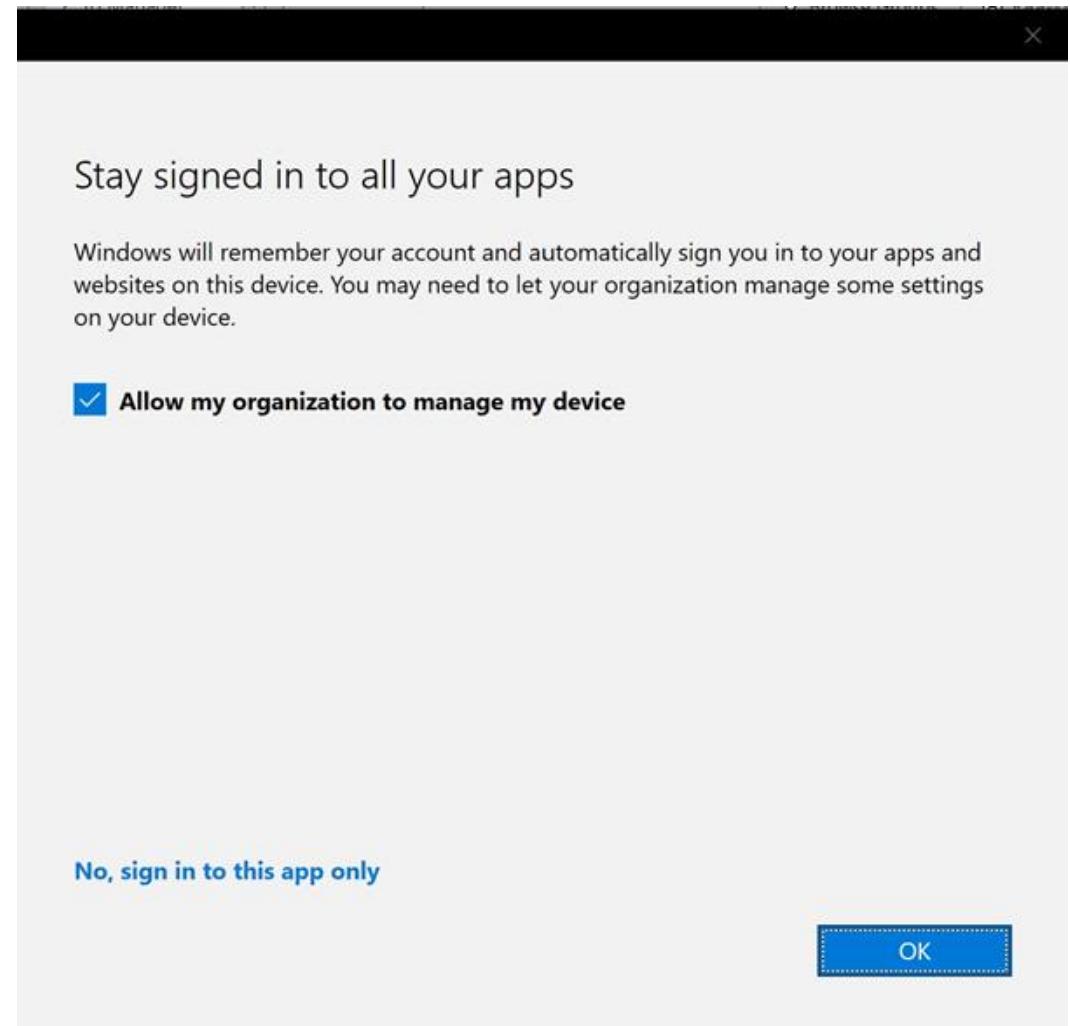
- Existing PC
  - New PC – AAD Join (Auto Enrollment)
  - Existing PC – Hybrid Joined
  - New PC – Hybrid Joined
- 
- Userless enrollment (Bulk enrollment)



# Windows 10 / M365 Apps

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- “Stay signed in to all your apps” dialog in M365 Apps (outlook, Powerpoint, excel....)
- Recommended to block on Hybrid Join
- Needs to be blocked on Personal Windows 10 as well.
- Intune sync will fail otherwise



<https://ccmexec.com/2021/01/mem-windows-10-personal-device-and-sync-issues>



The screenshot shows the Microsoft Outlook interface. The ribbon is visible at the top with tabs like File, Home, Send / Receive, View, and Help. The Home tab is selected. The left sidebar shows 'Favorites' with 'Inbox' (259), 'Sent Items', and 'Deleted Items'. Below that is an account section for 'Jorgen@demiranda.nu' with 'Inbox' (259), 'Drafts', 'Sent Items', 'Deleted Items', and 'Archive'. There's also a 'Conversation History' section and 'Search Folders'. Under 'Groups', it says 'You have not joined any groups...'. At the bottom of the sidebar are icons for Mail, Calendar, People, Tasks, and More.

The main pane displays an email list under the 'Focused' tab. A filter for 'Last Week' is applied. The list includes:

- Power BI: Your trial expires soon: Pur... Sat 05-15
- Microsoft 365 Messa... Message Center Major Cha... Sat 05-15
- Microsoft Azure: Continuous access evaluati... Fri 05-14
- We're improving security in
- Microsoft 365 Messa... Message Center Major Cha... Tue 05-11
- Microsoft 365 Messa... Weekly digest: Microsoft s... Mon 05-10

Below this, under 'Two Weeks Ago':

- Microsoft 365 Messa... Message Center Major Cha... 2021-05-08
- Microsoft 365 Messa... Message Center Major Cha... 2021-05-05

The right pane shows the details of the first email from Power BI. It has a green circular profile picture with 'PB' and the text 'Power BI <powerbi@email2.micrc> To Jorgen'. It says 'Your trial expires soon: Purchase Power BI Pro' and provides a link to 'Purchase Power BI Pro | View in browser'. A 'Right-click' context menu is open over the message. The body of the email contains a large yellow section with the text 'Your free Power BI Pro trial su... expires soon' and 'We hope you've enjoyed the advantages of Power B... Power BI Pro trial subscription ends soon. To continue business insights, you'll need to purchase a Power BI Pro we've made it easier than ever.' It also includes an 'Activate Windows' button and a link to 'Go to Settings to activate Windows.'



# DeviceCapReached = Device Limits

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## Something went wrong.

This user is not authorized to enroll. You can try to do this again or contact your system administrator with the error code 801c0003.

Additional problem information:

Server error code: 801c0003

Correlation ID: 3cf8d9b5-a749-43f7-97e4-9b315ffe97fd

Timestamp: 08-16-2019 9:14:01Z

Server message: User '538156d0-c028-429c-90ec-be15074f379f' is not eligible to enroll a device of type 'Windows'. Reason 'DeviceCapReached'.

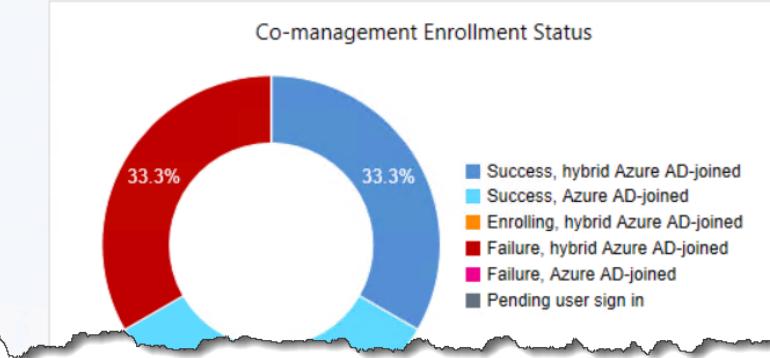
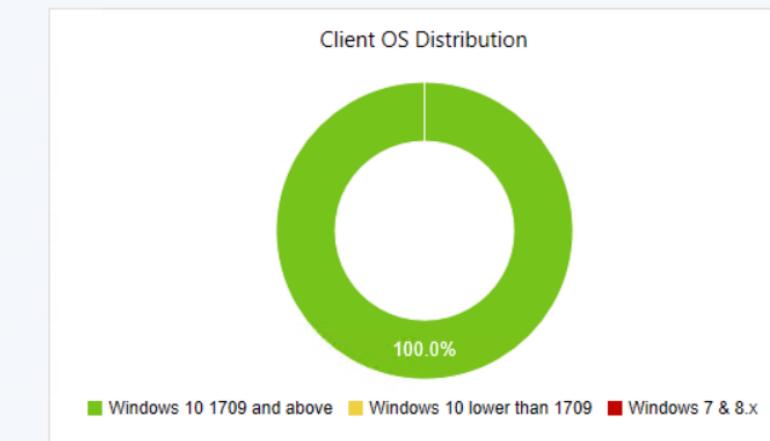
More information: <https://www.microsoft.com/aaderrors>



# Cloud Attach

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## Co-management



Co-management Status

Home > Microsoft Intune > Device enrollment - Enrollment failures

**Device enrollment - Enrollment failures**

Microsoft Intune

Search (Ctrl+ /) Filter Refresh Export

Quick start

Manage

- Apple enrollment
- Android enrollment
- Windows enrollment
- Terms and conditions
- Enrollment restrictions
- Device categories
- Corporate device identifiers
- Device enrollment managers

Monitor

- Enrollment failures**
- Audit logs
- Incomplete user enrollments

Help and support

For a graphical view of enrollment failures see here.

