

May 31 - June 2, Oslo Spektrum

10th anniversary

Troubleshooting the MEM Managed Windows Client





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Agenda

- Tools
- Troubleshooting Subscription based activaton
- Troubleshooting Enrollment
- Troubleshooting Policies
- Applications
- Windows Autopilot



Remote Control

- 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)



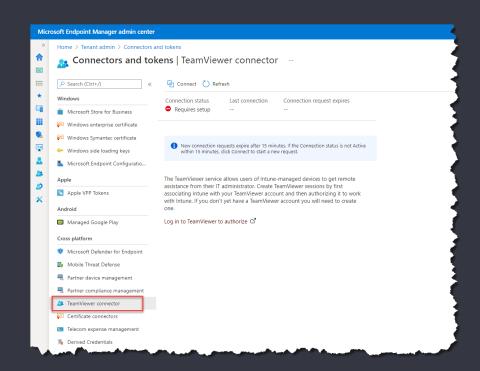
https://oliverkieselbach.com/2020/03/03/guick-assist-the-built-in-remote-control-in-windows-10/



Configure the TeamViewer Connector

- Easy setup and configuration
- There are other options:
 - Beyond Trust
 - LogMeIn
 - Remote Help!

... And many more but **only**TeamViewer integrates in the admin console (for now)



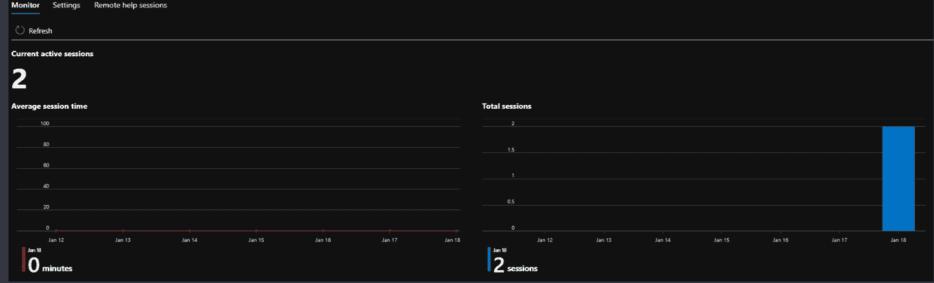


Microsoft Remote Help

- Adv management pack add-on
- Auditing in the MEM portal

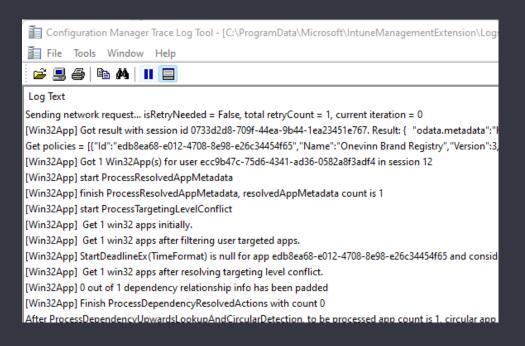






CMtrace

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



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



More Tools – Advanced Troubleshooting

- Wireshark
- Fiddler
- Netmon
- 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 -->
  3 <!-- 8/31/2021 9:03:03 PM -->
  4 <SyncML xmlns="SYNCML:SYNCML1.2">
      <SvncHdr>
        <VerDTD>1.2</VerDTD>
        <VerProto>DM/1.2</VerProto>
        <SessionID>30</SessionID>
        <MsgID>1</MsgID>
          <LocURI>https://r.manage.microsoft.com/devicegatewayproxy/cimhandler.ashx</LocURI>
        </Target>
 13
          <LocURI>8A39C151B9A1CC59557F513B7C0E9DFA3E8C03268E259C3126346B7668E8EA2B/LocURI>
          <LocName>dummv</LocName>
        </Source>
 17
        <Cred>
 18
            <Format xmlns="syncml:metinf">b64</Format>
 19
 20
            <Type xmlns="syncml:metinf">syncml:auth-md5</Type>
 21
          <Data>EVEkoFZcVgPM+ESnu9IC0g==</Data>
        </Cred>
      </SyncHdr>
      <SvncBody xmlns:msft="http://schemas.microsoft.com/MobileDevice/MDM">
        <Alert>
          <CmdID>2</CmdID>
          <Data>1201</Data>
 29
        </Alert>
        <Alert>
 31
          <CmdID>3</CmdID>
          <Data>1224</Data>
                                                                                                               Clear Stream
                                                                                                                                Save As
```



```
<Status>
1533
1534
       <CmdID>32</CmdID>
1535
       <MsgRef>2</MsgRef>
1536
       <CmdRef>25</CmdRef>
       <Cmd>Get</Cmd>
1537
1538
       <Data>200</Data>
      </Status>
1539
1540
      <Results>
       <CmdID>33</CmdID>
1541
       <MsgRef>2</MsgRef>
1542
       <CmdRef>25</CmdRef>
1543
1544
        <Item>
1545
         <Source>
          <LocURI>./DevDetail/Ext/DeviceHardwareData</LocURI>
1546
1547
         </Source>
1548
         1549
       </Item>
      </Results>
1550
      <Status>
1551
       <CmdID>34</CmdID>
1552
1553
       <MsgRef>2</MsgRef>
1554
       <CmdRef>26</CmdRef>
```