Select user All users

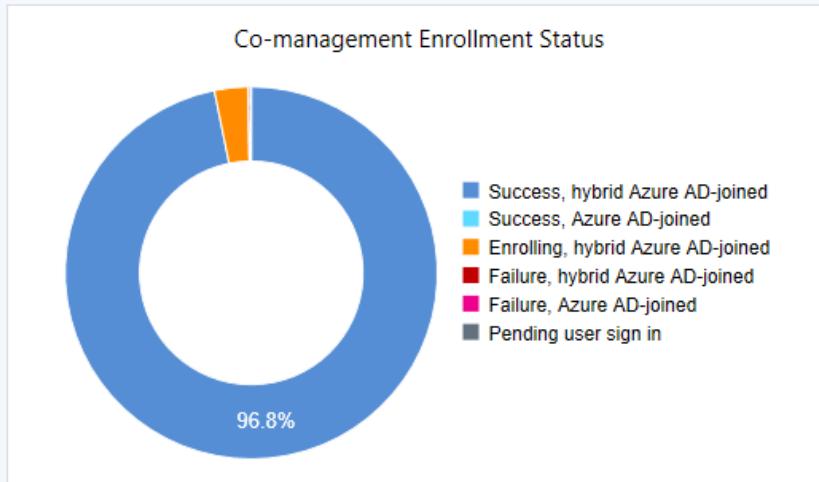
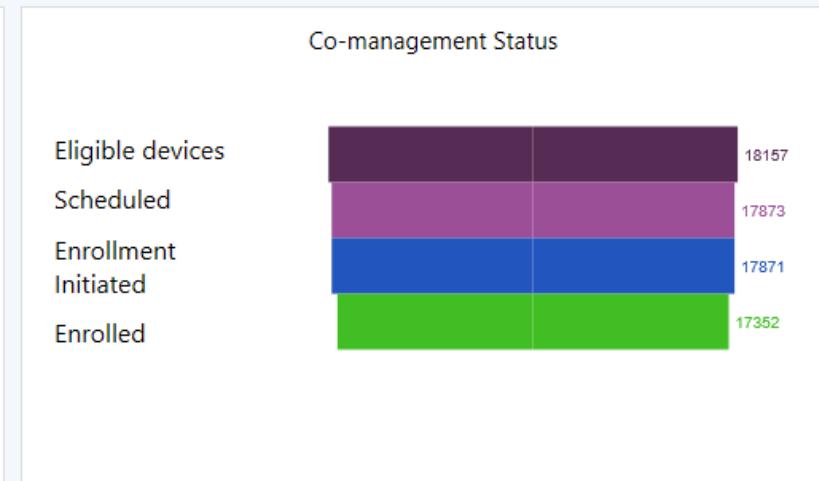
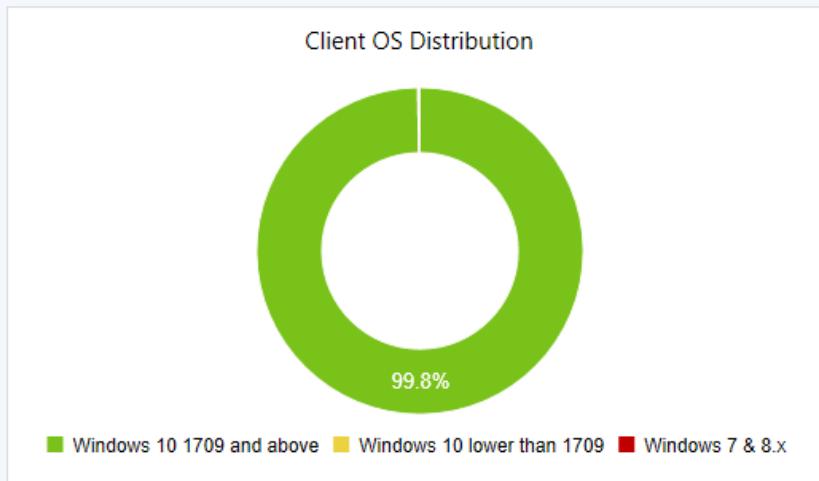
Date	Failure	OS	OS version
Select a user or all users.			



# Cloud Attach

[www.wpninjas.eu](http://www.wpninjas.eu)

## Co-management



Count	Enrollment Error
16	Undefined
11	License of user is in bad state blocking enrollment
4	MDM enrollment hasn't been configured yet on AAD, or the enrollment url isn't expected.
4	The Internet connection has timed out
2	Not enough memory resources are available to process this command.
1	Account type is unknown.
1	Authorization grant failed for this assertion.
1	Incorrect function.



# Enrollment Failures

www.wpninjas.eu

Microsoft Endpoint Manager admin center

Home > Monitor

## Monitor | Enrollment failures

Search (Ctrl+/  
Filter Refresh Export

For a graphical view of enrollment failures [see here](#).

Select user All users

Date	Failure	OS	OS version
05/13/21, 7:50 AM	Device cannot be enrolled as personal	Windows 10	10.0.18363.0
05/13/21, 1:19 PM	Device cannot be enrolled as personal	Windows 10	10.0.19042.0
05/14/21, 9:13 AM	Device cannot be enrolled as personal	Windows 10	10.0.19042.0
05/17/21, 8:08 PM	Device cannot be enrolled as personal	Windows 10	10.0.19042.0
05/17/21, 10:08 PM	Device cannot be enrolled as personal	Windows 10	10.0.19042.0
05/13/21, 8:49 PM	Device cannot be enrolled as personal	Windows 10	10.0.19042.0
05/17/21, 9:06 AM	Device cannot be enrolled as personal	Windows 10	10.0.19042.0
05/16/21, 2:29 PM	Device cannot be enrolled as personal	Windows 10	10.0.19042.0
05/17/21, 11:22 PM	Device cannot be enrolled as personal	Windows 10	10.0.19042.0
05/12/21, 5:01 PM	Device cannot be enrolled as personal		
05/13/21, 7:30 AM	Device cannot be enrolled as personal	Windows 10	10.0.19041.0
05/13/21, 12:56 PM	Device cannot be enrolled as personal	Windows 10	10.0.16299.0
05/14/21, 7:20 AM	Device cannot be enrolled as personal	Windows 10	10.0.19041.0
05/17/21, 7:29 AM	Device cannot be enrolled as personal	Windows 10	10.0.19041.0
05/17/21, 11:08 AM	Device cannot be enrolled as personal	Windows 10	10.0.19042.0
05/13/21, 9:08 AM	Device cannot be enrolled as personal	Windows 10	10.0.19041.0

## Enrollment failure

### DETAILS

This device can't be enrolled as a personal device while the platform is Blocked under Device Type Restrictions.

### RECOMMENDED STEPS

The user must use a different platform of personal device to enroll. If this is a corporate device make sure that the user is enrolling correctly and that you have added the device to the Corporate device identifiers list if needed. You can check your personal platform restrictions under Device enrollment > Enrollment restrictions > choose a restriction > Configure platform

### ADDITIONAL RESOURCES

[Learn more about Enrollment Restrictions](#).  
[Learn more about Enrollment Restrictions](#).

### DEVICE DETAILS

Enrollment Start 5/14/2021 9:13:42 AM  
OS Windows 10  
OS Version 10.0.19042.0

### GET SUPPORT

If you can't resolve this issue, [contact support](#) and paste the below Activity ID into the ticket details.

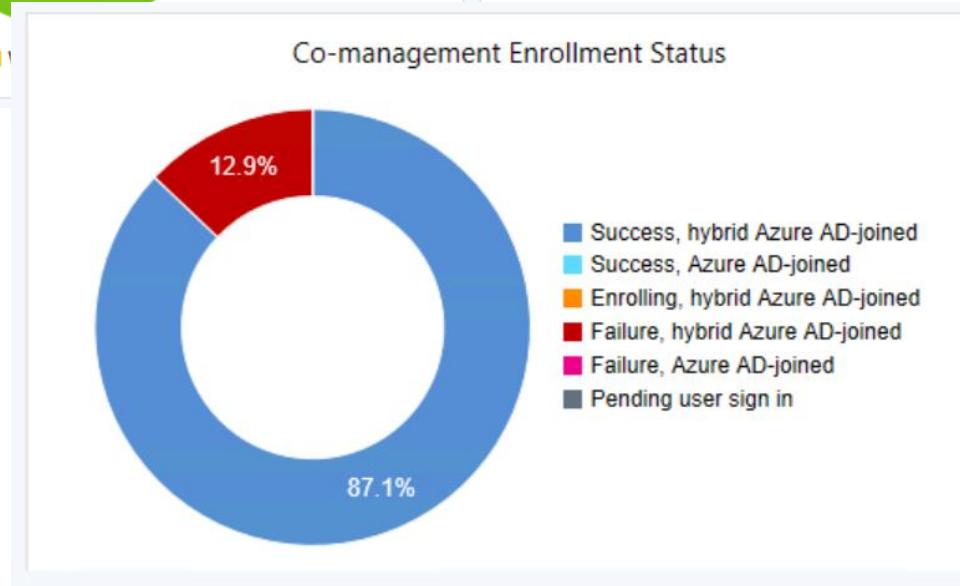
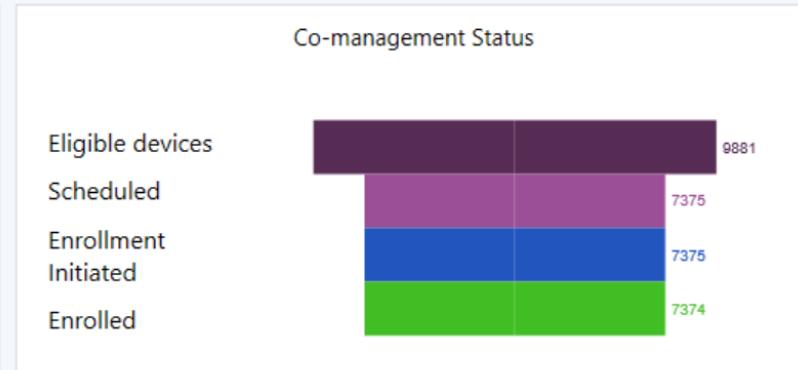
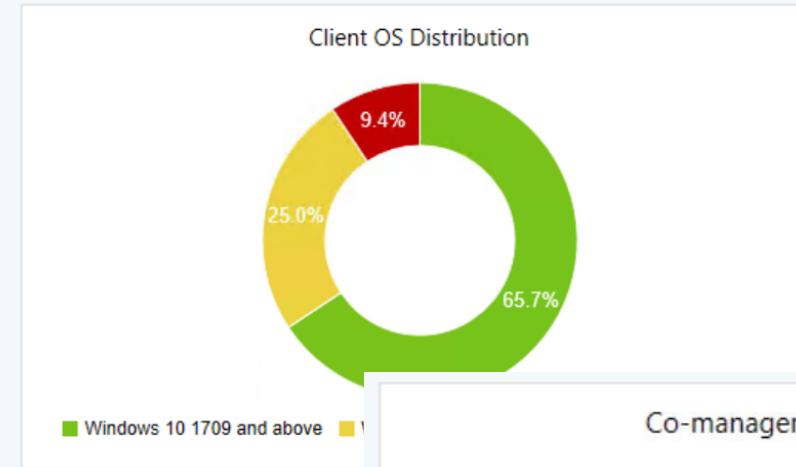
Activity ID: 112401f7-



# Co-Management Enrollment Status

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## Co-management



Count	Enrollment Error
706	License of user is in bad state blocking enrollment
382	Undefined
6	Element not found.
5	Catastrophic failure
4	The Internet connection has timed out
2	MDM enrollment hasn't been configured yet on AAD, or the enrollment url isn't expected.
1	The user canceled the operation



# Hybrid Azure AD Join

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- Group Policy (No Offset)
- Co-Management (Offset)
  - Schedules enrollment with an offset
  - If the enrollment fails, SCCM will retry 2 times every 15 mins
- Common issues
  - The user is not in AAD
  - The device is not Synced (Hybrid Azure AD Join)
- Will be flagged as Corporate

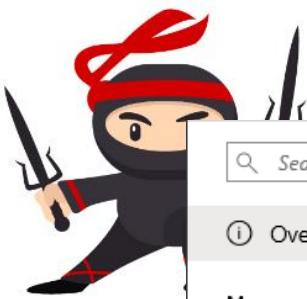
<https://www.imab.dk/auto-mdm-enrollment-fails-with-error-code-0x8018002a-troubleshooting-mdm-enrollment-errors-co-management-with-sccm-and-intune/>



# Client Health

[www.wpninjas.eu](http://www.wpninjas.eu)

- How do you verify that a client is working as expected ?
  - Co-management to the rescue!
  - In Intune we can now see:
  - Configuration Manager agent state
  - Last Configuration Manager agent check in time
- 
- Intune-enrolled devices connect to the cloud service 3 times a day, approximately every 8 hours.

 Search (Ctrl+)X Retire Wipe Delete Remote lock Sync Reset passcode Restart Fresh Start Autopilot Reset Quick scani Overview

Manage

Properties

Monitor

Hardware

Discovered apps

Device compliance

Device configuration

App configuration

Security baselines

Recovery keys

Managed Apps

Device name : APENTO-Bndfil1Z

Primary User : Ronni Pedersen

Management name : mail\_Windows\_5/26/2019\_6:52 PM

Enrolled by : Ronni Pedersen

Ownership : Corporate

Compliance : Not Compliant

Serial number : 7987-3600-6266-3074-4536-7994-21

Operating system : Windows

Phone number : ---

Device model : Virtual Machine

[See more](#)

## Device actions status

Action	Status	Date/Time
--------	--------	-----------

No results

## Co-management

Ronni Pedersen's Windows PC is being co-managed between Intune and Configuration Manager. Configuration Manager agent state is shown below, if the state is a there are a few steps that help with this. [Learn more](#)

## Configuration Manager agent state

Unknown

## Details

Details about the client's state are only reported for Configuration Manager version 1806 and later. Make sure that the Configuration Manager client is present on your device and that it is running a supported version.

## Last Configuration Manager agent check in time

05-06-2019 15:10:12

## Intune managed workloads

Client Apps; Resource Access Profiles; Device Configuration; Compliance Policy; Windows Update for Business; Endpoint Protection; Office Click-to-Run

# Troubleshooting Policies





# Device Settings in Microsoft Intune

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## Recommended Order

- Security Baselines
- Endpoint Security
- Device Configuration Profiles
- Settings Catalog or Templates
- Built-In Administrative Templates
- OMA-URI (Custom CSP)
- Custom ADMX ingestion (3rd. Party apps)
- PowerShell Scripts

## Optional:

- Proactive Remediation (Requires a Windows E3 license)





# Policy and Profile refresh cycles

[www.wpninjas.eu](http://www.wpninjas.eu)

## Existing Devices

- Windows 10 devices will scheduled check-in with the Intune service, which is estimated at: About every 8 hours

## Recently Enrolled Devices

- #1 - Every 3 minutes for 15 minutes
- #2 - Every 15 minutes for 2 hours
- #3 - Every 8 hours

## Manual refresh

- Open the Company Portal app and sync the device to immediately check for policy or profile updates.
- This device check-in will not refresh the already applied Policy CSP settings.
- Trigger Task Scheduler (Recommended for troubleshooting)
- Scripted methods



Computer Management (Local)

System Tools

Task Scheduler

Task Scheduler Library

Intel

Lenovo

Microsoft

Intune

Office

OneCore

Windows

.NET Framework

Active Directory Rights Management S

AppID

Application Experience

ApplicationData

AppxDeploymentClient

Autoch

BitLocker

Bluetooth

BrokerInfrastructure

CertificateServicesClient

Chkdsk

Clip

CloudExperienceHost

Customer Experience Improvement Pr

Data Integrity Scan

Defrag

Device Information

Device Setup

DeviceDirectoryClient

Diagnosis

DirectX

DiskCleanup

DiskDiagnostic

DiskFootprint

DUSM

EDP

EnterpriseMgmt

BF34185C-4364-40CF-A364-98DBD5B8ECB7

VirtulizationBasedIsolation

ExploitGuard

Feedback

Name	Status	Triggers
Login Schedule created by enrollment client	Ready	At log on of any user
OS Edition Upgrade event listener created by enrollment client	Ready	Custom Trigger
Passport for Work alert created by enrollment client	Ready	On event - Log: Microsoft-Windows-User Device Registration/Admin, Source: Microsoft-Windows-User Device Registration
Provisioning initiated session	Ready	
PushLaunch	Ready	Custom Trigger
PushRenewal	Ready	Multiple triggers defined
PushUpgrade	Ready	At 16:15 on 18-01-2020
Schedule #1 created by enrollment client	Ready	At 23:24 on 16-05-2019 - After triggered, repeat every 00:03:00 for a duration of 15 minutes.
Schedule #2 created by enrollment client	Ready	At 23:39 on 16-05-2019 - After triggered, repeat every 15 minutes for a duration of 02:00:00.
Schedule #3 created by enrollment client	Ready	At 01:39 on 17-05-2019 - After triggered, repeat every 08:00:00 indefinitely.
Schedule created by enrollment client for renewal of certificate warning	Ready	At 23:21 on 01-04-2020 - After triggered, repeat every 7.00:00:00 for a duration of 10.00:00:00.
Schedule to run OMADMClient by client	Ready	
Schedule to run OMADMClient by server	Ready	
Win10 S Mode event listener created by enrollment client	Ready	Custom Trigger

[General](#) [Triggers](#) [Actions](#) [Conditions](#) [Settings](#) [History \(disabled\)](#)

When you create a task, you must specify the action that will occur when your task starts. To change these actions, open the task property pages using the Properties command.