```
<SyncML xmlns="SYNCML:SYNCML1.2" xmlns:A="syncml:metinf">
 <SyncHdr>
   <VerDTD>1.2</VerDTD>
   <VerProto>DM/1.2</VerProto>
   <SessionID>120</SessionID>
   <MsgID>6</MsgID>
   <Target>
     <LocURI>8A39C151B9A1CC59557F513B7C0E9DFA3E8C03268E259C3126346B7668E8EA2B/LocURI>
   </Target>
   <Source>
     <LocURI>https://r.manage.microsoft.com/devicegatewayproxy/cimhandler.ashx</LocURI>
   </Source>
    <Meta>
     <A:MaxMsgSize>524288</A:MaxMsgSize>
   </Meta>
 </SyncHdr>
 <SyncBody>
   <Status>
     <CmdID>1</CmdID>
     <MsgRef>6</MsgRef>
     <CmdRef>0</CmdRef>
     <Cmd>SyncHdr</Cmd>
     <Data>200</Data>
    </Status>
    <Replace>
     <CmdID>2</CmdID>
     <Item>
       <Target>
         <Locuri>./Vendor/MSFT/NodeCache/MS%20DM%20Server/Nodes/4929/NodeUri</Locuri>
       </Target>
        <Data>./cimv2/MDM WebApplication/MDM WebApplication.PackageName=CCMEXEC%20-%20Not%20Managed/PackageUrl</Data>
     </Item>
   </Replace>
    <Replace>
     <CmdID>3</CmdID>
     <Item>
        <Target>
         <LocURI>./Vendor/MSFT/NodeCache/MS%20DM%20Server/Nodes/4929/ExpectedValue</LocURI>
       </Target>
       <Data>https://ccmexec.com/</Data>
```



Log Files



Collect diagnostics from a Windows Device

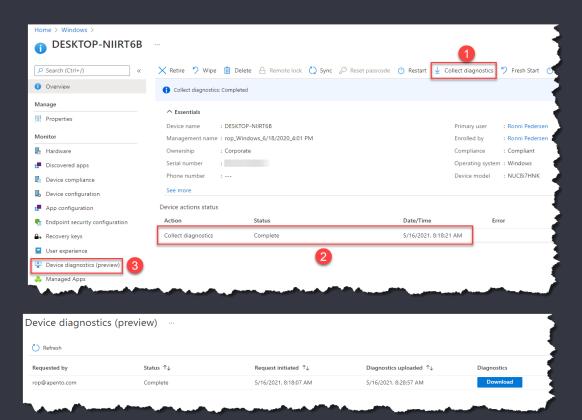
- Collecting Diagnostic Logs from Windows Devices
 - Windows 10 1909 or newer
 - Windows 11
 - HoloLens 2
 - Both Intune and Co-Managed devices
 - Corporate-owned devices only



- More information:
 - https://docs.microsoft.com/en-us/mem/intune/remote-actions/collectdiagnostics



Collecting Diagnostic Logs





Configuration Policy Process



Microsoft 365 Apps Policy

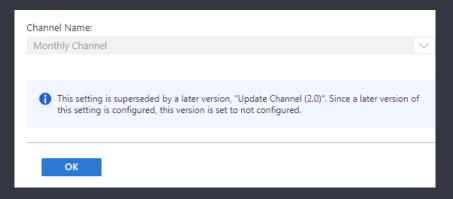
- Endpoint Manager Configuration:
 - Policy 1: Enable Microsoft 365 Apps Automatic Updates
 - Policy 2: Set the Update Channel
- Client-Side debugging:
 - #1 Check the Intune registry keys
 - #2 Check the Office registry keys
 - #3 Force Office automatic updates to run
 - #4 Force the Office synchronization to update account information

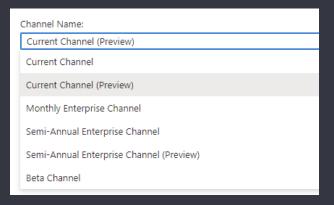


Administrative Templates

Example using Administrative Templates









Using Settings Catalog (Preview)

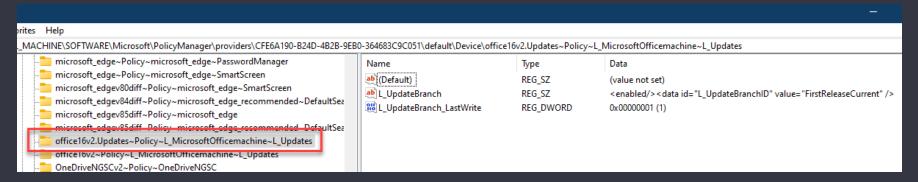
- Policy Configuration:
 - Enable Microsoft 365 Apps Automatic Updates
 - Set the Update Channel

1 Configuration settings 2 Review +	save	
+ Add settings ①		
△ Microsoft Office 2016 (Machine)		Remove category
Updates	Remove subcategory	
14 of 16 settings in this subcategory a	re not configured	
Enable Automatic Updates ①	Enabled	Θ
Update Channel ①	Enabled	⊖
Channel Name: (Device) *	Current Channel (Preview)	~



#1 Check the Intune registry keys

- Open the Registry Editor, and go to the Intune policy path:
 HKLM\SOFTWARE\Microsoft\PolicyManager\Providers\
 \default\Device\office16-Policy-L_MicrosoftOfficemachine-L_Updates
- When the policy is applied, you see the following registry keys:
 L_UpdateBranch
- At this point, the Intune policy is successfully applied to the device.





Find the Provider ID

Find the provider ID for your device

Open the Registry Editor, and go to:

 $Computer \verb|\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\PolicyManager\AdmxInstalled$