Action	Details
Start a program	%windir%\system32\deviceenroller.exe /o "BF34185C-4364-40CF-A364-98DBD5B8ECB7" /c /b



# Intune notifications / Sync immediately

[www.wpninjas.eu](http://www.wpninjas.eu)

- Some actions will trigger a sync notification to the device
- When a Policy, Profile, or App is:
  - Assigned (or unassigned)
  - Updated
  - Deleted
- Current Limitation:
  - Only the first 200 devices will be updated !
  - By design (to avoid denial of service)
  - Workaround: Use script to connect to all clients and force a sync





# Policy/Profile Conflicts

[www.wpninjas.eu](http://www.wpninjas.eu)

- Compliance policy settings always have precedence over configuration profile settings.
- Compliance policy conflicts: The most restrictive compliance policy setting applies.
- Conflict is shown in Intune. Manually resolve these conflicts.
  - By default the first created policy will “win”





# Troubleshooting MDM Policies

www.wpninjas.eu

- C:\Users\Public\Documents\MDMDiagnostics\MDMDiagReport.html

The screenshot shows a web browser window with the following content:

- Header: ← Settings
- Title: Managed by APENTO
- Section: Advanced Diagnostic Report
- Text: Your IT or support person may want additional information to help with troubleshooting.
- Button: Create report (highlighted with a red arrow)
- Text: Have a question?
- Text: Get help



## Managed policies

Policies that are not set to the default value or have a configuration source applied

Area	Policy	Default Value	Current Value	Target	Dynamic	Config Source
Authentication	EnableWebSignIn	0	1	device		BF34185C-4364-40CF-A364-98DBD5B8ECB7=1
BitLocker	EncryptionMethodByDriveType			device		BF34185C-4364-40CF-A364-98DBD5B8ECB7=<enable d/><data id="EncryptionMethodWithXtsOsDropDown_Name" value="7"/><data id="EncryptionMethodWithXt sFdvDropDown_Name" value="7"/><data id="Encrypti onMethodWithXtsRdvDropDown_Name" value="7"/>
BitLocker	SystemDrivesRecoveryOptions			device		BF34185C-4364-40CF-A364-98DBD5B8ECB7=<enable d/><data id="OSAllowDRA_Name" value="true"/><dat a id="OSRecoveryPasswordUsageDropDown_Name" val ue="2"/><data id="OSRecoveryKeyUsageDropDown_N ame" value="2"/><data id="OSHideRecoveryPage_N ame" value="false"/><data id="OSActiveDirectoryBackup_ Name" value="true"/><data id="OSActiveDirectoryBack upDropDown_Name" value="1"/><data id="OSRequire ActiveDirectoryBackup_Name" value="true"/>
BitLocker	RequireDeviceEncryption	0	1	device		BF34185C-4364-40CF-A364-98DBD5B8ECB7=1
Defender	AllowArchiveScanning	1		device		BF34185C-4364-40CF-A364-98DBD5B8ECB7=1
Defender	RealTimeScanDirection	0		device		BF34185C-4364-40CF-A364-98DBD5B8ECB7=1
Defender	AllowEmailScanning	0		device		BF34185C-4364-40CF-A364-98DBD5B8ECB7=1
Defender	AllowOnAccessProtection	1		device		BF34185C-4364-40CF-A364-98DBD5B8ECB7=1
Defender	AllowIntrusionPreventionSystem	1		device		BF34185C-4364-40CF-A364-98DBD5B8ECB7=1
Defender	PUAProtection	0		device		BF34185C-4364-40CF-A364-98DBD5B8ECB7=2
Defender	AVGCPULoadFactor	50		device		BF34185C-4364-40CF-A364-98DBD5B8ECB7=50
Defender	CloudProtection	1		device		BF34185C-4364-40CF-A364-98DBD5B8ECB7=1



# Intune Troubleshooting Pane

www.wpninjas.eu

- Intune portal page
  - <https://aka.ms/intunetroubleshooting>
- Displays information focused around a particular user
  - See info about assignments, devices, enrollment failures, etc.
- For more info:  
<https://docs.microsoft.com/en-us/intune/help-desk-operators>

Dashboard > Microsoft Intune - Troubleshoot

## Microsoft Intune - Troubleshoot

Search (Ctrl+ /)

Device compliance

Device configuration

Devices

Client apps

Device security

eBooks

Conditional access

Exchange access

Users

Groups

Roles

Software updates

Monitoring

Diagnostics settings

Help and support

Help and support p-desk-operators#enrollment-failure-reference

Tenant Status

Troubleshoot

Display name **Anna Anderson** Principal name anna@contoscm.com Email Change

ASSIGNMENTS

ASSIGNE...	NAME	OS	TYPE	LAST MODIFIED
Included	AutopilotBranding	Windows P...	required	4/20/2019 12:27:31 AM
Included	Chrome		required	3/10/2019 7:20:55 AM
Included	Office 365 ProPlus (cu...	Windows 10...	required	3/28/2019 6:23:43 PM
Included	paint.net		required	2/1/2019 10:01:20 AM
Included	VPNSetup	Windows P...	required	11/27/2018 7:03:40 AM

GROUP MEMBERSHIP

AutoPilot Users

DEVICES

DEVIC...	...	A...	O...	INTU...	AZURE ...	A...	OS	...	LAST ...
AAD-573...	MDM	Not ...	Corp...	Yes	NA	NA	Win...	10.0...	4/12/201...



# Device Profiles - Where is my logs?

www.wpninjas.eu

- Event viewer is your new best friend
  - Microsoft-Windows-DeviceManagement-Enterprise-Diagnostics-Provider

The screenshot shows the Windows Event Viewer interface. On the left, there is a navigation pane with a tree view of event sources. The 'DeviceManagement-Enterprise-Diagnostics-Provider' source is expanded, showing its sub-categories: Admin and Operational. Under Admin, several events are listed. The main pane displays a table of events with columns for Level, Date and Time, and Source. The 'Admin' category has 1,588 events. The 'Operational' category has 1 event. The 'Source' column for all events under 'Admin' is 'DeviceManagement-Enterprise-Diagnostics-Pro...'. The 'Level' column shows mostly 'Information' events, with one 'Error' event highlighted in blue. The 'Date and Time' column shows dates and times ranging from 13-08-2019 09:41:10 to 13-08-2019 09:41:51.

Level	Date and Time	Source
Information	13-08-2019 09:41:51	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:51	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:51	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:50	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:50	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:50	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:48	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:48	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:48	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:47	DeviceManagement-Enterprise-Diagnostics-Pro...
Error	13-08-2019 09:41:11	DeviceManagement-Enterprise-Diagnostics-Pro...
Error	13-08-2019 09:41:11	DeviceManagement-Enterprise-Diagnostics-Pro...
Error	13-08-2019 09:41:11	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:11	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:11	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:10	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:08	DeviceManagement-Enterprise-Diagnostics-Pro...



# Enable debug mode

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The screenshot shows the Windows Event Viewer interface. The left pane displays a tree view of event sources, with the 'DeviceManagement-Enterprise-Diagnostics-Provider' source expanded to show its sub-categories: Admin, Operational, and Debug. The 'Debug' category is selected, indicated by a blue border around its icon. The right pane lists events from this source. The table has three columns: Level, Date and Time, and Source. The events are mostly 'Information' level, with a few 'Error' level events interspersed. All events were recorded on 13-08-2019 at 09:41:11 or 09:41:10. The source for all events is 'DeviceManagement-Enterprise-Diagnostics-Pro...'. A yellow horizontal bar is overlaid across the top of the screenshot.

Level	Date and Time	Source
Information	13-08-2019 09:41:51	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:51	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:51	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:50	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:50	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:50	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:48	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:48	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:48	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:47	DeviceManagement-Enterprise-Diagnostics-Pro...
Error	13-08-2019 09:41:11	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:11	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:11	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:10	DeviceManagement-Enterprise-Diagnostics-Pro...
Information	13-08-2019 09:41:10	DeviceManagement-Enterprise-Diagnostics-Pro...

# Intune Management Extension





# Intune Management Extension

[www.wpninjas.eu](http://www.wpninjas.eu)

- An Introduction...
  - Know it
  - Plan it
  - Own it!





# Intune Management Extension Pre-requisites

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- Installed only on “Corporate” and “personal” devices (personal device context only, added in late 2020-but not supported...)
- Windows 1703+ to be sure of support for bulk enrolled devices

 **Note**

Once the Intune management extension prerequisites are met, the Intune management extension is installed automatically when a PowerShell script or Win32 app is assigned to the user or device. For more information, see [Intune Management Extensions prerequisites](#).

PowerShell scripts, which are not officially supported on Workplace join (WPJ) devices, can be deployed to WPJ devices. Specifically, device context PowerShell scripts work on WPJ devices, but user context PowerShell scripts are ignored by design. User context scripts will be ignored on WPJ devices and will not be reported to the Microsoft Endpoint Manager console.

<https://docs.microsoft.com/en-us/intune/apps/intune-management-extension#prerequisites>



# What is a Corporate Device?

[www.wpninjas.eu](http://www.wpninjas.eu)

- The enrolling user is using a device enrollment manager account.
- The device enrolls through Windows Autopilot.
- The device enrolls through a bulk provisioning package.
- The device enrolls through GPO
  - or automatic enrollment from SCCM for co-management.





# Intune Management Extension Event log

www.wpninjas.eu

- Applications and services logs\Microsoft\Windows\DeviceManage...

The screenshot shows the Windows Event Viewer interface. On the left, the navigation pane lists various Windows services and providers. A red box highlights the 'DeviceManagement-Enterprise-Diagnostics-Provider' node under 'Admin'. An arrow points from this node to the main log viewer on the right. The log viewer has a title bar 'Admin Number of events: 1.792' and a filter bar 'Filtered: Log: Microsoft-Windows-DeviceManagement-Enterprise-Diagnostics-Provider/Admin; Levels: Critical, Error,'. The main table displays several error events. A blue callout bubble points to the event with ID 1924, which is highlighted with a red border. The event details are shown in a modal window at the bottom right.

Level	Date and Time	Source	Event ID	Task Ca...
Error	04/02/2020 17.02.45	Device...	404	None
Error	04/02/2020 09.38.12	Device...	404	None
Error	04/02/2020 09.36.49	Device...	404	None
Error	04/02/2020 04.45.16	Device...	404	None
Error	04/02/2020 01.02.38	Device...	404	None
Error	03/02/2020 17.02.42	Device...	404	None
Error	03/02/2020 16.04.37	Device...	1903	None
Error	03/02/2020 16.04.32	Device...	1903	None
Error	03/02/2020 12.25.21	Device...	404	None
Error	03/02/2020 12.22.39	Device...	404	None
Error	03/02/2020 12.02.23	Device...	404	None
Error	03/02/2020 12.00.37	Device...	404	None
Error	03/02/2020 11.59.50	Device...	454	None
Error	03/02/2020 11.59.43	Device...	1924	None

Look for event id 1924

Event 1924, DeviceManagement-Enterprise-Diagnostics-Provider

General Details

EnterpriseDesktopAppManagement CSP: An application install has failed. Examine the MSI log (C:\WINDOWS\system32\config\systemprofile\AppData\Local\mdm\093ea47b-ef2c-4f46-a022-6f57a50e39a2.log) for more details. Install command: ("C:\WINDOWS\system32\msiexec.exe" /quiet /I "C:\WINDOWS\system32\config\systemprofile\AppData\Local\mdm\093ea47b-ef2c-4f46-a022-6f57a50e39a2.log" /qn /I "C:\WINDOWS\system32\config\systemprofile\AppData\Local\mdm\{B9BDE5CE-DD33-4D55-A992-A874F601627D}.msi"), MSI ProductCode: 093ea47b-ef2c-4f46-a022-6f57a50e39a2, User SID: (S-0-0-0000000000-0000000000-00000000-0000), Result: (Fatal error during installation.).



# Intune Management Extension File System

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« Local Disk (C:) > Program Files (x86) > Microsoft Intune Management Extension > Content >

The screenshot shows a Windows File Explorer window with the following details:

- Path:** Local Disk (C:) > Program Files (x86) > Microsoft Intune Management Extension > Content >
- Left pane (Navigation):** Shows 'DetectionScripts', 'Incoming', and 'Staging' folders.
- Right pane (Content):** A list of files and folders in the 'Content' directory. The list includes:
  - Quick access
  - APENTO
  - OneDrive - APENTO
  - OneDrive - RONNIPEDERSEN.COM
  - This PC
  - Network
  - fi (File folder)
  - fr (File folder)
  - hu (File folder)
  - it (File folder)
  - ja (File folder)
  - ko (File folder)
  - nl (File folder)
  - no (File folder)
  - pl (File folder)
  - Policies (File folder)
  - pt-br (File folder)
  - ro (File folder)
  - ru (File folder)
  - sv (File folder)
  - tr (File folder)
  - zh-HANS (File folder)
  - zh-HANT (File folder)
  - AgentExecutor (Application)
  - AgentExecutor.exe.config (CONFIG File)
  - ClientHealthEval (Application)
  - ClientHealthEval.exe.config (CONFIG File)
  - concr140.dll (Application exten...)
  - HealthCheck (XML Document)
  - HealthReport.json (JSON File)
  - ImeUI (Application)
  - ImeUI.exe.config (CONFIG File)
- Bottom status bar:** Shows '50 items'.



# Intune Management Extension Log files

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- Log files: "C:\ProgramData\Microsoft\IntuneManagementExtension\logs"

A screenshot of a Windows File Explorer window titled 'Logs'. The address bar shows the path: This PC > Local Disk (C:) > ProgramData > Microsoft > IntuneManagementExtension > Logs. The main area displays a list of log files:

Name	Date modified	Type	Size
_IntuneManagementExtension	8/15/2019 2:20 PM	Text Document	2,049 KB
AgentExecutor	5/29/2019 9:11 AM	Text Document	8 KB
ClientHealth	8/16/2019 9:47 AM	Text Document	396 KB
IntuneManagementExtension	8/16/2019 10:54 AM	Text Document	979 KB



# Intune Management Extension The Registry

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- Yellow: IME Root Registry Key
- Green: Azure AD Object ID of the User
- Red: Application / Policy GUID

The screenshot shows the Windows Registry Editor with the following path selected:

Computer\HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\IntuneManagementExtension\Policies\ff7aeb45-9c78-425c-aecd-46f8b2885210\b3ec6261-4b72-41b2-94af-027ce04fcc5c

The left pane displays the registry structure under the IntuneManagementExtension key, including subkeys for Content, DownloadJobs, Inventories, InventorySetting, Policies, Proxies, RebootSettings, Settings, SideCarPolicies, Win32Apps, and two additional ff7aeb45-9c78-425c-aecd-46f8b2885210 keys.

The right pane shows a table of registry values for the selected key:

Name	Type	Data
(Default)	REG_SZ	(value not set)
DownloadCount	REG_DWORD	0x00000001 (1)
ErrorCode	REG_DWORD	0x00000000 (0)
InternalVersion	REG_DWORD	0x00000001 (1)
LastUpdatedTim...	REG_SZ	03/02/2020 11.50.29
PolicyHash	REG_SZ	9t14ElVlp1sIS/JA3/Viu3D0llsfk/HLLxCKM5VOJE=
Result	REG_SZ	Success
ResultDetails	REG_SZ	My super advanced PowerShell script has executed!