```
> PLA
PlayToReceiver
PointOfService
Policies
PolicyManager
AdmxDefault
AdmxInstalled
CFE6A190-B24D-4B2B-9EB0-364683C9C051
microsoft_edge
microsoft_edgev80diff
microsoft_edgev84diff
microsoft_edgev85diff
office16v2
office16v2.Updates
```



#2 Check the Office registry keys

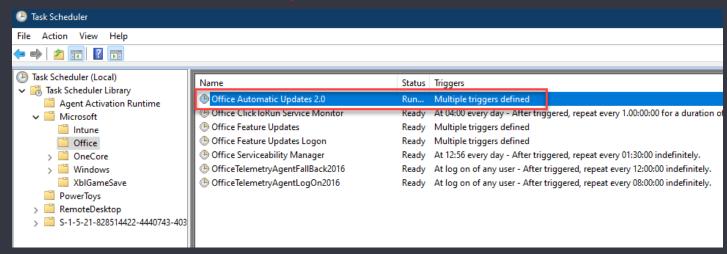
- Go to the Office policy path:
 Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Office\ClickToRun\Configuration
- Check the UpdateChannel value:
 - Monthly Enterprise Channel = 55336b82-a18d-4dd6-b5f6-9e5095c314a6
 - Current Channel = 492350f6-3a01-4f97-b9c0-c7c6ddf67d60
 - Current Channel (Preview) = 64256afe-f5d9-4f86-8936-8840a6a4f5be
 - Semi-Annual Enterprise Channel = 7ffbc6bf-bc32-4f92-8982-f9dd17fd3114
 - Semi-Annual Enterprise Channel (Preview) = b8f9b850-328d-4355-9145-c59439a0c4cf
 - Beta Channel = 5440fd1f-7ecb-4221-8110-145efaa6372f

<u></u> SCLCacheOverride	REG_SZ	0
№ SharedComputerLicensing	REG_SZ	0
ab StreamingFinished	REG_SZ	True
a b Stream Package Url Changed	REG_SZ	True
TeamsAddon	NEO_3Z	IIVSTALLED
ab UpdateChannel	REG_SZ	http://officecdn.microsoft.com/pr/64256afe-f5d9-4f86-8936-8840a6a4f5be
ab UpdateChannelChanged	PEG_SZ	Falco
ab UpdatesEnabled	REG_SZ	True
(ab) VersionToReport	REG_SZ	16.0.14527.20268
ab VisioProRetail.ExcludedApps	REG_SZ	groove
SERVICE DE L'AMERICA	DEC 07	COM



#3 Force Office automatic updates to run

- To test the policy, we can force the policy settings on the device
 - Go to HKLM\SOFTWARE\Microsoft\Office\ClickToRun\Updates
 - Edit the UpdateDetectionLastRunTime key > delete the value data.
 - Launch Task Secheduler > Microsoft > Office
 - Run "Office Automatic Updates 2.0"



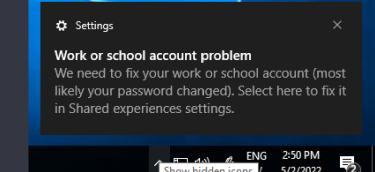


Troubleshooting Subscription Based Activation



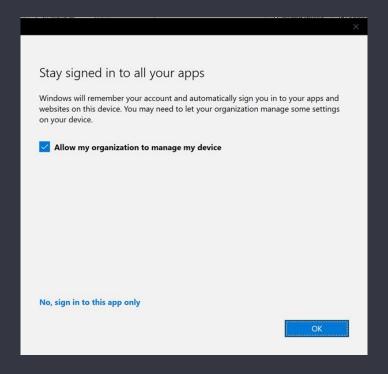
Subscription based licensing

- Easiest way of upgrading to Enterprise from pro
- Re-activated every 30 days
- Can trigger the "access work or school as ..."
- Important: Devices will automatically "migrate" from MAK, KMS and AD-based activation to Subscription when a user with an assigned license logs on.
- MFA, Conditional access, an cause this.



Stay signed in to all your apps = Evil

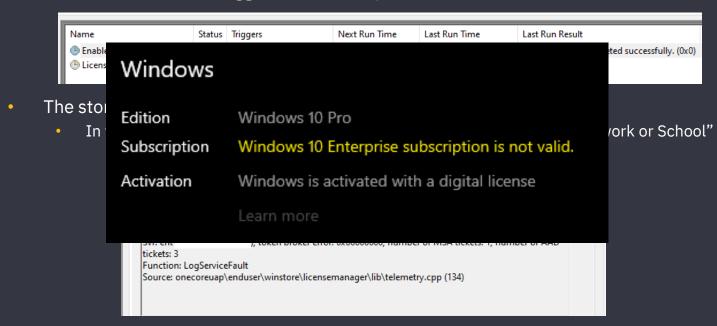
- "Stay signed in to all your apps" dialog in Microsoft Apps (outlook, Powerpoint, excel....)
- Recommended to block in Hybrid join
- Needs to be blocked on all modern managed Windows 10!
 - Personal devices: Intune sync will fail
 - AzureAD Joined devices: Windows Activation will fail





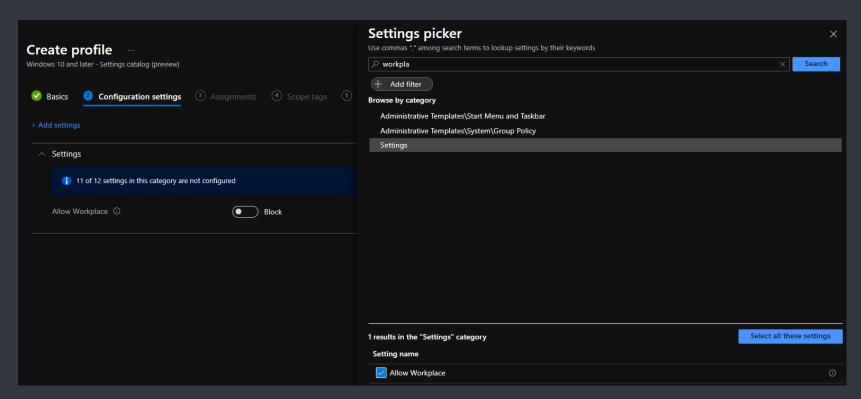
Subscription based activation

- Re-activated every 30 days
- Two scheduled tasks triggers License Acquisition

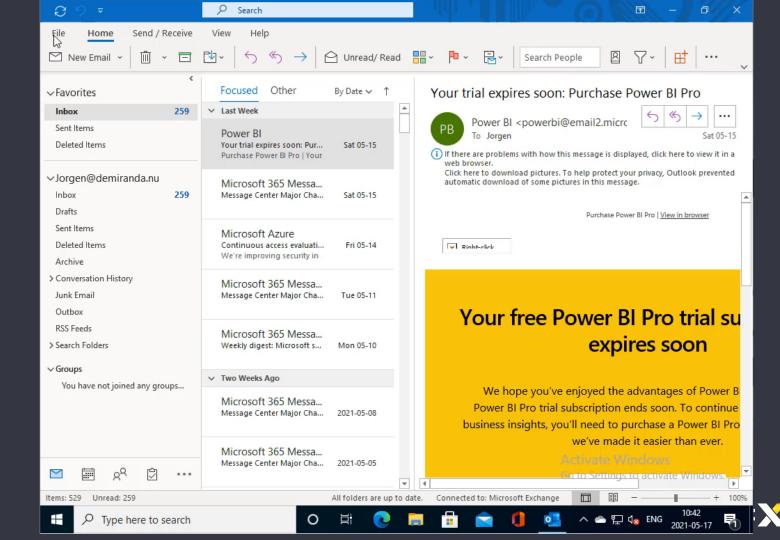




Blocking Workplace join





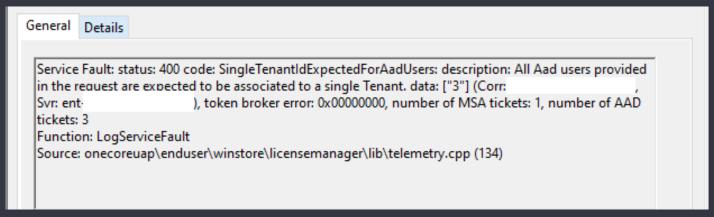


edition

Subscription Based Activation

Store Event Log + Schedule Task

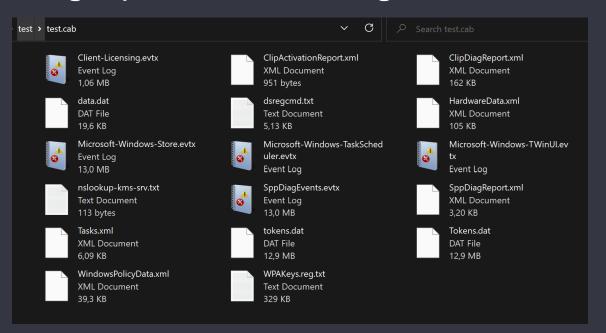
Name	Status	Triggers	Next Run Time	Last Run Time	Last Run Result
EnableLicenseAcquisition	Ready	Multiple triggers defined		2021-09-29 07:34:23	The operation completed successfully. (0x0)
(LicenseAcquisition	Ready	Multiple triggers defined	2021-09-30 04:44:30	2021-09-29 07:34:30	(0x87E10BF2)





Collecting information

- licensingdiag -cab c:\test\test.cab
- Collects all registry entries and event logs related to licensing





Enrollment



Troubleshooting Windows enrollment

- Valid License assigned to the user?
- Is the user allowed to enroll a device?
- Network issues, proxy etc.?
- Enrollment restrictions that blocks enrollment?
- Number of devices already enrolled (Device Limit)
- MDM Terms of use not correct



Hybrid Azure AD Join

- Group Policy (No Offset) (User Token)
- Co-Management (Offset) (Device token -> User Token)
 - Schedules enrollment with an offset
 - If the enrollment fails, SCCM will retry 2 times every 15 mins
- Common issues
 - The users 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/



Co-Managed device enrollment

- Co-managed devices will always try to enroll using a Device token
- If it fails it will try using the user token, depending on MFA settings this can fail as well.

Enrolling device to MDM... Try #1 out of 3

Enrolling device with RegisterDeviceWithManagementUsingAADDeviceCredentials

Processing GET for assignment (Scopeld B54C7DB5-E99F-4BC7-95DD-C383A9E555A9/ConfigurationPolicy 96925c8d-7753-4899-a44c-79f6...