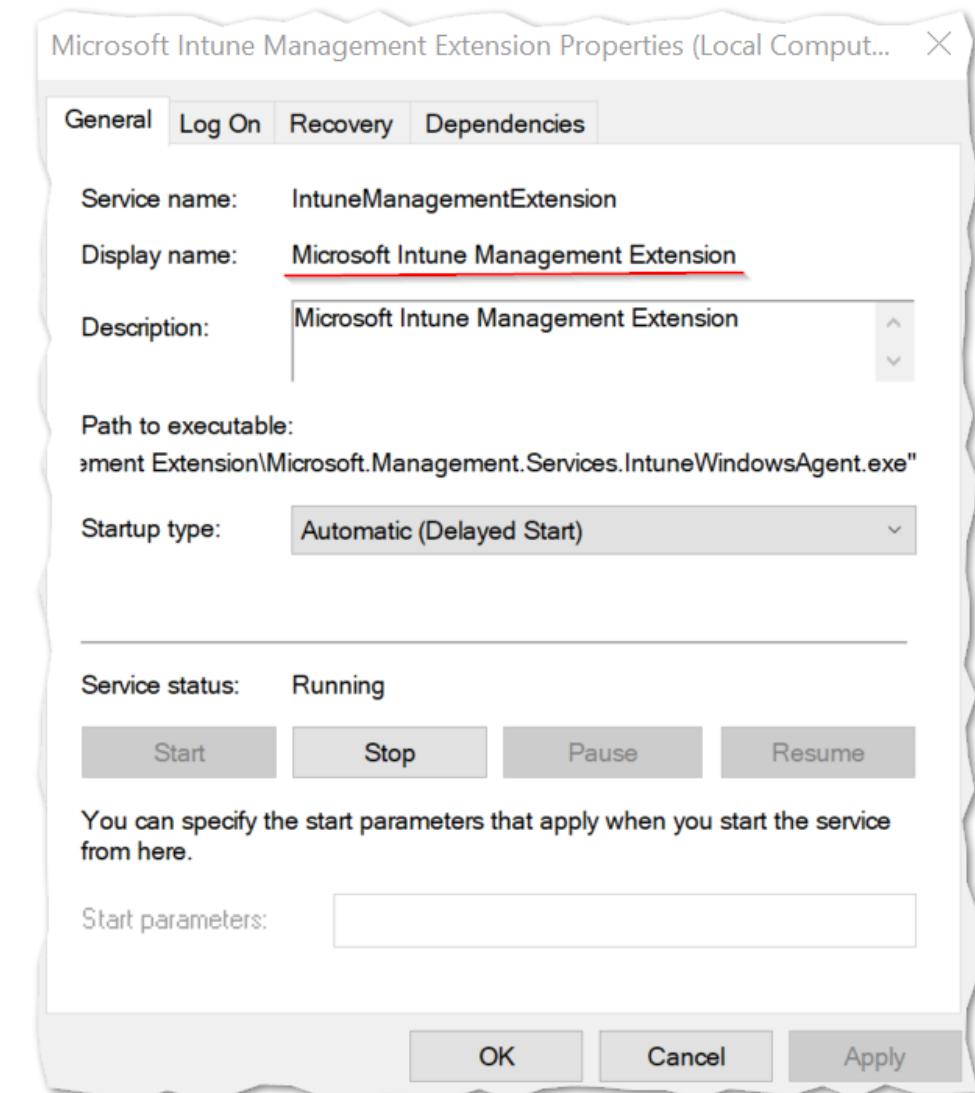
A red arrow points from the green highlighted policy GUID in the left pane to the green highlighted policy GUID in the right pane, indicating they refer to the same registry entry.



# Intune Management Extension

www.wpninjas.eu

- Troubleshooting
  - Check that the service is installed and running
  - Verify deployment in MDMDiagReport.html
  - Are you meeting the Prerequisites?  
<https://docs.microsoft.com/en-us/intune/apps/intune-management-extension#prerequisites>



# Win32 Apps





## TIP #1

---

- **Always** test the application outside of Intune first !!!





# PowerShell App Deployment Toolkit

[www.wpninjas.eu](http://www.wpninjas.eu)

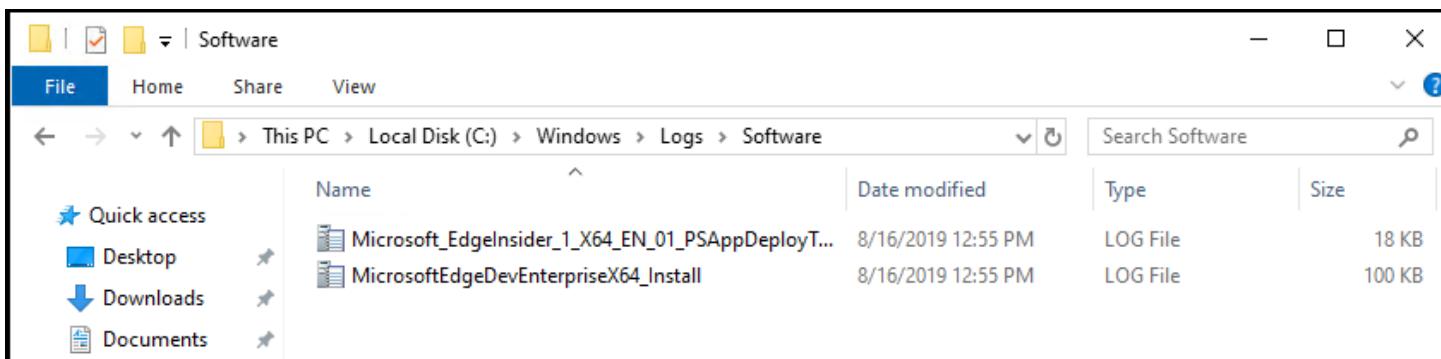
- **Easy To Use** – Any PowerShell beginner can use the template!
- **Consistent** – Consistent look and feel for all application deployments.
- **Powerful** – install/uninstall, setting registry keys, copying files, etc.
- **User Interface** – Custom dialogs boxes, progress dialogs and balloon tips.
- **Localized** – The UI is localized in several languages.
- **Extensible** – Can be extended to add custom scripts and functions.
- **Helpful** – Detailed logging of all actions performed



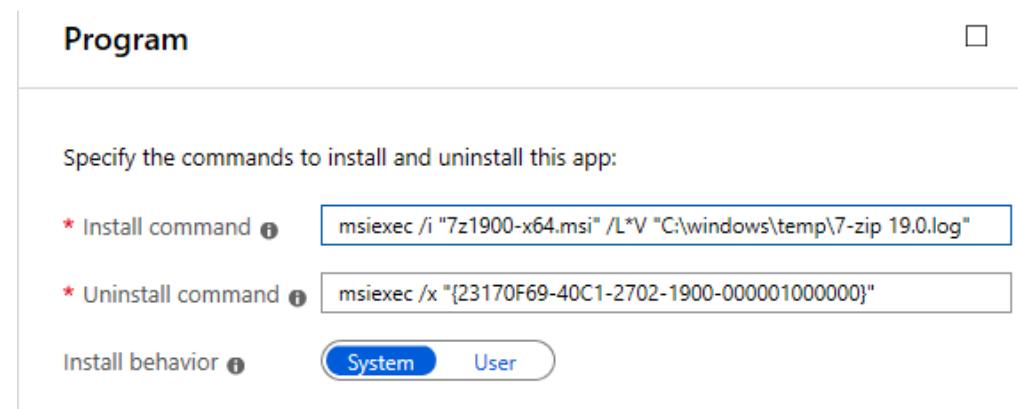
# Use the tools you know

www.wpninjas.eu

- PS App Deployment Toolkit logging example:



- Use /L\*V for MSiexec command lines so we have log files





# Microsoft 365 Apps Admin Center

[www.wpninjas.eu](http://www.wpninjas.eu)

<https://config.office.com/>

- Apps Health
- OneDrive Sync
- Inventory
- Policy Management

# Windows AutoPilot

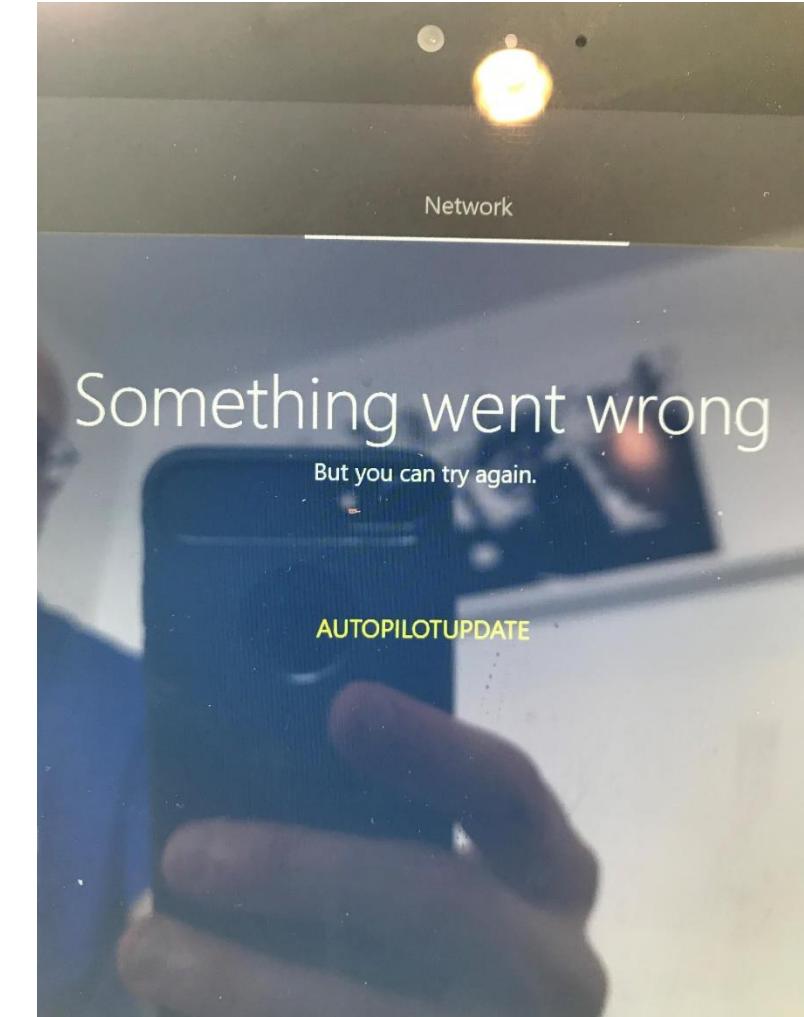




# Network

[www.wpninjas.eu](http://www.wpninjas.eu)

- A network for enrollment is needed
- Guest network, open network
- All ports, URL required and must be open





# Network issues

[www.wpninjas.eu](http://www.wpninjas.eu)

- Pie-Hole blocking all traffic to Microsoft URLs used.
- Home routers/Wi-Fi with IPS.