Getting/Merging value for setting 'CoManagementSettings_AutoEnroll'

Merged value for setting 'CoManagementSettings_AutoEnroll' is 'true'

Getting/Merging value for setting 'CoManagementSettings_Allow'

Merged value for setting 'CoManagementSettings_Allow' is 'true'

Date/Time: 2022-05-09 22:22:08 Component: CoManagementHandler

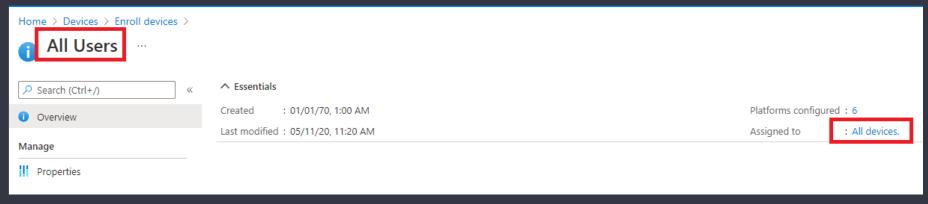
Thread: 12896 (0x3260) Source: mdmreglib.cpp:164

Enrolling device with RegisterDeviceWithManagementUsingAADDeviceCredentials



Enrollment restrictions and "All Users"

Important: the default enrollment restriction policy "All Users" is applied to "All Devices"



New merged workloadflags value with co-management max capabilities '16383' is '3'

Failed to enroll with RegisterDeviceWithManagementUsingAADDeviceCredentials with error code 0x80180014.

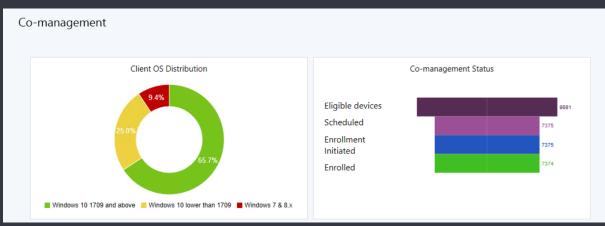
MDM enrollment failed with error code 0x80180014 'Specific platform or version is not supported'. Will retry in 240 minut...

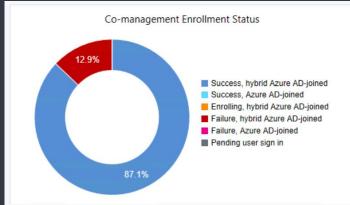
Could not check enrollment url, 0x00000001:



Co-Management Enrollment Status

- Console page
- Comanagementhandl er.log on the client

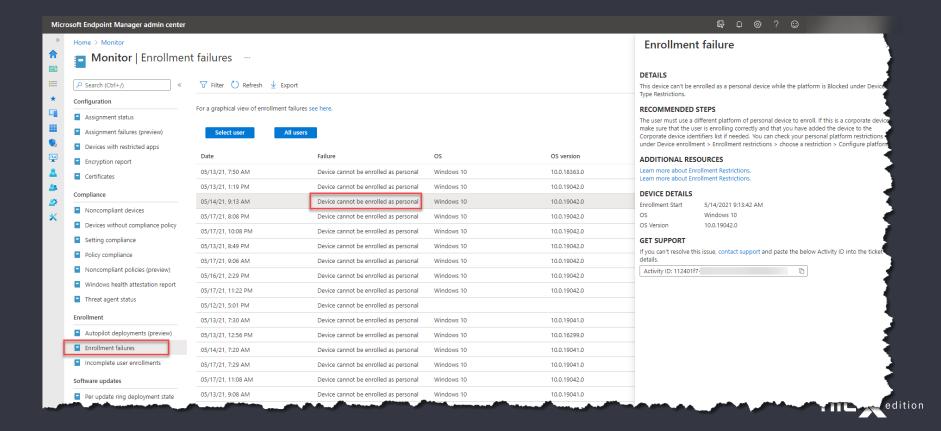




Count	Enrollment Error
706	License of user is in bad state blocking enrollment
382	Undefined
6	Element not found.
5	Catastrophic failure
4	The Internet connection has timed out
2	MDM enrollment hasn't been configured yet on AAD, or the enrollment url isn't expected.
1	The user canceled the operation



Enrollment Failures



DeviceCapReached = Device Limits

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'.

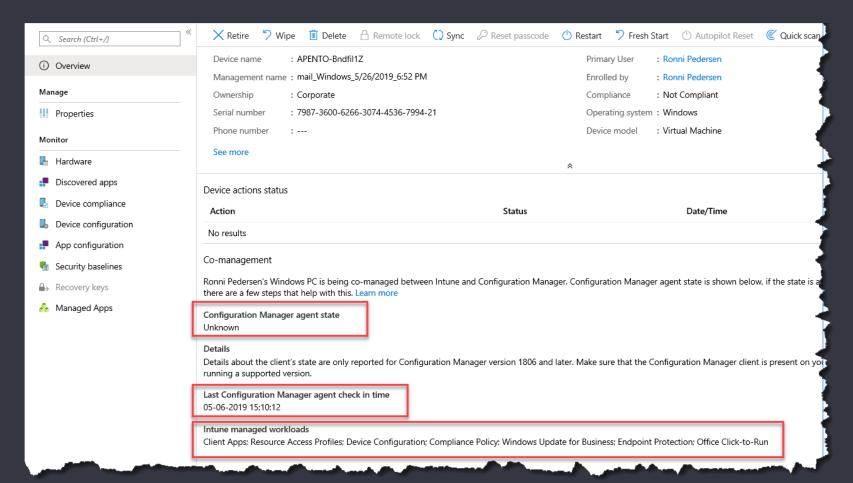
More information: https://www.microsoft.com/aadjerrors



Client Health

- 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.







Troubleshooting Policies



Device Settings in Microsoft Intune

Recommended order for Windows devices

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

Optional:

Proactive Remediation (Requires a Windows Enterprise E3 license)





Profile Tattooing

- Removing the assignment of the profile does not always revert the setting.
 - The behavior depends on the CSP.