“My son setup our home network, no idea what he did”.

“It is a different organization name showing up when I start my computer”.



# Shift+F10

[www.wpninjas.eu](http://www.wpninjas.eu)

- Great for troubleshooting
  - Can be a security concern for some customers
- Disable by placing **DisableCMDRequest.TAG** in the **C:\Windows\Setup\Scripts** folder.
  - Needs to be there when the computer starts up. Must be added by OEM.



# Licensing

[www.wpninjas.eu](http://www.wpninjas.eu)

- User must have the appropriate license assigned
  - Microsoft Intune + Azure AD Premium
  - Enterprise Mobility + Security (EMS) E3/E5
  - Microsoft 365 Business Premium
  - Microsoft 365 E3 / E5
- Azure AD Premium P1/P2 is required for Automatic enrollment

# Troubleshooting

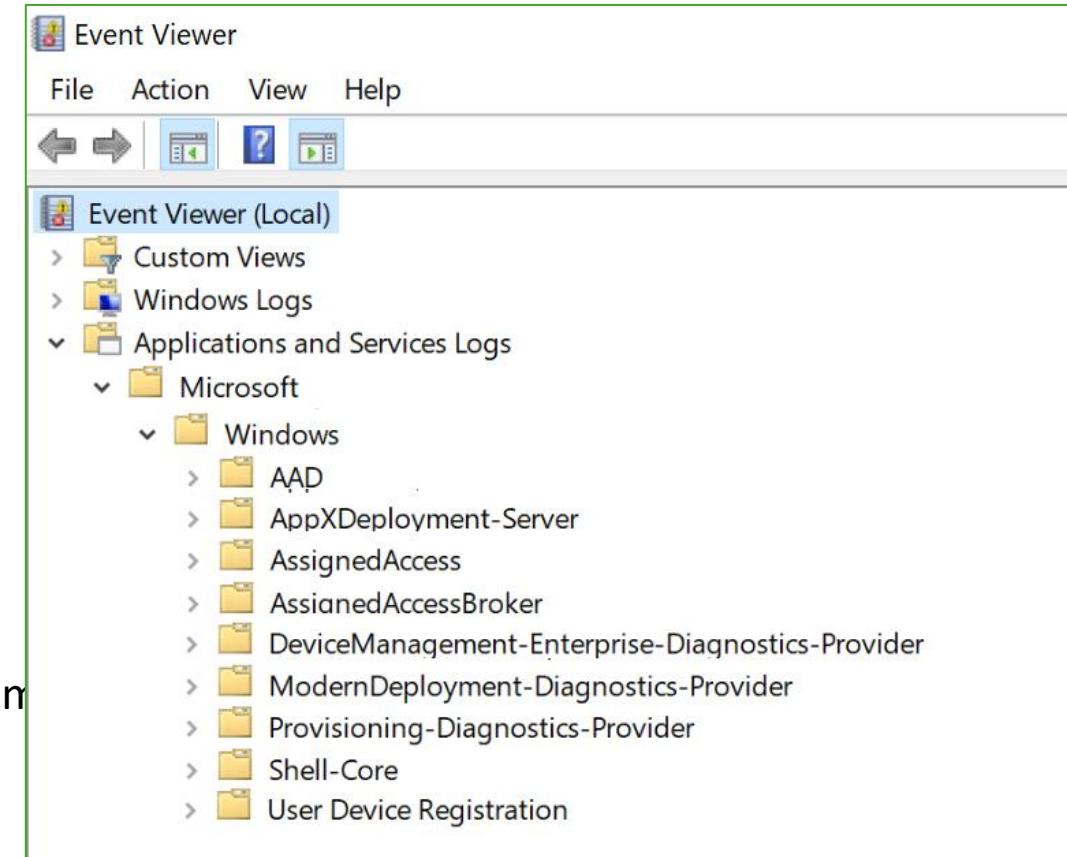




# Troubleshooting on Windows 10

[www.wpninjas.eu](http://www.wpninjas.eu)

- Grab all potentially-interesting information:
  - Event logs
  - Registry, configuration data
  - TPM details (1809+)
  - ETL trace files
- Windows 10 1803:
  - LicensingDiag.exe -cab C:\Autopilot.cab
- Windows 10 1809+:
  - MDMDiagnosticsTool.exe -area Autopilot;TPM -cab C:\ten
- Analyze offline





# Windows Autopilot Win32 Error Codes

[www.wpninjas.eu](http://www.wpninjas.eu)

- 8007 : Win32 errors (network, etc.)
  - 0x800705B4 = timeout
  - 0x80070774 = domain controller not found
- 801C : Azure AD join / device registration
  - 0x801C0003 = device authorization error (not authorized to join AAD, exceeded device limit)
- 8018 : MDM enrollment
  - 0x80180003 = authorization error (user not authorized to enroll)
  - 0x80180005 = server error (enrollment rejected, scenario not enabled, etc.)
  - 0x80180014 = device not supported (enrollment restriction)
  - 0x80180018 = no user license (AAD Premium or Intune)
- 8000: Windows errors
  - 0x80004005 = generic error (fail)



# Something went wrong.

This user is not authorized to enroll. You can try to do this again or contact your system administrator with the error code 801c0003.

Offline account

Try again





# Something went wrong.

There was an error with your license. You can try to do this again or contact your system administrator with the error code 80180018.

Offline account

Try again





# Subscription based licensing

[www.wpninjas.eu](http://www.wpninjas.eu)

- Easiest way of upgrading to Enterprise from pro
- Re-activated every 30 days
- Can trigger the “access work or school as ...”
- Important: Hybrid Joined devices will automatically “migrate” from MAK, KMS and AD-based activation to Subscription when a user with a license logs on.



# Still have problems?

- You are not alone... But we'll get there...

[www.wpninjas.eu](http://www.wpninjas.eu)

MICROSOFT INTUNE

## Windows Autopilot oddities

BY MICHAEL NIEHAUS ON AUGUST 15, 2019 • ( LEAVE A COMMENT )

Sometimes I can't explain them, but I can at least pass them on so that you don't tear your hair out trying to figure out what's going on.

- The enrollment status page doesn't track PowerShell scripts executed via Intune Management Extensions. They will be sent to the machine along with all the other policies, and if you are installing a bunch of apps it's quite possible that the PowerShell scripts will install. But it's not guaranteed; they may continue running after ESP has completed.
- The enrollment status page doesn't actually track device configuration policies. You might notice that it shows "0 of 1" for security policies, and that quickly changes to "1 of 1." But if you have created multiple device configuration policies in Intune, as well as security baselines, they aren't explicitly tracked. Again, if you install any apps it's quite likely that they will be processed and applied before ESP completes.
- Win32 app install failures cause ESP timeout errors. If you install a Win32 app via Intune Management Extensions and that app install fails, typically with an unexpected return code, that error isn't reported by the ESP. (You will see it in the Intune Management Extensions log and in the Intune portal.) Instead, the ESP will always wait until it times out.
- Win32 app install detection rule errors cause an ESP timeout error. If you install a Win32 app via Intune Management Extensions but you don't have the detection rules right, Intune Management Extensions will assume the app failed to install and will try to install it again – over and over again. (I've had a number of people say "but it works fine when not using ESP. Well sure, but Intune is still installing it over and over again, you just don't notice. Make sure you get your detection rules right.)
- ESP settings can be complicated. Currently Intune targets ESP settings to users, not to devices. But there are some scenarios (e.g. white glove, self-deploying mode) where there isn't a user. In those cases, ESP will use a default set of policies. So you might expect to see longer timeouts or a list of filtered apps, but that doesn't actually happen. (There's more to it, but it gives me a headache trying to reason it all out, so I'll stick with the simple explanation.)
- Some Windows Autopilot scenarios (e.g. self-deploying mode, user-driven Hybrid Azure AD Join) will fail with an enrollment error (80180005) if you assign the Autopilot profile via Microsoft Store for Business instead of through Intune. So don't assign profiles via Microsoft Store for Business.

That's all I can think of right at this moment, but I'm sure there are more...



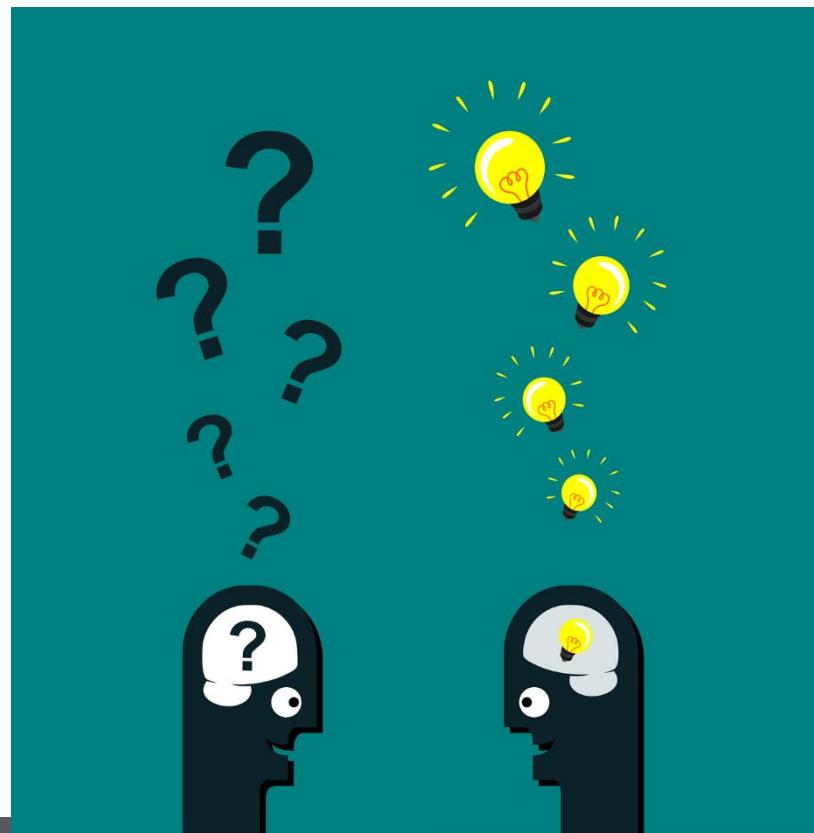


# Share your ideas

[www.wpninjas.eu](http://www.wpninjas.eu)

<http://microsoftintune.uservoice.com/>

<http://configurationmanager.uservoice.com/>





[www.wpninjas.eu](http://www.wpninjas.eu)

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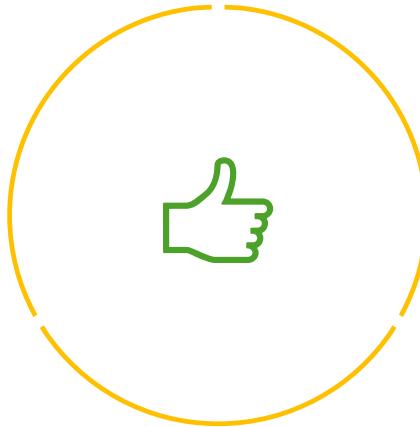
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*Workplace Ninja Virtual Edition 2021*

# Software Updates





# Expedite Windows 10 quality updates

[www.wpninjas.eu](http://www.wpninjas.eu)

- You can now expedite the install of the most recent Windows 10 security updates as quickly as possible on devices you manage with Microsoft Intune
- Not all updates can be expedited
  - Currently, only Windows 10 security updates that can be expedited are available to deploy with Windows 10 quality updates policy.
- Both Intune and Co-Managed



# Expedite Windows 10 quality updates

www.wpninjas.eu

- Updates are identified by their release date
- Updates that include the letter B in their name identify updates that released as part of a patch Tuesday event.

The screenshot shows the Microsoft Endpoint Manager admin center interface. The title bar reads "Microsoft Endpoint Manager admin center". The left sidebar has a "Devices" section selected. The main area is titled "Create quality update profile".  
The "Settings" tab is active, showing:

- Name \***: Test Policy for expedited updates
- Description**: Test of the expedited update feature in Microsoft Intune

Below these fields is an informational message:  
The only dedicated quality update control currently available other than the existing Windows 10 Update Rings policy is the ability to expedite quality updates for devices that fall behind a specified patch level. Additional controls will be available in the future.

Below that is a warning message:  
While expediting software updates can help decrease the time to get to compliance when necessary, it has a larger impact on end-user productivity. The chances that they will experience a restart during business hours is significantly increased.

At the bottom, there is a dropdown menu for "Expedite installation of quality updates if device OS version less than: \*":  
05/11/2021 - 2021.05 B Security Updates for Windows 10  
05/11/2021 - 2021.05 Security Updates for Windows 10  
04/13/2021 - 2021.04 B Security Updates for Windows 10  
03/09/2021 - 2021.03 B Security Updates for Windows 10



# Requirements

www.wpninjas.eu

- Windows 10 1809 or newer
- KB4023057: Update for Windows 10 Update Service components
- Microsoft Update Health Tools
- Get-WmiObject -Class Win32\_Product | Where-Object {\$\_ .Name -match "Microsoft Update Health Tools"}

```
IdentifyingNumber : {99FAF70F-9B61-4AB0-9EC0-B31F98FFDC4A}
Name              : Microsoft Update Health Tools
Vendor            : Microsoft Corporation
Version           : 2.75.0.0
Caption           : Microsoft Update Health Tools
```

- <https://docs.microsoft.com/en-us/mem/intune/protect/windows-10-expedite-updates>



# Monitoring and reporting

www.wpninjas.eu

Microsoft Endpoint Manager admin center

Home > Reports

Reports | Windows updates (preview) ...

Search (Ctrl+ /)

Overview

Device management

- Device compliance
- Group policy analytics (preview)
- Windows updates (preview)**
- Cloud attached devices (preview)

Endpoint security

- Microsoft Defender Antivirus
- Firewall

Analytics

- Endpoint analytics

Intune data warehouse

- Data warehouse

Azure monitor

- Diagnostic settings
- Log analytics
- Workbooks

Summary Reports

Last refreshed on: Not available

Windows Feature updates

In progress	Success	Error	Rollback initiated or comp...	Cancelled	On hold	Total
-----	-----	-----	-----	-----	-----	-----

Profile    Versions    Success    Error    In progress    Rollback initiated ...    Cancelled    On hold

Refresh to see data

Windows Expedited Quality updates

In progress	Success	Error	Cancelled	Total
0 devices	0 devices	0 devices	0 devices	0 devices

Profile    Versions    Success    Error    In progress    Cancelled

Refresh to see data



# Device Reporting

www.wpninjas.eu

Microsoft Endpoint Manager admin center

Home > Monitor

## Monitor | Windows Expedited update failures (Preview)

Search (Ctrl+ /) Refresh Columns

Showing 1 to 1 of 1 records

Profile ↑	Devices with errors ↑	Release Date ↑
Test Policy for expedited updates	0	2021-05-11T00:00:00Z

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Configuration

- Assignment status
- Assignment failures (preview)
- Devices with restricted apps
- Encryption report
- Certificates

Compliance

- Noncompliant devices
- Devices without compliance policy
- Setting compliance
- Policy compliance
- Noncompliant policies (preview)
- Windows health attestation report
- Threat agent status

Enrollment

- Autopilot deployments (preview)
- Enrollment failures
- Incomplete user enrollments

Software updates

- Per update ring deployment state
- Installation failures for iOS devices
- Feature update failures (Preview)
- Windows Expedited update fail...

Others



# Licensing (Expedite Quality Updates)

[www.wpninjas.eu](http://www.wpninjas.eu)

- Microsoft Intune
- Your must have one of the following subscriptions:
  - Windows 10 Enterprise E3 or E5
  - Windows 10 Education A3 or A5
  - Windows Virtual Desktop Access E3 or E5
  - **Microsoft 365 Business Premium (just added)**



# Endpoint analytics

www.wpninjas.eu

All services > Reports > Endpoint analytics

## Endpoint analytics | Application reliability (preview) ...

Search (Ctrl+ /)

«

i Overview

g Settings

### Reports

Startup performance

Proactive remediations

Recommended software

Application reliability (preview)

App reliability score

App performance

Model performance

Device performance

OS versions performance

Healthy, performant applications enable people in your organization to be productive. Review your current app reliability score and see how it compares to the selected baseline. Refer to the insights and recommendations to learn how to improve your App reliability score. [Learn more.](#)

Baseline

Filter

Insights

We don't

App reliability score i

? Insufficient data

App reliability score

Baseline i

0

50