 - Some setting remains until configured to a different value
 - Some CSPs remove the setting, and some CSPs keep the setting.
- Profiles applies to a User Group and a user is removed from the group.
 - Note: It can take up to **7 hours + the platform-specific policy refresh cycle**.
- Wi-Fi, VPN, Certificate, and Email Profiles
 - These profiles are removed from all supported enrolled devices



Policy and Profile refresh cycles

Existing Devices

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

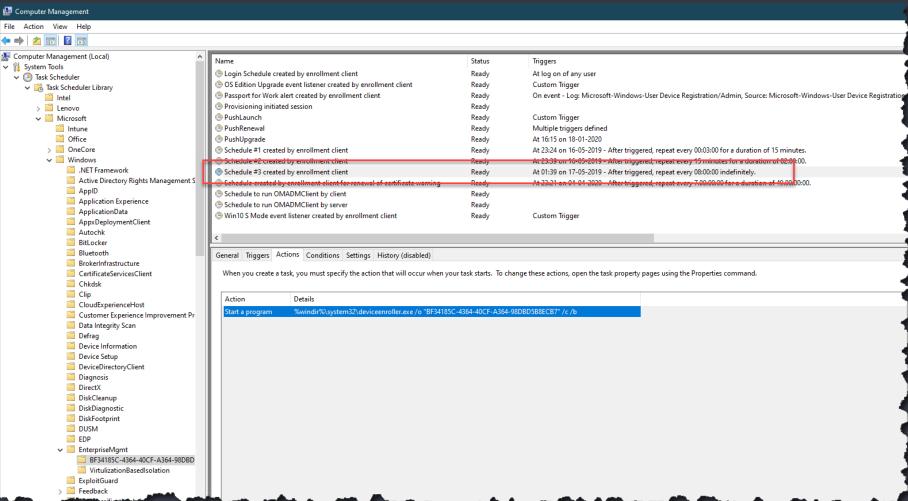
Recently Enrolled Devices

- #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





Intune notifications / Sync immediately

- Some actions will trigger a sync notification to the device
- When a Policy, Profile, or App is:
 - Assigned (or unassigned)
 - Updated
 - Deleted
- Manually from the Company Portal
- Manually using Script





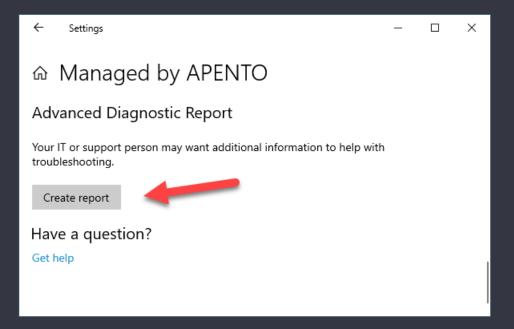
Policy/Profile Conflicts

- 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.
- Some conflicts are shown as error depending on setting type.



Troubleshooting MDM Policies

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





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=""></enable> <data id="EncryptionMethodWithXtsOsDropDownName" value="7"></data> <data id="EncryptionMethodWithXtsFdvDropDownName" value="7"></data> <data id="EncryptionMethodWithXtsRdvDropDownName" value="7"></data>
BitLocker	System Drives Recovery Options			device		BF34185C-4364-40CF-A364-98DBD5B8ECB7= <enable d=""></enable> <data id="OSAllowDRA_Name" value="true"></data> <da a="" id="OSRecoveryPasswordUsageDropDown_Name" value="2"></da> <data id="OSRecoveryKeyUsageDropDown_Name" value="2"></data> <data id="OSHideRecoveryPage_Name" value="false"></data> <data id="OSActiveDirectoryBackup_Name" value="true"></data> <data id="OSActiveDirectoryBackup_DropDown_Name" value="1"></data> <data id="OSRequirectoryBackup_Name" value="true"></data>
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	WCleud Protection	.1 #		device		PF34185C-4364-10CF-1264-98DBDF88ECB7=1



Intune Troubleshooting Pane

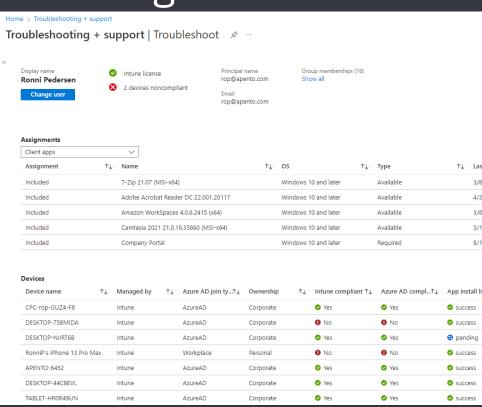
Intune portal page

https://aka.ms/intunetroubleshooting

Displays information focused around a particular user

 See info about assignments, devices, enrollment failures, etc.

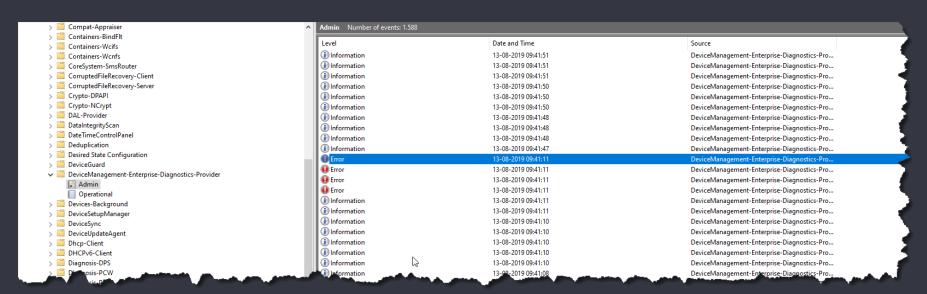
For more info: https://docs.microsoft.com/en-us/intune/help-desk-operators





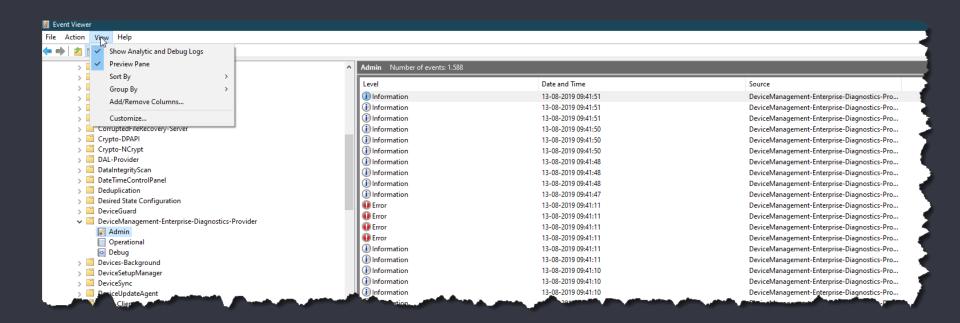
Device Profiles - Where is my logs?

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





Enable debug mode





Intune Management Extension



Intune Management Extension

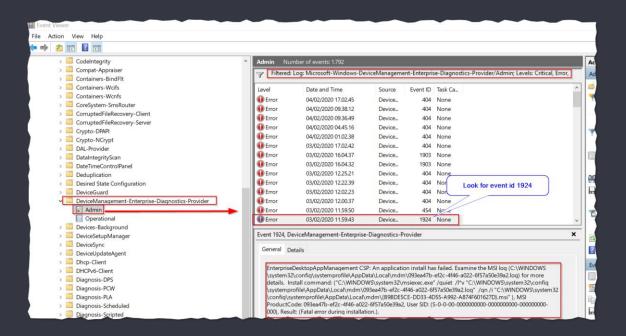
- An Introduction...
 - Know it
 - Plan it
 - Own it!
- Used by
 - Win32 apps
 - PowerShell scripts
 - Proactive remediations





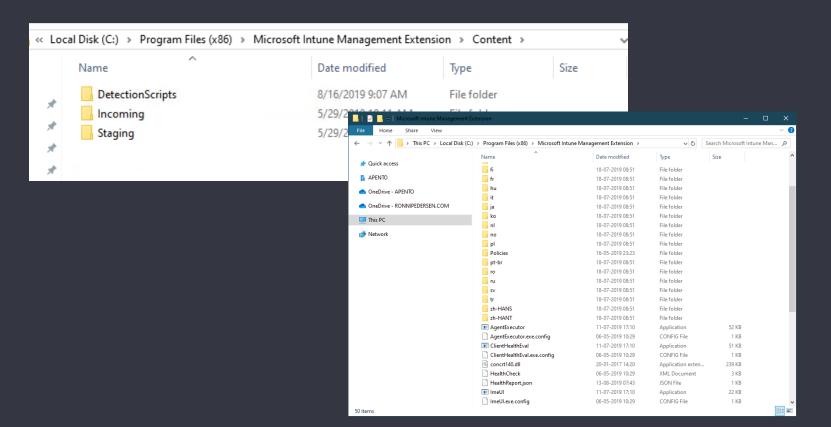
Intune Management Extension Event log

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





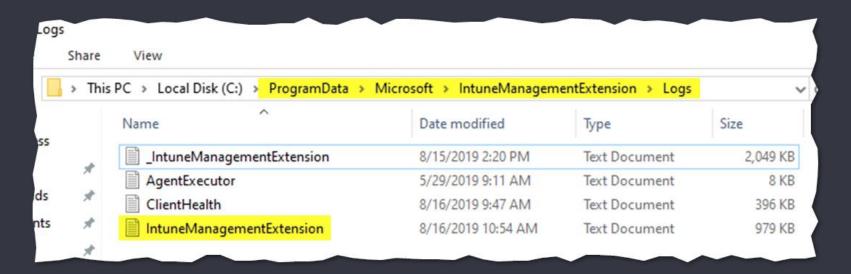
Intune Management Extension File System





Intune Management Extension Log files

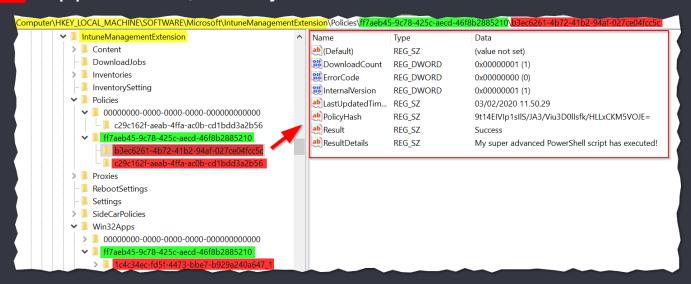
Log files:
 "C:\ProgramData\Microsoft\IntuneManagementExtension\logs"





Intune Management Extension The Registry

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

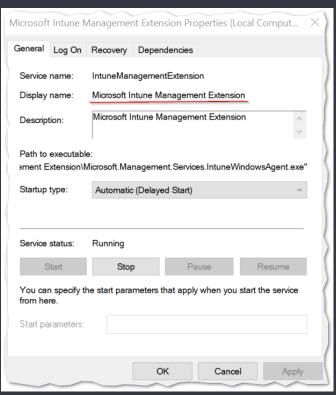




Intune Management Extension

- Troubleshooting
 - Check that the service is installed and running
 - Verify deployment in MDMDiagReport.html
 - Are you meeting the Prerequisites?

https://docs.microsoft.com/enus/intune/apps/ intune-management-extension#prerequisites





Win32 Apps



TIP #1

• Always test the application outside of Intune first !!!





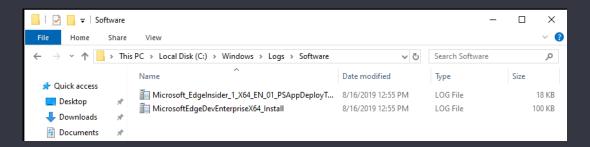
PowerShell App Deployment Toolkit

- 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

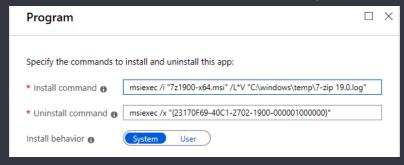


Use the tools you know

PS App Deployment Toolkit logging example:



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





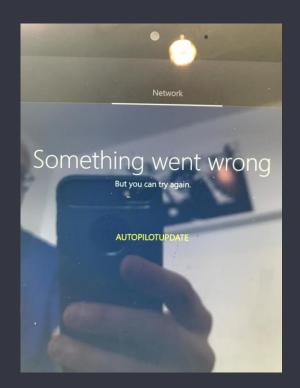
Windows AutoPilot



Network

A network for enrollment is needed

- Guest network, open network
- All ports, URL required must be opened





Network issues – we have seen

- 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".

Your co-workers kids or neighbor are the new network department!



Shift+F10

- 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.

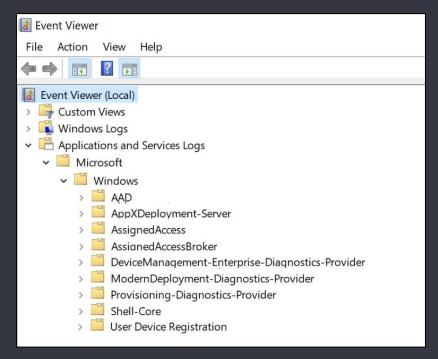


Troubleshooting



Troubleshooting

- Grab all potentially-interesting information:
 - Event logs
 - Registry, configuration data
 - TPM details (1809+)
 - ETL trace files
- Windows 10/11
 - MDMDiagnosticsTool.exe -area
 Autopilot;TPM -cab C:\temp\Autopilot.cab
- Analyze offline





	_IntuneManagementExtension. log Text Document		AgentExecutor.log Text Document 762 KB		AgentExecutor-20220303-0744 39.log Text Document		CertReq_enrollaik_Output.txt Text Document 3,59 KB
	CertUtil_tpminfo_Output.txt Text Document 9,54 KB		ClientHealth.log Text Document 1,90 MB	Хa,	DeviceHash_JORGEN-X1X.csv Microsoft Excel Comma Sepa 3,96 KB		DiagnosticLogCSP_Collector_A utopilot_2022_5_2_20_41_45.etl ETL File
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	DiagnosticLogCSP_Collector_D eviceProvisioning_2022_5_23 ETL File		DiagnosticLogCSP_Collector_D eviceProvisioning_2022_5_29 ETL File		DiagnosticLogCSP_Collector_D eviceProvisioning_2022_5_31 ETL File		DiagnosticsFrameworkData.jso n JSON File
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8	microsoft-windows-user device registration-admin.evtx Event Log		Sensor.log Text Document 30,3 KB		Sensor-20220601-125219.log Text Document 3,00 MB		Sensor-20220602-110322.log Text Document 3,00 MB
	setupact.log Text Document		TpmHliInfo_Output.txt Text Document				

212 bytes

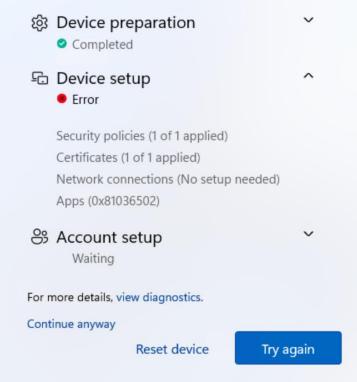
81,1 KB





Setting up for work or school

We ran into a problem with one of the following setup steps. For more help, contact your organization's support person.







Windows Autopilot diagnostics

- Policy Provider Installation
- Device-Targeted Apps Installation ^

Start Time 2022-05-22 01:05:12

Finish Time 2022-05-22 01:08:36

Device-targeted apps installation encountered an error and could not be completed. Error: 0x00000000

- Device-Targeted Policies Installation
- Device-Targeted Network Profiles
 Installation
- Oevice-Targeted Certificates
 Installation
 - ▲ User-Targeted Apps Installation

Close

Export logs



Thank you!



Slides and demos from the conference will be available at

https://github.com/nordicinfrastructureconference/2022

